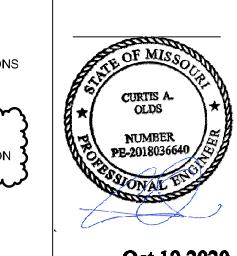
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION



CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE

ENLARGED

E4.0

1) KITCHEN ENLARGED PLAN
3/16" = 1'-0"

ELECTRICAL GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL OBTAIN KITCHEN EQUIPMENT VENDOR
 PLANS PRIOR TO BEGINNING ANY WORK.
- REFER TO FOOD SERVICE EQUIPMENT PLANS FOR EXACT POWER ROUGH-IN LOCATIONS AND REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, OCPD, CIRCUIT BREAKER, DISCONNECT, FUSE, WIRING DEVICE, TERMINATION, NEMA RATINGS, ETC WITH FOOD SERVICE PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS. FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN. DEVICE LOCATIONS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE.
- 3. EQUIPMENT HIGHLIGHTED WITH RECTANGULAR NUMBERS CORRESPONDS TO EQUIPMENT SHOWN ON FOOD SERVICE DRAWINGS. REFER TO FOOD SERVICE PLANS FOR COMPLETE DESCRIPTION OF EQUIPMENT AND POWER REQUIREMENTS.
- 4. REFER TO ARCHITECTURAL AND FOOD SERVICE PLANS AND DETAILS FOR EXACT LOCATIONS. ALIGNMENT, AND MOUNTING OF ALL CEILING, WALL, AND FLOOR MOUNTED DEVICES.
- COORDINATE THE EXACT ELECTRICAL REQUIREMENTS FOR ELECTRICALLY CONNECTED DEVICES AND EQUIPMENT WITH OTHER TRADES, INCLUDING OWNER FURNISHED EQUIPMENT, PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY INCLUDING, BUT NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, RECEPTACLE, CIRCUIT BREAKER AND TERMINATION. WHERE APPLICABLE, REFER TO MANUFACTURER/VENDOR INFORMATION FOR EXACT DEVICE LOCATIONS AND TYPE OF DEVICE REQUIRED, INCLUDING FOOD SERVICE AND REFRIGERATION VENDOR DRAWINGS.
- 6. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPERAGE, ETC FOR ALL DRINK AND FOOD SERVICE, HVAC, AND PLUMBING EQUIPMENT <u>BEFORE</u> PROVIDING ROUGH-IN.
- 7. PROVIDE WEATHER PROOF BOXES, DEVICES AND COVERS AT FLOOR LEVEL EQUIPMENT CONNECTIONS IN WASH DOWN AREAS SUCH AS: KITCHEN, SERVING, AND SIMILAR FOOD PREP AND FOOD SERVICE AREAS. COORDINATE EXACT LOCATIONS AFFECTED WITH OWNER.
- 8. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED IN KITCHENS AND FOOD PREP AREAS. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT.
- 10. FOR FURNISHED EQUIPMENT AND APPLIANCES: CONFIRM THE ELECTRICAL REQUIREMENTS WITH MANUFACTURER INFORMATION AND OTHER TRADES PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY. THIS INCLUDES BUT IS NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, CIRCUIT BREAKER, FUSE, WIRING DEVICE AND TERMINATION. WHERE APPLICABLE, REFER TO VENDOR INFORMATION, SUCH AS FOOD SERVICE AND REFRIGERATION DRAWINGS, FOR DEVICE TYPE AND LOCATION
- 11. ALL KITCHEN EQUIPMENT JUNCTION BOXES SHALL INCLUDE FINAL CONNECTION TO THEIR RESPECTIVE KITCHEN EQUIPMENT. VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER AND PROVIDE ALL NECESSARY ITEMS TO MEET THE EQUIPMENT'S ELECTRICAL INSTALLATION REQUIREMENTS.
- 12. FURNISH AND INSTALL DISCONNECT SWITCHES, INTERLOCKS, CONDUIT AND WIRING, AND INSTALL AS SPECIFICALLY OUTLINED WITHIN THE FOOD SERVICE CONSULTANT DRAWINGS.
- 13. ALL EQUIPMENT LOCATED UNDERNEATH A TYPE 1 HOOD AND ASSOCIATED MAKE-UP AIR UNIT SHALL BE PROVIDED SHUNTRIP BREAKERS AND BE INTERCONNECTED TO HOOD ANSUL SYSTEM. ACTIVATION OF ANSUL SYSTEM SHALL DISCONNECT POWER TO EQUIPMENT. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS, HOOD DRAWINGS, AND FIRE PROTECTION.
- 14. COORDINATE WALK-IN FRIDGE EQUIPMENT LOCATIONS AND INSTALLATION REQUIREMENTS WITH REFRIGERATION VENDOR AND KITCHEN EQUIPMENT VENDOR PLANS.
- 15. KEEP PENETRATIONS THROUGH INSULATED COOLER AND FREEZER BOXES TO A MINIMUM. AVOID ROUTING CONDUIT INSIDE OF THE BOX WHEREVER PRACTICABLE. SURFACE MOUNTED CONDUIT ON THE EXTERIOR OF THE COOLER OR FREEZER SHALL BE TIGHT TO THE BOX, UNLESS NOTED OTHERWISE. DO NOT ROUTE CONDUIT WHERE IT IS SUBJECT TO DAMAGE. AVOID ROUTING CONDUIT TO TOP SURFACE OF BOX IN AREAS USED FOR MEZZANINE STORAGE OR OTHER EQUIPMENT. SEAL ALL PENETRATIONS THROUGH BOX WITH EXPANDING FOAM OR SILICONE SEALANT AND FILL CONDUIT FITTINGS/SEAL OFFS WITH EXPANDING FOAM SEALANT.
- 16. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTION OF FOODSERVICE EQUIPMENT AS REQUIRED FOR A FULLY FUNTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH FOOD SERVICE CONSULTANT AND MANUFACTURER.
- 17. WHERE A DISCONNECT SWITCH IS NOT SHOWN A PADLOCK OFF BREAKER IS BEING USED TO PROVIDE DISCONNECTING MEANS. REFER TO PANEL SCHEDULES ON SHEET E6.10 FOR MORE INFORMATION.

☐ ELECTRICAL PLAN NOTES:

- E15 PROVIDE HUBBELL B2436 FLOOR BOX WITH ONE 5-20R RECEPTACLE FOR FOOD SERVICE EQUIPMENT. COORDINATE COVER PLATE MATERIAL AND FINISH WITH ARCHITECT. GFCI PROTECTION PROVIDED BY BREAKER.
- ARCHITECT. GFCI PROTECTION PROVIDED BY BREAKER.

 E17 CONTRACTOR TO STUB UP CONDUIT AT THIS LOCATION AND PROVIDE FINAL CONNECTION TO HARDWIRED FOOD SERVICE EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FOOD SERVICE CONSULTANT PRIOR TO ROUGH-IN. PROVIDE ALL DEVICES REQUIRED FOR A FULLY FUNCTIONAL PIECE OF FOOD SERVICE EQUIPMENT.
- E22 CIRCUIT FOR MAKEUP AIR UNIT SUPPLY FAN TO BE CIRCUITED THROUGH HOOD CONTROL PANEL IN THIS LOCATION. REFER TO SHEET E3.3G FOR LOCATION OF MAKEUP AIR UNIT. COORDINATE FINAL REQUIREMENTS WITH MANUFACTURER.
- E24 POWER CONNECTION LOCATED ON TOP OF WALK-IN FOR WALK-IN LIGHTING AND HEATER AS REQUIRED. DIVISION 26 CONTRACTOR RESPONSIBLE FOR ALL INTERCONNECTIONS. CONFIRM REQUIREMENTS WITH MANUFACTURER.
- CONFIRM REQUIREMENTS WITH MANUFACTURER.

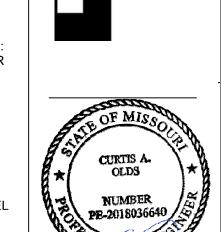
 E25 POWER CONNECTION FOR OVERHEAD DOOR. COORDINATE FINAL LOCATION WITH ARCHITECT. COORDINATE REQUIREMENTS WITH SELECTED MANUFACTURER.

12/0

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RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI



Oct 13 2020
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EXPIRES 12/31/2020

OOL #4

SUMMIT R-7 SCHOOL DISTRICT

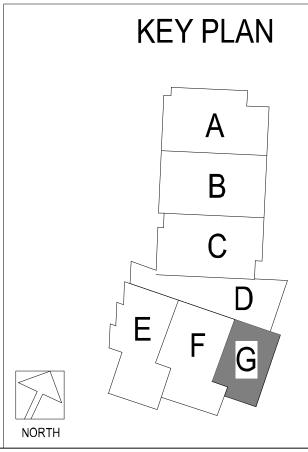
PACKAGE 3 - BUILDING & SITE

SITE
10/08/20
REVISIONS
ADDENDUM 001 10/2

13-20102-00

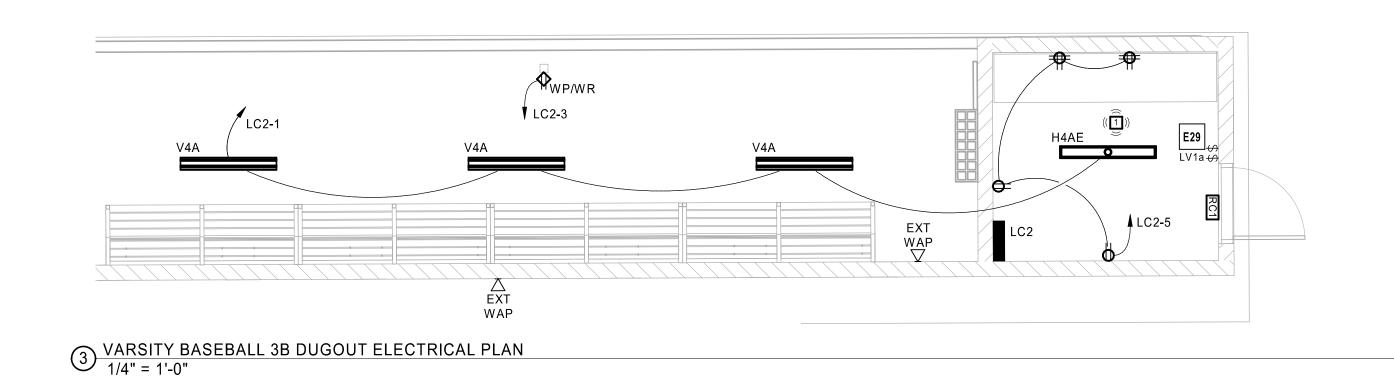
KITCHEN ENLARGED POWER PLAN

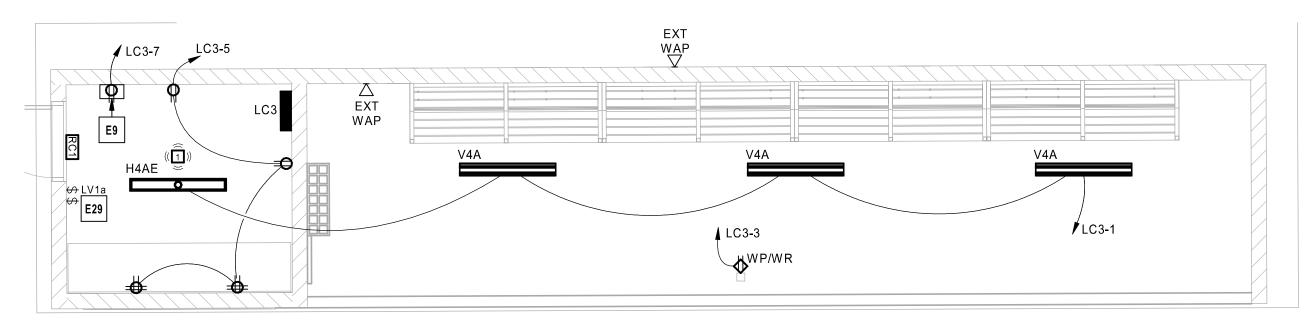
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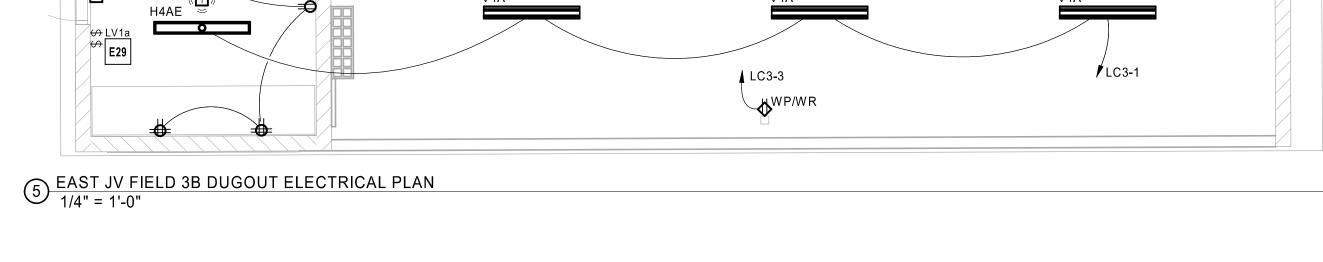


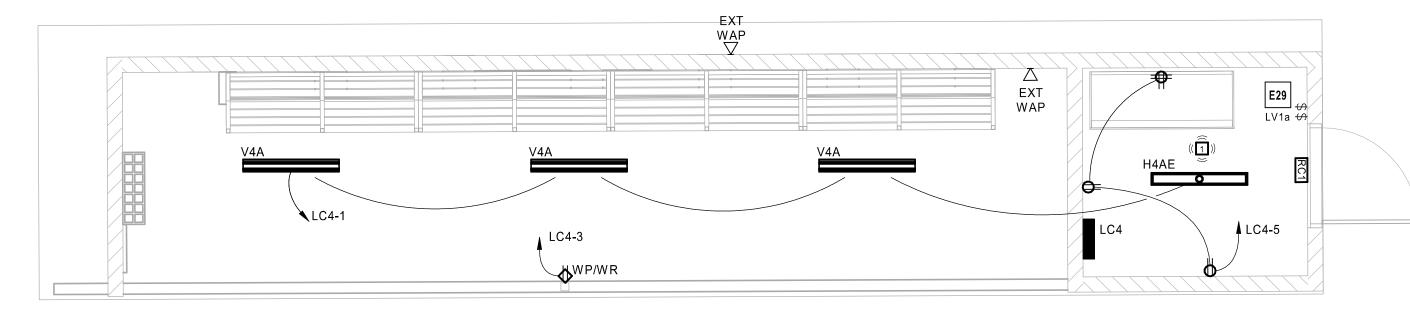
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

0 0 0 EXT WAP VARSITY SOFTBALL 3B DUGOUT ELECTRICAL PLAN
1/4" = 1'-0"

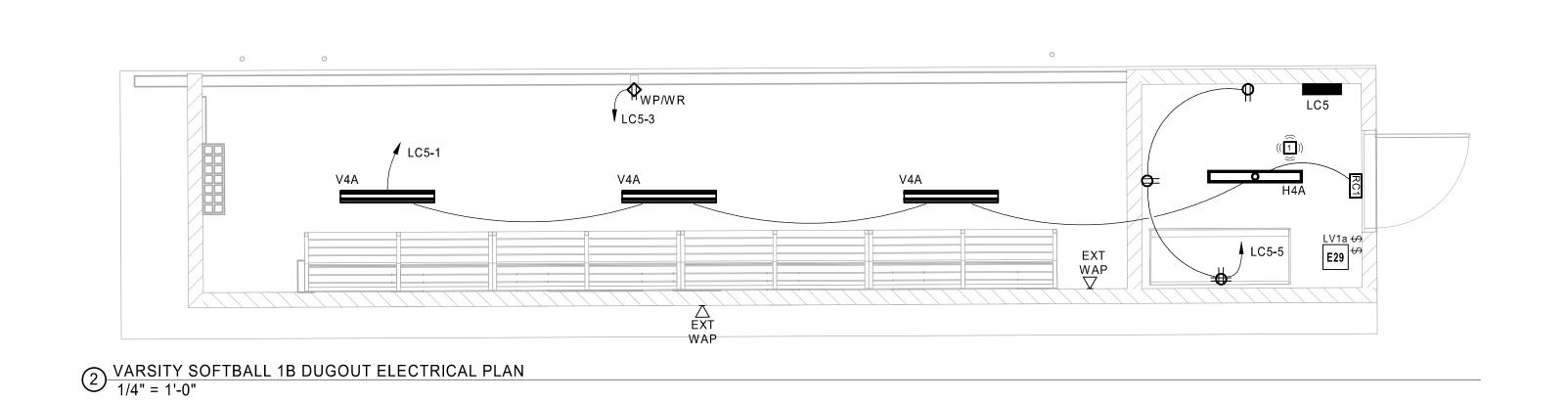


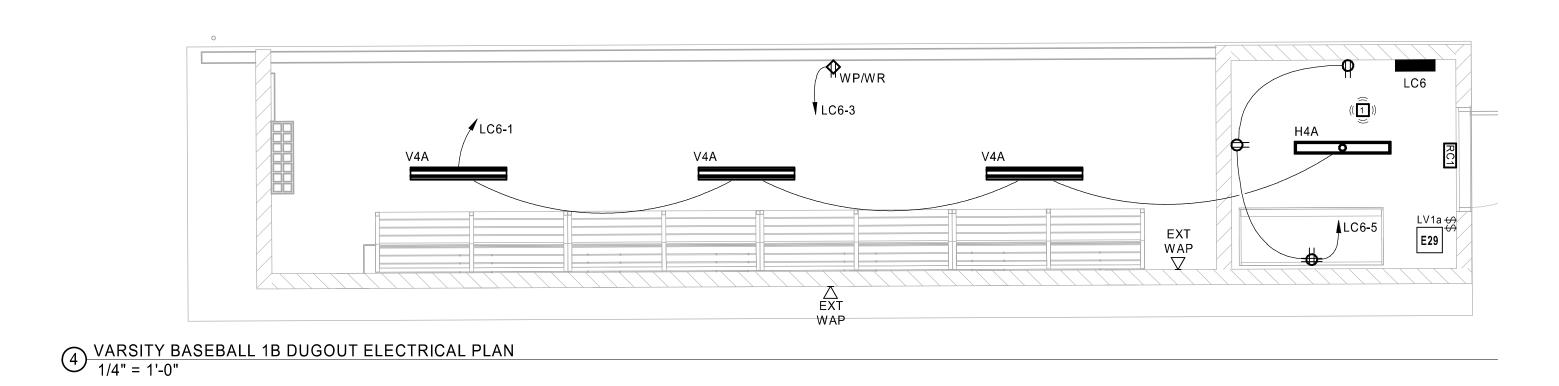


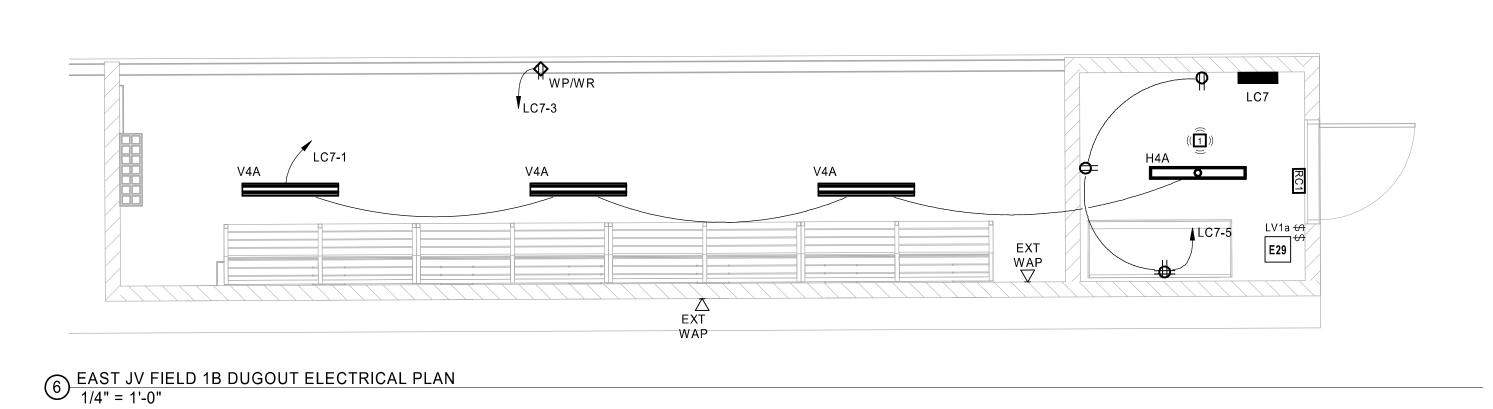


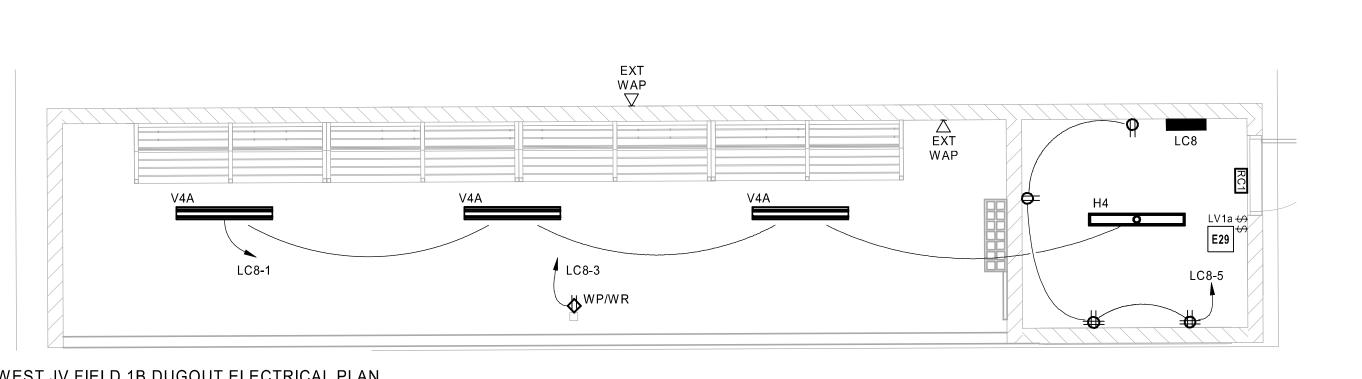


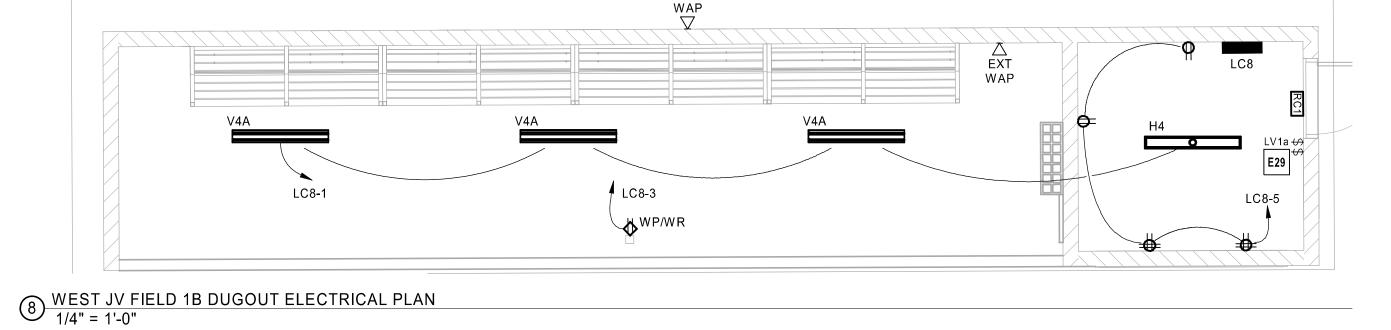


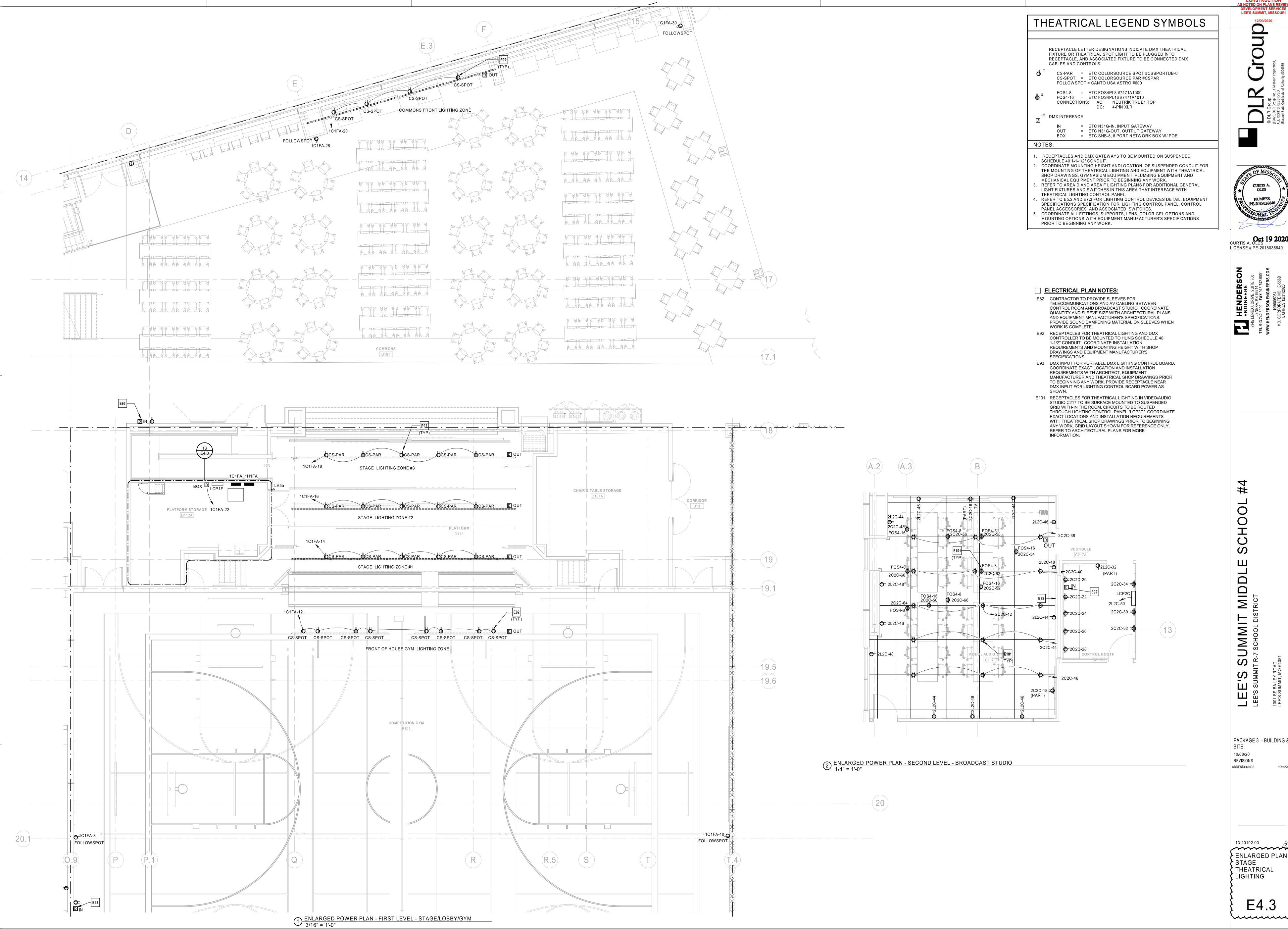




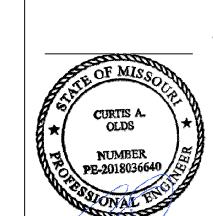








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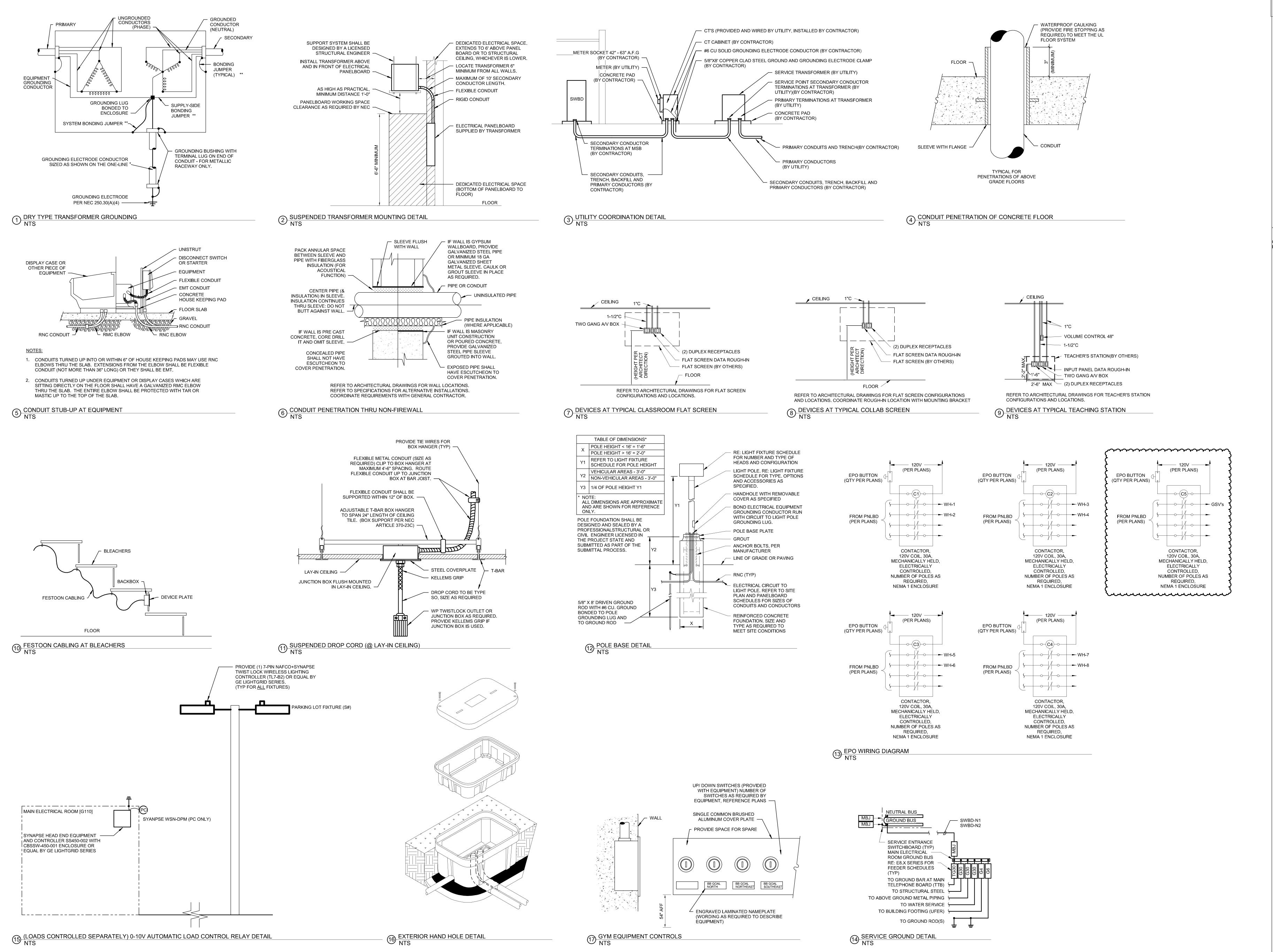
CURTIS A. OLDS LICENSE # PE-2018036640

UMMIT 8-7 SCHOOL DIST

PACKAGE 3 - BUILDING &

~~~~~<del>~</del> ENLARGED PLAN -STAGE **}** THEATRICAL LIGHTING

E4.3



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RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

CURTIS A. OLDS

NUMBER
PE-2018036640

Oct 19 2020

Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

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195000505
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LEE'S SUMMIT R-7 SCHOOL DISTRICT

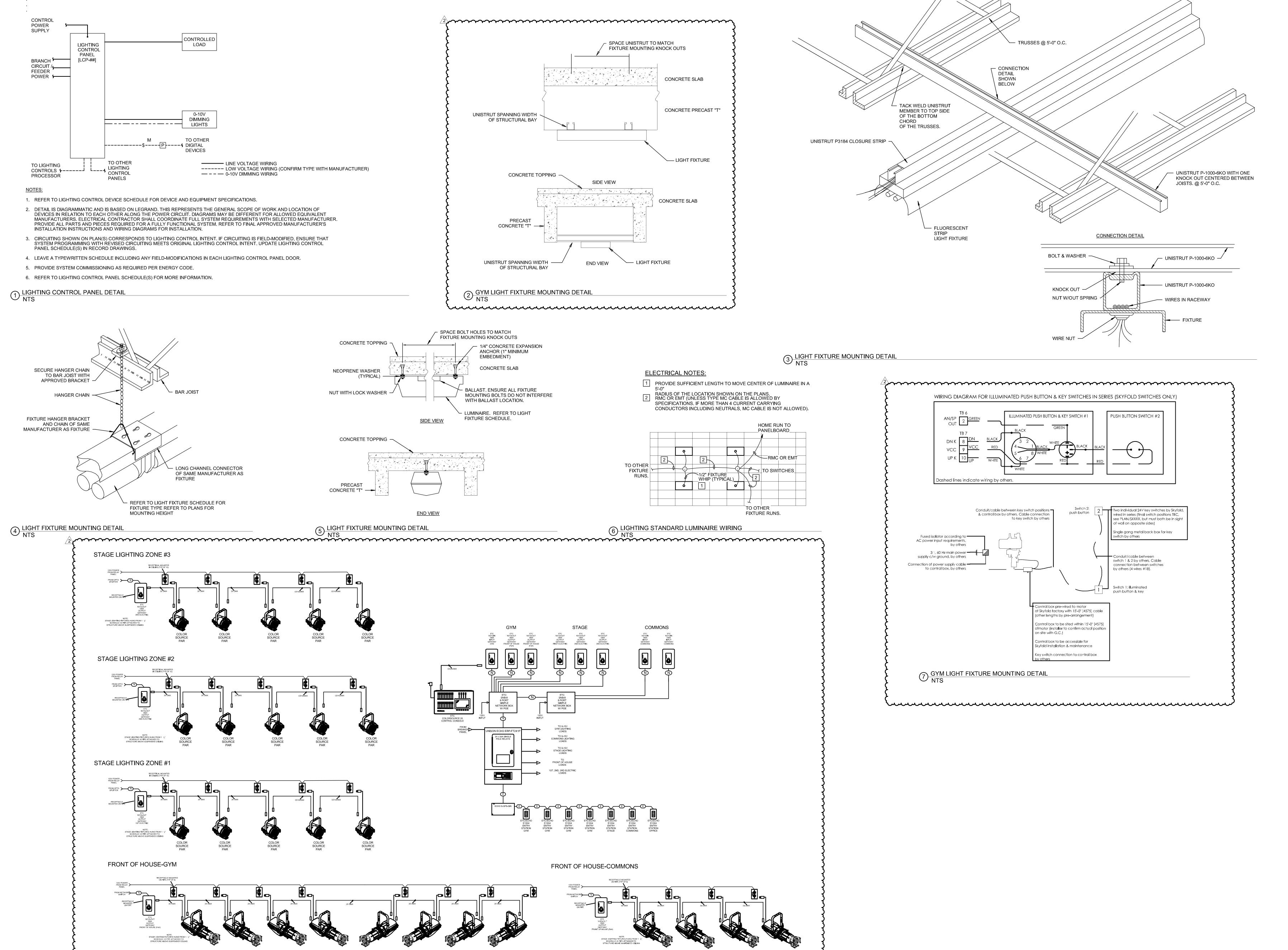
PACKAGE 3 - BUILDING 8 SITE 10/08/20 REVISIONS ADDENDUM 002 10/19/20

13-20102-00

ELECTRICAL

DETAILS

E5.1

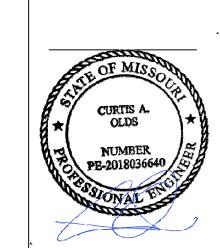


8 e THEATRICAL LIGHTING CONTROLS DETAILS NTS

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Oct 19 2020
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E'S SUMMIT MIDDLE SCHOOL #4

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/20

13-20102-00

ELECTRICAL

DETAILS

E5.2

| CKT DESCRIPTION NO.                                                                                                       | LOAD NOTES           | SIZE AMP                                 | A                        | PHASE PHASE C                              | P BKR WIRE<br>AMP SIZE                                                            | NOTES LOAD TYPE | DESCRIPTION                                                                                | CKT<br>NO.        | CKT<br>NO.                                                   | DESCRIPTION                                                                                    | LOAD NOTES           | SIZE AMP                              | A                         | PHASE PHASE C                   | P BKR WIRE<br>AMP SIZE        | TYPE       | DESCRIPTION                                                                                                                                                                                                                  | CKT H          |
|---------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------|--------------------------|--------------------------------------------|-----------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|---------------------------|---------------------------------|-------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1 LTS-B105,A108,A109,A110A&B,A114<br>3 LTS-A105, A106,A107                                                                | LZ<br>LZ             | 12 20 1<br>12 20 1                       | 1 1876 275<br>1          | 1303 1055                                  | 1 20 12<br>1 20 12                                                                | EM L L          | TS - NIGHT LIGHTS & EXIT SIGNS<br>TS - CORRIDOR A10, A12 (z5)                              | 3 2 4             | 1 3                                                          | RCPT - A101 DESK/TV<br>RCPT - A103 DESK/TV                                                     | R<br>RZ              | 12 20 1<br>12 20 1                    | 1080 360 1080             |                                 | 1 20 12<br>1 20 12            | R          | RCPT - A115   T RACK 1<br>RCPT - A115   T RACK 1                                                                                                                                                                             | 2 L            |
| 5 LTS-A101,A102,A103,A104<br>7 LTS-A111,A112,A113<br>9 LTS-A115, A116, A117A&B, A118A,B&C                                 | LZ<br>L              | 12 20 1<br>12 20 1                       | 1 270 2356               | 2754 570 1068 188                          | 1 20 12<br>1 20 10<br>1 20 SC                                                     | EM L L          | .TS - L COMMONS A100A (z6)(z7)<br>.TS - AREA A EXTERIOR LEVEL 1&<br>.TG - NORTH/EAST DRIVE | 2 8               | 7                                                            | RCPT - A104 DESK/TV<br>RCPT - A105 DESK/TV<br>RCPT - A118B DESK/TV                             | RZ<br>RZ             | 12 20 1<br>12 20 1<br>12 20 1         | 1080 360 720              | 1080 360                        | 1 20 12<br>1 20 12<br>1 20 12 | R          | RCPT - A115   T RACK 3<br>RCPT - A115   T RACK 4<br>RCPT - A100B TV                                                                                                                                                          | 8 L            |
| 11 SPARE<br>13 SPARE                                                                                                      | LZ                   | 12 20 7<br>20 7<br>20 7                  | 1 0 0                    | 0 0                                        | 1 20 50                                                                           |                 | SPARE                                                                                      | 12                | 11                                                           | RCPT - A118B DESK/TV<br>RCPT - A118B<br>RCPT - A118B                                           | R                    | 12 20 1<br>12 20 1<br>12 20 1         | 180 720                   | 720<br>180 1080                 | 1 20 12 1 20 12 1 20 12       | RZ         | RCPT - A100B TV<br>RCPT - A106 TV<br>RCPT - A108 DESK/TV                                                                                                                                                                     | 10 N<br>12 C   |
| 15 SPARE<br>17 SPARE                                                                                                      |                      | 20 20 20                                 | 1                        | 0 0 0                                      | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 16                | 15                                                           | RCPT - A118B<br>RCPT - A118B                                                                   | Z                    | 12 20 1<br>12 20 1<br>12 20 1         | 1000                      | 720<br>1000 720                 | 1 20 12<br>1 20 12<br>1 20 12 | R          | RCPT - A109 DESK/TV RECEPTACLES                                                                                                                                                                                              | 16 P           |
| 19 SPARE<br>21 SPARE                                                                                                      |                      | 20 °<br>20 °<br>20 °                     | 1 0 1267<br>1            | 0 1267                                     | 3 15 12                                                                           |                 | RF-1 (3HP)                                                                                 | 20<br>22          | 19<br>21                                                     | RCPT - A118B<br>RCPT - A118B                                                                   | Z                    | 12 20 1<br>12 20 1                    | 1000 0 1000               | 0                               | 1 20<br>1 20                  |            | SPARE<br>SPARE                                                                                                                                                                                                               | 20<br>22       |
| 23 SPARE<br>25 SPARE                                                                                                      |                      | 20                                       | 1<br>1 0 3717            | 0 1267                                     |                                                                                   | 3               |                                                                                            | 24<br>26          | 23<br>25                                                     | RCPT - A118B<br>RCPT - FLOOR BOX A118                                                          | Z<br>R               | 12 20 1<br>12 20 1                    | 360 0                     | 1000 0                          | 1 20<br>1 20                  |            | SPARE<br>SPARE                                                                                                                                                                                                               | 24 S<br>26 V   |
| 27 SPARE 29 EQUIPPED SPACE 31 EQUIPPED SPACE                                                                              |                      | 20                                       | 1<br>1<br>1 0 3717       | 0 3717 0 3717                              | 3 25 10                                                                           | MZ              | DC-1 (10HP)                                                                                | 28<br>30<br>32    | 27<br>29                                                     | RCPT - FLOOR BOX A117<br>RCPT - A117A 3D PRINTER 1<br>RCPT - A117A 3D PRINTER 2                | R<br>Z               | 12 20 1<br>12 20 1<br>12 20 1         | 1000 0                    | 1000 0                          | 1 20                          |            | SPARE<br>SPARE<br>SPARE                                                                                                                                                                                                      | 30             |
| 33 EQUIPPED SPACE 35 EQUIPPED SPACE                                                                                       |                      |                                          | 1 0   3717               | 0 3717 0 3717                              | 3 25 10                                                                           | }   M Z   [     | DC-2 (10HP)                                                                                | 34                | 33                                                           | RCPT - A117A 3D PRINTER 2  RCPT - A117A 3D PRINTER 3  RCPT - A117A 3D PRINTER 4                | Z 7                  | 12 20 1<br>12 20 1<br>12 20 1         | 1000                      | 1000 0                          | 1 20                          |            | SPARE<br>SPARE                                                                                                                                                                                                               | 34             |
| 37 EQUIPPED SPACE<br>39 EQUIPPED SPACE                                                                                    |                      |                                          | 1 0 5043<br>1            | 0 5043                                     | 3 25 10                                                                           | M A             | AHU-1 (SUPPLY)                                                                             | 38                | 37<br>39                                                     | RCPT - A117A TECH PRINTER 1<br>RCPT - A117A FUTURE PRINTER                                     | Z                    | 12 20 1<br>12 20 1                    | 1000 0 180                |                                 | 1 20 1 20                     |            | SPARE<br>SPARE                                                                                                                                                                                                               | 38             |
| 41 EQUIPPED SPACE                                                                                                         | TOTAL                | LOAD (VA):                               | 1 18520 VA               | 0 5043<br>19425 VA 14999 VA                | Tund                                                                              | <b>)</b>   4    | 1 @ 3HP                                                                                    | 42                | 43                                                           | RCPT - A117A DESK/TV<br>SPARE                                                                  | R                    | 12 20 1<br>20 1                       | 0 0                       | 720 0                           | 1 20<br>1 20                  |            | SPARE<br>SPARE                                                                                                                                                                                                               | 42<br>44       |
|                                                                                                                           | TOTAL                | , ,                                      | 69 A                     | 72 A 54 A                                  |                                                                                   |                 |                                                                                            |                   | 47                                                           | SPARE<br>SPARE<br>SPARE                                                                        |                      | 20 1<br>20 1<br>20 1                  | 0                         | 0 0                             | 1 20                          |            | SPARE<br>SPARE<br>SPARE                                                                                                                                                                                                      | 46             |
| LOAD TYPE CONNECTE LOAD                                                                                                   | ED DEMAND FACTOR     | NEC DEMAN                                | ID PANELBOARD NO         | ES                                         |                                                                                   |                 | PANELBOARD TOTALS                                                                          |                   | 51                                                           | SPARE                                                                                          |                      | 20 1                                  | 0                         | 0 0                             | 1 20                          |            | SPARE<br>SPARE                                                                                                                                                                                                               | 52             |
| EXISTING LOAD (E)         0 VA           COOLING (C)         0 VA                                                         | 100%<br>0%           | 0 VA<br>0 VA                             |                          |                                            |                                                                                   |                 | TOTAL CONNECTED LOAD                                                                       | 52945 VA          | 55                                                           | SPARE EQUIPPED SPACE                                                                           |                      | 20 1                                  | 0 0                       | 0                               | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 56<br>58       |
| HEATING (H) 0 VA<br>LIGHTING (L) 11655 VA                                                                                 | 100%<br>125%         | 0 VA<br>14569 VA                         |                          |                                            |                                                                                   |                 | TOTAL NEC LOAD  TOTAL CONNECTED CURRENT                                                    | 59641 VA          |                                                              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |                      | 1                                     | 0 0                       | 0 0                             | 1 1                           |            | EQUIPPED SPACE<br>EQUIPPED SPACE                                                                                                                                                                                             | 60<br>62       |
| RECEPTACLES (R) 0 VA MOTORS (M) 26100 VA                                                                                  |                      | 0 VA<br>26100 VA                         |                          |                                            |                                                                                   |                 | TOTAL NEC DEMAND CURRENT                                                                   | 64 A<br>72 A      | 65                                                           | EQUIPPED SPACE EQUIPPED SPACE                                                                  |                      | 1                                     | 0                         | 0 0                             | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 66             |
| SUPPLEMENTAL HEAT (U) 0 VA MISC EQUIP (Z) 60 VA REFRIGERATION (F) 0 VA                                                    | 100%<br>100%<br>100% | 0 VA<br>60 VA<br>0 VA                    |                          |                                            |                                                                                   |                 |                                                                                            |                   | 67<br>69<br>71                                               | EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                   |                      | 1                                     | 0                         | 0 0                             | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                 | 70             |
| SIGN/DISPLAY (D)         0 VA           KITCHEN (K)         0 VA                                                          | 125%<br>100%         | 0 VA<br>0 VA                             |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                |                      | 1                                     | 0 0                       | 0                               | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 74             |
| LARGEST MOTOR 15130 VA<br>SHOW WINDOW (W) 0 VA                                                                            |                      | 18913 VA<br>0 VA                         |                          |                                            |                                                                                   |                 |                                                                                            |                   | 77<br>79                                                     | EQUIPPED SPACE EQUIPPED SPACE                                                                  |                      | 1                                     | 0 0                       | 0 0                             | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 78<br>80       |
| TRACK LIGHTING 0 VA                                                                                                       | 100%                 | 0 VA                                     |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |                      | 1                                     | 0                         | 0 0                             | 1                             |            | EQUIPPED SPACE<br>EQUIPPED SPACE                                                                                                                                                                                             | 82<br>84       |
| PANELBOARD: 2L1A (NEW)                                                                                                    |                      |                                          |                          | RRENT: RE: ONE-LINE DIAGRAM                |                                                                                   |                 | EQUIPMENT G                                                                                | ROUND BUS         |                                                              |                                                                                                | TOTAL A              | OAD (VA):                             |                           | 140 VA 8140 VA<br>60 A 68 A     | _                             |            |                                                                                                                                                                                                                              |                |
| BUS AMPS: 225A                                                                                                            |                      |                                          | AIC RATEI<br>AIC RATIN   |                                            |                                                                                   |                 |                                                                                            |                   | LOA                                                          | O TYPE CONNECTE                                                                                |                      |                                       | D PANELBOARD NOTES        | 00 A 00 A                       |                               |            | PANELBOARD TOTALS                                                                                                                                                                                                            |                |
| MAIN SIZE/TYPE: 200A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W                                                                 |                      |                                          | SERVES:<br>MOUNTIN       | FIRST FLOOR - AREA A<br>G: SURFACE         |                                                                                   |                 |                                                                                            |                   | EXIS                                                         | LOAD           TING LOAD (E)         0 VA                                                      | FACTOR<br>100%       | 0 VA                                  |                           |                                 |                               |            |                                                                                                                                                                                                                              | 22420 VA       |
| SUPPLIED BY: DP-2H1A VIA TX-2L1A                                                                                          |                      |                                          | LOCATION                 | ELECTRICAL A114                            |                                                                                   |                 | LINE-SIDE LUGS: N                                                                          | MECHANICAL        | HEA                                                          | LING (C) 0 VA FING (H) 0 VA                                                                    | 0%<br>100%           | 0 VA<br>0 VA                          |                           |                                 |                               |            |                                                                                                                                                                                                                              | 21930 VA       |
| CKT DESCRIPTION NO.                                                                                                       | LOAD NOTES           | WIRE BKR F                               | PHASE<br>A               | PHASE PHASE<br>B C                         | P BKR WIRE<br>AMP SIZE                                                            | NOTES LOAD      | DESCRIPTION                                                                                | CKT<br>NO.        | RECI                                                         | TING (L)       0 VA         EPTACLES (R)       10980 VA         ORS (M)       0 VA             | 125%<br>96%<br>100%  | 0 VA<br>10490 VA<br>0 VA              |                           |                                 |                               |            | TOTAL NEC DEMAND CURRENT                                                                                                                                                                                                     | 62 A           |
| 1 RCPT - A101 GENERAL A 3 RCPT - A101 GENERAL B                                                                           | R                    | 12 20 7<br>12 20 7                       | 1 720 400<br>1           | 720   360                                  | 1 20 12<br>1 20 12                                                                | F R F           | PWR -A115 SECURITY PANEL<br>RCPTS - A117A AC                                               | 2                 | SUPF                                                         | PLEMENTAL HEAT (U) 0 VA<br>E EQUIP (Z) 11440 VA                                                | 100%                 | 0 VA<br>0 VA<br>11440 VA              |                           |                                 |                               |            | TOTAL NEC DEMAND CURRENT                                                                                                                                                                                                     | 61 A           |
| 5 RCPT - A106 GENERAL A<br>7 RCPT - A106 GENERAL B                                                                        | R                    | 12 20 1<br>12 20 1                       | 1<br>1 720 360           | 720 360                                    | 1 20 12<br>1 20 12<br>1 20 12                                                     | R F             | RCPT - A117A OVERHEAD A<br>RCPT - A117A OVERHEAD B                                         | 6 8               | REFF<br>SIGN                                                 | RIGERATION (F) 0 VA<br>/DISPLAY (D) 0 VA                                                       | 100%<br>125%         | 0 VA<br>0 VA                          |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| 9 RCPT - A102 GENERAL 11 RCPT - A108 QUADS A                                                                              | R R                  | 12 20 1<br>12 20 1                       | 1                        | 180         360           1080         360 | 1 20 12<br>1 20 12                                                                | RF              | RCPT - A117A OVERHEAD C<br>RCPT - A117A OVERHEAD D                                         | 10<br>12          | LARC                                                         | HEN (K) 0 VA GEST MOTOR 0 VA                                                                   | 100%<br>125%         | 0 VA<br>0 VA                          |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| 13 RCPT - A108 QUADS B 15 RCPT - A108 QUADS C 17 RCPT - A100C, A108, A109 GENERAL                                         | R                    | 12 20 7<br>12 20 7<br>12 20 7            | 1 1080 360               | 720 360<br>1260 900                        | 1     20     12       1     20     12       1     20     12       1     20     12 | R F             | RCPT - A117A OVERHEAD E<br>RCPT - A117A OVERHEAD F<br>RCPT - A117A GENERAL                 | 14                | TRAC                                                         | W WINDOW (W) 0 VA CK LIGHTING 0 VA                                                             | 125%<br>100%         | 0 VA<br>0 VA                          |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| 19 RCPT - A110A GENERAL 21 RCPT - A109 QUADS A                                                                            | R                    | 12 20 1<br>12 20 1                       | 1 900 1080<br>1          | 1080 900                                   | 1 20 12<br>1 20 12                                                                | R F             | RCPT - A117,A118,A118B CONV.                                                               | 20                |                                                              |                                                                                                |                      | <del>MMM</del>                        |                           | T: RE: ONE-LINE DIAGRAM         | MANA                          | MANAM      | EQUIPMENT GRO                                                                                                                                                                                                                | 3              |
| 23 RCPT - A109 QUADS B<br>25 RCPT - A109 QUADS C                                                                          | R<br>R               | 12 20 1<br>12 20 1                       | 1<br>1 1080 0            | 1080 0                                     | 1 20<br>1 20                                                                      |                 | SPARE<br>SPARE                                                                             | 24<br>26          | ζ                                                            | NELBOARD: SHOP (NEW)<br>AMPS: 225A                                                             |                      |                                       | AIC RATED:<br>AIC RATING: | FULLY RATED<br>FCA +10% MINIMUM |                               |            |                                                                                                                                                                                                                              | 3              |
| 27 RCPT - RESTROOMS 29 RCPT - A104 GENERAL A 31 RCPT - A104 GENERAL B                                                     | R                    | 12 20 7<br>12 20 7<br>12 20 7            | 1<br>1<br>1 720 0        | 540         0           720         0      | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 28<br>30          | MAIN                                                         | SIZE/TYPE: 200A M.C.B. (SHUNT TRIP MA<br>S/PHASE: 208Y/120 V 3P/4W                             | MN)                  |                                       | SERVES:                   | SHOP<br>SURFACE                 |                               |            |                                                                                                                                                                                                                              | }              |
| 33 RCPT - A104 GENERAL B 33 RCPT - A105 GENERAL A 35 RCPT - A105 GENERAL B                                                | R                    | 12 20 7                                  | 1 720 0                  | 540 0 720 0                                | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 34                |                                                              | PLIED BY: DP-2H1A VIA TX-2L1A                                                                  |                      |                                       | MOUNTING:<br>LOCATION:    | ELECTRICAL A114                 |                               |            |                                                                                                                                                                                                                              | }              |
| 37 RCPT - A103 GENERAL A<br>39 RCPT - A103 GENERAL B                                                                      | R<br>R               | 12 20 1<br>12 20 1                       | 1 720 0<br>1             | 720 0                                      | 1 20<br>1 20                                                                      | 5               | SPARE<br>SPARE                                                                             | 38<br>40          | { ckt                                                        | DESCRIPTION                                                                                    |                      | WIRE BKR F                            | PHASE P                   | PHASE PHASE                     | P BKR WIRE                    | NOTES LOAD | LINE-SIDE LUGS: MEC<br>DESCRIPTION                                                                                                                                                                                           | скт 🔾          |
| 41 RCPT - A118B OVERHEAD A 43 RCPT - A118B OVERHEAD B                                                                     | R<br>R               | 12 20 1<br>12 20 1                       | 1 360 0                  | 360 0                                      | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 42                | NO. 1                                                        | RCPT - A118 SHOP EQUIP AC A                                                                    | TYPE Z               | SIZE AMP 12 20 1                      | A 500   500               | B C                             | 1 20 12                       |            | RCPT - A117A SHOP EQUIP AC A                                                                                                                                                                                                 | NO. 2          |
| 45 RCPT - A118B OVERHEAD C<br>47 RCPT - A118B OVERHEAD D<br>49 RCPT - A118B OVERHEAD E                                    | R                    | 12 20 7<br>12 20 7<br>12 20 7            | 1<br>1<br>1 360 0        | 360 0 360 0                                | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 46<br>48<br>50    | $\begin{array}{c c} & 3 \\ \hline 5 \\ \hline 7 \end{array}$ | RCPT - A118 SHOP EQUIP AC B<br>RCPT - A118 SHOP EQUIP AC C<br>RCPT - A118 SHOP EQUIP AC D      | Z                    | 12 20 1<br>12 20 1<br>12 20 1         | 500 500                   | 500 500 500                     | 1 20 12<br>1 20 12<br>1 20 12 | Z          | RCPT - A117A SHOP EQUIP AC B<br>RCPT - A117A SHOP EQUIP AC C<br>RCPT - A117A SHOP EQUIP AC D                                                                                                                                 | 6 8            |
| 51 RCPT - A118B OVERHEAD F<br>53 RCPT - A118B AC                                                                          | R R                  | 12 20 1<br>12 20 1                       | 1                        | 360 0 360 0                                | 1 20                                                                              | 5               | SPARE<br>SPARE                                                                             | 52<br>54          | 9 11                                                         | RCPT - A118 SHOP EQUIP AC E RCPT - A118 SHOP EQUIP AC F                                        | Z                    | 12 20 1<br>12 20 1                    | 500                       | 500 500 500                     | 1 20 12<br>1 20 12            | Z          | RCPT - A117A SHOP EQUIP AC E RCPT - A117A SHOP EQUIP AC F                                                                                                                                                                    | 10 12          |
| 55 RCPT - A110 QUADS A<br>57 RCPT - A110 QUADS B                                                                          | R<br>R               | 12 20 1<br>12 20 1                       | 1 1080 0                 | 1080 0                                     | 1 20<br>1 20                                                                      | 3               | SPARE<br>SPARE                                                                             | 56<br>58          | 13 15                                                        | RCPT - A118 SHOP EQUIP AC G<br>RCPT - A118 SHOP EQUIP AC H                                     | Z<br>Z               | 12 20 1<br>12 20 1                    | 500 500 500               | 500                             | 1 20 12<br>1 20 12            | Z          | RCPT - A117A SHOP EQUIP AC G<br>RCPT - A117A SHOP EQUIP AC H                                                                                                                                                                 | 14 16          |
| <ul> <li>59 RCPT - A110 QUADS C</li> <li>61 RCPT - STORAGE A117B, A118C, A118A</li> <li>63 RCPT - A116 GENERAL</li> </ul> | R<br>N R             | 12 20 1<br>12 20 1<br>12 20 1            | 1 900 0                  | 360 0                                      | 1 20<br>1 20<br>1 20                                                              | 9               | SPARE<br>SPARE<br>SPARE                                                                    | 60                | <b>}</b> 17 19 21                                            | RCPT - A118 SHOP EQUIP AC I<br>RCPT - A118 SHOP EQUIP AC J<br>RCPT - A118 OVERHEAD A           | Z                    | 12 20 1<br>12 20 1<br>12 20 1         | 500 500                   | 500 500                         | 1 20 12<br>1 20 12<br>1 20 12 | Z          | RCPT - A117A SHOP EQUIP AC I<br>RCPT - A117A SHOP EQUIP AC J<br>RCPT - A117A SHOP EQUIP AC K                                                                                                                                 | 18 20          |
| 65 RCPT - CORRIDOR A10<br>67 RCPT - CORRIDOR A12, A13, G108I                                                              | R                    | 12 20 7<br>12 20 7<br>12 20 7            | 1 900 0                  | 900 0                                      | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 66                | 23                                                           | RCPT - A118 OVERHEAD A  RCPT - A118 OVERHEAD B  RCPT - A118 OVERHEAD C                         | R                    | 12 20 1<br>12 20 1<br>12 20 1         | 360 360                   | 500           360         360   | 1 20 12                       | R          | RCPT - A117 A SHOP EQUIP AC K RCPT - A117 OVERHEAD A RCPT - A117 OVERHEAD B                                                                                                                                                  | 24             |
| 69 RCPT - A100B QUADS<br>71 RCPT - A100A CONV.                                                                            | R<br>R               | 12 20 1<br>12 20 1                       | 1                        | 1080 0 720 0                               | 1 20 1 20                                                                         | 9               | SPARE<br>SPARE                                                                             | 70<br>72          | 27 29                                                        | RCPT - A118 OVERHEAD D<br>RCPT - A118 OVERHEAD E                                               | R<br>R               | 12 20 1<br>12 20 1                    | 360                       | 360 360 360                     | 1 20 12<br>1 20 12            | R          | RCPT - A117 OVERHEAD C<br>RCPT - A117 OVERHEAD D                                                                                                                                                                             | 28 30          |
| 73 RCPT - A107 MECH 75 RCPT - A108A REFRIGERATOR                                                                          | R<br>K GF            | 12 20 1<br>12 20 1                       | 1 180 0                  | 900 0                                      | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 74<br>76          | 31 33                                                        | RCPT - A118 OVERHEAD F RCPT - TABLE SAW (COORDINATE                                            | R<br>Z               | 12     20     1       10     30     2 | 360 360 2000              |                                 | 1 20 12<br>1 20 12            |            | RCPT - A117 OVERHEAD E<br>RCPT - A117 OVERHEAD F                                                                                                                                                                             | 32 34          |
| 77 RCPT - A108A QUADS 79 RCPT - A108A GENERAL 81 RCPT - EWC                                                               | R R Z GF             | 12 20 7<br>12 20 7<br>12 20 7            | 1 540 0                  | 600 0                                      | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 80                | 35 37                                                        | EQUIPMENT POWER REQ.)  RCPT - BANDSAW (COORDINATE  EQUIPMENT POWER REQ.)                       | Z                    | 10 30 2                               | 2 2000 2000               | 2000 2000                       | 2 30 10                       |            | RCPT - TABLE SAW (COORDINATE<br>EQUIPMENT POWER REQ.)<br>RCPT - BANDSAW (COORDINATE                                                                                                                                          | 36 38          |
| 83 RCPT - A116 FLOOR CLEANER CHARGI<br>85 RCPT - A108, A109, A110 GOGGLE                                                  |                      | 12 20 2                                  | 1<br>1 540 0             | 1500 0                                     | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 84<br>86          | 41 43                                                        | RCPT - TABLE SANDER (COORDINATE EQUIPMENT POWER REQ.)                                          | Z                    | 10 30 2                               | 2000 2000                 | 2000 2000                       | 2 30 10                       |            | EQUIPMENT POWER REQ.) RCPT - TABLE SANDER (COORDINATION OF THE COORDINATION OF T | 42<br>E 44     |
| 87 PARNETSOR HARDWARE (A107.2) 89 SPARE                                                                                   | Z                    | 12 20 2<br>20 2                          | 1                        | 50 0 0                                     | 1 20<br>1 20                                                                      |                 | SPARE<br>SPARE                                                                             | 88<br>90          | 45 47                                                        | RCPT - FOOT SHEAR (COORDINATE EQUIPMENT POWER REQ.)                                            | Z GF                 | 10 30 2                               | 2000                      | 2000 2000 2000                  | 2 30 10                       | GF Z       | EQUIPMENT POWER REQ.) RCPT - FOOT SHEAR (COORDINATE                                                                                                                                                                          | 46 48          |
| 91 SPARE<br>93 SPARE<br>95 SPARE                                                                                          |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 0 0                    | 0 0                                        | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 92<br>94          | <b>4</b> 9 51 53                                             | SPARE<br>SPARE<br>SPARE                                                                        |                      | 20 1<br>20 1<br>20 1                  | 0 2000 0                  | 0                               | 1                             |            | EQUIPMENT POWER REQ.) EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                          | 50 52          |
| 97 SPARE<br>99 SPARE                                                                                                      |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 0 0                    | 0 0                                        | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 98                | 55 57                                                        | SPARE<br>SPARE                                                                                 |                      | 20 1                                  | 0 0                       |                                 | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 56 58          |
| 101 SPARE<br>103 SPARE                                                                                                    |                      | 20 20                                    | 1 0 0                    | 0 0                                        | 1 20                                                                              | 5               | SPARE<br>SPARE                                                                             | 102<br>104        | 59                                                           | SPARE SPARE                                                                                    |                      | 20 1                                  | 0 0                       | 0 0                             | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 60 62          |
| 105 SPARE<br>107 SPARE                                                                                                    |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1                        | 0 0 0                                      | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 106<br>108        | 63 65                                                        | SPARE<br>SPARE                                                                                 |                      | 20 1<br>20 1                          | 0                         | 0 0                             | 1                             |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 64 66          |
| 109 SPARE<br>111 SPARE<br>113 SPARE                                                                                       |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 0 0                    | 0 0 0                                      | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 110<br>112<br>114 | 69                                                           | SPARE<br>SPARE<br>SPARE                                                                        |                      | 20 1<br>20 1<br>20 1                  | 0                         | 0                               |                               |            | EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                 | 70             |
| 115 SPARE<br>117 SPARE                                                                                                    |                      | 20                                       | 1 0 0                    | 0 0                                        | 1 20<br>1 20                                                                      | 5               | SPARE<br>SPARE                                                                             | 116<br>118        | 73 75                                                        | SPARE SPARE                                                                                    |                      | 20 1                                  | 0 0                       | 0                               | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 74 76          |
| 119 SPARE<br>121 SPARE                                                                                                    |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 0 0                    | 0 0                                        | 1 20                                                                              |                 | SPARE<br>SPARE                                                                             | 120<br>122        | 77 79                                                        | SPARE<br>SPARE                                                                                 |                      | 20 1<br>20 1                          | 0 0                       | 0 0                             | 1 1                           |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 78<br>80       |
| 123 SPARE<br>125 SPARE<br>127 SPARE                                                                                       |                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 | 1 0 0                    | 0 0                                        | 1 20<br>1 20<br>1 20                                                              |                 | SPARE<br>SPARE<br>SPARE                                                                    | 124<br>126<br>128 | 81 83                                                        | SPARE<br>SPARE                                                                                 |                      | 20 1                                  |                           | 0 0                             |                               |            | EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                | 84             |
| 129 SPARE<br>131 SPARE                                                                                                    |                      | 20 °<br>20 °<br>20 °                     | 1                        | 0 0 0                                      | 1 20 1 20                                                                         | 5               | SPARE<br>SPARE                                                                             | 130<br>132        | }                                                            |                                                                                                | TOTAL A              | OAD (VA):<br>AMPS:                    |                           | 940 VA 16440 VA<br>125 A 138 A  | +                             |            |                                                                                                                                                                                                                              | }              |
| 133 SPARE<br>135 SPARE                                                                                                    |                      | 20 20                                    | 0 0                      | 0 0                                        | 1 20<br>1 20                                                                      | 5               | SPARE<br>SPARE                                                                             | 134<br>136        | { LOAD                                                       | ) TYPE CONNECTE                                                                                | ED DEMAND            |                                       | D PANELBOARD NOTES        | 10071                           |                               |            | PANELBOARD TOTALS                                                                                                                                                                                                            | {{\clip}}      |
| 137 SPARE 139 EQUIPPED SPACE 141 EQUIPPED SPACE                                                                           |                      | 20                                       | 1 0 0                    | 0 0 0                                      | 1 20<br>1 20<br>1 20 15                                                           |                 | SPARE<br>SPARE<br>RHWP-1                                                                   | 138<br>140<br>142 |                                                              | LOAD TING LOAD (E) 0 VA                                                                        | FACTOR<br>100%       | 0 VA                                  |                           |                                 |                               |            | TOTAL CONNECTED LOAD                                                                                                                                                                                                         | 46820 VA       |
| 143 EQUIPPED SPACE 145 EQUIPPED SPACE                                                                                     |                      |                                          | 1 0 100                  | 0 200                                      | 1 20 13<br>1 20 12<br>1 20 12                                                     | FA M F          | FIRE/SMOKE DAMPERS - LEVEL 1 MAGNETIC DOOR HOLDS A11                                       | 144               | ( HEA                                                        | LING (C)       0 VA         FING (H)       0 VA         TING (L)       0 VA                    | 0%<br>100%<br>125%   | 0 VA<br>0 VA<br>0 VA                  |                           |                                 |                               |            | TOTAL NEC LOAD                                                                                                                                                                                                               | 46820 VA       |
| 147 EQUIPPED SPACE<br>149 EQUIPPED SPACE                                                                                  |                      |                                          | 1                        | 0 100 0 360                                | 1 20 12<br>1 20 12                                                                | FA Z F          | MAGNETIC DOOR HOLDS A14<br>FIRE ALARM PANEL                                                | 148<br>150        | RECI                                                         | EPTACLES (R) 4320 VA  ORS (M) 0 VA                                                             | 100%<br>100%         | 4320 VA<br>0 VA                       |                           |                                 |                               |            | TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT                                                                                                                                                                             | 130 A<br>130 A |
| 151 EQUIPPED SPACE 153 EQUIPPED SPACE                                                                                     |                      | ,                                        | 1 0 500                  | 0 500                                      | 1 20 12<br>1 20 12                                                                | Z F             | PWR-LCP1A<br>PWR - BAS MECH CONTROLS                                                       | 152<br>154        | SUPF<br>MISC                                                 | PLEMENTAL HEAT (U) 0 VA<br>EQUIP (Z) 42500 VA                                                  |                      | 0 VA<br>42500 VA                      |                           |                                 |                               |            |                                                                                                                                                                                                                              | }              |
| 155 EQUIPPED SPACE 157 EQUIPPED SPACE 159 EQUIPPED SPACE                                                                  |                      |                                          | 1 0 700                  | 0 100                                      | 1 20 12<br>1 20 12<br>1 20 12                                                     | M \             | EPO/CONTACTOR<br>/AVs 101 thru 117<br>WH1, WH2, RP1, TIMER                                 | 156<br>158<br>160 | SIGN                                                         | RIGERATION (F)         0 VA           /DISPLAY (D)         0 VA           HEN (K)         0 VA | 100%<br>125%         | 0 VA<br>0 VA<br>0 VA                  |                           |                                 |                               |            |                                                                                                                                                                                                                              | }              |
| 161 EQUIPPED SPACE<br>163 EQUIPPED SPACE                                                                                  |                      |                                          | 1<br>1 0 1144            | 0 1144                                     | 2 20 12                                                                           |                 | CU 1-1/CRU 1-1                                                                             | 162<br>164        | LARC                                                         | #EIN (K)                                                                                       | 100%<br>125%<br>125% | 0 VA<br>0 VA                          |                           |                                 |                               |            |                                                                                                                                                                                                                              | 1              |
| 165 EQUIPPED SPACE<br>167 EQUIPPED SPACE                                                                                  |                      | ,                                        | 1                        | 0         1144           0         1144    | 2 20 12                                                                           | C               | CU 1-2/CRU 1-2                                                                             | 166<br>168        | TRAC                                                         | CK LIGHTING 0 VA                                                                               | 100%                 | 0 VA                                  |                           |                                 |                               |            |                                                                                                                                                                                                                              | كسساخ          |
|                                                                                                                           |                      | LOAD (VA):                               | 15444 VA                 | 13777 VA 16508 VA                          |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                | - 3                  | -                                     |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| LOAD TYPE CONNECTE                                                                                                        | TOTAL  ED DEMAND     |                                          | 131 A  ID PANELBOARD NOT | 115 A 140 A                                |                                                                                   |                 | PANELBOARD TOTALS                                                                          |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| EXISTING LOAD (E) 0 VA                                                                                                    | FACTOR<br>100%       | 0 VA                                     |                          |                                            |                                                                                   |                 |                                                                                            | 45220 \ / 1       |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| COOLING (C)         4576 VA           HEATING (H)         0 VA                                                            | 100%<br>0%           | 4576 VA<br>0 VA                          |                          |                                            |                                                                                   |                 | TOTAL CONNECTED LOAD  TOTAL NEC LOAD                                                       |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| LIGHTING (L)         0 VA           RECEPTACLES (R)         34380 VA           MOTORS (M)         958 VA                  | 125%<br>65%<br>100%  | 0 VA<br>22190 VA<br>958 VA               |                          |                                            |                                                                                   |                 | TOTAL NEC DEMAND CURRENT                                                                   | 126 A             |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| MOTORS (M)   958 VA     SUPPLEMENTAL HEAT (U)   0 VA     MISC EQUIP (Z)   3820 VA                                         | 100%                 | 958 VA<br>0 VA<br>3820 VA                |                          |                                            |                                                                                   |                 | TOTAL NEC DEMAND CURRENT                                                                   | 92 A              |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| REFRIGERATION (F) 0 VA<br>SIGN/DISPLAY (D) 0 VA                                                                           | 100%<br>125%         | 0 VA<br>0 VA                             |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| KITCHEN (K) 900 VA LARGEST MOTOR 696 VA SHOW WINDOW (W)                                                                   | 100%<br>125%<br>125% | 900 VA<br>870 VA                         |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
| SHOW WINDOW (W) 0 VA TRACK LIGHTING 0 VA                                                                                  | 125%<br>100%         | 0 VA<br>0 VA                             |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |
|                                                                                                                           |                      |                                          |                          |                                            |                                                                                   |                 |                                                                                            |                   |                                                              |                                                                                                |                      |                                       |                           |                                 |                               |            |                                                                                                                                                                                                                              |                |

**FULLY RATED** 

SURFACE

FCA +10% MINIMUM

**ELECTRICAL A114** 

FIRST FLOOR - AREA A

AIC RATED:

AIC RATING:

MOUNTING:

LOCATION:

SERVES:

PANELBOARD: 2H1A (NEW)

BUS AMPS: 100A

MAIN SIZE/TYPE: 100A M.C.B.

SUPPLIED BY: DP-2H1A

VOLTS/PHASE: 480Y/277 V 3P/4W

| EQUIPMENT GROU                   | JND BUS   | PAN    | IELBOARD: 2C1                                    | A (NEW)      |          |              |          |              |                                               | FAULT (  | CURRENT: RE: ON<br>ED: FULLY |            | GRAM |                    |      | EQUIPMENT GF                                   | ROUND BU |
|----------------------------------|-----------|--------|--------------------------------------------------|--------------|----------|--------------|----------|--------------|-----------------------------------------------|----------|------------------------------|------------|------|--------------------|------|------------------------------------------------|----------|
|                                  |           | BUS A  | MPS: 150A                                        |              |          |              |          |              |                                               | AIC RAT  |                              | 0% MINIMU  | M    |                    |      |                                                |          |
|                                  |           |        | SIZE/TYPE: 150A M.C.B.                           |              |          |              |          |              |                                               | SERVES   |                              | FLOOR - AR |      |                    |      |                                                |          |
|                                  |           |        | 6/PHASE: 208Y/120 V 3P/4V                        | V            |          |              |          |              |                                               | MOUNT    |                              |            |      |                    |      |                                                |          |
|                                  |           |        | .IED BY: DP-2H1A VIA TX-2                        |              |          |              |          |              |                                               | LOCATION |                              | RICAL A114 |      |                    |      | 200                                            | % NEUTR  |
| NE-SIDE LUGS: MEC                | HANICAL   | 33112  |                                                  |              |          |              |          |              |                                               | 200/111  |                              |            |      |                    |      | LINE-SIDE LUGS: M                              |          |
| CRIPTION                         | CKT       | СКТ    | DESCRIPTION                                      |              | LOAD     | NOTES        | WIRE     | BKR I        | р рн                                          | ASE      | PHASE                        | PH         | ASE  | P BKR WIRE NOTES   | LOAD |                                                | СК       |
| idi 11014                        | NO.       | NO.    | DEGOTAL TION                                     |              | TYPE     | NOTEO        | SIZE     |              | '                                             | A        | В                            |            | C    | AMP SIZE           | TYPE | BEGOTAL FIGH                                   | NC NC    |
| rs & exit signs                  | 2         |        | RCPT - A101 DESK/TV                              |              | R        |              | 12       |              | 1 1080                                        | 360      |                              |            |      | 1 20 12            | R    | RCPT - A115 IT RACK 1                          | 2        |
| 10, A12 (z5)                     | 4         |        | RCPT - A103 DESK/TV                              |              | RZ       |              | 12       | 20           | <u>-</u>                                      |          | 1080 360                     | 4000       | 200  | 1 20 12            | R    | RCPT - A115 IT RACK 1                          | 4        |
| A100A (z6)(z7)<br>RIOR LEVEL 1&2 | 6<br>8    |        | RCPT - A104 DESK/TV<br>RCPT - A105 DESK/TV       |              | RZ<br>RZ |              | 12<br>12 | 20           | 1 1080                                        | 360      | ٦                            | 1080       | 360  | 1 20 12<br>1 20 12 | R    | RCPT - A115 IT RACK 3<br>RCPT - A115 IT RACK 4 | 6        |
| DRIVE                            | 10        | 1 1    | RCPT - A118B DESK/TV                             |              | R        |              | 12       | 20           |                                               | 000      | 720 720                      |            |      | 1 20 12            | R    | RCPT - A100B TV                                | 1        |
|                                  | 12        |        | RCPT - A118B                                     |              | R        |              | 12       | 20           | 1                                             |          |                              | 180        | 1080 | 1 20 12            | RZ   | RCPT - A106 TV                                 | 1        |
|                                  | 14        |        | RCPT - A118B                                     |              | R        |              | 12       | 20           | 1 180                                         | 720      |                              |            |      | 1 20 12            | R    | RCPT - A108 DESK/TV                            | 1        |
|                                  | 16        |        | RCPT - A118B                                     |              | Z        |              | 12       | 20           | <u>.                                     </u> |          | 1000 720                     | 1000       | 700  | 1 20 12            | R    | RCPT - A109 DESK/TV                            | 1        |
|                                  | 18<br>20  |        | RCPT - A118B<br>RCPT - A118B                     |              | Z<br>Z   |              | 12<br>12 | 20           | 1 1000                                        | 0        | ٦                            | 1000       | 720  | 1 20 12<br>1 20    | R    | RECEPTACLES<br>SPARE                           | 1 2      |
|                                  | 22        |        | RCPT - A118B                                     |              | Z        |              | 12       |              | 1 1000                                        |          | 1000 0                       |            |      | 1 20               |      | SPARE                                          | 2        |
|                                  | 24        | 23     | RCPT - A118B                                     |              | Z        |              | 12       | 20           | 1                                             |          |                              | 1000       | 0    | 1 20               |      | SPARE                                          | 2        |
|                                  | 26        |        | RCPT - FLOOR BOX A118                            |              | R        |              | 12       | 20           | 1 360                                         | 0        |                              |            | •    | 1 20               |      | SPARE                                          | 2        |
|                                  | 28        |        | RCPT - FLOOR BOX A117                            |              | R        |              | 12       | 20           |                                               |          | 360 0                        | 1000       |      | 1 20               |      | SPARE                                          | 2        |
|                                  | 30<br>32  |        | RCPT - A117A 3D PRINTE<br>RCPT - A117A 3D PRINTE |              | Z<br>Z   |              | 12<br>12 |              | 1<br>1 1000                                   | 0        |                              | 1000       | 0    | 1 20<br>1 20       |      | SPARE<br>SPARE                                 | 3        |
|                                  | 34        |        | RCPT - A117A 3D PRINTE                           |              | Z        |              | 12       | 20           |                                               | 0        | 1000 0                       |            |      | 1 20               |      | SPARE                                          | 3        |
|                                  | 36        |        | RCPT - A117A 3D PRINTE                           |              | Z        |              | 12       |              | 1                                             |          | 1000                         | 1000       | 0    | 1 20               |      | SPARE                                          | 3        |
|                                  | 38        |        | RCPT - A117A TECH PRIN                           |              | Z        |              | 12       |              | 1 1000                                        | 0        |                              |            | •    | 1 20               |      | SPARE                                          | 3        |
|                                  | 40        |        | RCPT - A117A FUTURE P                            | RINTER       | R        |              | 12       | 20           | <u>.                                     </u> |          | 180 0                        | 700        |      | 1 20               |      | SPARE                                          | 4        |
|                                  | 42        |        | RCPT - A117A DESK/TV<br>SPARE                    |              | R        |              | 12       | 20           | '                                             | 0        |                              | 720        | 0    | 1 20   1 20        |      | SPARE<br>SPARE                                 |          |
|                                  |           |        | SPARE                                            |              |          |              |          | 20           |                                               | 0        | 0 0                          |            |      | 1 20               |      | SPARE                                          | 4        |
|                                  |           | 47     | SPARE                                            |              |          |              |          |              | 1                                             |          |                              | 0          | 0    | 1 20               |      | SPARE                                          | 4        |
|                                  |           |        | SPARE                                            |              |          |              |          |              | 1 0                                           | 0        |                              |            |      | 1 20               |      | SPARE                                          | 5        |
| OTALS                            |           |        | SPARE<br>SPARE                                   |              |          |              |          | 20           |                                               |          | 0 0                          | 0          |      | 1 20 1 20          |      | SPARE<br>SPARE                                 | 5        |
|                                  |           |        | SPARE                                            |              |          |              |          | 20           | 1 0                                           | 0        | 7                            | U          | 0    | 1 20               |      | EQUIPPED SPACE                                 | 5        |
| NNECTED LOAD 5                   | 2945 VA   |        | EQUIPPED SPACE                                   |              |          |              |          | 20           | 1                                             |          | 0 0                          |            |      | 1                  |      | EQUIPPED SPACE                                 | 5        |
| TAL NEC LOAD 5                   | 9641 VA   |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1                                             |          | _                            | 0          | 0    | 1                  |      | EQUIPPED SPACE                                 | 6        |
| CTED CURRENT                     | 64 A      |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1 0                                           | 0        |                              |            |      | 1                  |      | EQUIPPED SPACE                                 | 6        |
|                                  |           |        | EQUIPPED SPACE EQUIPPED SPACE                    |              |          |              |          |              | 1                                             |          | 0 0                          | 0          | 0    | 1                  |      | EQUIPPED SPACE EQUIPPED SPACE                  | 6        |
| AND CURRENT                      | 72 A      |        | EQUIPPED SPACE                                   |              | +        |              |          |              | 1 0                                           | 0        |                              | 0          | 0    | 1                  |      | EQUIPPED SPACE                                 | 6        |
|                                  |           |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1                                             |          | 0 0                          |            |      | 1                  |      | EQUIPPED SPACE                                 | 7        |
|                                  |           |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1                                             |          |                              | 0          | 0    | 1                  |      | EQUIPPED SPACE                                 | 7        |
|                                  |           |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1 0                                           | 0        | 0 0                          |            |      | 1                  |      | EQUIPPED SPACE                                 |          |
|                                  |           |        | EQUIPPED SPACE EQUIPPED SPACE                    |              |          |              |          |              | 1                                             |          | 0 0                          | 0          | 0    | 1                  |      | EQUIPPED SPACE EQUIPPED SPACE                  | 7        |
|                                  |           |        | EQUIPPED SPACE                                   |              |          |              |          |              | 1 0                                           | 0        | 7                            |            |      | 1                  |      | EQUIPPED SPACE                                 | 8        |
|                                  |           | 81     | EQUIPPED SPACE                                   |              |          |              |          |              | 1                                             |          | 0 0                          |            |      | 1                  |      | EQUIPPED SPACE                                 | 8        |
|                                  |           | 83     | EQUIPPED SPACE                                   |              |          |              |          |              | 1                                             |          |                              | 0          | 0    | 1                  |      | EQUIPPED SPACE                                 | 8        |
| EQUIDMENT OF ST                  | INID DUIC |        |                                                  |              |          | TOTAL L      | OAD (    | VA):         | 714                                           | 0 VA     | 7140 VA                      | 814        | 0 VA |                    |      |                                                |          |
| EQUIPMENT GROU                   | אט אט אטר |        |                                                  |              |          | TOTAL A      | AMPS.    |              | 6                                             | ) A      | 60 A                         | 6          | 8 A  |                    |      |                                                |          |
|                                  |           |        |                                                  |              |          |              |          |              |                                               |          |                              |            |      |                    |      |                                                |          |
|                                  |           | LOAD   | TYPE                                             | CONNECTED    |          | MAND         | NEC      | DEMAN        | ND PANEL                                      | BOARD N  | OTES                         |            |      |                    |      | PANELBOARD TOTALS                              |          |
|                                  |           | FYICTI | NG LOAD (E)                                      | LOAD<br>0 VA |          | CTOR<br>100% | 1        | ) VA         |                                               |          |                              |            |      |                    |      |                                                |          |
|                                  |           | COOL   |                                                  | 0 VA         |          | 0%           |          | ) VA<br>) VA |                                               |          |                              |            |      |                    |      | TOTAL CONNECTED LOAD                           | 22420 V  |
| E-SIDE LUGS: MEC                 | ндыслі    | HEATI  | NG (H)                                           | 0 VA         |          | 100%         | (        | AV C         |                                               |          |                              |            |      |                    |      | TOTAL NEC LOAD                                 | 21930 V  |
|                                  |           | LIGHT  |                                                  | 0 VA         |          | 125%         |          | ) VA         |                                               |          |                              |            |      |                    |      | TOTAL CONNECTED CURRENT                        | 62 A     |
| RIPTION                          | CKT       |        | PTACLES (R)                                      | 10980 VA     |          | 96%          |          | 190 VA       |                                               |          |                              |            |      |                    |      |                                                |          |
| TY PANEL                         | NO.       | MOTO   | RS (M)<br>LEMENTAL HEAT (U)                      | 0 VA<br>0 VA |          | 100%<br>100% |          | O VA         |                                               |          |                              |            |      |                    |      | TOTAL NEC DEMAND CURRENT                       | 61 A     |
| TITANLL                          | 4         |        | EQUIP (Z)                                        | 11440 VA     |          | 100%         |          | 140 VA       |                                               |          |                              |            |      |                    |      |                                                |          |
| RHEAD A                          | 6         |        | GERATION (F)                                     | 0 VA         |          | 100%         |          | ) VA         |                                               |          |                              |            |      |                    |      |                                                |          |
| RHEAD B                          | 8         | SIGN/E | DISPLAY (D)                                      | 0 VA         | 1        | 125%         | (        | AV C         |                                               |          |                              |            |      |                    |      |                                                |          |
| RHEAD C                          | 10        | KITCH  |                                                  | 0 VA         |          | 100%         |          | ) VA         |                                               |          |                              |            |      |                    |      |                                                |          |
| HEAD D<br>HEAD E                 | 12        |        | EST MOTOR<br>' WINDOW (W)                        | 0 VA<br>0 VA |          | 125%<br>125% |          | O VA         |                                               |          |                              |            |      |                    |      |                                                |          |
| HEAD E                           | 14<br>16  |        | K LIGHTING                                       | 0 VA         |          | 100%         |          | ) VA<br>) VA | _                                             |          |                              |            |      |                    |      |                                                |          |
| RHEAD F<br>IERAL                 | 16        |        | CLIGHTING                                        |              | -        |              | 1        |              |                                               |          |                              |            |      |                    |      |                                                |          |

| BUS A<br>MAIN :<br>VOLTS | MPS: 225A  BIZE/TYPE: 200A M.C.B. (SHUNT TRIP MAI  BYPHASE: 208Y/120 V 3P/4W  LIED BY: DP-2H1A VIA TX-2L1A | N)     |                      |          |                      | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | ED:<br>ING:<br>::<br>NG: | FULLY RA<br>FCA +109<br>SHOP<br>SURFAC | % MINIMUM |      |                        |        | EQUIPMENT GROUI                                              | ND BUS   |
|--------------------------|------------------------------------------------------------------------------------------------------------|--------|----------------------|----------|----------------------|--------------------------------------------------------------|--------------------------|----------------------------------------|-----------|------|------------------------|--------|--------------------------------------------------------------|----------|
| CKT                      | DESCRIPTION                                                                                                | LOAD   | NOTES                | WIRE     | BKR                  |                                                              | PHA                      |                                        | PHASE     | Р    | P BKR WIRE NOTES       | LOAD   | LINE-SIDE LUGS: MECH. DESCRIPTION                            | ANICAL   |
| NO.                      |                                                                                                            | TYPE   |                      | SIZE     | AMP                  | Α                                                            | В                        | 3                                      | C         |      | AMP SIZE               | TYPE   |                                                              | NO.      |
| 1                        | RCPT - A118 SHOP EQUIP AC A                                                                                | Z      |                      | 12       | 20                   |                                                              | 500                      | E00                                    | 1         | 1    | 1 20 12                |        | RCPT - A117A SHOP EQUIP AC A                                 | 2        |
| 3<br>5                   | RCPT - A118 SHOP EQUIP AC B<br>RCPT - A118 SHOP EQUIP AC C                                                 | Z      |                      | 12<br>12 | 20                   |                                                              | 500                      | 500                                    | 500 500   | 0 1  | 20   12  <br>  20   12 | Z<br>Z | RCPT - A117A SHOP EQUIP AC B<br>RCPT - A117A SHOP EQUIP AC C | 6        |
| 7                        | RCPT - A118 SHOP EQUIP AC D                                                                                | Z      |                      | 12       | 20                   |                                                              | 7                        |                                        | 300 300   | 1    | 1 20 12                | Z      | RCPT - A117A SHOP EQUIP AC D                                 | 8        |
| 9                        | RCPT - A118 SHOP EQUIP AC E                                                                                | Z      |                      | 12       | 20                   | 1                                                            | 500                      | 500                                    |           | 1    | 1 20 12                | Z      |                                                              | 10       |
| 11                       | RCPT - A118 SHOP EQUIP AC F                                                                                | Z      |                      | 12       | 20                   |                                                              | ٦                        |                                        | 500 500   | 0 1  | 1 20 12                | Z      |                                                              | 12       |
| 13<br>15                 | RCPT - A118 SHOP EQUIP AC G<br>RCPT - A118 SHOP EQUIP AC H                                                 | Z      |                      | 12<br>12 | 20                   |                                                              | 500                      | 500                                    | 1         | 1    | 20   12  <br>  20   12 |        | RCPT - A117A SHOP EQUIP AC G<br>RCPT - A117A SHOP EQUIP AC H | 14<br>16 |
| 17                       | RCPT - A118 SHOP EQUIP ACT                                                                                 | Z      |                      | 12       | 20                   |                                                              | 300                      | 300                                    | 500 500   | 0 1  | 1 20 12                |        | RCPT - A117A SHOP EQUIP ACT                                  | 18       |
| 19                       | RCPT - A118 SHOP EQUIP AC J                                                                                | Z      |                      | 12       | 20                   |                                                              |                          |                                        | 000   000 | 1    | 1 20 12                | Z      | RCPT - A117A SHOP EQUIP AC J                                 | 20       |
| 21                       | RCPT - A118 OVERHEAD A                                                                                     | R      |                      | 12       | 20                   | 1                                                            | 360                      | 500                                    |           | 1    | 1 20 12                | Z      | RCPT - A117A SHOP EQUIP AC K                                 | 22       |
| 23                       | RCPT - A118 OVERHEAD B                                                                                     | R      |                      | 12       | 20                   |                                                              | ٦                        |                                        | 360 360   | 0 1  | 1 20 12                | R      | RCPT - A117 OVERHEAD A                                       | 24       |
| 25<br>27                 | RCPT - A118 OVERHEAD C<br>RCPT - A118 OVERHEAD D                                                           | R<br>R |                      | 12<br>12 | 20                   |                                                              | 360                      | 360                                    | ]         | 1    | 20   12  <br>  20   12 | R      | RCPT - A117 OVERHEAD B<br>RCPT - A117 OVERHEAD C             | 26<br>28 |
| 29                       | RCPT - A118 OVERHEAD E                                                                                     | R      |                      | 12       | 20                   |                                                              | 300                      | 300                                    | 360 360   | 0 1  | 1 20 12                | R      | RCPT - A117 OVERHEAD D                                       | 30       |
| 31                       | RCPT - A118 OVERHEAD F                                                                                     | R      |                      | 12       | 20                   | 1 360 360                                                    |                          |                                        |           | 1    | 1 20 12                | R      | RCPT - A117 OVERHEAD E                                       | 32       |
| 33                       | RCPT - TABLE SAW (COORDINATE                                                                               | Z      |                      | 10       | 30                   | 2                                                            | 2000                     | 360                                    | 0.055     | 1    | 1 20 12                | R      | RCPT - A117 OVERHEAD F                                       | 34       |
| 35                       | EQUIPMENT POWER REQ.)  RCPT - BANDSAW (COORDINATE                                                          | 7      |                      | 10       | 30                   | 2 2000 2000                                                  | 7                        |                                        | 2000 200  | 00 2 | 2 30 10                | Z      | RCPT - TABLE SAW (COORDINATE EQUIPMENT POWER REQ.)           | 36       |
| 37<br>39                 | EQUIPMENT POWER REQ.)                                                                                      | Z      |                      | 10       | 30                   | 2 2000   2000                                                | 2000                     | 2000                                   | ]         | 2    | 2 30 10                | Z      | ,                                                            | 38<br>40 |
| 41                       | RCPT - TABLE SANDER (COORDINATE                                                                            | Z      |                      | 10       | 30                   | 2                                                            | 2000                     | 2000                                   | 2000 200  |      |                        | _      | EQUIPMENT POWER REQ.)                                        | 42       |
| 43                       | EQUIPMENT POWER REQ.)                                                                                      |        |                      |          |                      | 2000 2000                                                    |                          |                                        |           | 2    | 2 30 10                | Z      | RCPT - TABLE SANDER (COORDINATE                              | 44       |
| 45                       | RCPT - FOOT SHEAR (COORDINATE                                                                              | Z      | GF                   | 10       | 30                   | 2                                                            | 2000                     | 2000                                   |           |      |                        |        | EQUIPMENT POWER REQ.)                                        | 46       |
| 47                       | EQUIPMENT POWER REQ.) SPARE                                                                                |        |                      |          | 20                   | 1 0 2000                                                     | ٦                        |                                        | 2000 200  | 0 2  | 2 30 10 GF             | Ζ      | RCPT - FOOT SHEAR (COORDINATE EQUIPMENT POWER REQ.)          | 48<br>50 |
| 49<br>51                 | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | 0                        | 0                                      | ]         | 1    |                        |        | EQUIPPED SPACE                                               | 52       |
| 53                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | 0                        | U                                      | 0 0       | 1    |                        |        | EQUIPPED SPACE                                               | 54       |
| 55                       | SPARE                                                                                                      |        |                      |          | 20                   | 1 0 0                                                        |                          |                                        | _         | 1    | ·                      |        | EQUIPPED SPACE                                               | 56       |
| 57                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | 0                        | 0                                      |           | 1    |                        |        | EQUIPPED SPACE                                               | 58       |
| 59                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | ٦                        |                                        | 0 0       | 1    |                        |        | EQUIPPED SPACE                                               | 60       |
| 61<br>63                 | SPARE SPARE                                                                                                |        |                      |          | 20                   |                                                              | 0                        | 0                                      | ]         |      |                        |        | EQUIPPED SPACE EQUIPPED SPACE                                | 62<br>64 |
| 65                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              |                          |                                        | 0 0       | 1    |                        |        | EQUIPPED SPACE                                               | 66       |
| 67                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              |                          |                                        |           | 1    |                        |        | EQUIPPED SPACE                                               | 68       |
| 69                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | 0                        | 0                                      |           | 1    |                        |        | EQUIPPED SPACE                                               | 70       |
| 71<br>73                 | SPARE SPARE                                                                                                |        |                      |          | 20                   |                                                              | 7                        |                                        | 0 0       | 1    |                        |        | EQUIPPED SPACE EQUIPPED SPACE                                | 72<br>74 |
| 75<br>75                 | SPARE                                                                                                      |        |                      |          | 20                   |                                                              | 0                        | 0                                      | ]         | 1    |                        |        | EQUIPPED SPACE                                               | 74       |
| 77                       | SPARE                                                                                                      |        |                      |          | 20                   | 1                                                            | - <del></del>            |                                        | 0 0       | 1    |                        |        | EQUIPPED SPACE                                               | 78       |
| 79                       | SPARE                                                                                                      |        |                      |          | 20                   |                                                              |                          |                                        |           | 1    |                        |        | EQUIPPED SPACE                                               | 80       |
| 81                       | SPARE SPARE                                                                                                |        |                      |          | 20                   |                                                              | 0                        | 0                                      | 0 0       | 1    |                        |        | EQUIPPED SPACE                                               | 82       |
| 83                       | SPARE                                                                                                      |        |                      |          |                      |                                                              |                          |                                        | 3   3     |      |                        |        | EQUIPPED SPACE                                               | 84       |
|                          |                                                                                                            |        | TOTAL                |          | , ,                  | 15440 VA                                                     | 14940                    |                                        | 16440 VA  |      |                        |        |                                                              |          |
|                          | T                                                                                                          |        | TOTAL                |          |                      | 129 A                                                        | 125                      | ) A                                    | 138 A     |      |                        |        |                                                              |          |
| LOAD                     |                                                                                                            |        | EMAND                | NEC      | DEMAI                | ND PANELBOARD N                                              | OTES                     |                                        |           |      |                        |        | PANELBOARD TOTALS                                            |          |
| FXIST                    | LOAD           NG LOAD (E)         0 VA                                                                    |        | ACTOR<br>100%        |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        |                                                              |          |
|                          | NG (C) 0 VA                                                                                                |        | 0%                   |          | 0 VA<br>0 VA         |                                                              |                          |                                        |           |      |                        |        | TOTAL CONNECTED LOAD 468                                     | 320 VA   |
| HEATI                    | NG (H) 0 VA                                                                                                |        | 100%                 |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        | TOTAL NEC LOAD 468                                           | 320 VA   |
|                          | NG (L) 0 VA                                                                                                |        | 125%                 |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        | TOTAL CONNECTED CURRENT 1                                    | 30 A     |
|                          | PTACLES (R) 4320 VA<br>RS (M) 0 VA                                                                         |        | 100%<br>100%         |          | 320 VA<br>0 VA       |                                                              |                          |                                        |           |      |                        |        |                                                              |          |
|                          | EMENTAL HEAT (U) 0 VA                                                                                      |        | 100%                 |          | 0 VA<br>0 VA         |                                                              |                          |                                        |           |      |                        |        | TOTAL NEC DEMAND CURRENT 1                                   | 30 A     |
|                          | EQUIP (Z) 42500 VA                                                                                         |        | 100%                 |          | 500 VA               |                                                              |                          |                                        |           |      |                        |        |                                                              |          |
|                          | GERATION (F) 0 VA                                                                                          |        | 100%                 |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        |                                                              | l        |
|                          | DISPLAY (D) 0 VA                                                                                           |        | 125%                 |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        |                                                              |          |
|                          | EN (IZ)                                                                                                    |        | 4000/                |          |                      |                                                              |                          |                                        |           |      |                        |        |                                                              |          |
| KITCH                    | EN (K) 0 VA                                                                                                |        | 100%                 |          | 0 VA                 |                                                              |                          |                                        |           |      |                        |        |                                                              | 1        |
| KITCH<br>LARG            | EN (K)         0 VA           EST MOTOR         0 VA           WINDOW (W)         0 VA                     |        | 100%<br>125%<br>125% |          | 0 VA<br>0 VA<br>0 VA |                                                              |                          |                                        |           |      |                        |        |                                                              |          |

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN

FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. # DENOTES PHASES TO BE TIED. IG = ISOLATED GROUND CIRCUIT.

L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE. LO = HANDLE-ON CLAMP. N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.

PS = POWER-SWITCHING CIRCUIT BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER.

VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

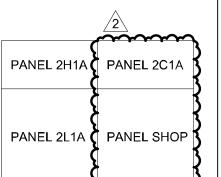
LICENSE # PE-2018036640

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001 ADDENDUM 002

13-20102-00

ELECTRICAL SCHEDULES



| PANELBOARD: 2H2A ( BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: DP-2H1A | NEW)             |            |            |        |              |       | FAULT C<br>AIC RATI<br>AIC RATI<br>SERVES<br>MOUNTII<br>LOCATIO | NG:<br>:<br>NG: | FULLY R<br>FCA +10° | ATED<br>% MINIMU<br>) FLOOR -<br>E | M        |              |            |       |              | EQUIPMENT GF<br>LINE-SIDE LUGS: M |          |
|------------------------------------------------------------------------------------------------------------------|------------------|------------|------------|--------|--------------|-------|-----------------------------------------------------------------|-----------------|---------------------|------------------------------------|----------|--------------|------------|-------|--------------|-----------------------------------|----------|
| CKT DESCRIPTION NO.                                                                                              |                  | OAD<br>YPE |            | /IRE   | BKR P        | PH/   |                                                                 |                 | ASE<br>B            |                                    | ASE<br>C |              |            | NOTES | LOAD<br>TYPE |                                   | СКТ      |
| 1 LTG-A217,A218,A219,A220                                                                                        | I                | L          |            |        | 20 1         | 3011  | 250                                                             |                 | <b>-</b>            |                                    | O        | 1 20         | SIZE<br>12 | EM    | ITPE         | LTS - LEVEL 2 NL & EXIT SIGNS     | NO. 2    |
| 3 LTG-A201,A202,A203,A210,A2                                                                                     | 10               | L          |            |        | 20 1         | 3011  | 230                                                             | 1363            | 723                 | 1                                  |          | 1 20         | 12         | EM    | L            | LTS - LEVEL 2 NC & EXIT SIGNS     | 4        |
| 5 LTG-A204,A205,A206                                                                                             | 10               | L          |            |        | 20 1         |       |                                                                 | 1000            | 120                 | 1288                               | 810      | 1 20         | 12         | EM    | l            | LTS - LEVEL 2 LEARNING COMMON     |          |
| 7 LTG-A207,A208,A209,A214,A2                                                                                     | 15,A216          | L          |            | 12     | 20 1         | 1353  | 1201                                                            |                 |                     | .200                               |          | 1 20         | 12         | EM    | L            | LTS - LEVEL 2 LC CLERESTORY       | 8        |
| 9 SPARE                                                                                                          | ,                |            |            |        | 20 1         |       |                                                                 | 0               | 0                   |                                    |          | 1 20         |            |       |              | SPARE                             | 10       |
| 11 SPARE                                                                                                         |                  |            |            |        | 20 1         |       |                                                                 |                 |                     | 0                                  | 0        | 1 20         |            |       |              | SPARE                             | 12       |
| 13 SPARE                                                                                                         |                  |            |            |        | 20 1         | 0     | 0                                                               |                 |                     |                                    |          | 1 20         |            |       |              | SPARE                             | 14       |
| 15 SPARE                                                                                                         |                  |            |            |        | 20 1         |       |                                                                 | 0               | 0                   | _                                  |          | 1 20         |            |       |              | SPARE                             | 16       |
| 17 SPARE                                                                                                         |                  |            |            |        | 20 1         |       |                                                                 | 1               |                     | 0                                  | 0        | 1 20         |            |       |              | SPARE                             | 18       |
| 19 SPARE<br>21 SPARE                                                                                             |                  |            |            |        | 20 1         | 0     | 0                                                               | 0               |                     | 1                                  |          | 1 20<br>1 20 |            |       |              | SPARE SPARE                       | 20       |
| 21 SPARE<br>23 SPARE                                                                                             |                  |            |            |        | 20 1<br>20 1 |       |                                                                 | U               | 0                   | 0                                  | 0        | 1 20<br>1 20 |            |       |              | SPARE                             | 22<br>24 |
| 25 SPARE                                                                                                         |                  |            |            | +      | 20 1         | 0     | 0                                                               | 1               |                     |                                    | 0        | 1 20         |            |       |              | SPARE                             | 26       |
| 27 SPARE                                                                                                         |                  |            |            |        | 20 1         |       |                                                                 | 0               | 0                   | ]                                  |          | 1 20         |            |       |              | SPARE                             | 28       |
| 29 SPARE                                                                                                         |                  |            |            |        | 20 1         |       |                                                                 |                 |                     | 0                                  | 0        | 1 20         |            |       |              | SPARE                             | 30       |
| 31 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            | 0     | 1330                                                            |                 |                     |                                    |          |              |            |       |              |                                   | 32       |
| 33 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            |       |                                                                 | 0               | 1330                |                                    |          | 3 15         | 12         |       | ZM           | RF4 (RETURN) (3HP)                | 34       |
| 35 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            |       |                                                                 |                 |                     | 0                                  | 1330     |              |            |       |              |                                   | 36       |
| 37 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            | 0     | 5100                                                            |                 |                     | 1                                  |          |              |            |       |              |                                   | 38       |
| 39 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            |       |                                                                 | 0               | 5100                |                                    |          | 3 25         | 10         |       | M            | AHU-4 (SUPPLY)                    | 40       |
| 41 EQUIPPED SPACE                                                                                                |                  |            |            |        | 1            |       |                                                                 |                 |                     | 0                                  | 5100     |              |            |       |              | 4 @ 3HP                           | 42       |
|                                                                                                                  |                  |            | TOTAL LC   | )AD (\ | /A):         | 1224  | 5 VA                                                            | 8516            | 6 VA                | 852                                | 8 VA     |              |            |       |              |                                   |          |
|                                                                                                                  |                  |            | TOTAL AN   | IPS:   |              | 44    | Α                                                               | 31              | Α                   | 3                                  | 1 A      |              |            |       |              |                                   |          |
| LOAD TYPE C                                                                                                      | CONNECTED LOAD   | FA         | CTOR       | NEC D  | DEMAND       | PANEL | BOARD NO                                                        | OTES            |                     |                                    |          |              |            |       |              | PANELBOARD TOTALS                 |          |
| EXISTING LOAD (E)                                                                                                | 0 VA             |            | 00%        |        | VA           |       |                                                                 |                 |                     |                                    |          |              |            |       |              | TOTAL CONNECTED LOAD              | 29290 VA |
| COOLING (C)<br>HEATING (H)                                                                                       | 0 VA<br>0 VA     |            | 0%<br>00%  |        | VA<br>VA     | -     |                                                                 |                 |                     |                                    |          |              |            |       |              | TOTAL CONNECTED LOAD              | 35615 VA |
| LIGHTING (L)                                                                                                     | 9999 VA          |            | 25%        |        | 99 VA        | 1     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| RECEPTACLES (R)                                                                                                  | 0 VA             |            | 0%         |        | VA           | 7     |                                                                 |                 |                     |                                    |          |              |            |       |              | TOTAL CONNECTED CURRENT           | 35 A     |
| MOTORS (M)                                                                                                       | 3991 VA          |            | 00%        |        | 91 VA        | 7     |                                                                 |                 |                     |                                    |          |              |            |       |              | TOTAL NEC DEMAND CURRENT          | 43 A     |
| SUPPLEMENTAL HEAT (U)                                                                                            | 0 VA             | 1          | 00%        |        | VA           |       |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   | -        |
| MISC EQUIP (Z)                                                                                                   | 0 VA             |            | 00%        |        | VA           | _     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| REFRIGERATION (F)                                                                                                | 0 VA             |            | 00%        |        | VA           | _     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| SIGN/DISPLAY (D)                                                                                                 | 0 VA             |            | 25%        |        | VA           | _     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| KITCHEN (K)                                                                                                      | 0 VA             |            | 00%        |        | VA           | -     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| LARGEST MOTOR SHOW WINDOW (W)                                                                                    | 15300 VA<br>0 VA |            | 25%<br>25% |        | 25 VA<br>VA  | -     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| TRACK LIGHTING                                                                                                   | 0 VA<br>0 VA     |            | 00%        |        | VA           | -     |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |
| TRACK LIGHTING                                                                                                   | UVA              | 1          | 00 /0      | U      | ٧٨           |       |                                                                 |                 |                     |                                    |          |              |            |       |              |                                   |          |

**FULLY RATED** 

AIC RATED:

PANELBOARD: 2L2A (NEW)

| MAIN S     | MPS: 225A<br>SIZE/TYPE: 225A M.C.B.<br>S/PHASE: 208Y/120 V 3P/4W<br>LIED BY: DP-2H1A VIA TX-2L2A |            |          |                  | S           | AIC RATING:<br>SERVES:<br>MOUNTING:<br>LOCATION: |                   |      |                  |              |                 |               |              | LINE-SIDE LUGS: N                                                           | 1ECHANICAL | BUS AMPS: 150A MAIN SIZE/TYPE: 150A M.C.I VOLTS/PHASE: 208Y/120 V 3 SUPPLIED BY: DP-2H1A VIA | 3P/4W |
|------------|--------------------------------------------------------------------------------------------------|------------|----------|------------------|-------------|--------------------------------------------------|-------------------|------|------------------|--------------|-----------------|---------------|--------------|-----------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------|-------|
| CKT<br>NO. | DESCRIPTION                                                                                      | LOAD NOTES |          | BKR P            | PHAS<br>A   | SE P                                             | HASE<br>B         |      | HASE<br>C        |              | WIRE<br>SIZE    | NOTES         | LOAD<br>TYPE |                                                                             | CKT<br>NO. | CKT DESCRIPTION NO.                                                                          |       |
| 1 3        | RCPT - A202 GENERAL A<br>RCPT - A202 GENERAL B                                                   | R<br>R     | 12<br>12 | 20 1<br>20 1     |             | 3667 720                                         | 3667              |      |                  | 3 40         | 8               | ST            | U            | A218A KILN A                                                                | 2 4        | 1 RCPT - A202 DESK/T<br>3 RCPT - A203 DESK/T                                                 |       |
| 5<br>7     | RCPT - A203 GENERAL A<br>RCPT - A203 GENEARL B                                                   | R<br>R     | 12<br>12 | 20 1             |             | 0                                                |                   | 720  | 3667             | 1            |                 |               |              | SHUNT TRIP SPACE                                                            | 6<br>8     | 5 RCPT - A204 DESK/T<br>7 RCPT - A205 DESK/T                                                 |       |
| 9          | RCPT - A204 GENERAL A<br>RCPT - A204 GENERAL B                                                   | R          | 12       | 20 1             |             | 720                                              | 3667              | 720  | 3667             | 3 40         | 8               | ST            | U            | A218A KILN B                                                                | 10         | 9 RCPT - A207 DESK/T<br>11 RCPT - A208 DESK/T                                                | V     |
| 13         | RCPT - A205 GENERAL A                                                                            | R          | 12       | 20 1             | 720         | 3667                                             |                   |      | 3007             | 3 40         | 0               |               |              |                                                                             | 14         | 13 RCPT - A209 DESK/T                                                                        | V     |
| 17         | RCPT - A205 GENERAL B<br>RCPT - A207 GENERAL A                                                   | R<br>R     | 12<br>12 | 20 1<br>20 1     |             | 720                                              | 0                 | 720  | 0                | 1 20         |                 |               |              | SHUNT TRIP SPACE SPARE                                                      | 16<br>18   | 15   RCPT - A210 DESK/T<br>17   RCPT - A213 TV                                               |       |
|            | RCPT - A207 GENERAL B<br>RCPT - A208 GENERAL A                                                   | R<br>R     | 12<br>12 | 20 1<br>20 1     |             | 720                                              | 0                 |      |                  | 1 20<br>1 20 |                 |               |              | SPARE<br>SPARE                                                              | 20<br>22   | 19 RCPT - A217 DESK/T<br>21 RCPT - A219 DESK/T                                               |       |
| 23         | RCPT - A208 GENERAL B                                                                            | R          | 12       | 20 1             |             |                                                  |                   | 720  | 0                | 1 20         |                 |               |              | SPARE                                                                       | 24         | 23 RCPT - A220 DESK/T                                                                        |       |
| 25<br>27   | RCPT - A209 GENERAL A<br>RCPT - A209 GENERAL B                                                   | R<br>R     | 12<br>12 | 20 1<br>20 1     |             | 0<br>720                                         | 0                 |      |                  | 1 20<br>1 20 |                 |               |              | SPARE SPARE                                                                 | 26<br>28   | 25 SPARE<br>27 SPARE                                                                         |       |
|            | RCPT - A210 GENERAL A<br>RCPT - A210 GENERAL B                                                   | R<br>R     | 12<br>12 | 20 1             |             | 0                                                |                   | 540  | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 30         | 29 SPARE<br>31 SPARE                                                                         |       |
| 33<br>35   | RCPT - A217 GENERAL A<br>RCPT - A217 GENERAL B                                                   | R          | 12<br>12 | 20 1<br>20 1     |             | 720                                              | 0                 | 900  | 0                | 1 20         |                 |               |              | SPARE<br>SPARE                                                              | 34<br>36   | 33 SPARE<br>35 SPARE                                                                         |       |
| 37         | RCPT - A217 GENERAL C                                                                            | R          | 12       | 20 1             | 1260        | 0                                                |                   |      |                  | 1 20         |                 |               |              | SPARE                                                                       | 38         | 37 SPARE                                                                                     |       |
| 39<br>41   | RCPT - A218 GENERAL A<br>RCPT - A218 GENERAL B                                                   | R<br>R     | 12<br>12 | 20 1             |             | 540                                              | 0                 | 720  | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 40 42      | 39 SPARE<br>41 SPARE                                                                         |       |
| 43<br>45   | RCPT - A219 GENERAL A<br>RCPT - A219 GENERAL B                                                   | R<br>R     | 12<br>12 | 20 1<br>20 1     | 540         | 0<br>720                                         | 0                 |      |                  | 1 20         |                 |               |              | SPARE<br>SPARE                                                              | 44<br>46   | 43 EQUIPPED SPACE<br>45 EQUIPPED SPACE                                                       |       |
| 47         | RCPT - A219 GENERAL C                                                                            | R          | 12       | 20 1             |             |                                                  |                   | 540  | 0                | 1 20         |                 |               |              | SPARE                                                                       | 48         | 47 EQUIPPED SPACE                                                                            |       |
|            | RCPT - A220A GENERAL<br>RCPT - A220 GENERAL A                                                    | R<br>R     | 12<br>12 | 20 1             | 900         | 720                                              | 0                 |      |                  | 1 20<br>1 20 |                 |               |              | SPARE SPARE                                                                 | 50<br>52   | 49 EQUIPPED SPACE 51 EQUIPPED SPACE                                                          |       |
| 53<br>55   | RCPT - A220 GENERAL B<br>RCPT - A220 GENERAL C                                                   | R<br>R     | 12<br>12 | 20 1             | 540         | 0                                                |                   | 540  | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 54<br>56   | 53 EQUIPPED SPACE<br>55 EQUIPPED SPACE                                                       |       |
| 57         | RCPT - A220 GENERAL D                                                                            | R          | 12       | 20 1             | <u> </u>    | 720                                              | 0                 | 700  | 0                | 1 20         |                 |               |              | SPARE                                                                       | 58         | 57 EQUIPPED SPACE                                                                            |       |
| 59<br>61   | RCPT - A201,A212,A213,A24 GENERAL<br>RCPT - A200A GENERAL                                        | R          | 12<br>12 | 20 1<br>20 1     | 540         | 0                                                |                   | 720  | 0                | 1 20<br>1 20 |                 |               |              | SPARE SPARE                                                                 | 60<br>62   | <ul><li>59 EQUIPPED SPACE</li><li>61 EQUIPPED SPACE</li></ul>                                |       |
| 63<br>65   | RCPT - A206,A22,A23 GENERAL<br>RCPT - A24 DRINKING FOUNTAIN                                      | R<br>K GF  | 12<br>12 | 20 1<br>20 1     |             | 720                                              | 0                 | 600  | 0                | 1 20         |                 |               |              | SPARE<br>SPARE                                                              | 64<br>66   | 63 EQUIPPED SPACE<br>65 EQUIPPED SPACE                                                       |       |
| 67         | RCPT - A20,A214 GENERAL<br>RCPT - CLOCKS LVL 2 A                                                 | R          | 12       | 20 1             | 720         | 0                                                | 0                 |      |                  | 1 20         |                 |               |              | SPARE SPARE                                                                 | 68         | 67 EQUIPPED SPACE                                                                            |       |
| 71         | A218A KILN VENT FAN                                                                              | R<br>M     | 12<br>12 | 20 1<br>20 1     |             | 900                                              | 0                 | 180  | 0                | 1 20<br>1 20 |                 |               |              | SPARE                                                                       | 70<br>72   | 71 EQUIPPED SPACE                                                                            |       |
| 73<br>75   | SPARE SPARE                                                                                      |            |          | 20 1             |             | 0 0                                              | 0                 |      |                  | 1 20         |                 |               |              | SPARE SPARE                                                                 | 74<br>76   | 73 EQUIPPED SPACE<br>75 EQUIPPED SPACE                                                       |       |
| 77<br>79   | SPARE<br>SPARE                                                                                   |            |          | 20 1<br>20 1     |             | 0                                                |                   | 0    | 0                | 1 20         |                 |               |              | SPARE<br>SPARE                                                              | 78<br>80   | 77 EQUIPPED SPACE<br>79 EQUIPPED SPACE                                                       |       |
| 81         | SPARE                                                                                            |            |          | 20 1             |             | 0                                                | 0                 |      |                  | 1 20         |                 |               |              | SPARE                                                                       | 82         | 81 EQUIPPED SPACE                                                                            |       |
| 83<br>85   | SPARE<br>SPARE                                                                                   |            |          | 20 1             |             | 0                                                |                   | 0    | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 84<br>86   | 83   EQUIPPED SPACE                                                                          |       |
| 87<br>89   | SPARE<br>SPARE                                                                                   |            |          | 20 1<br>20 1     |             | 0                                                | 0                 | 0    | 0                | 1 20         |                 |               |              | SPARE<br>SPARE                                                              | 88<br>90   |                                                                                              |       |
| 91         | SPARE                                                                                            |            |          | 20 1             | 0           | 0                                                |                   |      |                  | 1 20         |                 |               |              | SPARE                                                                       | 92         |                                                                                              |       |
| 93<br>95   | SPARE<br>SPARE                                                                                   |            |          | 20 1<br>20 1     |             | 0                                                | 0                 | 0    | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 94<br>96   | LOAD TYPE                                                                                    | CON   |
| 97<br>99   | SPARE<br>SPARE                                                                                   |            |          | 20 1<br>20 1     |             | 0 0                                              | 0                 |      |                  | 1 20<br>1 20 |                 |               |              | SPARE<br>SPARE                                                              | 98<br>100  | EXISTING LOAD (E) COOLING (C)                                                                | (     |
| 101        | SPARE                                                                                            |            |          | 20 1             |             |                                                  |                   | 0    | 0                | 1 20         |                 |               |              | SPARE                                                                       | 102        | HEATING (H)                                                                                  |       |
| 103<br>105 | SPARE<br>SPARE                                                                                   |            |          | 20 1<br>20 1     |             | 0 0                                              | 0                 |      |                  | 1 20<br>1 20 |                 |               |              | SPARE SPARE                                                                 | 104<br>106 | LIGHTING (L) RECEPTACLES (R)                                                                 | 133   |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                |                   | 0    | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 108<br>110 | MOTORS (M) SUPPLEMENTAL HEAT (U)                                                             | (     |
| 111        | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                | 0                 |      | 0                | 1 20         |                 |               |              | SPARE SPARE                                                                 | 112        | MISC EQUIP (Z)                                                                               |       |
| 115        | EQUIPPED SPACE                                                                                   |            |          | 1                | 0           | 0                                                | ~~~               | ~~~~ | $\sim \sim$      |              | ~~              | ~~~           | ~~           | SPARE                                                                       |            | REFRIGERATION (F) SIGN/DISPLAY (D)                                                           | (     |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                | $\frac{528}{528}$ | mm   | <del>- 150</del> | 1 20<br>20   | ~ <del>12</del> | <del>~~</del> | <b>₩</b>     | EF-5<br>  <del>FIRE/SMOKEDETECTOR                                    </del> | 118 ½      | KITCHEN (K) LARGEST MOTOR                                                                    |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 100                                              | 696               |      |                  | 1 20<br>1 15 | 12<br>12        |               | Z<br>M       | PWR-MOTORIZED DAMPERS RHWP-4                                                | 122<br>124 | SHOW WINDOW (W) TRACK LIGHTING                                                               | (     |
| 125        | EQUIPPED SPACE                                                                                   |            |          | 1                |             |                                                  | 000               | 0    | 0                | 1 20         | 12              |               |              | PWR-SECURITY PANEL A215                                                     | 126        | TRACK LIGITING                                                                               |       |
| 129        | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 1500                                             | 1000              |      |                  | 1 20<br>1 20 | 12<br>12        |               | Z            | PWR-MAG DOOR HOLDER A25 PWR-MAG DOOR HOLDER A26                             | 128<br>130 |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 360                                              |                   | 0    | 180              | 1 20         | 12<br>12        | FA            | R            | RCPT-ELEC 209A<br>RPS                                                       | 132<br>134 |                                                                                              |       |
| 135        | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                | 500               |      | 900              | 1 20         | 12              | .,,.          | Z            | PWR - MECH CONTROL PANEL A20                                                |            |                                                                                              |       |
| 139        | EQUIPPED SPACE                                                                                   |            |          | 1                | 0           | 1500                                             |                   |      | 900              | 1 20         | 10<br>12        |               | M            | EF-1                                                                        | 140        |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                | 1500              |      | 1500             | 1 20         | 12<br>12        |               | M            | EF-2<br>EF-3                                                                | 142<br>144 |                                                                                              |       |
| 145        | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                | 0           | 1500                                             | 1500              |      |                  | 1 20<br>1 20 | 12<br>12        |               | M            | EF-4<br>EF-6                                                                | 146<br>148 |                                                                                              |       |
| 149        | EQUIPPED SPACE                                                                                   |            |          | 1                |             |                                                  | 1300              | 0    | 1500             | 1 20         | 12              |               | М            | EF-7                                                                        | 150        |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 832                                              | 832               |      |                  | 2 15         | 12              |               | M            | EF-8                                                                        | 152<br>154 |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 1144                                             |                   | 0    | 700              | 1 20 20      | 12<br>12        |               | M            | VAVs 401 thru 416<br>CU 13-1/CRU 13-1                                       | 156<br>158 |                                                                                              |       |
| 159        | EQUIPPED SPACE                                                                                   |            |          | 1                |             | 0                                                | 1144              |      | 4444             |              |                 |               |              |                                                                             | 160        |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 1144                                             |                   | 0    | 1144             | 2 20         | 12              |               | С            | CU 4-1/CRU 4-1                                                              | 162<br>164 |                                                                                              |       |
|            | EQUIPPED SPACE EQUIPPED SPACE                                                                    |            |          | 1                |             | 0                                                | 1144              | 0    | 1144             | 2 20         | 12              |               | С            | CU 4-2/CRU 4-2                                                              | 166<br>168 |                                                                                              |       |
| 107        | EQUIT ED OF NOE                                                                                  | TOTAL      | LOAD     | 1                | 24233       | VA 24                                            | 817 VA            |      |                  |              |                 |               |              |                                                                             | 100        |                                                                                              |       |
|            |                                                                                                  | TOTAL      |          | ` ,              | 205 A       |                                                  | 209 A             |      | 85 A             |              |                 |               |              |                                                                             |            |                                                                                              |       |
| LOAD       | TYPE CONNEC                                                                                      | TED DEMAND | NEC      | DEMANI           | D PANEL BC  | DARD NOTES                                       |                   |      |                  |              |                 |               |              | PANELBOARD TOTALS                                                           |            |                                                                                              |       |
|            | LOAD                                                                                             | FACTOR     |          |                  | D 1711VEEDC | THE NOTES                                        |                   |      |                  |              |                 |               |              | TANALLEONINE TOTALO                                                         |            |                                                                                              |       |
| COOL       | ING LOAD (E) 0 VA<br>ING (C) 6864 V                                                              | A 100%     | 68       | 0 VA<br>864 VA   |             |                                                  |                   |      |                  |              |                 |               |              | TOTAL CONNECTED LOAD                                                        | 71222 VA   |                                                                                              |       |
| HEATI      |                                                                                                  | 0%         |          | 0 VA<br>0 VA     |             |                                                  |                   |      |                  |              |                 |               |              | TOTAL NEC LOAD                                                              | 63948 VA   |                                                                                              |       |
| RECEI      | PTAČLÉS (R) 25380 V                                                                              | 'A 70%     | 17       | 690 VA           |             |                                                  |                   |      |                  |              |                 |               |              | TOTAL CONNECTED CURRENT                                                     | 198 A      |                                                                                              |       |
| SUPPL      | PRS (M) 11104 V<br>LEMENTAL HEAT (U) 22000 V                                                     | 'A 100%    | 22       | 104 VA<br>000 VA |             |                                                  |                   |      |                  |              |                 |               |              | TOTAL NEC DEMAND CURRENT                                                    | 178 A      |                                                                                              |       |
|            | EQUIP (Z) 3610 V<br>IGERATION (F) 0 VA                                                           |            |          | 610 VA<br>0 VA   |             |                                                  |                   |      |                  |              |                 |               |              |                                                                             |            |                                                                                              |       |
| SIGN/I     | DISPLAY (D) 0 VA                                                                                 | 125%       |          | 0 VA             |             |                                                  |                   |      |                  |              |                 |               |              |                                                                             |            |                                                                                              |       |
|            | EST MOTOR 1664 V                                                                                 | A 125%     | 20       | 00 VA<br>080 VA  |             |                                                  |                   |      |                  |              |                 |               |              |                                                                             |            |                                                                                              |       |
|            | / WINDOW (W) 0 VA<br>K LIGHTING 0 VA                                                             |            |          | 0 VA<br>0 VA     |             |                                                  |                   |      |                  |              |                 |               |              |                                                                             |            |                                                                                              |       |
| 110101     |                                                                                                  | 10070      |          | - v/\            |             |                                                  |                   |      |                  |              |                 |               |              | 1                                                                           |            |                                                                                              |       |

| PANELBOARD SCHEDULE NOTES LEGEND: |
|-----------------------------------|

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN

REQUIRED.

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

DESCRIPTION

R | RCPT - A215 IT 1

R RCPT - A215 IT 2

R RCPT - A215 IT 3 R RCPT - A215 IT 4

SPARE

SPARE

SPARE

SPARE

SPARE SPARE SPARE SPARE

EQUIPPED SPACE

EQUIPPED SPACE EQUIPPED SPACE

EQUIPPED SPACE

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EQUIPPED SPACE

PANELBOARD TOTALS

TOTAL CONNECTED LOAD 13320 VA

TOTAL CONNECTED CURRENT 37 A

TOTAL NEC DEMAND CURRENT 32 A

TOTAL NEC LOAD 11660 VA

200% NEUTRAL

FAULT CURRENT: RE: ONE-LINE DIAGRAM

1080 0

4680 VA

40 A

3600 VA

30 A

**FULLY RATED** 

SURFACE

ELEC A216

FCA +10% MINIMUM

SECOND FLOOR - AREA A

PHASE

P BKR WIRE NOTES LOAD

AIC RATED:

AIC RATING:

MOUNTING:

LOCATION:

LOAD NOTES WIRE BKR P

TOTAL LOAD (VA):

CONNECTED | DEMAND | NEC DEMAND | PANELBOARD NOTES

0 VA

0 VA

11660 VA

0 VA 0 VA 0 VA 0 VA 0 VA

0 VA

0 VA 0 VA 0 VA

TOTAL AMPS:

**FACTOR** 

0% 100%

LOAD 0 VA 0 VA 0 VA

0 VA

13320 VA 0 VA 0 VA 0 VA 0 VA 0 VA

0 VA 0 VA 0 VA

5040 VA

43 A

SIZE AMP

SERVES:

PANELBOARD: 2C2A (NEW)

FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).

HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. # DENOTES PHASES TO BE TIED. IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE.

LO = HANDLE-ON CLAMP.N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER.

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.

ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

CURTIS A. OLDS LICENSE # PE-2018036640

RELEASE FOR CONSTRUCTION S NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS

SITE

ADDENDUM 002

13-20102-00 ELECTRICAL SCHEDULES

E6.2

PANEL 2H2A

PANEL 2L2A PANEL 2C2A

| OLDS     |  |
|----------|--|
| JRTIS A. |  |

| BUS A | MELBOARD: 2H1B (NEW)  MPS: 100A  SIZE/TYPE: 100A M.C.B.  S/PHASE: 480Y/277 V 3P/4W |      |                |            |     | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI | ING: FCA +10<br>: FIRST FI | ATED<br>% MINIMUI<br>.OOR - AR | М        |       |      |       |      | EQUIPMENT G                  | ROUND BUS  |
|-------|------------------------------------------------------------------------------------|------|----------------|------------|-----|---------------------------------------------------|----------------------------|--------------------------------|----------|-------|------|-------|------|------------------------------|------------|
| SUPPI | LIED BY: DP-2H1B                                                                   |      |                |            |     | LOCATIO                                           | DN: ELEC B1                | 16                             |          |       |      |       |      | LINE-SIDE LUGS: N            | AECHANICAI |
| CKT   | DESCRIPTION                                                                        | LOAD | NOTES          | WIRE BKR F |     | PHASE                                             | PHASE                      | DH                             | ASE      | P BKR | WIRE | NOTES | LOAD |                              | CKT        |
| NO.   | BEGGIAII FIGIA                                                                     | TYPE | NOTEG          | SIZE AMP   |     | A                                                 | B                          |                                | 70L<br>2 |       | SIZE | NOTEO | TYPE |                              | NO.        |
| 1     | LTS-B01,B101A,B102-B106                                                            | LZ   |                | 12 20 1    | 15  | 567 245                                           | _                          |                                |          | 1 20  | 12   | EM    | L    | LTS - AREA B NL & EXIT SIGNS | 2          |
| 3     | LTS-B107,108,109                                                                   | LZ   |                | 12 20 1    |     |                                                   | 1303 1052                  | ]                              |          | 1 20  | 12   | EM    | L    | LTS - COR. B10,B11,B12,B14   | 4          |
| 5     | LTS-B110,B110A,B111,B112,B112A                                                     | LZ   |                | 12 20 1    |     |                                                   | 7555 7552                  | 1893                           | 556      | 1 20  | 12   | EM    | L    | LTS-LEARNING COMMONS B100A   | 6          |
| 7     | LTS-B117-B120,B121,B121A,B121B                                                     | LZ   |                | 12 20 1    |     | 262 1129                                          |                            |                                |          | 1 20  | 10   | EM    | L    | LTS-EXTERIOR AREA B          | 8          |
| 9     | LTS-B113, B114, B115                                                               | LZ   |                | 12 20 1    |     |                                                   | 285 0                      | ]                              |          | 1 20  |      |       |      | SPARE                        | 10         |
| 11    | SPARE                                                                              |      |                | 20 1       |     |                                                   |                            | 0                              | 0        | 1 20  |      |       |      | SPARE                        | 12         |
| 13    | SPARE                                                                              |      |                | 20 1       |     | 0 0                                               |                            |                                | •        | 1 20  |      |       |      | SPARE                        | 14         |
| 15    | SPARE                                                                              |      |                | 20 1       |     |                                                   | 0 0                        | ]                              |          | 1 20  |      |       |      | SPARE                        | 16         |
| 17    | SPARE                                                                              |      |                | 20 1       |     |                                                   |                            | 0                              | 0        | 1 20  |      |       |      | SPARE                        | 18         |
| 19    | SPARE                                                                              |      |                | 20 1       |     | 0 0                                               |                            |                                |          | 1 20  |      |       |      | SPARE                        | 20         |
| 21    | SPARE                                                                              |      |                | 20 1       |     |                                                   | 0 0                        |                                |          | 1 20  |      |       |      | SPARE                        | 22         |
| 23    | SPARE                                                                              |      |                | 20 1       |     |                                                   | _                          | 0                              | 0        | 1 20  |      |       |      | SPARE                        | 24         |
| 25    | SPARE                                                                              |      |                | 20 1       |     | 0 7167                                            |                            | -                              |          |       |      |       |      |                              | 26         |
| 27    | SPARE                                                                              |      |                | 20 1       |     |                                                   | 0 7167                     |                                |          | 3 60  | 4    |       | Z    | ELEVATOR (ESTIMATED)         | 28         |
| 29    | EQUIPPED SPACE                                                                     |      |                | 1          |     |                                                   | -                          | 0                              | 7167     |       |      |       |      |                              | 30         |
| 31    | EQUIPPED SPACE                                                                     |      |                | 1          |     | 0 5100                                            |                            | -                              |          |       |      |       |      |                              | 32         |
| 33    | EQUIPPED SPACE                                                                     |      |                | 1          |     |                                                   | 0 5100                     |                                |          | 3 25  | 10   |       | M    | AHU-2 (SUPPLY)               | 34         |
| 35    | EQUIPPED SPACE                                                                     |      |                | 1          |     |                                                   | 7                          | 0                              | 5100     |       |      |       |      | 4 @ 3HP                      | 36         |
| 37    | EQUIPPED SPACE                                                                     |      |                | 1          | _   | 0 2106                                            |                            | 7                              |          |       |      |       |      |                              | 38         |
| 39    | EQUIPPED SPACE                                                                     |      |                | 1          |     |                                                   | 0 2106                     |                                |          | 3 15  | 12   |       | ZM   | RF-2 (RETURN) 1@5HP          | 40         |
| 41    | EQUIPPED SPACE                                                                     |      |                | 1          |     |                                                   |                            | 0                              | 2106     |       |      |       |      |                              | 42         |
|       |                                                                                    |      | TOTAL          | LOAD (VA): |     | 19576 VA                                          | 17013 VA                   | 1682                           | 22 VA    |       |      |       |      |                              |            |
|       |                                                                                    |      | TOTAL          | AMPS:      |     | 71 A                                              | 62 A                       | 61                             | I A      |       |      |       |      |                              |            |
| LOAD  | TYPE CONNECTE LOAD                                                                 |      | EMAND<br>ACTOR | NEC DEMAN  | D P | ANELBOARD N                                       | OTES                       |                                |          |       |      |       |      | PANELBOARD TOTALS            |            |
|       | ING LOAD (E) 0 VA                                                                  |      | 100%           | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      | TOTAL CONNECTED LOAD         | 53411 VA   |
|       | ING (C) 0 VA                                                                       |      | 0%             | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | NG (H) 0 VA                                                                        |      | 100%           | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      | TOTAL NEC LOAD               | 59782 VA   |
|       | TNG (L) 10182 VA                                                                   |      | 125%           | 12728 VA   |     |                                                   |                            |                                |          |       |      |       |      | TOTAL CONNECTED CURRENT      | 64 A       |
|       | PTACLES (R) 0 VA                                                                   |      | 0%             | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | PRS (M) 6319 VA                                                                    |      | 100%           | 6319 VA    |     |                                                   |                            |                                |          |       |      |       |      | TOTAL NEC DEMAND CURRENT     | 72 A       |
|       | LEMENTAL HEAT (U) 0 VA                                                             |      | 100%           | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | EQUIP (Z) 21610 VA                                                                 |      | 100%           | 21610 VA   |     |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | IGERATION (F) 0 VA                                                                 |      | 100%           | 0 VA       | _   |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | DISPLAY (D) 0 VA                                                                   |      | 125%           | 0 VA       | _   |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | IEN (K) 0 VA                                                                       |      | 100%           | 0 VA       | _   |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | EST MOTOR 15300 VA                                                                 |      | 125%           | 19125 VA   | _   |                                                   |                            |                                |          |       |      |       |      |                              |            |
|       | / WINDOW (W) 0 VA                                                                  |      | 125%           | 0 VA       | _   |                                                   |                            |                                |          |       |      |       |      |                              |            |
| TRAC  | K LIGHTING 0 VA                                                                    |      | 100%           | 0 VA       |     |                                                   |                            |                                |          |       |      |       |      |                              |            |

**FULLY RATED** 

AIC RATED:

PANELBOARD: 2L1B (NEW)

EQUIPMENT GROUND BUS

PANELBOARD: 2C1B (NEW)

| MAIN S<br>VOLTS | MPS: 225A<br>SIZE/TYPE: 225A M.C.B.<br>/PHASE: 208Y/120 V 3P/4W<br>IED BY: DP-2H1B VIA TX-2L1B |              |                       |                |                         |                  | AIC RATE AIC RATIN SERVES: MOUNTIN LOCATION | NG:<br>IG:   |      | % MINIMUN<br>OOR - ARI<br>E |          |                      |                |       |              | LINE-SIDE LUGS: MEC                                                                        | CHANICAI                   |        | MAIN<br>VOLT   | AMPS: 150A<br>SIZE/TYPE: 150A M.C<br>S/PHASE: 208Y/120 V<br>PLIED BY: DP-2H1B VIA |
|-----------------|------------------------------------------------------------------------------------------------|--------------|-----------------------|----------------|-------------------------|------------------|---------------------------------------------|--------------|------|-----------------------------|----------|----------------------|----------------|-------|--------------|--------------------------------------------------------------------------------------------|----------------------------|--------|----------------|-----------------------------------------------------------------------------------|
| CKT<br>NO.      | DESCRIPTION                                                                                    | LOAD<br>TYPE |                       | WIRE<br>SIZE   |                         |                  | IASE<br>A                                   | PHAS<br>B    | SE   | PHA                         | ASE      |                      | WIRE<br>SIZE   | NOTES | LOAD<br>TYPE | DESCRIPTION                                                                                | CKT<br>NO.                 |        | CKT<br>NO.     | DESCRIPTION                                                                       |
| 1 3             | RCPT - B101 GENERAL<br>RCPT - B102 GENERAL                                                     | R            |                       | 12<br>12       | 20                      | 1 900            | 720                                         | 900          | 360  |                             |          | 1 20<br>1 20         | 12             |       | R<br>R       | RCPT - B121 GENERAL A<br>RCPT - B121 GENERAL B                                             | 2 4                        |        | 1 3            | RCPT - B102 DESK/                                                                 |
| 7               | RCPT - B103 GENERAL A<br>RCPT - B103 GENERAL B                                                 | R<br>R       |                       | 12<br>12       | 20<br>20                | 1<br>1 720       | 900                                         |              |      | 720                         | 360      | 1 20<br>1 20         | 12<br>12       | GF    | K            | RCPT - B121<br>RCPT - B121 REFRIGERATOR                                                    | 6<br>8                     | ]      | 5<br>7         | RCPT - B105 DESK/<br>RCPT - B106 DESK/                                            |
| 11              | RCPT - B105 GENERAL<br>RCPT - B106 GENERAL A                                                   | R<br>R       |                       | 12             | 20                      | 1 700            |                                             | 1080         | 1500 | 720                         | 1200     | 1 20                 | 12             | GF    | K            | RCPT - B121 DISHWASHER RCPT - B121 MICROWAVE 1                                             | 10                         | -      | 9              | RCPT - B106 PROJE                                                                 |
| 15              | RCPT - B106 GENERAL B<br>RCPT - B107 GENERAL A<br>RCPT - B107 GENERAL B                        | R<br>R<br>R  |                       | 12<br>12<br>12 | 20<br>20<br>20          | 1 720<br>1       | 1200                                        | 540          | 4250 | 720                         | 4250     | 2 50                 | 12<br>6        |       | K            | RCPT - B121 MICROWAVE 2<br>RCPT-RANGE B121                                                 | 14<br>16<br>18             | -<br>- | 13<br>15<br>17 | RCPT - B109 DESK/<br>RCPT - B122 DESK/<br>RCPT - B121 DESK/                       |
| 19              | RCPT - B107 GENERAL B<br>RCPT - B108 GENERAL A<br>RCPT - B108 GENERAL B                        | R            |                       | 12             | 20 20                   | 1 540            | 360                                         | 720          | 850  | 720                         | 4230     | 1 20<br>1 20         | 12<br>12       |       |              | RCPT-B121 AC KITCHEN 1<br>RCPT-B121 DISPOSAL                                               | 20                         | -      | 17<br>19<br>21 | RCPT - B121 DESK/<br>RCPT - B120 DESK/<br>RCPT - B118, B119 [                     |
| 23              | RCPT - B121C GENERAL<br>RCPT - B122 GENERAL                                                    | R            |                       | 12             | 20                      | 1<br>1 720       | 288                                         | 720          | 000  | 900                         | 360      | 1 20                 | 12             | GF    | R            | RCPT-B121 AC KITCHEN 2<br>RCPT-B121 HOOD                                                   | 24                         | -      | 23             | RCPT - B112 DESK/                                                                 |
| 29              | RCPT - B102 GENERAL<br>RCPT - B102 QUADS                                                       | R<br>R       |                       | 12<br>12       | 20<br>20                | 1                |                                             | 900          | 1500 | 720                         | 2700     | 1 20 2 30            | 12<br>10       | GF    | Z            | RCPT - B121B WASHER<br>DRYER B121B                                                         | 28<br>30                   |        | 27<br>29       | RCPT - B110 DESK/<br>RCPT - B100B TV                                              |
| 33              | RCPT - B118 GENERAL<br>RCPT - B118 QUADS                                                       | R            |                       | 12             | 20                      |                  | 2700                                        | 720          | 900  |                             |          | 1 20                 | 12             |       |              | RCPT - CLOCKS LVL 1 B                                                                      | 32<br>34                   |        | 33             | SPARE<br>SPARE                                                                    |
| 37              | RCPT - B119 GENERAL<br>RCPT - B119 QUADS<br>RCPT - B117 GENERAL                                | R<br>R<br>R  |                       | 12<br>12<br>12 | 20<br>20<br>20          |                  | 50                                          | 540          | 50   | 900                         | 540      | 1 20<br>1 20<br>1 20 | 12<br>12       |       | Z            | RCPT - B110, B111, B112 GOGGLE  PABINEDISOR HARDWARE (B11.2)  PWR - DOOR HARDWARE (B109.2) | 36<br>38<br>40             |        | 35<br>37<br>39 | SPARE<br>SPARE<br>SPARE                                                           |
| 41              | RCPT - RESTROOMS RCPT - CORRIDORS B11, B12, B14                                                | R            |                       | 12             | 20                      | 1<br>1 1080      |                                             | 340          | 30   | 720                         | 0        | 1 20<br>1 20         | 12             |       |              | SPARE SPARE                                                                                | 42                         | -      | 41             | SPARE<br>SPARE                                                                    |
| 45              | RCPT - EWC RCPT - CORRIDOR B10                                                                 | K            | GF                    | 12             | 20 20                   |                  |                                             | 600          | 0    | 540                         | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 46                         | -      | 45<br>47       | SPARE<br>SPARE                                                                    |
| 51              | RCPT - B100A QUADS<br>RCPT - B100A, B100C GENERAL                                              | R<br>R       |                       | 12<br>12       | 20<br>20                | 1 1080<br>1      | 0                                           | 900          | 0    |                             |          | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 50<br>52                   |        | 49<br>51       | SPARE<br>SPARE                                                                    |
| 55              | RCPT - B101A, B104 GENERAL<br>RCPT - B110 GENERAL A                                            | R            |                       | 12             | 20                      | 1 1080           | 0                                           |              |      | 360                         | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 54<br>56                   | -      | 53<br>55       | SPARE<br>SPARE                                                                    |
| 59              | RCPT - B110 GENERAL B RCPT - B110 QUADS                                                        | R            |                       | 12             | 20 20 20                |                  |                                             | 1080         | 0    | 1080                        | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 58<br>60                   | -      | 57<br>59       | SPARE<br>SPARE                                                                    |
| 63              | RCPT - B111 GENERAL A RCPT - B111 QUADS A RCPT - B111 QUADS B                                  | R<br>R<br>R  |                       | 12<br>12<br>12 | 20<br>20<br>20          | 1 1080<br>1<br>1 | 0                                           | 1080         | 0    | 1080                        | 0        | 1 20<br>1 20<br>1 20 |                |       |              | SPARE<br>SPARE<br>SPARE                                                                    | 62<br>64<br>66             | -      | 61<br>63<br>65 | SPARE<br>SPARE<br>SPARE                                                           |
| 67              | RCPT - B112 GENERAL A<br>RCPT - B112 QUADS A                                                   | R            |                       | 12             | 20                      | 1 1080           | 0                                           | 1080         | 0    | 1000                        |          | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 68<br>70                   | -      | 67<br>69       | EQUIPPED SPACE EQUIPPED SPACE                                                     |
| 71              | RCPT - B112 QUADS B<br>RCPT - B110A REFRIGERATOR                                               | R            | GF                    | 12             | 20 20                   | 1 900            | 0                                           |              |      | 1080                        | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 72<br>74                   | -      | 71<br>73       | EQUIPPED SPACE EQUIPPED SPACE                                                     |
| 77              | RCPT - B110A QUADS<br>RCPT - B110A REFRIGERATOR 1                                              | R<br>K       | GF                    | 12<br>12       | 20<br>20                | 1                |                                             | 1080         | 0    | 900                         | 0        | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 76<br>78                   |        | 75<br>77       | EQUIPPED SPACE EQUIPPED SPACE                                                     |
| 81              | RCPT - B110A ICE MACHINE<br>RCPT-B110A                                                         | K<br>R       | GF                    | 12<br>12       | 20                      | 1 1860           | 0                                           | 540          | 0    |                             |          | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 80<br>82                   |        | 79<br>81       | EQUIPPED SPACE EQUIPPED SPACE                                                     |
| 85              | RCPT-B112A<br>RCPT - B116 ELECTRICAL                                                           | R            |                       | 12<br>12       | 20                      | 1 180            | 0                                           | 400          | 0    | 720                         | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 84<br>86                   |        | 83             | EQUIPPED SPACE                                                                    |
| 89              | PWR-MECH CONTROL PANEL SPARE                                                                   | R<br>Z       |                       | 12             | 20<br>20<br>20          | 1 0              |                                             | 180          | 0    | 100                         | 0        | 1 20<br>1 20<br>1 20 |                |       |              | SPARE<br>SPARE<br>SPARE                                                                    | 88<br>90<br>92             | -      |                |                                                                                   |
| 93              | SPARE<br>SPARE                                                                                 |              |                       |                | 20 20                   | 1 1              |                                             | 0            | 0    | 0                           | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 94<br>96                   | -      | LOAD           | TYPE                                                                              |
| 97              | SPARE<br>SPARE                                                                                 |              |                       |                | 20 20                   | 1 0              | 0                                           | 0            | 0    |                             |          | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 98<br>100                  | -      |                | ΓING LOAD (E)<br>LING (C)                                                         |
| 01<br>03        | SPARE<br>SPARE                                                                                 |              |                       |                | 20<br>20                | 1<br>1 0         | 0                                           |              |      | 0                           | 0        | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 102<br>104                 |        | HEAT           | TING (H) TING (L)                                                                 |
| 07              | SPARE<br>SPARE                                                                                 |              |                       |                | 20                      |                  |                                             | 0            | 0    | 0                           | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 106<br>108                 | _      | MOTO           | EPTACLES (R)<br>DRS (M)                                                           |
| 11              | SPARE<br>SPARE<br>SPARE                                                                        |              |                       |                | 20<br>20<br>20          | 1 0              | 0                                           | 0            | 0    | 0                           | 0        | 1 20<br>1 20<br>1 20 |                |       |              | SPARE<br>SPARE<br>SPARE                                                                    | 110<br>112<br>114          | -<br>- | MISC           | PLEMENTAL HEAT (U) EQUIP (Z)                                                      |
| 15              | SPARE<br>SPARE                                                                                 |              |                       |                | 20 20                   | 1 0              | 0                                           | 0            | 0    | U                           | <u> </u> | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 116                        | -      | SIGN           | RIGERATION (F)<br>/DISPLAY (D)<br>HEN (K)                                         |
| 19              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1<br>1 0         | 0                                           |              |      | 0                           | 0        | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 120<br>122                 | -      | LARG           | GEST MOTOR<br>W WINDOW (W)                                                        |
| 125             | EQUIPPED SPACE<br>EQUIPPED SPACE                                                               |              |                       |                |                         | 1                |                                             | 0            | 0    | 0                           | 0        | 1 20<br>1 20         |                |       |              | SPARE<br>SPARE                                                                             | 124<br>126                 | ]      |                | CK LIGHTING                                                                       |
| 129             | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 0              | 0                                           | 0            | 0    |                             |          | 1 20                 |                |       |              | SPARE<br>SPARE                                                                             | 128<br>130                 | _      |                |                                                                                   |
| 33              | EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                   |              |                       |                |                         | 1 0              | 0                                           | 0            | 150  | 0                           | 0        | 1 20                 | 12             |       | 7            | SPARE SPARE PWR-MOTORIZED DAMPERS                                                          | 132<br>134<br>136          | -      |                |                                                                                   |
| 37              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 0              | 100                                         | 0            | 150  | 0                           | 696      | 1 20<br>1 15<br>1 20 | 12<br>12<br>12 |       | M<br>Z       | RHWP-2 PWR-MARNETIC DOOR HOLDERS B12                                                       | 138                        | -      |                |                                                                                   |
| 41              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 1              | 100                                         | 0            | 200  | 0                           | 200      | 1 20                 | 12             |       |              | PWR-MAGNETIC DOOR HOLDERS A12 PWR-MAGNETIC DOOR HOLDERS A14                                | 1 142                      | -      |                |                                                                                   |
| 45              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 0              | 500                                         | 0            | 360  | -                           |          | 1 20<br>1 20         | 12<br>12       | FA    | Z            | PWR-LCP1B<br>FIRE ALARM PANEL - RPS                                                        | 146<br>148                 | -      |                |                                                                                   |
| 51              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 0              | 1500                                        |              |      | 0                           | 500      | 1 20<br>1 20         | 12<br>12       |       | М            | PWR - ELEVATOR CONTROL POWER<br>ESP-1 ELEV SUMP PUMP                                       | 152                        |        |                |                                                                                   |
| 55              | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1                |                                             | 0            | 392  | 0                           | 100      | 1 20                 | 12             |       | Z            | LTS - ELEVATOR PIT EPO/CONTACTOR                                                           | 154<br>156                 | _      |                |                                                                                   |
| 59              | EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                   |              |                       |                |                         | 1 0              | 500                                         | 0            | 180  | 0                           | 68       | 1 15 1 20            | 12<br>12<br>12 | L     | R            | ELEV CAB LIGHTING RCPT - ELEVATOR PIT SERVICE WH3, WH4, RP2                                | 158<br>160<br>162          | -      |                |                                                                                   |
| 163             | EQUIPPED SPACE EQUIPPED SPACE                                                                  |              |                       |                |                         | 1 0              | 900                                         | 0            | 1144 | U                           | 00       | 1 20<br>1 20<br>2 20 | 12             |       | М            | VAVs 201 thru 221<br>CU 2-1/CRU 2-1                                                        | 164<br>166                 | -      |                |                                                                                   |
|                 | EQUIPPED SPACE                                                                                 |              | TOTAL                 | 1015 (         |                         | 1                | 00.1/4                                      | -            |      | 0                           | 1144     |                      | '-             |       |              | TO Z WORKO Z Y                                                                             | 168                        | -      |                |                                                                                   |
|                 |                                                                                                |              | TOTAL                 |                | /A):                    |                  | 98 VA<br>92 A                               | 23776<br>198 |      | 2337<br>198                 |          | _                    |                |       |              |                                                                                            |                            |        |                |                                                                                   |
| .OAD            |                                                                                                |              | EMAND                 | NEC [          | DEMAN                   | ND PANEL         | BOARD NO                                    | TES          |      |                             |          |                      |                |       |              | PANELBOARD TOTALS                                                                          |                            |        |                |                                                                                   |
|                 | LOAD NG LOAD (E) 0 VA NG (C) 2288 VA                                                           |              | ACTOR<br>100%<br>100% |                | VA<br>38 VA             |                  |                                             |              |      |                             |          |                      |                |       |              | TOTAL CONNECTED LOAD 7                                                                     | 70252 VA                   |        |                |                                                                                   |
| HEATI           | NG (C) 2288 VA<br>NG (H) 0 VA<br>NG (L) 392 VA                                                 |              | 100%<br>0%<br>125%    | 0              | 88 VA<br>VA<br>0 VA     |                  |                                             |              |      |                             |          |                      |                |       |              | TOTAL NEC LOAD 5                                                                           | 51706 VA                   | -      |                |                                                                                   |
| RECEF           | PTACLES (R) 36000 VA<br>RS (M) 1654 VA                                                         | 4            | 64%<br>100%           | 230            | 00 VA<br>00 VA<br>54 VA |                  |                                             |              |      |                             |          |                      |                |       |              | TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT                                           | 195 A<br>144 A             | -      |                |                                                                                   |
| SUPPL           | EMENTAL HEAT (U) 0 VA EQUIP (Z) 11220 VA                                                       |              | 100%<br>100%          | 0              | VA<br>20 VA             |                  |                                             |              |      |                             |          |                      |                |       |              | TO THE DEWAND CONNENT                                                                      | · <del>· · · ·</del> · · · | =      |                |                                                                                   |
| REFRI<br>SIGN/E | GERATION (F)         0 VA           DISPLAY (D)         0 VA                                   |              | 100%<br>125%          | 0              | VA<br>VA                |                  |                                             |              |      |                             |          |                      |                |       |              |                                                                                            |                            |        |                |                                                                                   |
|                 | ST MOTOR 1500 VA                                                                               |              | 65%<br>125%           | 187            | 79 VA<br>75 VA          |                  |                                             |              |      |                             |          |                      |                |       |              |                                                                                            |                            |        |                |                                                                                   |
|                 | WINDOW (W) 0 VA<br>(LIGHTING 0 VA                                                              |              | 125%<br>100%          |                | VA<br>VA                |                  |                                             |              |      |                             |          |                      |                |       |              |                                                                                            |                            |        |                |                                                                                   |

| - CINCOTT VIA CONNENT EIMITING  |
|---------------------------------|
| M = EMERGENCY LIGHTING HANDLE   |
| TR = EXISTING TO REMAIN         |
| A = RED/HANDLE-ON CLAMP.        |
| F = GROUND-FAULT CIRCUIT INTERF |
| FEP = GROUND FAULT EQUIPMENT    |
| Γ# = PROVIDE HANDLE-TIE FOR MUL |
| # DENOTES PHASES TO BE TI       |
| = ISOLATED GROUND CIRCUIT.      |
| E = LIGHTING CONTROL SCHEME NU  |
| CK = HANDLE PADLOCKABLE-OFF DI  |
| ) = HANDLE-ON CLAMP.            |
| = PROVIDE NEUTRAL WITH 208V OF  |
| B = PROVIDE NEW CIRCUIT BREAKE  |
| OL = REFER TO ELECTRICAL ONE-L  |
| S = POWER-SWITCHING CIRCUIT BR  |
| DE - EMEDOENOV DOMED OMITOU     |

REQUIRED.

EQUIPMENT GROUND BUS

AF = ARC FAULT CIRCUIT INTERRUPTER.

C# = CIRCUIT VIA LIGHTING CONTACTOR #.

CL = CIRCUIT VIA CURRENT LIMITING DEVICE.

EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ERRUPTER TYPE CIRCUIT BREAKER (5 mA). NT PROTECTION BREAKER (30 mA). MULTI-WIRE BRANCH CIRCUIT PER CODE. TIED. IUMBER. DEVICE. OR 480V, 1-PH OR 3-PH CIRCUIT.

-LINE/RISER DIAGRAM. BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. RP = CIRCUIT VIA RELAY PANEL.

PANELBOARD SCHEDULE NOTES LEGEND:

SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE.

ST = SHUNT TRIP CIRCUIT BREAKER.

VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.

ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

| OF MISSOLD                         |
|------------------------------------|
| CURTIS A. OLDS                     |
| NUMBER<br>PE-2018036640            |
| NUMBER PE-2018036640 PE-2018036640 |
| 0-4 10 2020                        |

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & REVISIONS ADDENDUM 001 ADDENDUM 002

13-20102-00 ELECTRICAL SCHEDULES

E6.3

PANEL 2H1B

PANEL 2L1B PANEL 2C1B

|                | IN SIZE/TYPE: 150A M.C.B.<br>LTS/PHASE: 208Y/120 V 3P/4V | V            |              |            |              |          | MOUNT                                         |      | SURFAC   | LOOR - AREA<br>CF |          |              |           |      |                               |           |
|----------------|----------------------------------------------------------|--------------|--------------|------------|--------------|----------|-----------------------------------------------|------|----------|-------------------|----------|--------------|-----------|------|-------------------------------|-----------|
|                | PPLIED BY: DP-2H1B VIA TX-2                              |              |              |            |              |          | LOCATION                                      |      | ELEC B   |                   |          |              |           |      | 200'                          | % NEUTRAL |
|                |                                                          |              |              |            |              |          |                                               |      |          |                   |          |              |           |      | LINE-SIDE LUGS: M             |           |
| CK             | T DESCRIPTION                                            | L            | OAD NOTES    | WIRE       | BKR P        | PH       | IASE                                          | PH   | IASE     | PHAS              | E        | P BKR W      | IRE NOTES | LOAD | DESCRIPTION                   | СКТ       |
| VΟ             |                                                          |              | ГҮРЕ         |            | AMP          |          | Α                                             | 1    | В        | С                 |          | AMP S        |           | TYPE |                               | NO.       |
| 1              | RCPT - B102 DESK/TV                                      |              | R            | 12         | 20 1         | 540      | 0                                             |      |          |                   |          | 1 20         |           |      | SPARE                         | 2         |
| 3              |                                                          |              | R            | 12         | 20 1         |          |                                               | 1080 | 0        | 4000              | 0        | 1 20         |           |      | SPARE                         | 4         |
| 5<br>7         |                                                          |              | R<br>R       | 12         | 20 1<br>20 1 | 1080     | 0                                             | ٦    |          | 1080              | 0        | 1 20<br>1 20 |           |      | SPARE SPARE                   | 6<br>8    |
| 9              |                                                          | R            | R            | 12<br>12   | 20 1         | 1000     | 0                                             | 350  | 0        | ٦                 | -        | 1 20         |           |      | SPARE                         | 10        |
| 11             |                                                          |              | R            | 12         | 20 1         |          |                                               | 330  | 0        | 1080              | 0        | 1 20         |           |      | SPARE                         | 12        |
| <u>.</u><br>13 |                                                          |              | R            | 12         | 20 1         | 1080     | 0                                             | 7    |          | 1000              |          | 1 20         |           |      | SPARE                         | 14        |
| 15             |                                                          |              | R            | 12         | 20 1         |          |                                               | 540  | 0        |                   | T T      | 1 20         |           |      | SPARE                         | 16        |
| 17             | RCPT - B121 DESK/TV                                      |              | R            | 12         | 20 1         |          |                                               |      | 1        | 900               | 0        | 1 20         |           |      | SPARE                         | 18        |
| 19             |                                                          |              | R            | 12         | 20 1         | 540      | 0                                             |      |          |                   |          | 1 20         |           |      | SPARE                         | 20        |
| 2′             | ,                                                        | /TV          | R            | 12         | 20 1         |          |                                               | 900  | 0        |                   |          | 1 20         |           |      | SPARE                         | 22        |
| 23             |                                                          |              | R            | 12         | 20 1         | =        |                                               | 7    |          | 720               | 0        | 1 20         |           |      | SPARE                         | 24        |
| 25             |                                                          |              | R            | 12         | 20 1         | 720      | 0                                             | 700  | 0        | ٦                 | -        | 1 20         |           |      | SPARE                         | 26        |
| 27             |                                                          |              | R<br>R       | 12<br>12   | 20 1<br>20 1 |          |                                               | 720  | 0        | 720               | 0        | 1 20         |           |      | SPARE<br>SPARE                | 28<br>30  |
| 29<br>31       |                                                          |              | R            | 12         | 20 1         | 0        | 0                                             | ٦    |          | 720               | 0        | 1 20         |           |      | SPARE                         | 30        |
| ა<br>33        |                                                          |              |              |            | 20 1         | U        | l U                                           | 0    | 0        | ٦                 | +        | 1 20         |           |      | SPARE                         | 34        |
| 35             |                                                          |              |              |            | 20 1         |          |                                               |      | 1 0      | 0                 | 0        | 1 20         |           |      | SPARE                         | 36        |
| 37             |                                                          |              |              |            | 20 1         | 0        | 0                                             | 7    |          |                   |          | 1 20         |           |      | SPARE                         | 38        |
| 39             |                                                          |              |              |            | 20 1         | -        | <u>, , , , , , , , , , , , , , , , , , , </u> | 0    | 0        | 7                 | <u> </u> | 1 20         |           |      | SPARE                         | 40        |
| 4′             |                                                          |              |              |            | 20 1         |          |                                               |      | l        | 0                 | 0        | 1 20         |           |      | SPARE                         | 42        |
| 43             |                                                          |              |              |            | 20 1         | 0        | 0                                             |      |          |                   |          | 1 20         |           |      | SPARE                         | 44        |
| 45             |                                                          |              |              |            | 20 1         |          |                                               | 0    | 0        | <u> </u>          |          | 1 20         |           |      | SPARE                         | 46        |
| 47             |                                                          |              |              |            | 20 1         |          |                                               | _    |          | 0                 | 0        | 1 20         |           |      | SPARE                         | 48        |
| 49             |                                                          |              |              |            | 20 1         | 0        | 0                                             |      | _        | _                 |          | 1 20         |           |      | SPARE                         | 50        |
| 51             |                                                          |              |              |            | 20 1         |          |                                               | 0    | 0        |                   |          | 1            |           |      | EQUIPPED SPACE                | 52        |
| 53             |                                                          |              |              |            | 20 1         |          |                                               | ٦    |          | 0                 | 0        | 1            |           |      | EQUIPPED SPACE                | 54        |
| 55<br>57       |                                                          |              |              |            | 20 1         | 0        | 0                                             | 0    | 0        | ٦                 | -        | 1            |           |      | EQUIPPED SPACE EQUIPPED SPACE | 56<br>58  |
| 5 <i>1</i>     |                                                          |              |              |            | 20 1         |          |                                               |      | 0        | 0                 |          | 1            |           |      | EQUIPPED SPACE                | 60        |
| 61             |                                                          |              |              |            | 20 1         | 0        | 0                                             | ٦    |          | 0                 |          | 1            |           |      | EQUIPPED SPACE                | 62        |
| 63             |                                                          |              |              |            | 20 1         |          |                                               | 0    | 0        |                   | -        | 1            |           |      | EQUIPPED SPACE                | 64        |
| 65             |                                                          |              |              |            | 20 1         |          |                                               |      |          | 0                 | 0        | 1            |           |      | EQUIPPED SPACE                | 66        |
| 67             |                                                          |              |              |            | 1            | 0        | 0                                             | 7    |          |                   |          | 1            |           |      | EQUIPPED SPACE                | 68        |
| 69             |                                                          |              |              |            | 1            |          | -                                             | 0    | 0        | 7                 |          | 1            |           |      | EQUIPPED SPACE                | 70        |
| 7′             |                                                          |              |              |            | 1            |          |                                               | _    |          | 0                 | 0        | 1            |           |      | EQUIPPED SPACE                | 72        |
| 73             |                                                          |              |              |            | 1            | 0        | 0                                             |      |          | _                 |          | 1            |           |      | EQUIPPED SPACE                | 74        |
| 75             |                                                          |              |              |            | 1            |          |                                               | 0    | 0        |                   |          | 1            |           |      | EQUIPPED SPACE                | 76        |
| 77             |                                                          |              |              |            | 1            |          |                                               | ٦    |          | 0                 | 0        | 1            |           |      | EQUIPPED SPACE                | 78        |
| 79             |                                                          |              |              |            | 1            | 0        | 0                                             | 0    | 0        | ٦                 | -        | 1            |           |      | EQUIPPED SPACE                | 80        |
| 81<br>83       |                                                          |              |              |            | 1            |          |                                               | 0    | 0        | 0                 | 0        | 1            |           |      | EQUIPPED SPACE EQUIPPED SPACE | 82<br>84  |
| 00             | B   EQUIPPED SPACE                                       |              |              |            | <u> </u>     |          |                                               |      |          |                   |          | 1            |           |      | EQUIPPED SPACE                | 04        |
|                |                                                          |              | TOTAL        | LOAD (     | (VA):        | 396      | 80 VA                                         | 359  | 90 VA    | 4500 V            | Ά        |              |           |      |                               |           |
|                |                                                          |              | TOTAL        | AMPS:      |              | 3        | 3 A                                           | 3    | 0 A      | 38 A              |          |              |           |      |                               |           |
|                |                                                          |              | TOTAL        | / (IVII O. |              |          | <u> </u>                                      |      | <u> </u> | 1 00 /            |          |              |           |      |                               |           |
| .0,            | AD TYPE                                                  | CONNECTED    | DEMAND       | NEC        | DEMAND       | PANEL    | BOARD N                                       | OTES |          |                   |          |              |           |      | PANELBOARD TOTALS             |           |
| •              |                                                          | LOAD         | FACTOR       |            |              |          |                                               |      |          |                   |          |              |           |      |                               |           |
|                | ISTING LOAD (E)                                          | 0 VA         | 100%         |            | 0 VA         |          |                                               |      |          |                   |          |              |           |      | TOTAL CONNECTED LOAD          | 12050 VA  |
|                | OLING (C)                                                | 0 VA         | 0%           |            | 0 VA         |          |                                               |      |          |                   |          |              |           |      |                               |           |
|                | ATING (H)                                                | 0 VA         | 100%         |            | 0 VA         | _        |                                               |      |          |                   |          |              |           |      | TOTAL NEC LOAD                | 11025 VA  |
|                | HTING (L)                                                | 0 VA         | 125%         |            | 0 VA         | 4        |                                               |      |          |                   |          |              |           |      | TOTAL CONNECTED CURRENT       | 33 A      |
|                | CEPTACLES (R)                                            | 12050 VA     | 91%          |            | 025 VA       | 4        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | OTORS (M)                                                | 0 VA         | 100%         |            | O VA         | 4        |                                               |      |          |                   |          |              |           |      | TOTAL NEC DEMAND CURRENT      | 31 A      |
|                | PPLEMENTAL HEAT (U)                                      | 0 VA<br>0 VA | 100%<br>100% |            | 0 VA<br>0 VA | 4        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | SC EQUIP (Z)<br>FRIGERATION (F)                          | 0 VA<br>0 VA | 100%         |            | 0 VA<br>0 VA | +        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | GN/DISPLAY (D)                                           | 0 VA         | 125%         |            | 0 VA<br>0 VA | +        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | CHEN (K)                                                 | 0 VA         | 100%         |            | 0 VA<br>0 VA | +        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | RGEST MOTOR                                              | 0 VA         | 125%         |            | 0 VA         | +        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | OW WINDOW (W)                                            | 0 VA         | 125%         |            | 0 VA         | 7        |                                               |      |          |                   |          |              |           |      |                               |           |
|                | ACK LIGHTING                                             | 0 VA         | 100%         |            | 0 VA         | $\dashv$ |                                               |      |          |                   |          |              |           |      |                               |           |

FAULT CURRENT: RE: ONE-LINE DIAGRAM

**FULLY RATED** 

FCA +10% MINIMUM

FIRST FLOOR - AREA B

AIC RATED:

AIC RATING:

SERVES:

| PANELBOARD: 2H2E BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: DP-2H1B | , ,             |      |          |             |      |        | FAULT C<br>AIC RATE<br>AIC RATI<br>SERVES:<br>MOUNTIN | ED:<br>NG:<br>:<br>NG: | RE: ONE<br>FULLY R<br>FCA +10 <sup>o</sup><br>SECOND<br>SURFAC<br>ELEC B2 | ATED<br>% MINIMU<br>) FLOOR -<br>E | JM    |                                   |          |          |           |          | EQUIPMENT GRO                     |           |
|----------------------------------------------------------------------------------------------------------------|-----------------|------|----------|-------------|------|--------|-------------------------------------------------------|------------------------|---------------------------------------------------------------------------|------------------------------------|-------|-----------------------------------|----------|----------|-----------|----------|-----------------------------------|-----------|
| CKT DESCRIPTION                                                                                                |                 |      |          | IRE BI      |      | PHA    | SE                                                    | PH                     | ASE                                                                       | PH                                 | IASE  | 1 1                               |          |          | NOTES     |          |                                   | СКТ       |
| NO.                                                                                                            |                 | TYPE |          | ZE AN       |      | A      |                                                       |                        | В                                                                         |                                    | С     |                                   |          | SIZE     |           | TYPE     |                                   | NO.       |
| 1 LTG-B201,B202,B203,B204                                                                                      |                 | LZ   |          |             | 0 1  | 1310   | 165                                                   |                        |                                                                           |                                    |       |                                   | 20       | 12       | EM        | L        | LTS-NL, EXIT SIGNS B20 ,B21, B22  | 2         |
| 3 LTG-B205,B206,B207                                                                                           |                 | LZ   |          |             | 0 1  |        |                                                       | 1298                   | 495                                                                       |                                    |       |                                   | 20       | 12       | EM        | L        | LTS-CORRIDOR B20,B21,B22          | 4         |
| 5 LTG-B208,B209,B210,B211                                                                                      | ,B212,B213      | LZ   |          |             | 0 1  | 0.400  | 1100                                                  | ı                      |                                                                           | 1943                               | 840   |                                   | 20       | 12       | EM        | L.       | LTS - LEVEL 2 LEARNING COMMONS    |           |
| 7 LTG-B214,B215,B216                                                                                           |                 | LZ   |          |             | 0 1  | 2400   | 1198                                                  |                        | F.C.0                                                                     | 7                                  |       |                                   | 20       | 12<br>12 | EM        | L        | LTS - LEVEL 2 LC CLERESTORY B200  | 8         |
| 9 SPARE<br>11 SPARE                                                                                            |                 |      |          |             | 0 1  |        |                                                       | 0                      | 568                                                                       | 0                                  | 0     |                                   | 20<br>20 | 12       | □IVI      | <u> </u> | LTS -LEVEL 2 STAIR 2 B20<br>SPARE | 10<br>12  |
| 13 SPARE                                                                                                       |                 |      |          |             | 0 1  | 0      | 0                                                     |                        |                                                                           |                                    | J 0   |                                   | 20       |          |           |          | SPARE                             | 14        |
| 15 SPARE                                                                                                       |                 |      |          |             | 0 1  | 0      |                                                       | 0                      | 0                                                                         | 1                                  |       |                                   | 20       |          |           |          | SPARE                             | 16        |
| 17 SPARE                                                                                                       |                 |      |          |             | 0 1  |        |                                                       |                        |                                                                           | 0                                  | 0     |                                   | 20       |          |           |          | SPARE                             | 18        |
| 19 SPARE                                                                                                       |                 |      |          |             | 0 1  | 0      | 0                                                     |                        |                                                                           |                                    |       |                                   | 20       |          |           |          | SPARE                             | 20        |
| 21 SPARE                                                                                                       |                 |      |          | 2           | 0 1  |        |                                                       | 0                      | 0                                                                         |                                    |       | 1 2                               | 20       |          |           |          | SPARE                             | 22        |
| 23 SPARE                                                                                                       |                 |      |          |             | 0 1  |        |                                                       |                        |                                                                           | 0                                  | 0     |                                   | 20       |          |           |          | SPARE                             | 24        |
| 25 SPARE                                                                                                       |                 |      |          |             | 0 1  | 0      | 0                                                     |                        |                                                                           |                                    |       |                                   | 20       |          |           |          | SPARE                             | 26        |
| 27 SPARE                                                                                                       |                 |      |          |             | 0 1  |        |                                                       | 0                      | 0                                                                         | _                                  | _     |                                   | 20       |          |           |          | SPARE                             | 28        |
| 29 SPARE                                                                                                       |                 |      |          | 2           | 0 1  |        | = 400                                                 | 1                      |                                                                           | 0                                  | 0     | شمرا                              | $\sim$   | $\sim$   |           |          | SPARE                             | 30        |
| 31 EQUIPPED SPACE                                                                                              |                 |      |          |             | 1    | 0      | 5100                                                  |                        | F400                                                                      | 7                                  |       | <b>}</b>   ,                      | _        | }        | $\wedge$  |          | ALILLE (OLIDDIN)                  | 32        |
| 33 EQUIPPED SPACE<br>35 EQUIPPED SPACE                                                                         |                 |      |          |             | 1    |        |                                                       | 0                      | 5100                                                                      |                                    | F100  | <b> </b>                          | 25       | 10       | <u>/2</u> | M        | AHU-5 (SUPPLY)                    | 34        |
| 35 EQUIPPED SPACE 37 EQUIPPED SPACE                                                                            |                 |      |          |             | 1    | 0      | 2106                                                  | 1                      |                                                                           | 0                                  | 5100  | ٠,                                | •        | (ريد     |           |          | 4 @ 3HP                           | 36<br>38  |
| 39 EQUIPPED SPACE                                                                                              |                 |      |          |             | 1    | U      | 2100                                                  | 0                      | 2106                                                                      | 1                                  |       | $\begin{vmatrix} 3 \end{vmatrix}$ | 15       | 12       |           | ZM       | RF-5 (RETURN) 1@ 5HP              | 40        |
| 41 EQUIPPED SPACE                                                                                              |                 |      |          |             | 1    |        |                                                       |                        | 2100                                                                      | 0                                  | 2106  | ॅ    ˈ                            | '        | 12       |           | Z 1V1    | 141-3 (1421-0144) 1(2) 3111       | 42        |
| TI EQUITED STAGE                                                                                               |                 |      |          |             |      |        |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   | 12        |
|                                                                                                                |                 |      | TOTAL LO | AD (VA      | .):  | 12279  | VA                                                    | 956                    | 7 VA                                                                      | 998                                | 89 VA |                                   |          |          |           |          |                                   |           |
|                                                                                                                |                 |      | TOTAL AM | PS:         |      | 45 /   | Α                                                     | 3                      | 5 A                                                                       | 3                                  | 6 A   |                                   |          |          |           |          |                                   |           |
| LOAD TYPE                                                                                                      | CONNECTED LOAD  |      | MAND N   | EC DE       | MAND | PANELB | OARD NO                                               | DTES                   |                                                                           |                                    |       |                                   |          |          |           |          | PANELBOARD TOTALS                 |           |
| EXISTING LOAD (E)                                                                                              | 0 VA            | 1    | 100%     | 0 V.        | A    |        |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          | TOTAL CONNECTED LOAD              | 21026 \/^ |
| COOLING (C)                                                                                                    | 0 VA            |      | 0%       | 0 V.        |      |        |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   | 31836 VA  |
| HEATING (H)                                                                                                    | 0 VA            |      | 100%     | 0 V.        |      |        |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          | TOTAL NEC LOAD                    | 38194 VA  |
| LIGHTING (L)                                                                                                   | 10132 VA        |      | 25%      | 12665       |      | _      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          | TOTAL CONNECTED CURRENT           | 38 A      |
| RECEPTACLES (R)                                                                                                | 0 VA            |      | 0%       | 0 V         |      | 4      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| MOTORS (M) SUPPLEMENTAL HEAT (U)                                                                               | 6319 VA<br>0 VA |      | 100%     | 6319<br>0 V |      | 4      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          | TOTAL NEC DEMAND CURRENT          | 46 A      |
| MISC EQUIP (Z)                                                                                                 | 85 VA           |      | 100%     | 85 V        |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| REFRIGERATION (F)                                                                                              | 0 VA            |      | 100%     | 0 V         |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| SIGN/DISPLAY (D)                                                                                               | 0 VA            |      | 125%     | 0 V         |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| KITCHEN (K)                                                                                                    | 0 VA            |      | 100%     | 0 V         |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
|                                                                                                                | 15300 VA        |      | 125%     | 19125       |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| LARGEST MOTOR                                                                                                  | 10000 VA        |      | 20/0     | 10120       |      |        |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |
| LARGEST MOTOR<br>SHOW WINDOW (W)                                                                               | 0 VA            |      | 125%     | 0 V         |      | +      |                                                       |                        |                                                                           |                                    |       |                                   |          |          |           |          |                                   |           |

FULLY RATED

AIC RATED:

PANELBOARD: 2L2B (NEW)

EQUIPMENT GROUND BUS

PANELBOARD: 2C2B (NEW)

BUS AMPS: 150A

| BUS AMPS: 400A MAIN SIZE/TYPE: 400A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP-2H1B VIA TX-2L2B |                             |                     |           |                      | AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | S:<br>ING:   |           |            | REA B |              |              |          |              | LINE-SIDE LUGS: MECI                                           | HANICAL    | MAIN S<br>VOLTS  | MPS: 150A<br>BIZE/TYPE: 150A M.C<br>/PHASE: 208Y/120 V<br>IED BY: DP-2H1B VIA | / 3P/4W  |
|-----------------------------------------------------------------------------------------------------------|-----------------------------|---------------------|-----------|----------------------|----------------------------------------|--------------|-----------|------------|-------|--------------|--------------|----------|--------------|----------------------------------------------------------------|------------|------------------|-------------------------------------------------------------------------------|----------|
| CKT DESCRIPTION NO.                                                                                       | LOA<br>TYP                  |                     | S WIRE B  |                      | PHASE<br>A                             | PF           | HASE<br>B | PHASE<br>C | E     |              | WIRE<br>SIZE | NOTES    | LOAD<br>TYPE |                                                                | CKT<br>NO. | CKT<br>NO.       | DESCRIPTION                                                                   |          |
| 1 RCPT - B201 GENERAL A<br>3 RCPT - B201 GENERAL B                                                        | R<br>R                      |                     | 12        | 20 1 20 1            | 720 900                                | 540          | 1080      |            |       | 1 20<br>1 20 | 12           |          | R            | RCPT - B216 GENERAL<br>RCPT - B216 AC                          | 2 4        | 3                | RCPT - B201 DESK/<br>RCPT - B203 DESK/                                        | /TV      |
| 5 RCPT - B203 GENERAL A<br>7 RCPT - B203 GENERAL B                                                        | R<br>R                      |                     | 12        | 20 1<br>20 1         | 900 360                                |              |           | 720        | 360   | 1 20<br>1 20 | 12           |          | R            | RCPT-B216 CORD REEL 1<br>RCPT-B216 CORD REEL 2                 | 6<br>8     | 7                | RCPT - B204 DESK/<br>RCPT - B205 DESK/                                        | /TV      |
| 9 RCPT - B204 GENERAL A<br>11 RCPT - B204 GENERAL B                                                       | R<br>R                      |                     |           | 20 1<br>20 1         |                                        | 720          | 360       | 900        | 360   | 1 20<br>1 20 |              |          | R            | RCPT-B216 CORD REEL 3<br>RCPT-B216 CORD REEL 4                 | 10<br>12   |                  | RCPT - B206 DESK/<br>RCPT - B208 DESK/                                        |          |
| 13 RCPT - B205 GENERAL A<br>15 RCPT - B205 GENERAL B                                                      | R                           |                     | 12        | 20 1<br>20 1         | 540 360                                | 720          | 360       |            |       | 1 20         |              |          | R            | RCPT-B216 CORD REEL 5<br>RCPT-B216 CORD REEL 6                 | 14<br>16   | 13               | RCPT - B209 DESK/<br>RCPT - B210 DESK/                                        | /TV      |
| 17 RCPT - B206 GENERAL A                                                                                  | R                           |                     | 12        | 20 1                 | 540 260                                | 720          |           | 720        | 360   | 1 20         | 12           |          | R            | RCPT-B216 CORD REEL 7                                          | 18         | 17               | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        | ENT TV A |
| 19 RCPT - B206 GENERAL B<br>21 RCPT - B208 GENERAL A                                                      | R<br>R                      |                     | 12        | 20 1                 | 540 360                                | 900          | 360       |            |       | 1 20         | 12           |          | R            | RCPT-B216 CORD REEL 8<br>RCPT-B216 CORD REEL 9                 | 20         | 21               | RCPT - B210 STUDE                                                             | ENT DESK |
| 23 RCPT - B208 GENERAL B<br>25 RCPT - B209 GENERAL A                                                      | R<br>R                      |                     | 12        | 20 1<br>20 1         | 540 360                                | ]            |           | 720        | 360   | 1 20<br>1 20 | 12           |          | R            | RCPT-B216 CORD REEL 10<br>RCPT-B216 CORD REEL 11               | 24<br>26   | 25               | RCPT - B210 STUDE                                                             | ENT TV B |
| 27   RCPT - B209 GENERAL B<br>29   RCPT - B210 GENERAL A                                                  | R<br>R                      |                     |           | 20 1<br>20 1         |                                        | 900          | 360       | 720        | 0     | 1 20<br>1 20 |              |          | R            | RCPT-B216 CORD REEL 12<br>RCPT-216A,214A                       | 28<br>30   |                  | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        |          |
| 31   RCPT - B210 GENERAL B<br>33   RCPT - B212 GENERAL A                                                  | R<br>R                      |                     |           | 20 1 20 1            | 540 180                                | 540          | 1080      | 7          |       | 1 20         | 12<br>12     |          | R            | RCPT-214A<br>RCPT-215 GENERAL                                  | 32<br>34   |                  | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        |          |
| 35 RCPT - B212 GENERAL B<br>37 RCPT- B211,B20 GENERAL                                                     | R<br>R                      |                     |           | 20 1<br>20 1         | 540 0                                  | 7            |           | 540        | 0     | 1 20<br>1 20 |              |          |              | SPARE SPARE                                                    | 36<br>38   |                  | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        |          |
| 39 RCPT - EWC B21<br>41 RCPT - B21,B22,B202 GENER                                                         | AL R                        |                     | 12        | 20 1<br>20 1         |                                        | 600          | 0         | 1080       | 0     | 1 20         |              |          |              | SPARE<br>SPARE                                                 | 40<br>42   |                  | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        |          |
| 43 RCPT - B200 LEARNING COM<br>45 RCPT - CLOCKS LVL 2 B                                                   |                             |                     | 12        | 20 1 20 1            | 540 900                                | 900          | 900       |            |       | 1 20         | 12<br>12     | GF<br>GF | K            | RCPT-B214 REFRIGERATOR 1 RCPT-B214 REFRIGERATOR 2              | 44 46      | 43               | RCPT - B210 STUDE<br>RCPT - B210 STUDE                                        | ENT DESK |
| 47 RCPT-B214 MICROWAVE STA                                                                                | ATION 1 K                   |                     | 12        | 20 1                 | 200 4050                               | <u>900</u>   |           | 1000       | 4250  | 2 50         | 6            | GF       | K            | MICRO/COMBI OVEN - B214PROVIDE G BREAKER IF CORD & PLUG        | FCI 48     | 47               | RCPT - B210 STUDE                                                             | ENT DESK |
| 49 RCPT-B214 HOOD STATION 1                                                                               | R                           |                     | 12        | 20 1                 | 300 4250                               | 540          | 720       |            |       | 1 20         |              |          | R            | RCPT-B214 GENERAL                                              | 50<br>52   | 51               | RCPT - B210 STUDE                                                             | ENT DESK |
| 53 RCPT-B214 AC B STATION 1 55 RCPT-B214 RANGE STATION                                                    | 1 K                         |                     |           | 20 1<br>50 2         | 4250 4250                              | ]            |           | 360        | 360   | 1 20<br>2 50 | 12<br>6      | GF       | R<br>K       | RCPT-B214 ISLAND COOKTOP B214 ISLAND PROVIDE GFC               |            | 55               | RCPT - B210 STUDE                                                             |          |
| 57<br>59 RCPT-B214 DISPOSAL STATI                                                                         | ON 1 K Z                    | Z GF                | 12        | 20 1                 |                                        | 4250         | 4250      | 850        | 1000  | 1 20         | 12           | GF       | K            | BREAKER IF CORD & PLUG RCPT-B214 DISHWASHER, ISLAND            | 58<br>60   |                  | SPARE SPARE                                                                   |          |
| 61 RCPT-B214 AC A STATION 2<br>63 RCPT-B214 AC B STATION 2                                                | R<br>R                      |                     |           | 20 1<br>20 1         | 360 850                                | 360          | 0         | 7          |       | 1 20<br>1 20 |              | GF       | K            | RCPT-B214 DISPOSAL, ISLAND<br>SPARE                            | 62<br>64   |                  | SPARE<br>SPARE                                                                |          |
| 65 RCPT-B214 HOOD STATION 2<br>67 RCPT-B214 MICROWAVE STA                                                 | 2 K                         |                     | 12        | 20 1                 | 180 360                                | 7            |           |            | 850   | 1 20         | 12           | GF       | K            | RCPT-B214 DISPOSAL STATION 3 RCPT-B214 AC A STATION 3          | 66         | 65               | SPARE<br>SPARE                                                                |          |
| 69 RCPT-B214 DISPOSAL STATI                                                                               | ON 1 K Z                    | Z GF                | 12        | 20 1                 | 100   300                              | 850          | 4250      | 4050       | 4050  | 2 50         | 6            | GF       | K            | RCPT-B214 RANGE STATION 3                                      | 70         | 69               | SPARE                                                                         |          |
| 71 RCPT-B214 RANGE STATION                                                                                |                             |                     |           | 50 2                 | 4250 1000                              |              |           | 4250       | 4250  | 1 20         |              |          | K            | RCPT-B214 MICROWAVE STATION 3                                  | 72<br>74   | 73               | SPARE<br>SPARE                                                                |          |
| 75 RCPT-B214 WASHER<br>77 DRYER-B214 DRYER                                                                | Z<br>  Z                    |                     |           | 20 1<br>30 2         |                                        | 1500         | 300       | 1500       | 0     | 1 20<br>1 20 |              |          | K            | RCPT-B214 HOOD STATION 3<br>SPARE                              | 76<br>78   | 77               | EQUIPPED SPACE                                                                |          |
| 79<br>81 PWR - DOOR HARDWARE ( E                                                                          | 320.1/B21) Z                |                     | 12        | 20 1                 | 1500   1200                            | 100          | 850       |            |       | 1 20<br>1 20 |              | GF<br>GF | K            | RCPT-B214 DISHWASHER STATION 6<br>RCPT-B214 DISPOSAL STATION 6 | 80<br>82   |                  | EQUIPPED SPACE EQUIPPED SPACE                                                 |          |
| 83 SPARE<br>85 RCPT-B214 DISPOSAL STATI                                                                   | ON 4 K Z                    | Z GF                |           | 20 1<br>20 1         | 850 1000                               |              |           | 0          | 360   | 1 20<br>1 20 |              |          | R<br>K       | RCPT-B214 AC A STATION 6 RCPT-B214 MICROWAVE STATION 6         | 84<br>86   | 83               | EQUIPPED SPACE                                                                |          |
| 87 RCPT-B214 AC A STATION 4 89 RCPT-B214 MICROWAVE STA                                                    | R                           |                     | 12        | 20 1<br>20 1         |                                        | 360          | 300       | 1000       | 4250  | 1 20         | 12           | GF       | K            | RCPT-B214 HOOD STATION 6 RCPT-B214 RANGE STATION 6             | 88<br>90   |                  |                                                                               |          |
| 91 RCPT-B214 HOOD STATION 4                                                                               | 1 K                         |                     | 12        | 20 1 50 2            | 300 4250                               | 4250         | 0         |            | 4200  | 1 20         |              | 01       |              | SPARE                                                          | 92<br>94   | 1045             | D. O. C.                                                                      |          |
| 95                                                                                                        | 4                           | Gr                  |           |                      |                                        | <u> 4230</u> |           | 4250       | 0     | 1 20         |              |          |              | SPARE                                                          | 96         | LOAD             |                                                                               | С        |
| 97 SPARE<br>99 RCPT-B214 DISPOSAL STATI                                                                   |                             |                     | 12        | 20 1                 | 0   0                                  | 850          | 0         |            |       | 1 20<br>1 20 |              |          |              | SPARE<br>SPARE                                                 | 98         | COOLI            |                                                                               |          |
| 101 RCPT-B214 AC A STATION 5<br>103 RCPT-B214 MICROWAVE STA                                               |                             |                     | 12        | 20 1<br>20 1         | 1000 0                                 | 7            |           | 360        | 0     | 1 20<br>1 20 |              |          |              | SPARE SPARE                                                    | 102<br>104 | HEATII<br>LIGHTI | NG (L)                                                                        |          |
| 105 RCPT-B214 HOOD STATION S<br>107 RCPT-B214 RANGE STATION                                               |                             |                     |           | 20 1<br>50 2         |                                        | 300          | 0         | 4250       | 0     | 1 20<br>1 20 |              |          |              | SPARE SPARE                                                    | 106<br>108 | RECEF<br>MOTO    | PTACLES (R)<br>RS (M)                                                         |          |
| 109<br>111 SPARE                                                                                          |                             |                     |           | 20 1                 | 4250 0                                 | 0            | 0         | 7          |       | 1 20<br>1 20 |              |          |              | SPARE<br>SPARE                                                 | 110<br>112 | SUPPL            | EMENTAL HEAT (U)<br>EQUIP (Z)                                                 | ,        |
| 113 SPARE<br>115 SPARE                                                                                    |                             |                     |           | 20 1<br>20 1         | 0 0                                    | 7            |           | 0          | 0     | 1 20         |              |          |              | SPARE SPARE                                                    | 114<br>116 | REFRI            | GERATION (F)<br>DISPLAY (D)                                                   |          |
| 117 SPARE<br>119 SPARE                                                                                    |                             |                     |           | 20 1                 |                                        | 0            | 0         | 0          | 0     | 1 20         |              |          |              | SPARE SPARE                                                    | 118        | KITCHI           | EN (K)                                                                        |          |
| 121 SPARE                                                                                                 |                             |                     |           | 20 1                 | 0 0                                    |              |           |            |       | 1 20         |              |          |              | SPARE                                                          | 122        | SHOW             | ST MOTOR<br>WINDOW (W)                                                        |          |
| 123 SPARE<br>125 SPARE                                                                                    |                             |                     |           | 20 1<br>20 1         |                                        | 0            | 0         | 0          | 0     | 1 20         |              |          |              | SPARE SPARE                                                    | 124<br>126 | TRACK            | LIGHTING                                                                      |          |
| 127 EQUIPPED SPACE 129 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 0                                    | 0            | 0         | ]          |       | 1 20         |              |          |              | SPARE EQUIPPED SPACE                                           | 128<br>130 |                  |                                                                               |          |
| 131 EQUIPPED SPACE 133 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 0                                    | 7            |           | 0          | 0     | 1            |              |          |              | EQUIPPED SPACE EQUIPPED SPACE                                  | 132<br>134 |                  |                                                                               |          |
| 135 EQUIPPED SPACE<br>137 EQUIPPED SPACE                                                                  |                             |                     |           | 1                    |                                        | 0            | 0         | 0          | 0     | 1            |              |          |              | EQUIPPED SPACE EQUIPPED SPACE                                  | 136<br>138 |                  |                                                                               |          |
| 139 EQUIPPED SPACE 141 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 0                                    | 0            | 50        | 7          |       | 1 20         | 12           | FA       | Z            | EQUIPPED SPACE FIRE/SMOKE DETECTOR                             | 140<br>142 |                  |                                                                               |          |
| 143 EQUIPPED SPACE 145 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 696                                  | <del>_</del> |           | 0          | 150   | 1 20         | 12           |          | Z            | PWR-MOTORIZED DAMPER RHWP-5                                    | 144        |                  |                                                                               |          |
| 147 EQUIPPED SPACE                                                                                        |                             |                     |           | 1                    | 0   090                                | 0            | 1000      |            | 500   | 1 20         | 12           |          | M<br>Z       | PWR-MAG DOOR HOLDS B20                                         | 148        |                  |                                                                               |          |
| 149 EQUIPPED SPACE<br>151 EQUIPPED SPACE                                                                  |                             |                     |           | 1                    | 0 180                                  | 1            |           | _ 0        | 500   | 1 20<br>1 20 | 12           |          | R            | PWR-MAG DOOR HOLDS B20<br>RCPT-MECH B207                       | 150<br>152 |                  |                                                                               |          |
| 153 EQUIPPED SPACE 155 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    |                                        | 0            | 180       | 0          | 500   | 1 20<br>1 20 | 12           |          | R<br>Z       | RCPT-ELEC B213 PWR-MECH CONTROLS B207                          | 154<br>156 |                  |                                                                               |          |
| 157 EQUIPPED SPACE 159 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 832                                  | 0            | 832       | 7          |       | 2 15         | 12           |          | М            | EF-9                                                           | 158<br>160 |                  |                                                                               |          |
| 161 EQUIPPED SPACE 163 EQUIPPED SPACE                                                                     |                             |                     |           | 1                    | 0 800                                  | 7            |           | 0          | 180   | 1 20         |              |          | R<br>M       | RCPT - ROOF - AREA B<br>VAVs 501 thru 517                      | 162<br>164 |                  |                                                                               |          |
| 165 EQUIPPED SPACE<br>167 EQUIPPED SPACE                                                                  |                             |                     |           | 1                    |                                        | 0            | 1144      | 0          | 1144  | 2 20         |              |          | C            | CU 5-1/CRU 5-1                                                 | 166<br>168 |                  |                                                                               |          |
| 107 EQUITED STAGE                                                                                         |                             | TOTAL               | L LOAD (V | /A):                 | 45188 VA                               | 375          | 556 VA    | 42754 V    |       |              |              |          |              |                                                                | 100        |                  |                                                                               |          |
|                                                                                                           |                             | TOTAL               | L AMPS:   |                      | 383 A                                  | 3            | 13 A      | 363 A      | ١     |              |              |          |              |                                                                |            |                  |                                                                               |          |
| LOAD TYPE                                                                                                 |                             | DEMAND              | NEC DI    | EMAND                | PANELBOARD N                           | OTES         |           |            |       |              |              |          |              | PANELBOARD TOTALS                                              |            |                  |                                                                               |          |
| EXISTING LOAD (E)                                                                                         | 0 VA                        | FACTOR<br>100%      |           | VA                   |                                        |              |           |            |       |              |              |          |              | TOTAL CONNECTED LOAD 12                                        | 5498 VA    |                  |                                                                               |          |
| COOLING (C) HEATING (H)                                                                                   | 2288 VA<br>0 VA             | 100%<br>0%          | 0 /       | 88 VA<br>VA          |                                        |              |           |            |       |              |              |          |              |                                                                | 7091 VA    |                  |                                                                               |          |
| LIGHTING (L) RECEPTACLES (R)                                                                              | 0 VA<br>27900 VA            | 125%<br>68%         | 0 /       | VA<br>50 VA          | -                                      |              |           |            |       |              |              |          |              |                                                                | 348 A      |                  |                                                                               |          |
| MOTORS (M) SUPPLEMENTAL HEAT (U)                                                                          | 1496 VA<br>0 VA             | 100%<br>100%        | 1496      | 06 VA<br>VA          | _                                      |              |           |            |       |              |              |          |              | TOTAL NEC DEMAND CURRENT                                       | 242 A      |                  |                                                                               |          |
| MISC EQUIP (Z) REFRIGERATION (F)                                                                          | 6800 VA<br>0 VA             | 100%<br>100%        | 6800      | VA<br>VA             | -                                      |              |           |            |       |              |              |          |              |                                                                |            |                  |                                                                               |          |
| SIGN/DISPLAY (D)                                                                                          | 0 VA                        | 125%                |           | VA<br>VA             |                                        |              |           |            |       |              |              |          |              |                                                                |            |                  |                                                                               |          |
| KITCHEN (IX)                                                                                              | 05250 \ / ^                 | GEO/                |           | 77 \ / ^             |                                        |              |           |            |       |              |              |          |              |                                                                |            |                  |                                                                               |          |
| KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W)                                                                 | 85350 VA<br>1664 VA<br>0 VA | 65%<br>125%<br>125% | 2080      | 77 VA<br>80 VA<br>VA | _                                      |              |           |            |       |              |              |          |              |                                                                |            |                  |                                                                               |          |

| DANIEL BOADD CCUEDLLE MOTES LECEN |            |
|-----------------------------------|------------|
| PANELBOARD SCHEDULE NOTES LEGEN   | <b>)</b> : |

AF = ARC FAULT CIRCUIT INTERRUPTER.
C# = CIRCUIT VIA LIGHTING CONTACTOR #.
CL = CIRCUIT VIA CURRENT LIMITING DEVICE.
EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.
ETR = EXISTING TO REMAIN

REQUIRED.

EQUIPMENT GROUND BUS

EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.

ETR = EXISTING TO REMAIN

FA = RED/HANDLE-ON CLAMP.

GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).

GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).

HT# - PROVIDE HANDLE-TIE FOR MULTI-WIPE BRANCH CIRCUIT PER CODE

HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.

# DENOTES PHASES TO BE TIED.

IG = ISOLATED GROUND CIRCUIT.

L# = LIGHTING CONTROL SCHEME NUMBER.

LCK = HANDLE PAOLAMBE.

LCK = HANDLE PADLOCKABLE-OFF DEVICE.

LO = HANDLE-ON CLAMP.

N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT.

NB = PROVIDE NEW CIRCUIT BREAKER.

O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.

PS = POWER-SWITCHING CIRCUIT BREAKER.

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL.
SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM
WIRE SIZE.
ST = SHUNT TRIP CIRCUIT BREAKER.
VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

CURTIS A. OLDS

NUMBER
PE-2018036640

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON

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EXPIRES 12/31/2020

SUMMIT MIDDLE SCHOOL #4

1001 SE BAILEY ROAD LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE

10/08/20
REVISIONS
ADDENDUM 001 10/13/20
ADDENDUM 002 10/19/20

13-20102-00

ELECTRICAL
SCHEDULES

PANEL 2H2B

PANEL 2L2B PANEL 2C2B E6.4

| CKT<br>NO. | DESCRIPTION                                                  | NOTES LOAD TYPE |   | P BKR WIRE         | PHASE<br>C | ASE<br>B |      | ASE      | PHA    | BKR P           |            | LOAD N |                  | DESCRIPTION                                       |
|------------|--------------------------------------------------------------|-----------------|---|--------------------|------------|----------|------|----------|--------|-----------------|------------|--------|------------------|---------------------------------------------------|
| 2          | RCPT - B212 DESK/TV                                          |                 | _ | 1 20 12            |            |          |      | 1080     | 1080   | 20 1            | 12         | R      |                  | RCPT - B201 DESK/TV                               |
| 4          | RCPT - B212 STUDENT TV A                                     |                 |   | 1 20 12            |            | 360      | 1080 | 1000     | 1000   | 20 1            | 12         | R      |                  | RCPT - B203 DESK/TV                               |
| 6          | RCPT - B212 STUDENT DESK A-A                                 | R               |   | 1 20 12            | 1080 360   |          |      | Į        |        | 20 1            | 12         | R      |                  | RCPT - B204 DESK/TV                               |
| 8          | RCPT - B212 STUDENT DESK A-B                                 | R               |   | 1 20 12            |            | ı        |      | 360      | 720    | 20 1            | 12         | R      |                  | RCPT - B205 DESK/TV                               |
| 10         | RCPT - B212 STUDENT DESK A-C                                 |                 |   | 1 20 12            |            | 360      | 1080 |          |        | 20 1            | 12         | R      |                  | RCPT - B206 DESK/TV                               |
| 12         | RCPT - B212 STUDENT TV B                                     |                 |   | 1 20 12            | 1080 360   |          |      |          |        | 20 1            | 12         | R      |                  | RCPT - B208 DESK/TV                               |
| 14         | RCPT - B212 STUDENT DESK B-A                                 |                 |   | 1 20 12            | ·          |          |      | 360      | 1080   | 20 1            | 12         | R      |                  | RCPT - B209 DESK/TV                               |
| 16         | RCPT - B212 STUDENT DESK B-B                                 |                 |   | 1 20 12            |            | 360      | 720  |          |        | 20 1            | 12         | R      |                  | RCPT - B210 DESK/TV                               |
| 18         | RCPT - B212 STUDENT DESK B-C                                 |                 |   | 1 20 12            | 360 360    |          |      |          |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT TV                            |
| 20         | RCPT - B212 STUDENT TV C                                     |                 |   | 1 20 12            |            |          |      | 360      | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DE                            |
| 22         | RCPT - B212 STUDENT DESK C-A                                 | R               |   | 1 20 12            | 200        | 360      | 360  |          |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 24         | RCPT - B212 STUDENT DESK C-B                                 | R               |   | 1 20 12            | 360 360    |          |      | 000      | 000    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DE                            |
| 26         | RCPT - B212 STUDENT DESK C-C                                 |                 |   | 1 20 12            |            | 200      | 200  | 360      | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT TV                            |
| 28         | RCPT - B212 STUDENT TV D                                     |                 |   | 1 20 12            | 200 200    | 360      | 360  |          |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 30         | RCPT - B212 STUDENT DESK D-A<br>RCPT - B212 STUDENT DESK D-B |                 |   | 1 20 12            | 360 360    | l        |      | 360      | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 34         | RCPT - B212 STUDENT DESK D-B                                 | R               |   | 1 20 12<br>1 20 12 |            | 360      | 360  | 300      | 300    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES<br>RCPT - B210 STUDENT TV |
| 36         | RCPT - B212 STUDENT DESK E                                   | R               |   | 1 20 12            | 360 360    | 300      | 300  | Į        |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT TV                            |
| 38         | RCPT - B215 DESK/TV                                          | R               |   | 1 20 12            | 300 300    | Į        |      | 1080     | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 40         | RCPT - B216 DESK/TV                                          |                 | _ | 1 20 12            |            | 720      | 360  | 1000     | 300    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 42         | RCPT - B214 TV/ISLAND                                        |                 |   | 1 20 12            | 360 720    | 720      | 000  | Į        |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT TV                            |
| 44         | RCPT - B214 DESK                                             |                 |   | 1 20 12            | 000 120    | l        |      | 180      | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 46         | SPARE                                                        |                 |   | 1 20               |            | 0        | 360  | 100      | 000    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 48         | SPARE                                                        |                 |   | 1 20               | 360 0      |          |      | Į        |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DE                            |
| 50         | SPARE                                                        |                 |   | 1 20               | 010        | l        |      | 0        | 360    | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT TV                            |
| 52         | SPARE                                                        |                 |   | 1 20               |            | 0        | 360  | _        |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DES                           |
| 54         | SPARE                                                        |                 |   | 1 20               | 360 0      |          |      | Į        |        | 20 1            | 12         | R      |                  | RCPT - B210 STUDENT DE                            |
| 56         | SPARE                                                        |                 |   | 1 20               | !          | ı        |      | 0        | 360    |                 | 12         | R      | SK E-C           | RCPT - B210 STUDENT DE                            |
| 58         | SPARE                                                        |                 |   | 1 20               |            | 0        | 0    |          | '      | 20 1            |            |        |                  | SPARE                                             |
| 60         | SPARE                                                        |                 |   | 1 20               | 0 0        |          |      | •        |        | 20 1            |            |        |                  | SPARE                                             |
| 62         | SPARE                                                        |                 |   | 1 20               |            |          |      | 0        | 0      | 20 1            |            |        |                  | SPARE                                             |
| 64         | SPARE                                                        |                 |   | 1 20               |            | 0        | 0    |          |        | 20 1            |            |        |                  | SPARE                                             |
| 66         | SPARE                                                        |                 |   | 1 20               | 0 0        |          |      |          |        | 20 1            |            |        |                  | SPARE                                             |
| 68         | SPARE                                                        |                 |   | 1 20               |            |          |      | 0        | 0      | 20 1            |            |        |                  | SPARE                                             |
| 70         | SPARE                                                        |                 |   | 1 20               |            | 0        | 0    |          |        | 20 1            |            |        |                  | SPARE                                             |
| 72         | SPARE                                                        |                 |   | 1 20               | 0 0        |          |      | 0        | •      | 20 1            |            |        |                  | SPARE                                             |
| 74         | SPARE                                                        |                 |   | 1 20               |            |          |      | 0        | 0      | 20 1            |            |        |                  | SPARE                                             |
| 76         | EQUIPPED SPACE                                               |                 |   | 1                  | 0 0        | 0        | 0    |          |        | 1 1             |            |        |                  | EQUIPPED SPACE                                    |
| 78         | EQUIPPED SPACE EQUIPPED SPACE                                |                 |   | 1 1                | 0 0        |          |      | 0        | 0      | 1 1             |            |        |                  | EQUIPPED SPACE EQUIPPED SPACE                     |
| 80<br>82   | EQUIPPED SPACE                                               |                 |   | 1                  |            | 0        | 0    | 0        | U      | 1 1             |            |        |                  |                                                   |
| 84         | EQUIPPED SPACE                                               |                 |   | 1                  | 0 0        | U        | U    |          |        | 1 1             |            |        |                  | EQUIPPED SPACE EQUIPPED SPACE                     |
| 04         | LQUIFFED SFACE                                               |                 |   |                    |            |          |      |          |        | 1               |            |        |                  | EQUIFFED SPACE                                    |
|            |                                                              |                 |   |                    | 7560 VA    | 0 VA     | 7920 | ) VA     | 9540   | (VA):           | TOTAL LOAI |        |                  |                                                   |
|            |                                                              |                 |   |                    | 63 A       | 6 A      | 66   | Α        | 80     |                 | TOTAL AMP  |        |                  |                                                   |
|            | PANELBOARD TOTALS                                            |                 |   |                    |            |          | TES  | BOARD NO | PANELE | DEMAND          |            |        | CONNECTED        | AD TYPE                                           |
|            |                                                              |                 |   |                    |            |          |      |          |        |                 | CTOR       |        | LOAD             |                                                   |
| 5020 VA    | TOTAL CONNECTED LOAD 2                                       |                 |   |                    |            |          |      |          | _      | 0 VA            | 00%        |        | 0 VA             | STING LOAD (E)                                    |
|            |                                                              |                 |   |                    |            |          |      |          | 1      | 0 VA            | 0%         |        | 0 VA             | OLING (C)                                         |
| 7510 VA    | TOTAL NEC LOAD 1                                             |                 |   |                    |            |          |      |          | 4      | 0 VA            | 00%        |        | 0 VA             | ATING (H)                                         |
| 69 A       | TOTAL CONNECTED CURRENT                                      |                 |   |                    |            |          |      |          | 4      | 0 VA            | 25%        |        | 0 VA             | HTING (L)                                         |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 7510 VA<br>0 VA | 0%         |        | 25020 VA<br>0 VA | CEPTACLES (R)                                     |
| 49 A       | TOTAL NEC DEMAND CURRENT                                     |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 00%        |        | 0 VA             | TORS (M) PPLEMENTAL HEAT (U)                      |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 00%        |        | 0 VA             | SC EQUIP (Z)                                      |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 00%        |        | 0 VA             | FRIGERATION (F)                                   |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 25%        |        | 0 VA             | in/DISPLAY (D)                                    |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 25%        |        | 0 VA             | CHEN (K)                                          |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 25%        |        | 0 VA             | RGEST MOTOR                                       |
|            |                                                              |                 |   |                    |            |          |      |          | +      | 0 VA<br>0 VA    | 25%        |        | 0 VA             | OW WINDOW (W)                                     |
|            |                                                              |                 |   |                    |            |          |      |          | -      | 0 VA<br>0 VA    | 25%        |        | 0 VA             | ACK LIGHTING                                      |
|            | İ                                                            |                 |   |                    |            |          |      |          | 1      | UVA             | JU /0      | 10     | ı UVA            | TON LIGHTING                                      |

FAULT CURRENT: RE: ONE-LINE DIAGRAM

**FULLY RATED** 

SURFACE

FCA +10% MINIMUM

SECOND FLOOR - AREA B

AIC RATED:

AIC RATING:

MOUNTING:

SERVES:

| PANELBOARD: 2H1  BUS AMPS: 100A  MAIN SIZE/TYPE: 100A M.C.B.  VOLTS/PHASE: 480Y/277 V 3P/4V  SUPPLIED BY: DP-2H1C | , ,               |              |             |                          |       | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | ED:<br>ING:<br>::<br>NG: | FIRST FL<br>SURFAC | ATED<br>% MINIMU<br>_OOR - AR | M<br>EA C     |                |                       |                                        |      | EQUIPMENT G                                                                          | ROUND BUS                                       |
|-------------------------------------------------------------------------------------------------------------------|-------------------|--------------|-------------|--------------------------|-------|--------------------------------------------------------------|--------------------------|--------------------|-------------------------------|---------------|----------------|-----------------------|----------------------------------------|------|--------------------------------------------------------------------------------------|-------------------------------------------------|
| SUPPLIED BY. DP-2HTC                                                                                              |                   |              |             |                          |       | LOCATIO                                                      | JIV.                     | ELECTRI            | ICAL CTIO                     | ı             |                |                       |                                        |      | LINE-SIDE LUGS: M                                                                    | MECHANICAL                                      |
| CKT DESCRIPTION NO.                                                                                               |                   | LOAD<br>TYPE | NOTES       | WIRE BKR P<br>SIZE AMP   | PH    | IASE<br>A                                                    | PH                       | HASE<br>B          |                               | ASE<br>C      | P BKR<br>AMP   |                       | NOTES                                  | LOAD | DESCRIPTION                                                                          | CKT<br>NO.                                      |
| 1 LTG-C101-C107<br>3 LTG-C108, C109, C110                                                                         |                   | L Z<br>L Z   |             | 12 20 1<br>12 20 1       | 1178  | 448                                                          | 1303                     | 1217               | ]                             |               | 1 20<br>1 20   | 12<br>12              | EM<br>EM                               | L    | LTS-C10-C15 NL, EXIT SIGNS<br>LTS - CORR. C10-C15                                    | 2 4                                             |
| 5 LTG-C111,C11A,C112,C1<br>7 LTG-C114,C115,C115A-D                                                                | •                 | L Z<br>L     |             | 12 20 1<br>12 20 1       | 463   | 1263                                                         |                          |                    | 1963                          | 000           | 1 20<br>1 20   | 12<br>10              | EM<br>EM                               | L    | LTS-L. COMMONS C100A<br>LTS - EXTERIOR BUILDING MOUNT                                |                                                 |
| 9 LTG-C118,C120-C130(EV<br>11 LTG-C117,C118,C121-C12                                                              |                   | L            |             | 12 20 1<br>12 20 1       |       | 2505                                                         | 900                      | 3944               | 1478                          | 2375          | 1 20           | 10<br>OL              | EM                                     | L    | LTS - FRONT ENTRY CANOPY LTS - WEST PARKING LOT (EAST) LTS - WEST PARKING LOT (WEST) | 10                                              |
| 13 SPARE<br>15 SPARE<br>17 SPARE                                                                                  |                   |              |             | 20 1<br>20 1<br>20 1     | 0     | 2565                                                         | 0                        | 950                | 0                             | 477           | 1 20<br>1 20   | 0<br>0<br>0<br>0<br>0 | C#                                     | L    | LTG - WEST DRIVE (LCP1C)                                                             | 14<br>16<br>(P1C) 18                            |
| 19 SPARE<br>21 SPARE                                                                                              |                   |              |             | 20 1                     | 0     | 104                                                          | 0                        | 0                  | 7                             | 411           | $\frac{1}{20}$ |                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |      | LTG-EAST PEDESTRIAN PATH (LC<br>LTG-FLAGPOLES (LCP1C)<br>SPARE                       | $\frac{1}{2}$                                   |
| 23 SPARE<br>25 SPARE                                                                                              |                   |              |             | 20 1<br>20 1             | 0     | 0                                                            |                          |                    | 0                             |               | 1 20<br>1 20   |                       |                                        |      | SPARE<br>SPARE                                                                       | 24<br>26                                        |
| 27 SPARE 29 SPARE                                                                                                 |                   |              |             | 20 1 20 1                |       | 0070                                                         | 0                        | 0                  | 0                             | 0             | 1 20           | 2                     |                                        | 2    | SPARE                                                                                | $\begin{array}{c c} 28 \\ 30 \\ 22 \end{array}$ |
| 31 EQUIPPED SPACE 33 EQUIPPED SPACE 35 EQUIPPED SPACE                                                             |                   |              |             | 1 1                      | 0     | 8073                                                         | 0                        | 8073               | 0                             | 8073          | 3 35           | 8                     |                                        | M    | AHU-3 (SUPPLY)                                                                       | 32<br>34<br>36                                  |
| 37 EQUIPPED SPACE<br>39 EQUIPPED SPACE                                                                            |                   |              |             | 1 1                      | 0     | 2106                                                         | 0                        | 2106               | ]                             |               | 3 15           | 12                    |                                        | Z M  | FR-3 (RETURN) 1@5HP                                                                  | 40                                              |
| 41 EQUIPPED SPACE                                                                                                 |                   |              | TOTAL       | 1<br>LOAD (VA):          | 162   | 01 VA                                                        | 184                      | 194 VA             | 1702                          | 2106<br>29 VA |                |                       |                                        |      |                                                                                      | 42                                              |
|                                                                                                                   |                   |              | TOTAL       | AMPS:                    | 5     | 8 A                                                          | 6                        | 67 A               | 6                             | 2 A           |                |                       |                                        |      |                                                                                      |                                                 |
| LOAD TYPE                                                                                                         | CONNECTED<br>LOAD |              | MAND        | NEC DEMAND               | PANEL | BOARD N                                                      | OTES                     |                    |                               |               |                |                       |                                        |      | PANELBOARD TOTALS                                                                    |                                                 |
| EXISTING LOAD (E) COOLING (C)                                                                                     | 0 VA<br>0 VA      | 1            | 00%         | 0 VA<br>0 VA             |       |                                                              |                          |                    |                               |               |                |                       |                                        |      | TOTAL CONNECTED LOAD                                                                 | 51723 VA                                        |
| HEATING (H)<br>LIGHTING (L)                                                                                       | 0 VA<br>21144 VA  |              | 00%<br> 25% | 0 VA<br>26430 VA         |       |                                                              |                          |                    |                               |               |                |                       |                                        |      | TOTAL NEC LOAD                                                                       | 63064 VA                                        |
| RECEPTACLES (R) MOTORS (M)                                                                                        | 0 VA<br>6319 VA   |              | 0%          | 0 VA<br>6319 VA          |       |                                                              |                          |                    |                               |               |                |                       |                                        |      | TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT                                     | 62 A<br>76 A                                    |
| SUPPLEMENTAL HEAT (U) MISC EQUIP (Z)                                                                              | 0 VA<br>40 VA     | 1            | 00%         | 0 VA<br>40 VA            |       |                                                              |                          |                    |                               |               |                |                       |                                        |      |                                                                                      |                                                 |
| REFRIGERATION (F) SIGN/DISPLAY (D)                                                                                | 0 VA<br>0 VA      | 1            | 25%         | 0 VA<br>0 VA             |       |                                                              |                          |                    |                               |               |                |                       |                                        |      |                                                                                      |                                                 |
| KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W)                                                                         | 0 VA<br>24220 VA  | 1            | 25%         | 0 VA<br>30275 VA<br>0 VA |       |                                                              |                          |                    |                               |               |                |                       |                                        |      |                                                                                      |                                                 |
| SHOW WINDOW (W) TRACK LIGHTING                                                                                    | 0 VA<br>0 VA      |              | 25%<br> 00% | 0 VA<br>0 VA             |       |                                                              |                          |                    |                               |               |                |                       |                                        |      |                                                                                      |                                                 |

| BUS A<br>MAIN S<br>VOLTS | MPS: 225A SIZE/TYPE: 225A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: DP-2H1C VIA TX-2L1C |        |               |                        |                                              | FAULT (<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNT<br>LOCATIO | ING:<br>6:<br>NG: | FULLY R<br>FCA +10<br>FIRST FI<br>SURFAC | ATED<br>% MINIMU<br>_OOR - AR | M<br>EA C      |              |                   |          |              | EQUIPMENT G                                              | ROUND BUS            | BL<br>M/      | JS AN<br>AIN S<br>DLTS | ELBOARD<br>MPS: 150A<br>IZE/TYPE: 150A<br>/PHASE: 208Y/12<br>IED BY: DP-2H10 |
|--------------------------|-----------------------------------------------------------------------------------------|--------|---------------|------------------------|----------------------------------------------|-------------------------------------------------------------|-------------------|------------------------------------------|-------------------------------|----------------|--------------|-------------------|----------|--------------|----------------------------------------------------------|----------------------|---------------|------------------------|------------------------------------------------------------------------------|
| OLIT                     | DECODIDATION                                                                            |        | NOTES         | WIDE DVD               |                                              |                                                             | D. I              |                                          | 511                           | 405            | D DVD        | L <sub>uupe</sub> | NOTES    |              | LINE-SIDE LUGS: N                                        |                      |               | , <u> </u>             | DECODIBION                                                                   |
| CKT<br>NO.               | DESCRIPTION                                                                             | TYPE   |               | WIRE BKR  <br>SIZE AMP |                                              | HASE<br>A                                                   |                   | ASE<br>B                                 |                               | ASE<br>C       | AMP          | SIZE              | NOTES    | LOAD<br>TYPE | DESCRIPTION                                              | CKT<br>NO.           | C ł<br>N (    | D.                     | DESCRIPTION                                                                  |
| 1<br>3                   | RCPT - C101 GENERAL A<br>RCPT - C101 GENERAL B                                          | R<br>R |               | 12 20<br>12 20         |                                              | 1200                                                        | 720               | 900                                      | 7                             |                | 1 20         | 12<br>12          | GF       | K            | RCPT - C123 MICRO. COUNTER<br>RCPT - C123 REFRIGERATOR A | 2                    |               |                        | RCPT - C101 DE<br>RCPT - C106 DE                                             |
| 5                        | RCPT - C106 GENERAL A<br>RCPT - C107 GENERAL A                                          | R<br>R |               | 12 20<br>12 20         | 1                                            | 720                                                         | 7                 | 1                                        | 1080                          | 900            | 1 20         | 12<br>12          | GF       | K            | RCPT - C123 REFRIGERATOR B<br>RCPT - C123 GENERAL        | 6 8                  |               |                        | RCPT - C107 DE<br>RCPT - C108 DE                                             |
| 9                        | RCPT - C107 GENERAL B                                                                   | R      |               | 12 20                  | 1                                            | 120                                                         | 540               | 720                                      |                               |                | 1 20         | 12                |          | R            | RCPT - C123 AC                                           | 10                   | _             | 9                      | RCPT - C109 DE                                                               |
|                          | RCPT - C108 GENERAL A<br>RCPT - C108 GENERAL B                                          | R<br>R |               | 12 20<br>12 20         |                                              | 900                                                         | 7                 |                                          | 540                           | 900            | 1 20         | 12<br>12          | GF<br>GF | K Z<br>K     | RCPT - C123 DISPOSAL<br>RCPT - C123 MICRO. CABINET       | 12<br>14             | <u>  1</u>    |                        | RCPT - C115, C <sup>2</sup><br>RCPT - C100B T                                |
| 15                       | RCPT - C109 GENERAL A                                                                   | R<br>R |               | 12 20                  | 1                                            | -1                                                          | 900               | 360                                      | 540                           | 1260           | 1 20         | 12                |          | R            | RCPT-C100C<br>RCPT - CLOCKS LVL 1 C                      | 16                   |               | 5                      | SPARE<br>SPARE                                                               |
| 19                       | RCPT - C190 GENERAL B<br>RCPT - OFFICE C128,C130, C131                                  | R      |               | 12 20<br>12 20         | 1 1260                                       | 150                                                         |                   |                                          | 540                           | 1260           | 1 20<br>1 20 | 12<br>12          |          | R<br>Z       | PWR - DOOR HARDWARE (C10/C1                              |                      | 1 1           | 9                      | RCPT - C113 DE                                                               |
| 21<br>23                 | RCPT - OFFICE C122, C126<br>RCPT - OFFICE C124                                          | R<br>R |               | 12 20<br>12 20         |                                              |                                                             | 1260              | 100                                      | 720                           | 0              | 1 20         | 12                |          | Z            | PWR - DOOR HARDWARE (C12/C17<br>SPARE                    | 10.2) 22             | $\frac{1}{2}$ |                        | RCPT - C112 DE<br>RCPT - C111 DE                                             |
| 25                       | RCPT - OFFICE C118, C120                                                                | R      |               | 12 20                  | 1 1080                                       | 0                                                           | 1000              | 0                                        | 7                             | <u>-</u>       | 1 20         |                   |          |              | SPARE                                                    | 26                   | 2             | 25                     | RCPT - C118, C1                                                              |
|                          | RCPT - CONFRENCE C117<br>RCPT - C119 GENERAL B                                          | R<br>R |               | 12 20<br>12 20         | 1                                            |                                                             | 1080              | 0                                        | 360                           | 0              | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 28<br>30             | 2             | :9                     | RCPT - C129, C1<br>RCPT - C128, C1                                           |
| 31<br>33                 | RCPT - C119 GENERAL<br>RCPT - C119, C123 GENERAL                                        | R<br>R |               | 12 20<br>12 20         |                                              | 0                                                           | 540               | 0                                        | 7                             |                | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 32<br>34             | 3             |                        | RCPT - C125, C1<br>SPARE                                                     |
| 35                       | RCPT - C119 COPIER                                                                      | Z      |               | 12 20                  | 1                                            |                                                             | 7                 |                                          | 1500                          | 0              | 1 20         |                   |          |              | SPARE                                                    | 36                   | 3             | 55                     | SPARE                                                                        |
| 37<br>39                 | RCPT - C129A GENERAL<br>RCPT - C125, C129 GENERAL                                       | R<br>R |               | 12 20<br>12 20         |                                              | 0                                                           | 1080              | 0                                        | 7                             |                | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 38<br>40             | 3             |                        | SPARE<br>SPARE                                                               |
| 41                       | RCPT - C121, C127 CONV<br>RCPT - CORRIDORS C10, C11, C12, C1                            | R      |               | 12 20                  | 1                                            | 0                                                           | 7                 | 1                                        | 360                           | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 42<br>44             | 4             | .1                     | SPARE<br>SPARE                                                               |
|                          | RCPT - C100A, C100B GENERAL                                                             | R      |               | 12 20<br>12 20         | 1                                            | 0                                                           | 900               | 0                                        |                               |                | 1 20<br>1 20 |                   |          |              | SPARE                                                    | 44                   | 4             | .5                     | SPARE                                                                        |
| 47<br>49                 | RCPT - C100B QUADS<br>RCPT - C115A GENERAL                                              | R<br>R |               | 12 20<br>12 20         |                                              | 0                                                           | 7                 |                                          | 540                           | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 48<br>50             | 4             |                        | SPARE<br>SPARE                                                               |
| 51                       | RCPT - C115B, C115C GENERAL                                                             | R      |               | 12 20                  | 1                                            | , ,                                                         | 900               | 0                                        | F.10                          |                | 1 20         |                   |          |              | SPARE                                                    | 52                   | 5             | 1                      | SPARE                                                                        |
|                          | RCPT - C115 GENERAL<br>RCPT - C115 MICROWAVE                                            | R<br>K | GF            | 12 20<br>12 20         |                                              | 0                                                           |                   |                                          | 540                           | 0              | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 54<br>56             |               |                        | SPARE<br>EQUIPPED SPA                                                        |
| 57                       | RCPT - RESTROOMS/CUSTODIAL<br>RCPT - C113 GENERAL                                       | R      |               | 12 20<br>12 20         | 1                                            | -                                                           | 1080              | 0                                        | 1080                          | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 58<br>60             | 5             | 7                      | EQUIPPED SPA                                                                 |
| 61                       | RCPT - C113 QUADS A                                                                     | R      |               | 12 20                  | 1 1080                                       | 0                                                           |                   |                                          | 1000                          | <sub>l</sub> U | 1 20         | <u> </u>          |          |              | SPARE                                                    | 62                   | 6             | 51                     | EQUIPPED SPA                                                                 |
|                          | RCPT - C113 QUADS B<br>RCPT - C112 GENERAL                                              | R<br>R |               | 12 20<br>12 20         |                                              |                                                             | 1440              | 0                                        | 1080                          | 0              | 1 20         | 1                 |          |              | SPARE<br>SPARE                                           | 64<br>66             | 6             |                        | EQUIPPED SPACEQUIPPED SPACE                                                  |
| 67                       | RCPT - C112 QUADS A                                                                     | R      |               | 12 20                  | 1 720                                        | 0                                                           | 4000              |                                          | 7                             |                | 1 20         |                   |          |              | SPARE                                                    | 68                   | 6             | 57                     | EQUIPPED SPA                                                                 |
| 69<br>71                 | RCPT - C112 QUADS B<br>RCPT - C111 GENERAL                                              | R<br>R |               | 12 20<br>12 20         |                                              |                                                             | 1080              | 0                                        | 1080                          | 0              | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 70<br>72             | 7             | 1                      | EQUIPPED SPACEQUIPPED SPACE                                                  |
| 73<br>75                 | RCPT - C111 QUADS A<br>RCPT - C111 QUADS B                                              | R<br>R |               | 12 20<br>12 20         |                                              | 0                                                           | 720               | 0                                        | 7                             |                | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 74<br>76             | 7             |                        | EQUIPPED SPACEQUIPPED SPACE                                                  |
| 77                       | RCPT - C111A REFRIGERATOR                                                               | K      | GF            | 12 20                  | 1                                            |                                                             | 720               | 0                                        | 1000                          | 0              | 1 20         |                   |          |              | SPARE                                                    | 78                   | 7             | 7                      | EQUIPPED SPA                                                                 |
|                          | RCPT - C111A QUADS A<br>RCPT - C111A ICE MACHINE                                        | R      | GF            | 12 20<br>12 20         |                                              | 0                                                           | 1000              | 0                                        | 7                             |                | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 80<br>82             | 7 8           |                        | EQUIPPED SPACEQUIPPED SPACE                                                  |
| 83                       | RCPT-C111A<br>FUME HOOD C111A                                                           | R      |               | 12 20                  | 1                                            | 0                                                           | 7                 | 1                                        | 720                           | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 84                   | 8             |                        | EQUIPPED SPA                                                                 |
| 85<br>87                 | RCPT-EWC COR. C11                                                                       | Z<br>K | GF            | 12 20<br>12 20         | 1                                            | 0                                                           | 600               | 0                                        |                               |                | 1 20<br>1 20 |                   |          |              | SPARE                                                    | 86<br>88             |               |                        |                                                                              |
| 89<br>91                 | RCPT-TERSANO C105<br>RCPT - C116 ELECTRICAL                                             | R<br>R |               | 12 20<br>12 20         |                                              | 0                                                           | 7                 |                                          | 180                           | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 90<br>92             |               |                        |                                                                              |
| 93                       | RECEPTACLES                                                                             | R      |               | 20                     | 1                                            |                                                             | 360               | 0                                        |                               |                | 1 20         |                   |          |              | SPARE                                                    | 94                   |               | )AD T                  | YPE                                                                          |
| 95<br>97                 | SPARE<br>SPARE                                                                          |        |               | 20 20                  |                                              | 0                                                           |                   |                                          | 0                             | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 96<br>98             | E             | (ISTII                 | NG LOAD (E)                                                                  |
| 99<br>101                | SPARE<br>SPARE                                                                          |        |               | 20 20                  |                                              |                                                             | 0                 | 0                                        | 0                             | 0              | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 100<br>102           | C             | OOLI                   | NG (C)<br>IG (H)                                                             |
| 103                      | SPARE                                                                                   |        |               | 20                     | 1 0                                          | 0                                                           |                   |                                          |                               |                | 1 20         |                   |          |              | SPARE                                                    | 104                  | LIC           | GHTII                  | NG (L)                                                                       |
| 105<br>107               | SPARE<br>SPARE                                                                          |        |               | 20 20                  |                                              |                                                             | 0                 | 0                                        | 0                             | 0              | 1 20         |                   |          |              | SPARE<br>SPARE                                           | 106<br>108           |               |                        | TACLES (R)<br>RS (M)                                                         |
| 109                      | SPARE<br>SPARE                                                                          |        |               | 20 20                  | 1 0                                          | 0                                                           | 0                 | 0                                        | 7                             | 1              | 1 20<br>1 20 |                   |          |              | SPARE<br>SPARE                                           | 110<br>112           | St            | JPPL                   | EMÈNTAL HEAT                                                                 |
| 113                      | SPARE                                                                                   |        |               | 20                     | 1                                            |                                                             |                   | 0                                        | 0                             | 0              | 1 20         |                   |          |              | SPARE                                                    | 114                  |               |                        | QUIP (Z)<br>SERATION (F)                                                     |
| 115<br>117               | SPARE<br>EQUIPPED SPACE                                                                 |        |               | 20                     |                                              | 0                                                           | 0                 | 0                                        | 7                             |                | 1            | 1                 |          |              | EQUIPPED SPACE EQUIPPED SPACE                            | 116<br>118           |               |                        | ISPLAY (D)<br>N (K)                                                          |
| 119                      | EQUIPPED SPACE                                                                          |        |               |                        | '                                            | 0                                                           |                   | -                                        | 0                             | 0              | 1            |                   |          |              | EQUIPPED SPACE                                           | 120                  | LA            | RGE                    | ST MOTOR                                                                     |
| 123                      | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | 1 0<br>1                                     | 0                                                           | 0                 | 0                                        |                               |                | 1            |                   |          |              | EQUIPPED SPACE EQUIPPED SPACE                            | 122<br>124           |               |                        | WINDOW (W)<br>LIGHTING                                                       |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | •                                            | 0                                                           | 7                 |                                          | 0                             | 0              | 1            |                   |          |              | EQUIPPED SPACE EQUIPPED SPACE                            | 126<br>128           |               |                        |                                                                              |
| 129                      | EQUIPPED SPACE                                                                          |        |               |                        | <u>.                                    </u> |                                                             | 0                 | 0                                        |                               |                | 1            |                   |          |              | EQUIPPED SPACE                                           | 130                  |               |                        |                                                                              |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | 1 0                                          | 150                                                         | 7                 |                                          | 0                             | 0              | 1 20         | 12                |          | Z            | EQUIPPED SPACE PWR-C110 MOTORIZED DAMPER                 | 132<br>134           |               |                        |                                                                              |
| 135                      | EQUIPPED SPACE                                                                          |        |               |                        | 1                                            |                                                             | 0                 | 696                                      |                               | 400            | 1 20         | 12                |          | М            | RHWP-3                                                   | 136                  |               |                        |                                                                              |
| 139                      | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | 1 0                                          | 100                                                         |                   |                                          | 0                             | 400            | 1 20<br>1 20 | 12<br>12          |          | Z            | PWR-SECURITY PANEL PWR-MAG DOOR HOLDS C19                | 138<br>140           |               |                        |                                                                              |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | 1                                            |                                                             | 0                 | 100                                      | 0                             | 360            | 1 20<br>1 20 | 12<br>12          | FA       | Z            | PWR-MAG DOOR HOLDS C18<br>FACP                           | 142<br>144           |               |                        |                                                                              |
| 145                      | EQUIPPED SPACE                                                                          |        |               |                        |                                              | 360                                                         |                   | 500                                      | 7                             |                | 1 20         | 12                | FA       | Z            | FIRE ALARM PANEL - RPS                                   | 146                  |               |                        |                                                                              |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        | <u>1                                    </u> |                                                             | 0                 | 500                                      | 0                             | 500            | 1 20         | 12<br>12          | FA       | Z            | PWR - FIRE ALARM PANEL PWR-LCP1C                         | 148<br>150           |               |                        |                                                                              |
| 151                      | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        |                                              | 100                                                         | 0                 | 180                                      |                               |                | 1 20<br>1 20 | 12<br>12          |          | Z<br>R       | PWR-MECH CONTROL PANEL<br>RCPT - C110 MECHANICAL         | 152<br>154           |               |                        |                                                                              |
| 155                      | EQUIPPED SPACE                                                                          |        |               |                        | 1                                            |                                                             |                   | 100                                      | 0                             | 100            | 1 20         | 12                |          | Z            | EPO/CONTACTOR                                            | 156                  |               |                        |                                                                              |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        |                                              | 68                                                          | 0                 | 900                                      |                               |                | 1 20<br>1 20 | 12<br>12          |          | Z M<br>M     | WH5, WH6, RP3<br>VAVs 301 thru 323                       | 158<br>160           |               |                        |                                                                              |
| 161                      | EQUIPPED SPACE                                                                          |        |               |                        | 1                                            |                                                             |                   | _ 500                                    | 0                             | 1144           | 2 30         | 10                |          | C            | CU-7/CR-7                                                | 162                  |               |                        |                                                                              |
|                          | EQUIPPED SPACE EQUIPPED SPACE                                                           |        |               |                        |                                              | 1144                                                        | 0                 | 1144                                     |                               |                | 2 30         | 10                |          | С            | CU-8/CR-8                                                | 164<br>166           |               |                        |                                                                              |
|                          | EQUIPPED SPACE                                                                          |        |               |                        | 1                                            |                                                             | -                 |                                          | 0                             | 1144           |              |                   |          |              |                                                          | 168                  |               |                        |                                                                              |
|                          |                                                                                         |        |               | LOAD (VA):             |                                              | 171 VA                                                      |                   | 00 VA                                    |                               | 28 VA          |              |                   |          |              |                                                          |                      |               |                        |                                                                              |
|                          |                                                                                         |        | TOTAL         | AMPS:                  | 1                                            | 61 A                                                        | 16                | 6 A                                      | 15                            | 0 A            |              |                   |          |              |                                                          |                      |               |                        |                                                                              |
| LOAD                     |                                                                                         |        | EMAND         | NEC DEMAN              | ID PANE                                      | LBOARD N                                                    | OTES              |                                          |                               |                |              |                   |          |              | PANELBOARD TOTALS                                        |                      |               |                        |                                                                              |
|                          | ING LOAD (E) LOAD 0 VA                                                                  | F      | ACTOR<br>100% | 0 VA                   |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              | TOTAL COMMENTED LOAD                                     | 56600 \/^            |               |                        |                                                                              |
| COOL                     | ING (C) 4576 VA<br>NG (H) 0 VA                                                          |        | 100%          | 4576 VA<br>0 VA        |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              | TOTAL CONNECTED LOAD  TOTAL NEC LOAD                     | 56600 VA<br>40464 VA |               |                        |                                                                              |
| LIGHT                    | ING (L) 0 VA                                                                            |        | 125%          | 0 VA                   |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              | TOTAL NEC LOAD  TOTAL CONNECTED CURRENT                  | 157 A                |               |                        |                                                                              |
|                          | PTACLES (R) 37440 VA<br>RS (M) 958 VA                                                   |        | 63%<br>100%   | 23720 VA<br>958 VA     |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              | TOTAL CONNECTED CURRENT                                  | 157 A<br>112 A       |               |                        |                                                                              |
| SUPPL                    | LEMENTAL HEAT (U) 0 VA                                                                  |        | 100%          | 0 VA                   |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              | TO THE NEW DEWINID OUNTENT                               | 1147                 |               |                        |                                                                              |
| REFRI                    | EQUIP (Z) 5530 VA<br>IGERATION (F) 0 VA                                                 |        | 100%<br>100%  | 5530 VA<br>0 VA        |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              |                                                          |                      |               |                        |                                                                              |
| SIGN/[                   | DISPLAY (D) 0 VA<br>EN (K) 7400 VA                                                      |        | 125%<br>65%   | 0 VA<br>4810 VA        |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              |                                                          |                      |               |                        |                                                                              |
|                          | EST MOTOR 696 VA                                                                        |        | 125%          | 870 VA                 |                                              |                                                             |                   |                                          |                               |                |              |                   |          |              |                                                          |                      |               |                        |                                                                              |
|                          | / WINDOW (W) 0 VA                                                                       | 1      | 125%          | 0 VA                   | 1                                            |                                                             |                   |                                          |                               |                |              |                   |          |              |                                                          |                      | 1             |                        |                                                                              |

| BUS A<br>MAIN<br>VOLT | NELBOARD: 2C1  AMPS: 150A  SIZE/TYPE: 150A M.C.B.  S/PHASE: 208Y/120 V 3P/4V  PLIED BY: DP-2H1C VIA TX-2 | N            |               |              |          |              |         | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | ED:<br>ING:<br>S:<br>ING: | FULLY F<br>FCA +10<br>FIRST F<br>SURFAC | % MINIMUM<br>_OOR - ARE |      |       |          |         |      | EQUIPMENT GROU<br>200% N<br>LINE-SIDE LUGS: MEC | NEUTRA |
|-----------------------|----------------------------------------------------------------------------------------------------------|--------------|---------------|--------------|----------|--------------|---------|--------------------------------------------------------------|---------------------------|-----------------------------------------|-------------------------|------|-------|----------|---------|------|-------------------------------------------------|--------|
| CKT                   | DESCRIPTION                                                                                              |              | LOAD          | NOTES        | WIRE     | BKR          | P P     | HASE                                                         | PH                        | ASE                                     | PHA                     | SE   | P BKR | WIRE     | NOTES I | OAD  | DESCRIPTION                                     | CK.    |
| ١٥.                   |                                                                                                          |              | TYPE          |              | SIZE     |              |         | A                                                            |                           | В                                       | С                       |      | AMP   |          | -       | ГҮРЕ |                                                 | NO     |
| 1<br>3                | RCPT - C101 DESK/TV<br>RCPT - C106 DESK/TV                                                               |              | R<br>R        |              | 12<br>12 | 20<br>20     |         | 360                                                          | 720                       | 720                                     | 7                       |      | 1 20  | 12<br>12 |         |      | RCPT - C129A FLOOR BOX/TV<br>RCPT-C118 DESK/TV  | 2      |
| 5                     | RCPT - C107 DESK/TV                                                                                      |              | R             |              | 12       | 20           |         |                                                              | 120                       | 120                                     | 1080                    | 1080 | 1 20  | 12       |         |      | RCPT-C117 FLOOR BOXES/TV                        | 6      |
| 7                     | RCPT - C108 DESK/TV                                                                                      |              | R             |              | 12       | 20           | 1 1080  | 1080                                                         |                           |                                         | _                       |      | 1 20  | 12       |         |      | RCPT - C125 DESKS                               | 3      |
| 9                     | RCPT - C109 DESK/TV                                                                                      | 140          | R             | 0.5          | 12       | 20           |         |                                                              | 1080                      | 360                                     | 700                     | 0.00 | 1 20  | 12       |         |      | RCPT - C114 IT A                                | 1      |
| 11<br>13              | RCPT - C115, C115B DES                                                                                   | KS           | R<br>R        | GF           | 12<br>12 | 20<br>20     |         | 360                                                          | 7                         |                                         | 720                     | 360  | 1 20  | 12<br>12 |         |      | RCPT - C114 IT B<br>RCPT - C114 IT C            | 1.     |
| 15                    | SPARE                                                                                                    |              | K             |              | 12       | 20           | 1 720   | 300                                                          | 0                         | 360                                     | 7                       |      | 1 20  | 12       |         |      | RCPT - C114 IT D                                | 1      |
| 17                    | SPARE                                                                                                    |              |               |              |          | 20           | 1       |                                                              |                           | 1 000                                   | 0                       | 0    | 1 20  |          |         |      | SPARE                                           | 1      |
| 19                    | RCPT - C113 DESK/TV                                                                                      |              | R             |              | 12       | 20           | 1 720   | 0                                                            |                           |                                         | ¬                       |      | 1 20  |          |         |      | SPARE                                           | 2      |
| 21                    | RCPT - C112 DESK/TV                                                                                      |              | R             |              | 12       | 20           |         |                                                              | 720                       | 0                                       | 700                     |      | 1 20  |          |         |      | SPARE                                           | 2      |
| 23<br>25              | RCPT - C111 DESK/TV<br>RCPT - C118, C120, C122                                                           | C124 CDII    | R<br>R        |              | 12<br>12 | 20           |         | 0                                                            | 7                         |                                         | 720                     | 0    | 1 20  |          |         |      | SPARE<br>SPARE                                  | 2      |
| 25<br>27              | RCPT - C118, C120, C122<br>RCPT - C129, C131 CPU                                                         | , G 124 GPU  | R             |              | 12       | 20<br>20     |         | l U                                                          | 1080                      | 0                                       | 7                       |      | 1 20  |          |         |      | SPARE                                           | 2      |
| 21<br>29              | RCPT - C129, C131 CPU                                                                                    |              | R             |              | 12       | 20           |         |                                                              | 1000                      |                                         | 1080                    | 0    | 1 20  |          |         |      | SPARE                                           | 3      |
| 31                    | RCPT - C125, C126 CPU                                                                                    |              | R             |              | 12       | 20           | 1 1080  | 0                                                            |                           |                                         |                         |      | 1 20  |          |         |      | SPARE                                           | 3      |
| 33                    | SPARE                                                                                                    |              |               |              |          | 20           |         |                                                              | 0                         | 0                                       |                         |      | 1 20  |          |         |      | SPARE                                           | 3      |
| 35                    | SPARE                                                                                                    |              |               |              |          |              | 1       |                                                              | 7                         |                                         | 0                       | 0    | 1 20  |          |         |      | SPARE                                           | 3      |
| 37<br>39              | SPARE<br>SPARE                                                                                           |              |               |              |          | 20           |         | 0                                                            | 0                         | 0                                       | 7                       |      | 1 20  |          |         |      | SPARE<br>SPARE                                  | 3      |
| 39<br>41              | SPARE                                                                                                    |              |               |              |          | 20<br>20     |         |                                                              |                           | 0                                       | 0                       | 0    | 1 20  |          |         |      | SPARE                                           | 4      |
| 43                    | SPARE                                                                                                    |              |               |              |          | 20           |         | 0                                                            |                           |                                         | 0                       |      | 1 20  |          |         |      | SPARE                                           | 4      |
| 45                    | SPARE                                                                                                    |              |               |              |          | 20           |         |                                                              | 0                         | 0                                       |                         |      | 1 20  |          |         |      | SPARE                                           | 4      |
| 47                    | SPARE                                                                                                    |              |               |              |          | 20           | 1       |                                                              | _                         |                                         | 0                       | 0    | 1 20  |          |         |      | SPARE                                           | 4      |
| 49                    | SPARE                                                                                                    |              |               |              |          | 20           |         | 0                                                            |                           |                                         | ¬                       |      | 1 20  |          |         |      | SPARE                                           | 5      |
| <u>51</u>             | SPARE                                                                                                    |              |               |              |          | 20           |         |                                                              | 0                         | 0                                       | 0                       |      | 1 20  |          |         |      | SPARE                                           | 5      |
| 53<br>55              | SPARE<br>EQUIPPED SPACE                                                                                  |              |               |              |          | 20           | 1 0     | 0                                                            | ٦                         |                                         | 0                       | 0    | 1 20  |          |         |      | SPARE<br>EQUIPPED SPACE                         | 5      |
| 57                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              | 0                         | 0                                       |                         |      | 1     |          |         |      | EQUIPPED SPACE                                  | 5      |
| 59                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              |                           |                                         | 0                       | 0    | 1     |          |         |      | EQUIPPED SPACE                                  | 6      |
| 61                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1 0     | 0                                                            |                           |                                         |                         |      | 1     |          |         |      | EQUIPPED SPACE                                  | 6      |
| 63                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              | 0                         | 0                                       |                         |      | 1     |          |         |      | EQUIPPED SPACE                                  | 6      |
| 65                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1 0     |                                                              | 7                         |                                         | 0                       | 0    | 1     |          |         |      | EQUIPPED SPACE                                  | 6      |
| 67<br>69              | EQUIPPED SPACE EQUIPPED SPACE                                                                            |              |               |              |          |              | 1 0     | 0                                                            | 0                         | 0                                       | ٦                       |      | 1     |          |         |      | EQUIPPED SPACE EQUIPPED SPACE                   | 7      |
| 71                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              |                           |                                         | 0                       | 0    | 1     |          |         |      | EQUIPPED SPACE                                  | 7      |
| 73                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1 0     | 0                                                            |                           |                                         |                         |      | 1     |          |         |      | EQUIPPED SPACE                                  | 7      |
| 75                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       | '                                                            | 0                         | 0                                       |                         |      | 1     |          |         |      | EQUIPPED SPACE                                  | 7      |
| 77                    | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              | _                         |                                         | 0                       | 0    | 1     |          |         |      | EQUIPPED SPACE                                  | 7      |
| 79                    | EQUIPPED SPACE EQUIPPED SPACE                                                                            |              |               |              |          |              | 1 0     | 0                                                            |                           | 0                                       | ٦                       |      | 1     |          |         |      | EQUIPPED SPACE                                  | 8      |
| 81<br>83              | EQUIPPED SPACE                                                                                           |              |               |              |          |              | 1       |                                                              | 0                         | 0                                       | 0                       | 0    | 1     |          |         |      | EQUIPPED SPACE EQUIPPED SPACE                   | 8      |
| 00                    | EQUITED OF NOE                                                                                           |              |               |              |          | () ( ) )     | -       | 2001/4                                                       |                           | 0.144                                   | -                       |      | 1     |          |         |      | EQUITED OF NOL                                  |        |
|                       |                                                                                                          |              |               | TOTAL        |          | (VA):        |         | 200 VA                                                       |                           | AV 0                                    | 5040                    |      |       |          |         |      |                                                 |        |
| _                     |                                                                                                          |              |               | TOTAL        | AMPS:    |              |         | 60 A                                                         | 4                         | 2 A                                     | 42                      | Α    |       |          |         |      |                                                 |        |
| OAD                   | TYPE                                                                                                     | CONNECTED    | DI            | EMAND        | NEC      | DEMA         | ND PANE | ELBOARD N                                                    | OTES                      |                                         |                         |      |       |          |         |      | PANELBOARD TOTALS                               |        |
|                       |                                                                                                          | LOAD         | F             | ACTOR        |          |              |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | TING LOAD (E)                                                                                            | 0 VA         |               | 100%         |          | O VA         |         |                                                              |                           |                                         |                         |      |       |          |         | -    | TOTAL CONNECTED LOAD 1                          | 7280 V |
|                       | LING (C)                                                                                                 | 0 VA<br>0 VA |               | 0%<br>100%   |          | O VA<br>O VA |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | TING (H)<br>TING (L)                                                                                     | 0 VA<br>0 VA |               | 125%         |          | 0 VA<br>0 VA |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 | 3640 V |
|                       | PTACLES (R)                                                                                              | 17280 VA     |               | 79%          |          | 640 VA       | <u></u> |                                                              |                           |                                         |                         |      |       |          |         |      | TOTAL CONNECTED CURRENT                         | 48 A   |
| IOTO                  | ORS (M)                                                                                                  | 0 VA         |               | 100%         |          | O VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      | TOTAL NEC DEMAND CURRENT                        | 38 A   |
| UPP                   | PLEMÈNTAL HEAT (U)                                                                                       | 0 VA         |               | 100%         |          | 0 VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | EQUIP (Z)                                                                                                | 0 VA         |               | 100%         |          | 0 VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | RIGERATION (F)<br>/DISPLAY (D)                                                                           | 0 VA         |               | 100%         |          | 0 VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | HEN (K)                                                                                                  | 0 VA<br>0 VA |               | 125%<br>100% |          | O VA<br>O VA |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | GEST MOTOR                                                                                               | 0 VA         |               | 125%         |          | 0 VA<br>0 VA |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | W WINDOW (W)                                                                                             | 0 VA         |               | 125%         |          | 0 VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      |                                                 |        |
|                       | K LIGHTING (                                                                                             | 0 VA         | $\overline{}$ | 100%         |          | O VA         |         |                                                              |                           |                                         |                         |      |       |          |         |      | · ·                                             |        |

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.

ETR = EXISTING TO REMAIN FA = RED/HANDLE-ON CLAMP.GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).

HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. # DENOTES PHASES TO BE TIED.
IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE.

LO = HANDLE-ON CLAMP. N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER.

REQUIRED.

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001 10/13/20 10/19/20 ADDENDUM 002

13-20102-00 ELECTRICAL SCHEDULES

PANEL 2H1C

PANEL 2L1C PANEL 2C1C

E6.5

| PANELBOARD: 2H2C<br>BUS AMPS: 100A<br>MAIN SIZE/TYPE: 100A M.C.B.<br>VOLTS/PHASE: 480Y/277 V 3P/4W<br>SUPPLIED BY: DP-2H1C | (NEW)           |              |                |              |                |             | FAULT C<br>AIC RATE<br>AIC RATE<br>SERVES:<br>MOUNTIN<br>LOCATIO | NG:<br>NG: | RE: ONE-<br>FULLY RA<br>FCA +10°<br>SECOND<br>SURFAC<br>ELEC C2 | ATED<br>6 MINIMU<br>FLOOR -<br>E | M        |              |                                                     |       |              | EQUIPMENT GR                                                                                                                                       |         |          |
|----------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|----------------|--------------|----------------|-------------|------------------------------------------------------------------|------------|-----------------------------------------------------------------|----------------------------------|----------|--------------|-----------------------------------------------------|-------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
|                                                                                                                            |                 |              |                |              |                |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              | LINE-SIDE LUGS: ME                                                                                                                                 | ECHANIC | AL       |
| CKT DESCRIPTION NO.                                                                                                        |                 | LOAD<br>TYPE | NOTES          | WIRE<br>SIZE | BKR P<br>AMP   | PH <i>A</i> | \SE<br>\                                                         | PHA<br>E   | ASE<br>3                                                        |                                  | ASE<br>C |              | R WIRE<br>P SIZE                                    | NOTES | LOAD<br>TYPE | DESCRIPTION                                                                                                                                        | C M     |          |
| 1 LTG-C201,C202,C212,C213                                                                                                  | ,C214           | L            |                | 12           | 20 1           | 1255        | 143                                                              |            |                                                                 |                                  |          | 1 20         | 12                                                  | EM    | L            | LTS - NL,EXIT SIGNS C20-C22                                                                                                                        | 2       | 2        |
| 3 LTG-C203,C204,C205                                                                                                       |                 | L            |                | 12           | 20 1           |             |                                                                  | 1288       | 534                                                             |                                  |          | 1 20         | 12                                                  | EM    | L            | LTS - CORR. C20-C22,C215                                                                                                                           |         | 4        |
| 5 LTG-C216,C217,C218,C219                                                                                                  |                 | L            |                | 12           | 20 1           |             |                                                                  | ı          |                                                                 | 2356                             | 840      | 1 20         | 12                                                  | EM    | L            | LTS-LEARNING COMMONS C200B                                                                                                                         |         | 6        |
| 7 LTG-C206,C207,C208,C209                                                                                                  | ,C215           | L            |                | 12           | 20 1           | 1092        | 1198                                                             | 774        | 000                                                             |                                  | -        | 1 20         | 12                                                  | EM    | L            | LTS-L.COMMONS CLERESTORY C20                                                                                                                       |         | 8        |
| 9 LTG-C210,C211<br>11 SPARE                                                                                                |                 | L            |                | 12           | 20 1<br>20 1   |             |                                                                  | 774        | 669                                                             | 0                                | 0        | 1 20<br>1 20 | 12                                                  | EM    | L            | LTS-STAIR C20A<br>SPARE                                                                                                                            |         | 10<br>12 |
| 11 SPARE<br>13 SPARE                                                                                                       |                 |              |                |              | 20 1           | 0           | 0                                                                | 1          |                                                                 | - 0                              |          | 1 20<br>1 20 |                                                     |       |              | SPARE                                                                                                                                              |         | 14       |
| 15 SPARE                                                                                                                   |                 |              |                |              | 20 1           | 0           | 0                                                                | 0          | 0                                                               |                                  | -        | 1 20         |                                                     |       |              | SPARE                                                                                                                                              |         | 16       |
| 17 SPARE                                                                                                                   |                 |              |                |              | 20 1           |             |                                                                  |            |                                                                 | 0                                | 0        | 1 20         |                                                     |       |              | SPARE                                                                                                                                              |         | 18       |
| 19 SPARE                                                                                                                   |                 |              |                |              | 20 1           | 0           | 0                                                                |            |                                                                 |                                  | _        | 1 20         |                                                     |       |              | SPARE                                                                                                                                              |         | 20       |
| 21 SPARE                                                                                                                   |                 |              |                |              | 20 1           |             |                                                                  | 0          | 0                                                               |                                  |          | 1 20         |                                                     |       |              | SPARE                                                                                                                                              | 2       | 22       |
| 23 SPARE                                                                                                                   |                 |              |                |              | 20 1           |             |                                                                  | 1          |                                                                 | 0                                | 0        | 1 20         |                                                     |       |              | SPARE                                                                                                                                              |         | 24       |
| 25 SPARE                                                                                                                   |                 |              |                |              | 20 1           | 0           | 300                                                              |            |                                                                 |                                  |          | _            |                                                     |       |              |                                                                                                                                                    |         | 26       |
| 27 SPARE                                                                                                                   |                 |              |                |              | 20 1           |             |                                                                  | 0          | 300                                                             |                                  |          | 3 15         | 12                                                  |       | M            | EF-22 (1/2HP)                                                                                                                                      |         | 28       |
| 29 SPARE                                                                                                                   |                 |              |                |              | 20 1           | 0           | E400                                                             | 1          |                                                                 | 0                                | 300      | ~~           | $\sqrt{2}$                                          |       | 1/2/         | $\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim\sim$ |         | 30       |
| 31 EQUIPPED SPACE 33 EQUIPPED SPACE                                                                                        |                 |              |                |              | 1              | 0           | 5100                                                             | 0          | 5100                                                            |                                  |          | 3 25         | 10                                                  |       | M            | AHU-6 (SUPPLY)                                                                                                                                     |         | 32<br>34 |
| 35 EQUIPPED SPACE                                                                                                          |                 |              |                |              | 1              |             |                                                                  | U          | 3100                                                            | 0                                | 5100     | <b>y</b> 23  | ₹ 10                                                |       |              | 4 @ 3HP                                                                                                                                            |         | 36       |
| 37 EQUIPPED SPACE                                                                                                          |                 |              |                |              | 1              | 0           | 2106                                                             |            |                                                                 |                                  | 3100     | <del>U</del> | <del>, )                                     </del> |       | 1            | <del></del>                                                                                                                                        |         | 38       |
| 39 EQUIPPED SPACE                                                                                                          |                 |              |                |              | 1              |             | 2100                                                             | 0          | 2106                                                            |                                  |          | 3 15         | 12                                                  |       | ZM           | RF-6 (RETURN) 1@5HP                                                                                                                                |         | 10       |
| 41 EQUIPPED SPACE                                                                                                          |                 |              |                |              | 1              |             |                                                                  |            |                                                                 | 0                                | 2106     |              |                                                     |       |              |                                                                                                                                                    |         | 12       |
|                                                                                                                            |                 |              | TOTAL L        | 040 (        | \/^\.          | 4440        | 4.1/4                                                            | 4077       | 4 \ / / ^                                                       | 407                              | )2 VA    |              |                                                     |       |              |                                                                                                                                                    |         |          |
|                                                                                                                            |                 |              | TOTALL         | .UAD (       | (VA):          | 1119        | 4 VA                                                             | 1077       | TVA                                                             | 1070                             | DZ VA    |              |                                                     |       |              |                                                                                                                                                    |         |          |
|                                                                                                                            |                 |              | TOTAL A        | MPS:         |                | 40          | Α                                                                | 39         | Α                                                               | 3:                               | 9 A      |              |                                                     |       |              |                                                                                                                                                    |         |          |
| LOAD TYPE                                                                                                                  | CONNECTED LOAD  |              | EMAND<br>ACTOR | NEC          | DEMAND         | PANELE      | BOARD NO                                                         | DTES       |                                                                 |                                  |          |              |                                                     |       |              | PANELBOARD TOTALS                                                                                                                                  |         |          |
| EXISTING LOAD (E)                                                                                                          | 0 VA            |              | 100%           |              | AV C           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              | TOTAL CONNECTED LOAD                                                                                                                               | 32668 V | /Δ       |
| COOLING (C)                                                                                                                | 0 VA            |              | 0%             |              | O VA           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| HEATING (H)                                                                                                                | 0 VA            |              | 100%           |              | O VA           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              | TOTAL NEC LOAD                                                                                                                                     | 39030 V | 'A       |
| LIGHTING (L)                                                                                                               | 10149 VA        |              | 125%           |              | 686 VA         |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              | TOTAL CONNECTED CURRENT                                                                                                                            | 39 A    |          |
| RECEPTACLES (R) MOTORS (M)                                                                                                 | 0 VA<br>7219 VA |              | 0%<br>100%     |              | 0 VA<br>:19 VA |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| SUPPLEMENTAL HEAT (U)                                                                                                      | 0 VA            |              | 100%           |              | ) VA           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              | TOTAL NEC DEMAND CURRENT                                                                                                                           | 47 A    |          |
| MISC EQUIP (Z)                                                                                                             | 0 VA            |              | 100%           |              | O VA           | -           |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| REFRIGERATION (F)                                                                                                          | 0 VA            |              | 100%           |              | O VA           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| SIGN/DISPLAY (D)                                                                                                           | 0 VA            |              | 125%           |              | O VA           | 1           |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| KITCHEN (K)                                                                                                                | 0 VA            |              | 100%           |              | AV C           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| LARGEST MOTOR                                                                                                              | 15300 VA        |              | 125%           |              | 125 VA         |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| SHOW WINDOW (W)                                                                                                            | 0 VA            |              | 125%           |              | O VA           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
| TRACK LIGHTING                                                                                                             | 0 VA            |              | 100%           | (            | AV C           |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |
|                                                                                                                            |                 |              |                |              |                |             |                                                                  |            |                                                                 |                                  |          |              |                                                     |       |              |                                                                                                                                                    |         |          |

AIC RATING: FCA +10% MINIMUM

AIC RATED: FULLY RATED

PANELBOARD: 2L2C (NEW)

BUS AMPS: 400A

| T          | DESCRIPTION                                 | LOAD          | NOTES          | WIRE B | BKR P                   | PHASE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | PHASE            | PHASE             | F    | BKR                | WIRE            | NOTES | LOAD      | LINE-SIDE LUGS: ME<br>DESCRIPTION             | СКТ                     |
|------------|---------------------------------------------|---------------|----------------|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|-------------------|------|--------------------|-----------------|-------|-----------|-----------------------------------------------|-------------------------|
| ).<br>I    | RCPT- C215,C215B GEN.                       | TYPE<br>R     |                | SIZE A | MP 20 1                 | A 1080 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | В                | С                 |      | AMP<br>1 20        | SIZE<br>12      |       | TYPE<br>R | RCPT-C211 AC,GEN                              | NO.<br>2                |
| 3          | RCPT- C23,C22,C24,C208 GEN.<br>RCPT-C23 EWC | R             | GF             | 12     | 20 1<br>20 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 126   | 0 720            | 600 7             | 20 1 | 1 20<br>1 20       | 12<br>12        |       | R         | RCPT-C211 GEN<br>RCPT-C210 GEN                | 4 6                     |
| 7          | RCPT-C207 AC,GEN                            | R             | OI .           | 12     | 20 1                    | 720 720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | 700              | 000   1           | 20   | 1 20               | 12              |       | R         | RCPT-C210 AC,GEN                              | 8                       |
| )<br>1     | RCPT-C207 GEN<br>RCPT-C206 AC,GEN           | R<br>R        |                | 12     | 20 1<br>20 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 720   | 720              | 900 3             | 60   | 1 20<br>1 20       | 12<br>12        |       | R<br>R    | RCPT-C219 AC,GEN<br>RCPT-C219 A               | 10                      |
| 3<br>5     | RCPT-C206 GEN<br>RCPT-C204 AC,GEN           | R<br>R        |                |        | 20 1<br>20 1            | 720 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 720   | 180              |                   |      | 1 20<br>1 20       | 12<br>12        |       | R<br>R    | RCPT-C219 B<br>RCPT-C219 C                    | 14<br>16                |
| 7          | RCPT-C204,GEN                               | R             |                | 12     | 20 1                    | 700 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | 100              | 720 1             | 30   | 1 20               | 12              |       | R         | RCPT-C219 D                                   | 18                      |
| 9<br>1     | RCPT-C203 GEN<br>RCPT-C203 AC,GEN           | R<br>R        |                | 12     | 20 1<br>20 1            | 720 360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 720   | 360              |                   | 1    | 1 20<br>1 20       | 12<br>12        |       | R<br>R    | RCPT-C219C GEN<br>RCPT-C219B GEN              | 20<br>22                |
| 3<br>5     | RCPT-C202 AC,GEN<br>RCPT-C202 GEN           | R<br>R        |                |        | 20 1<br>20 1            | 720 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                  | 720 3             | 60 1 | 1 20<br>1 20       | 12<br>12        |       | R         | RCPT-C219A GEN<br>RCPT - CLOCKS LVL 2 C       | 24<br>26                |
| 7<br>9     | RCPT-C201 GEN<br>RCPT-C201 AC,GEN           | R<br>R        |                |        | 20 1<br>20 1            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 720   | 1260             | 900 9             | 00 1 | 1 20<br>1 20       | 12<br>12        |       | R<br>R    | RCPT-C216 AC,GEN<br>RCPT-C216 GEN             | 28<br>30                |
| 1          | RCPT-C212 AC,GEN                            | R             |                | 12     | 20 1                    | 900 900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                  | 300   3           | 70   | 1 20               | 12              |       | R         | RCPT-C217C.C217B,C217A GEN                    | 32                      |
| 3<br>5     | RCPT-C212 GEN<br>RCPT-C20,C213,C214         | R<br>R        |                | 12     | 20     1       20     1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 720   | 0                | 720               | ) 1  | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 34<br>36                |
| 7 <u> </u> | RCPT-C213 TERSANO<br>RCPT-C20 GEN           | Z<br>R        |                |        | 20 1<br>20 1            | 500 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 720   | 0                |                   | 7    | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 38<br>40                |
| 1          | RCPT-C22, GEN<br>PWR - DOOR HARDWARE (C20.4 | R<br>I/C21) Z |                | 12     | 20 1<br>20 1            | 100 720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                  | 720               | ) 1  | 1 20<br>1 20       | 12              |       | R         | SPARE<br>RCPT-C217 GEN A                      | 42<br>44                |
| 5          | SPARE                                       | 7021) 2       |                |        | 20 1                    | 100   120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0     | 720              |                   | 7    | 1 20               | 12              |       | R         | RCPT-C217 GEN B                               | 46                      |
| 7 <u> </u> | SPARE SPARE                                 |               |                |        | 20 1<br>20 1            | 0 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                  | 0   7             | 20 1 | 1 20<br>1 20       | $\frac{12}{12}$ | ~~~   | Z         | PWR - C217 LCP2C                              | 777 <sup>48</sup><br>50 |
| l<br>3     | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 0                | 0                 | ) /  | 1 20<br>1 20       | سس              | mm    | سس        | SPARE SPARE                                   | <u>52</u>               |
| 5<br>7     | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                |                   | ,    | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 56<br>58                |
| )          | SPARE                                       |               |                |        | 20 1                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | U                | 0                 | ) /  | 1 20               |                 |       |           | SPARE                                         | 60                      |
| l          | SPARE SPARE                                 |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                |                   | 1    | 1 20<br>1 20       |                 |       |           | SPARE SPARE                                   | 62<br>64                |
| ;<br>,     | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | 0                 | ) 1  | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 66<br>68                |
| )          | SPARE                                       |               |                |        | 20 1                    | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0     | 0                | 0                 |      | 1 20               |                 |       |           | SPARE<br>SPARE                                | 70                      |
| 3          | SPARE<br>SPARE                              |               |                |        | 20 1                    | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | U                 | , ,  | 1 20               |                 |       |           | SPARE                                         | 72<br>74                |
| 7          | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 0                | 0                 | ) 1  | 1 20<br>1 20       |                 |       |           | SPARE SPARE                                   | 76<br>78                |
| )          | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                | '                 |      | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 80<br>82                |
| }          | SPARE                                       |               |                |        | 20 1                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  | 0                 | ) 1  | 1 20               |                 |       |           | SPARE                                         | 84                      |
| ;<br>,     | SPARE SPARE                                 |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                |                   | -    | 1 20<br>1 20       |                 |       |           | SPARE<br>SPARE                                | 86<br>88                |
| )<br>      | SPARE<br>SPARE                              |               |                |        | 20 1<br>20 1            | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | 0                 | ) 1  | 1 20<br>1 20       |                 |       |           | SPARE SPARE                                   | 90<br>92                |
| 5          | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0     | 0                | 0                 | ) 1  | 1                  |                 |       |           | EQUIPPED SPACE<br>EQUIPPED SPACE              | 94<br>96                |
| 7          | EQUIPPED SPACE                              |               |                |        | 1                       | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | 0                 | ,    | 1                  |                 |       |           | EQUIPPED SPACE                                | 98                      |
| )<br>1     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 0                | 0                 | ) 1  | 1<br>1             |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 100                     |
| 3<br>5     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                | ·                 | ,    | 1                  |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 104<br>106              |
| 7          | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | 0                 | ) 1  | 1                  |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 108<br>110              |
| 9          | EQUIPPED SPACE                              |               |                |        | 1                       | 0   0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0     | 0                |                   |      | 1                  |                 |       |           | EQUIPPED SPACE                                | 112                     |
| 3<br>5     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                  | 0                 | ) 1  | 1            <br>1 |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 114<br>116              |
| 7<br>9     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 0                | 0                 | ) 1  | 1                  |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 118<br>120              |
| 1<br>3     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     |                  |                   |      | 1                  |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 122                     |
| 5          | EQUIPPED SPACE                              |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 0                | 0                 | ) 1  | 1                  |                 |       |           | EQUIPPED SPACE                                | 126                     |
| 7<br>9     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0   0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0     | 0                |                   | 1    | 1<br>1             |                 |       |           | EQUIPPED SPACE EQUIPPED SPACE                 | 128<br>130              |
| 1<br>3     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                  | 0                 | ) 1  | 1<br>2 20          | 12              |       | М         | EQUIPPED SPACE<br>EF-12                       | 132<br>134              |
| 5          | EQUIPPED SPACE                              |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 790              | 0 1               |      |                    |                 |       |           |                                               | 136                     |
| 7<br>9     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |                  | 0   1             | 50 1 | 1 20               | 12<br>12        |       | Z<br>M    | PWR-C205 DAMPERS<br>RHWP-6                    | 138<br>140              |
| 1<br>3     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1 1                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 1000             | 0 4               | 00 1 | 1 20<br>1 20       | 12<br>12        |       | Z         | PWR-MAG DOOR HOLDERS PWR-C218 SECURITY PANEL  | 142<br>144              |
| 5<br>7     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0     | 360              |                   | ,    | 1 20<br>1 20       | 12<br>12        | FA    | R         | RCPT- C215A ELEC RM<br>FIRE ALARM RELAY PANEL | 146<br>148              |
| 9<br>1     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | , 555            | 0 1               | 30 1 | 1 20<br>1 20       | 12<br>12        |       | R         | RCPT-C205 MECH PWR - MECH CONTROL PANEL       | 150<br>152              |
| 3          | EQUIPPED SPACE                              |               |                |        | 1                       | U   500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0     | 540              |                   |      | 1 20               | 10              |       | R         | RCPT - ROOF - AREA C                          | 154                     |
| 5<br>7     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                  | 0   8             | 50 1 | 1 20<br>1 20       | 12<br>12        |       | M<br>M    | VAVs 601 thru 618<br>EF-10                    | 156<br>158              |
| 9          |                                             |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0     | 1500             | 0 11              | 44 2 | 1 20<br>2 30       | 12<br>10        |       | M<br>C    | EF-11<br>CU-9/CR-9                            | 160<br>162              |
| 3<br>5     | EQUIPPED SPACE EQUIPPED SPACE               |               |                |        | 1                       | 0 1144                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 0   | 1144             |                   |      | 2 30               | 10              |       | C         | CU-10/CR-10                                   | 164<br>166              |
| 5<br>7     | EQUIPPED SPACE                              |               |                |        | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 1144             | 0 11              | 44   | _ 30               | IU              |       |           |                                               | 168                     |
|            | I                                           |               | TOTAL A        | MPS:   |                         | 15450 VA<br>132 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | 4874 VA<br>127 A | 12388 VA<br>103 A |      |                    |                 |       |           |                                               |                         |
|            |                                             | LOAD F        | EMAND<br>ACTOR | NEC DE | EMAND                   | PANELBOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NOTES |                  |                   |      |                    |                 |       |           | PANELBOARD TOTALS                             |                         |
|            | ING LOAD (E)                                | 0 VA          | 100%           |        | VA<br>6 VA              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           | TOTAL CONNECTED LOAD                          | 42312 VA                |
| ΑТ         | ING (H)                                     | 0 VA          | 0%             | 0 /    | VA                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           | TOTAL NEC LOAD                                | 33757 VA                |
| CE         | PTACLES (R) 27                              | 900 VA        | 125%<br>68%    | 1895   | VA<br>50 VA             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           | TOTAL CONNECTED CURRENT                       | 117 A                   |
|            |                                             |               | 100%<br>100%   |        | 6 VA<br>VA              | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                  |                   |      |                    |                 |       |           | TOTAL NEC DEMAND CURRENT                      | 94 A                    |
| SC         | EQUIP (Z) 3                                 | 110 VA        | 100%           | 3110   | 0 VA<br>VA              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           |                                               |                         |
| N/         | DISPLAY (D)                                 | 0 VA          | 125%           | 0 /    | VA                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           |                                               |                         |
|            |                                             |               | 100%<br>125%   |        | ) VA<br>5 VA            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                  |                   |      |                    |                 |       |           |                                               |                         |
| ~          | WINDOW (W)                                  | 0 VA          | 125%           | 1      | VA                      | The second secon |       |                  |                   |      |                    |                 |       |           | i e                                           |                         |

| PANELBOARD SCHEDULE NOTES LEGEND:  |
|------------------------------------|
| PANELDUARD SCHEDULE NU LES LEGEND: |

AF = ARC FAULT CIRCUIT INTERRUPTER.

C# = CIRCUIT VIA LIGHTING CONTACTOR #.

CL = CIRCUIT VIA CURRENT LIMITING DEVICE.

EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.

EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.
ETR = EXISTING TO REMAIN
FA = RED/HANDLE-ON CLAMP.
GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).

GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 MA).

GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).

HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.

# DENOTES PHASES TO BE TIED.

IG = ISOLATED GROUND CIRCUIT.

L# = LIGHTING CONTROL SCHEME NUMBER.

LCK = HANDLE PADLOCKABLE-OFF DEVICE.

LO = HANDLE-ON CLAMP.

N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT.

NB = PROVIDE NEW CIRCUIT BREAKER.

O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.

PS = POWER-SWITCHING CIRCUIT BREAKER.

REQUIRED.

RP = CIRCUIT VIA RELAY PANEL.
SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM
WIRE SIZE.
ST = SHUNT TRIP CIRCUIT BREAKER.
VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

CURTIS A.
OLDS

NUMBER
PE-2018036640

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950005054
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

IIT MIDDLE SCHOOL #4

TEE'S SUMMIT R-7 SCHOOL DIS 1001 SE BAILEY ROAD

PACKAGE 3 - BUILDING & SITE

10/08/20
REVISIONS
ADDENDUM 001 10/13/20
ADDENDUM 002 10/19/20

13-20102-00

ELECTRICAL
SCHEDULES

PANEL 2H2C

PANEL 2L2C PANEL 2C2C

| EQUIPMENT GROUND BU |                | PANELBOARD: 2C20 BUS AMPS: 150A MAIN SIZE/TYPE: 150A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP-2H1C VIA TX-2 | 1               |                  |              |      | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | ING: FCA +10<br>: SECONI<br>NG: SURFAC | RATED<br>0% MINIMUM<br>D FLOOR - AREA C<br>CE |                    |       |            | EQUIPMENT GR<br>200%<br>LINE-SIDE LUGS: ME    | 6 NEUTRAL          |
|---------------------|----------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------------|------|--------------------------------------------------------------|----------------------------------------|-----------------------------------------------|--------------------|-------|------------|-----------------------------------------------|--------------------|
| RIPTION CK          |                | CKT DESCRIPTION                                                                                                         | LOAD            | NOTES            | WIRE B       | KR P | PHASE                                                        | PHASE                                  | PHASE                                         | P BKR WIRE         | NOTES | LOAD       | DESCRIPTION                                   | CKT                |
| NC                  | ο.             | NO.                                                                                                                     | TYPE            |                  | SIZE AN      |      | Α                                                            | В                                      | C                                             | AMP SIZE           |       | TYPE       |                                               | NO.                |
|                     | 2              | 1 RCPT- C215 TV                                                                                                         | R               |                  |              | 0 1  | 360 360                                                      |                                        | _                                             | 1 20 12            |       |            | PT-C218 IT 1                                  | 2                  |
|                     | 4              | 3 RCPT-C207 TV/DESK                                                                                                     | R               |                  |              | 0 1  |                                                              | 1080 360                               |                                               | 1 20 12            |       |            | PT-C218 IT 2                                  | 4                  |
|                     | 6              | 5 RCPT-C206 TV/DESK                                                                                                     | R               |                  |              | 0 1  | 1000                                                         | ٦                                      | 1080 360                                      | 1 20 12            |       |            | PT-C218 IT 3                                  | 6                  |
|                     | 8              | 7 RCPT-C204 TV/DESK                                                                                                     | R               |                  |              | 0 1  | 1080 360                                                     | 1000 200                               | ٦                                             | 1 20 12            |       |            | PT-C218 IT 4                                  | 8                  |
|                     | 2              | 9 RCPT-C203 TV/DESK 11 RCPT-C202 TV/DESK                                                                                | R<br>R          |                  |              | 0 1  |                                                              | 1080 360                               | 1080 360                                      | 1 20 12<br>1 20 12 |       |            | TP-C219A EDIT A<br>TP-C219A EDIT B            | 10                 |
|                     | 4              | 13 RCPT-C201 TV/DESK                                                                                                    | R               |                  |              | 0 1  | 1080 360                                                     | 1                                      | 1000   300                                    | 1 20 12            |       |            | TP-C219A EDIT C                               | 14                 |
|                     | 6              | 15 RCPT-C212 TV/DESK                                                                                                    | R               |                  |              | 0 1  | 1000 000                                                     | 1080 360                               |                                               | 1 20 12            |       |            | TP-C219A EDIT D                               | 16                 |
|                     | 8              | 17 RCPT- C20 TV                                                                                                         | R               |                  |              | 0 1  |                                                              |                                        | 360 720                                       | 1 20 12            |       |            | PT-C217 TV/DESK                               | 18                 |
|                     | 20             | 19 RCPT-C211 TV/DESK                                                                                                    | R               |                  |              | 0 1  | 1080 360                                                     |                                        |                                               | 1 20 12            |       |            | TP-C217B CONTROL A                            | 20                 |
| 2                   | 22             | 21 RCPT-C210 TV/DESK                                                                                                    | R               |                  |              | 0 1  |                                                              | 1080 360                               |                                               | 1 20 12            |       | R RC1      | TP-C217B CONTROL B                            | 22                 |
|                     | 24             | 23 RCPT-C219 TV/DESK                                                                                                    | R               |                  |              | 0 1  |                                                              |                                        | 1080 360                                      | 1 20 12            |       |            | TP-C217B CONTROL C                            | 24                 |
|                     | 26             | 25 RCTP-C219C EDIT A                                                                                                    | R               |                  |              | 0 1  | 360 360                                                      | 000                                    | $\neg$                                        | 1 20 12            |       |            | TP-C217B CONTROL D                            | 26                 |
|                     | 28             | 27 RCTP-C219C EDIT B                                                                                                    | R               |                  |              | 0 1  |                                                              | 360 360                                | 260 200                                       | 1 20 12            |       |            | TP-C217B CONTROL E                            | 28                 |
|                     | 30<br>32       | 29 RCTP-C219C EDIT C<br>31 RCTP-C219C EDIT D                                                                            | R<br>R          |                  |              | 0 1  | 360 360                                                      | 7                                      | 360 360                                       | 1 20 12<br>1 20 12 |       |            | TP-C217B CONTROL F<br>TP-C217B CONTROL G      | 30<br>32           |
|                     | 34             | 33 RCTP-C219C EDIT D                                                                                                    | R               |                  |              | 0 1  | 300   300                                                    | 360 360                                | 7                                             | 1 20 12            |       |            |                                               |                    |
|                     | 36             | 35 RCTP-C219B EDITA                                                                                                     | R               |                  |              | 0 1  |                                                              | 000 000                                | 360 1080                                      | 20 12              | m     | RRC        | TP-C217R CONTROLH<br>PT-C216 TV/DEŠK          | ~~~ <del>~~~</del> |
|                     | 38             | 37 RCTP-C219B EDIT C                                                                                                    | R               |                  |              | 0 1  | 360 540                                                      | ]                                      |                                               | 20 12              | C#    |            | PT-C217 PIPE MOUNTED 1                        | 38                 |
| 4                   | 10             | 39 RCTP-C219B EDIT D                                                                                                    | R               |                  | 12 2         | 0 1  |                                                              | 360 540                                |                                               | <b>2</b> 0 12      | C#    | R RCF      | PT-C217 PIPE MOUNTED 2                        | 40                 |
|                     | 2              | 41 SPARE                                                                                                                |                 |                  |              | 0 1  |                                                              |                                        | 0 540                                         | 20 12              | C#    |            | PT-C217 PIPE MOUNTED 3                        | 42                 |
|                     | 14             | 43 SPARE                                                                                                                |                 |                  |              | 0 1  | 0 540                                                        | 0 540                                  | 7                                             | 20 12              | C#    |            | PT-C217 PIPE MOUNTED 4                        | 44                 |
|                     | 2              | 45 SPARE<br>47 SPARE                                                                                                    |                 |                  |              | 0 1  |                                                              | 0 540                                  | 0 955                                         | 20 12              | C#    |            | PT-C217 PIPE MOUNTED 5<br>R-C217 FOS/4-16 - 1 | 46                 |
| <b></b>             |                | 49 SPARE                                                                                                                |                 |                  |              | 0 1  | 0 955                                                        |                                        | 0   300                                       | 20 12              | C#    |            | R-C217 FOS/4-16 - 1<br>R-C217 FOS/4-16 - 2    | 50                 |
| <u> </u>            | 3              | 51 SPARE                                                                                                                |                 |                  |              | 0 1  | - 1 000                                                      | 0 955                                  |                                               | 20 12              | C#    |            | R-C217 FOS/4-16 - 3                           | 52                 |
| 5                   | 54             | 53 SPARE                                                                                                                |                 |                  | 2            | 0 1  |                                                              |                                        | 0 955                                         | 20 12              | C#    | L PW       | R-C217 FOS/4-16 - 4                           | 54                 |
|                     | 6              | 55 SPARE                                                                                                                |                 |                  |              | 0 1  | 0 475                                                        |                                        |                                               | 20 12              | C#    |            | R-C217 FOS/4-8 - 1                            | 56                 |
|                     | 8              | 57 SPARE                                                                                                                |                 |                  |              | 0 1  |                                                              | 0 475                                  | 1                                             | 20 12              | C#    |            | R-C217 FOS/4-8 - 2                            | 58                 |
|                     | 00             | 59 SPARE                                                                                                                |                 |                  |              | 0 1  | 0 475                                                        | 1                                      | 0 475                                         | 20 12              | C#    |            | R-C217 FOS/4-8 - 3                            | 60                 |
|                     | 62<br>64       | 61 SPARE<br>63 SPARE                                                                                                    |                 |                  |              | 0 1  | 0 475                                                        | 0 475                                  |                                               | 20 12              | C#    |            | R-C217 FOS/4-8 - 4<br>R-C217 FOS/4-8 - 5      | 62<br>64           |
|                     | 36<br>36       | 65 SPARE                                                                                                                |                 |                  |              | 0 1  |                                                              | U 473                                  | 0 475                                         | 20 12              | C#    |            | R-C217 FOS/4-6 - 5<br>R-C217 FOS/4-8 - 6      | 66                 |
|                     | 88             | 67 EQUIPPED SPACE                                                                                                       |                 |                  | -            | 1    | 0 0                                                          | ]                                      | 3 470                                         | 20 12              | 0,1   | SPA        |                                               | 68                 |
|                     | 70             | 69 EQUIPPED SPACE                                                                                                       |                 |                  |              | 1    | 1 -                                                          | 0 0                                    |                                               | 20                 |       | SPA        |                                               | 70                 |
| 7                   | <b>'</b> 2     | 71 EQUIPPED SPACE                                                                                                       |                 |                  |              | 1    |                                                              |                                        | 0 0                                           | 20                 |       | SPA        | \RE                                           | 72                 |
|                     | <b>'</b> 4     | 73 EQUIPPED SPACE                                                                                                       |                 |                  |              | 1    | 0 0                                                          |                                        |                                               | 20                 |       | SPA        |                                               | 74                 |
|                     | '6<br>'0       | 75 EQUIPPED SPACE                                                                                                       |                 |                  |              | 1    |                                                              | 0 0                                    | 0 0                                           | 20                 |       | SPA        |                                               | 76                 |
|                     | 78             | 77 EQUIPPED SPACE<br>79 EQUIPPED SPACE                                                                                  |                 |                  |              | 1    | 0 0                                                          | 1                                      | 0 0                                           | 20                 |       | SPA<br>SPA |                                               | 78                 |
|                     | 30<br>32       | 79 EQUIPPED SPACE<br>81 EQUIPPED SPACE                                                                                  |                 |                  |              | 1    | 0 0                                                          | 0 0                                    |                                               | 20                 |       | SPA<br>SPA |                                               | 80<br>82           |
|                     | 34             | 83 EQUIPPED SPACE                                                                                                       |                 |                  |              | 1    |                                                              |                                        | 0 0                                           | 20                 |       | SPA        |                                               | 84                 |
|                     | 36             |                                                                                                                         |                 | TOTALI           |              | \.   | 0005.1/4                                                     | 10545 \/ \                             |                                               | <b>'</b>           |       |            |                                               |                    |
| 8                   | 88             |                                                                                                                         |                 | TOTAL L          |              | ):   | 9825 VA                                                      | 10545 VA                               | 10960 VA                                      |                    |       |            |                                               |                    |
|                     | 90             |                                                                                                                         |                 | TOTAL A          | MPS:         |      | 82 A                                                         | 89 A                                   | 92 A                                          |                    |       |            |                                               |                    |
| 9                   | 92<br>94<br>96 | LOAD TYPE                                                                                                               |                 | DEMAND<br>FACTOR | NEC DE       | MAND | PANELBOARD NO                                                | OTES                                   |                                               |                    |       | P.         | ANELBOARD TOTALS                              |                    |
| 9                   | 8              | EXISTING LOAD (E)                                                                                                       | 0 VA            | 100%             | 0 V          |      |                                                              |                                        |                                               |                    |       |            | TOTAL CONNECTED LOAD                          | 31330 VA           |
|                     | 00<br>02       | COOLING (C)                                                                                                             | 0 VA            | 0%               | 0 V          |      | -                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 04             | HEATING (H) LIGHTING (L)                                                                                                | 0 VA<br>6670 VA | 100%<br>125%     | 0 V.<br>8338 |      | +                                                            |                                        |                                               |                    |       |            | TOTAL NEC LOAD                                | 25668 VA           |
|                     | 06             | RECEPTACLES (R)                                                                                                         | 24660 VA        | 70%              | 17330        |      | +                                                            |                                        |                                               |                    |       | Т          | OTAL CONNECTED CURRENT                        | 87 A               |
|                     | 08             | MOTORS (M)                                                                                                              | 0 VA            | 100%             | 0 V          |      | 1                                                            |                                        |                                               |                    |       | т          | OTAL NEC DEMAND CURRENT                       | 71 A               |
| 11                  | 10             | SUPPLEMENTAL HEAT (U)                                                                                                   | 0 VA            | 100%             | 0 V          | Α    | ]                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 12             | MISC EQUIP (Z)                                                                                                          | 0 VA            | 100%             | 0 V.         |      |                                                              |                                        |                                               |                    |       |            |                                               |                    |
|                     | 14             | REFRIGERATION (F)                                                                                                       | 0 VA            | 100%             | 0 V          |      | 1                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 16<br>18       | SIGN/DISPLAY (D)                                                                                                        | 0 VA            | 125%             | 0 V          |      | -                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 20             | KITCHEN (K) LARGEST MOTOR                                                                                               | 0 VA<br>0 VA    | 100%<br>125%     | 0 V.         |      | -                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 22             | SHOW WINDOW (W)                                                                                                         | 0 VA            | 125%             | 0 V          |      | +                                                            |                                        |                                               |                    |       |            |                                               |                    |
|                     | 24             | TRACK LIGHTING                                                                                                          | 0 VA            | 100%             | 0 V          |      | †                                                            |                                        |                                               |                    |       |            |                                               |                    |
| 12                  | 26             |                                                                                                                         | 1               | , -              |              |      | 1                                                            |                                        |                                               |                    |       | I          |                                               |                    |
| 12                  | 28             |                                                                                                                         |                 |                  |              |      |                                                              |                                        |                                               |                    |       |            |                                               |                    |

KITCHEN (K)

LARGEST MOTOR

SHOW WINDOW (W) TRACK LIGHTING

3000 VA

1200 VA

2700 VA

1500 VA 0 VA 0 VA

| PANELBOARD                               | : 1L1D (NEW)                             |              |                 |                      |      | FAULT CURREI<br>AIC RATED: | FULLY      | RATED      |      |              |          |     |              | EQUIPMENT G                                                 | ROUND BU       |
|------------------------------------------|------------------------------------------|--------------|-----------------|----------------------|------|----------------------------|------------|------------|------|--------------|----------|-----|--------------|-------------------------------------------------------------|----------------|
| BUS AMPS: 225A                           | 400                                      |              |                 |                      |      | AIC RATING:                |            | 0% MINIMUN |      |              |          |     |              |                                                             |                |
| MAIN SIZE/TYPE: 225A                     |                                          |              |                 |                      |      | SERVES:                    | AREA I     |            |      |              |          |     |              |                                                             |                |
| VOLTS/PHASE: 208Y/12                     | 0 V 3P/4W                                |              |                 |                      |      | MOUNTING:                  | SURFA      |            |      |              |          |     |              |                                                             |                |
| SUPPLIED BY: 1H1D VI                     | TX-1L1D                                  |              |                 |                      |      | LOCATION:                  | STORA      | GE D108    |      |              | _        |     |              | LINE-SIDE LUGS: M                                           | /IECHANICA     |
| CKT DESCRIPTION NO.                      |                                          | LOAE<br>TYPE |                 | WIRE BKR<br>SIZE AMP |      | PHASE<br>A                 | PHASE<br>B | PHA<br>C   |      | P BKR<br>AMP | WIRE     |     | LOAD<br>TYPE | DESCRIPTION                                                 | CK1<br>NO.     |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 1200 180                   |            |            |      | 1 20         | 12       |     | R            | RCPT - D11 CORRIDOR                                         | 2              |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 120                        | 720        |            |      | 1 20         | 12       |     | R            | RCPT - D102 FLOOR BOXES A                                   | 4              |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 4000 000                   |            | 1200       | 720  | 1 20         | 12       | 0.5 | R            | RCPT - D102 FLOOR BOXES B                                   | 6              |
|                                          | IDS D101 CLERESTOF<br>IDS D101 CLERESTOF |              | RP<br>RP        | 10 20<br>10 20       |      | 1200 600 120               | 0 180      |            |      | 1 20<br>1 20 | 12<br>12 | GF  | K            | RCPT - D11 EWC<br>RCPT - D108 ELECTRICAL                    | 8<br>10        |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 120                        | 3   100    | 1200       | 1500 | 1 20         | 12       |     | 1            | PWR - G104 SECURITY PANEL                                   | 12             |
|                                          | DS D101 CLERESTOR                        |              | RP              | 10 20                |      | 1200 360                   |            |            |      | 1 20         | 12       |     | R            | RCPT - CLOCKS LVL 1 D                                       | 14             |
| 15 PWR - MTR BLIN                        | IDS D101 CLERESTOF                       | YH M         | RP              | 10 20                |      | 120                        | 180        |            |      | 1 20         | 12       |     | R            | RCPT - D103 CHARGING A                                      | 16             |
|                                          | DS D101 CLERESTOR                        |              | RP              | 10 20                |      |                            |            | 1200       | 180  | 1 20         | 12       |     | R            | RCPT - D103 CHARGING B                                      | 18             |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 1200 360                   | 000        |            |      | 1 20         | 12       |     | R            | RCPT - D103 USB A                                           | 20             |
|                                          | IDS D101 CLERESTOR                       |              | RP<br>RP        | 10 20<br>10 20       |      | 120                        | 360        | 1200       | 360  | 1 20         | 12       |     | R            | RCPT - D103 USB B<br>RCPT - D103 USB C                      | 22<br>24       |
|                                          | IDS D101 CLERESTOF<br>IDS D101 CLERESTOF |              | RP<br>RP        | 10 20<br>10 20       |      | 1200 600                   |            | 1200       | 300  | 1 20         | 12       |     | R            | PWR - D103 PROJECTOR SCREEN                                 |                |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                | 1    | 1200   000                 | 1200       |            |      | 1 20         | 12       | RP  | M            | PWR - MTR BLINDS D103 A                                     | 28             |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                | - 1  | 120                        | .200       | 1200       | 1200 | 1 20         | 12       | RP  | M            | PWR - MTR BLINDS D103 B                                     | 30             |
| 31 PWR - MTR BLIN                        | DS D101 CLERESTOF                        | YR M         | RP              | 10 20                | 1    | 1200 1200                  |            |            |      | 1 20         | 12       | RP  | M            | PWR - MTR BLINDS D103 C                                     | 32             |
| 33 PWR - MTR BLIN                        | IDS D101 CLERESTOR                       | YS M         | RP              | 10 20                | 1    | 120                        | 1200       |            |      | 1 20         | 12       | RP  | М            | PWR - MTR BLINDS D103 D                                     | 34             |
|                                          | DS D101 CLERESTOR                        |              | RP              | 10 20                | 1    |                            |            | 1200       | 500  | 1 20         | 12       |     | Z            | PWR - D106 FUTURE A                                         | 36             |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 1200 500                   | 1000       |            |      | 1 20         | 12       |     | Z            | PWR - D106 FUTURE B                                         | 38             |
|                                          | IDS D101 CLERESTOR                       |              | RP<br>RP        | 10 20<br>10 20       |      | 120                        | 1000       | 1200       | 100  | 1 20         | 12       |     | Z            | PWR - D12 DOOR OPERATORS                                    | 40             |
|                                          | IDS D101 CLERESTOR<br>IDS D101 CLERESTOR |              | RP RP           | 10 20                |      | 1200 50                    |            | 1200       | 100  | 1 20         | 12       |     | Z            | PWR - DOOR HARDWARE (C10.1/C<br>PWR - DOOR HARDWARE (D12.1) | 12.5) 42<br>44 |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 1200                       | 0 0        |            |      | 1 20         | 12       |     |              | SPARE                                                       | 46             |
|                                          | IDS D101 CLERESTOR                       |              | RP              | 10 20                |      | 120                        | 3   0      | 1200       | 0    | 1 20         |          |     |              | SPARE                                                       | 48             |
| 49 PWR - MTR BLIN                        | DS D101 CLERESTOR                        | Y M          | RP              | 10 20                |      | 1200 0                     |            |            |      | 1 20         |          |     |              | SPARE                                                       | 50             |
| 51 <b>RW</b> R-D101 MAG                  | DOOR HOLDERS                             | Z            |                 | 12 20                |      | 100                        | 0          |            |      | 1 20         |          |     |              | SPARE                                                       | 52             |
| 53 RCPT - D101 GE                        |                                          | R            |                 | 12 20                |      |                            |            | 720        | 0    | 1 20         |          |     |              | SPARE                                                       | 54             |
| 55 RCPT - D101 GE                        |                                          | R            |                 | 12 20                |      | 720 0                      |            |            |      | 1 20         |          |     |              | SPARE                                                       | 56             |
| 57 RCPT - D101 GE                        |                                          | R            |                 | 12 20                |      | 720                        | 0          | 1200       |      | 1 20         |          |     |              | SPARE                                                       | 58             |
| 59 RCPT - D101 MI0<br>61 RCPT - D101 MI0 |                                          | K            |                 | 12 20<br>12 20       |      | 1200 0                     |            | 1200       | 0    | 1 20<br>1 20 |          |     |              | SPARE SPARE                                                 | 60<br>62       |
| 63 RCPT - D102 GE                        |                                          | R            |                 | 12 20                |      | 108                        | 0 0        |            |      | 1 20         |          |     |              | SPARE                                                       | 64             |
| 65 RCPT - D104, D1                       |                                          | R            |                 | 12 20                |      | 100                        | 3   0      | 1080       | 0    | 1 20         |          |     |              | SPARE                                                       | 66             |
| 67 RCPT - D103 CC                        |                                          | R            |                 | 12 20                |      | 720 0                      |            |            |      | 1 20         |          |     |              | SPARE                                                       | 68             |
| 69 RCPT - D103 GE                        | NERAL                                    | R            |                 | 12 20                | 1    | 540                        | 0          |            |      | 1 20         |          |     |              | SPARE                                                       | 70             |
| 71 RCPT - D103 CC                        |                                          | Z            |                 | 12 20                |      |                            |            | 1000       | 500  | 1 20         | 12       |     | M            | UH-13                                                       | 72             |
| 73 RCPT - D107 GE                        |                                          | R            |                 | 12 20                |      | 720 180                    |            |            |      | 1 20         | 12       |     | R            | RCPT - ROOF                                                 | 74             |
| 75 RCPT - D109, D1                       |                                          | R            |                 | 12 20                |      | 720                        | 1144       | 1000       | 4444 | 2 20         | 12       |     | С            | CU-15/CR-15                                                 | 76             |
| 77 RCPT - D110 CC<br>79 RCPT - D110 QU   |                                          | Z<br>R       |                 | 12 20<br>12 20       |      | 1080 200                   |            | 1000       | 1144 | 1 20         | 12       |     | M            | VAVs 801, 802, 803, 811                                     | 78<br>80       |
| 81 RCPT - D110 QC                        |                                          | R            |                 | 12 20                |      | 180                        | 500        |            |      | 1 20         | 12       |     | M            | UH-1                                                        | 82             |
| 83 RCPT - D106 G                         |                                          | R            |                 | 12 20                |      | 100                        | 000        | 180        | 500  | 1 20         | 12       |     | M            | UH-2                                                        | 84             |
|                                          |                                          |              | TOTAL           |                      |      | 40470 \ / 4                | 0404374    |            |      | 1, 20        |          |     | 1            | 1 0.1.2                                                     |                |
|                                          |                                          |              |                 | LOAD (VA):           |      |                            | 9424 VA    | 21484      |      | _            |          |     |              |                                                             |                |
|                                          | COMME                                    | -ED -        | TOTAL           |                      | ND   | 162 A                      | 162 A      | 179        |      | ]            |          |     |              | DANEI BOARD TOTAL C                                         |                |
| LOAD TYPE                                | CONNECT<br>LOAD                          |              | EMAND<br>FACTOR |                      | טאוו | PANELBOARD NOTES           |            |            |      |              |          |     |              | PANELBOARD TOTALS                                           | I              |
| EXISTING LOAD (E) COOLING (C)            | 0 VA<br>2288 V                           | \            | 100%<br>100%    | 0 VA<br>2288 VA      |      |                            |            |            |      |              |          |     |              | TOTAL CONNECTED LOAD                                        | 58878 VA       |
| HEATING (H)                              | 0 VA                                     |              | 0%              | 0 VA                 |      |                            |            |            |      |              |          |     |              | TOTAL NEC LOAD                                              | 57758 VA       |
| LIGHTING (L)                             | 0 VA                                     |              | 125%            | 0 VA                 |      |                            |            |            |      |              |          |     |              | TOTAL CONNECTED CURRENT                                     | 163 A          |
| RECEPTACLES (R)                          | 12240 V                                  |              | 91%             | 11120 V              |      |                            |            |            |      |              |          |     |              |                                                             |                |
| MOTORS (M)<br>SUPPLEMENTAL HEAT          | 35900 V<br>(U) 0 VA                      | 4            | 100%<br>100%    | 35900 VA             | 4    |                            |            |            |      |              |          |     |              | TOTAL NEC DEMAND CURRENT                                    | 160 A          |
| MISC EQUIP (Z)                           | (U) 0 VA<br>4250 V                       |              | 100%            | 4250 VA              |      |                            |            |            |      |              |          |     |              |                                                             |                |
| REFRIGERATION (F)                        | 0 VA                                     | `            | 100%            | 0 VA                 | `    |                            |            |            |      |              |          |     |              |                                                             |                |
| SIGN/DISPLAY (D)                         | 0 VA                                     |              | 125%            | 0 VA                 |      |                            |            |            |      |              |          |     |              |                                                             |                |
| KITCHEN (K)                              | 3000 V/                                  |              | 90%             | 2700 VA              |      |                            |            |            |      |              |          |     |              |                                                             |                |
| LARGEST MOTOR                            | 1200 V                                   |              | 125%            | 1500 VA              |      |                            |            |            |      |              |          |     |              |                                                             |                |
| 01.101441415 0144 (144)                  | 0 VA                                     |              | 125%            | 0 VA                 |      |                            |            |            |      |              |          |     |              |                                                             |                |
| SHOW WINDOW (W) TRACK LIGHTING           | 0 VA                                     |              | 100%            | 0 VA                 |      |                            |            |            |      |              |          |     |              |                                                             |                |

| JS  <br>AL | BUS<br>MAIN<br>VOL | NELBOARD: 1C1E AMPS: 150A I SIZE/TYPE: 150A M.C.B. IS/PHASE: 208Y/120 V 3P/4W PLIED BY: 1H1D VIA TX-1C1D | ,                 |              |                |         |              |       | FAULT C<br>AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO | ED:<br>ING:<br>::<br>NG: | FULLY R  | % MINIMUM<br>E |      |      |                  |       |              | EQUIPMENT GI<br>200<br>LINE-SIDE LUGS: M       | % NEUTRAL  |
|------------|--------------------|----------------------------------------------------------------------------------------------------------|-------------------|--------------|----------------|---------|--------------|-------|--------------------------------------------------------------|--------------------------|----------|----------------|------|------|------------------|-------|--------------|------------------------------------------------|------------|
| T)         | CKT<br>NO.         | DESCRIPTION                                                                                              |                   | LOAD<br>TYPE | NOTES          | WIRE I  |              |       | HASE<br>A                                                    |                          | ASE<br>B | PHAS<br>C      | SE   |      | R WIRE<br>P SIZE | NOTES | LOAD<br>TYPE | DESCRIPTION                                    | CKT<br>NO. |
| 2          | 1                  | POS (E-66)                                                                                               |                   | Z            |                |         | 20 1         | 500   | 0                                                            |                          |          |                |      | 1 20 |                  |       | 1            | SPARE                                          | 2          |
|            | 3                  | POS (E-100/E-102) A                                                                                      |                   | Z            |                |         | 20 1         |       |                                                              | 500                      | 1500     |                |      | 1 20 |                  |       | Z            | RCPT - G104 IT RACK A                          | 4          |
|            | 5                  | POS (E-101/E-102.1)                                                                                      |                   | Z            | GF             |         | 20 1         | 500   | 4500                                                         | ٦                        |          | 500            | 1500 | 1 20 |                  |       |              | RCPT - G104 IT RACK B                          | 6          |
| 5          | 9                  | POS (E-100/E-102) B<br>RCPT - G109 COMPUTER A                                                            | Δ                 | Z<br>Z       |                |         | 20 1<br>20 1 | 500   | 1500                                                         | 400                      | 1500     |                |      | 1 20 |                  |       | Z            | RCPT - G104 IT RACK C<br>RCPT - G104 IT RACK D | 10         |
| 2          | 11                 | RCPT - G109 COMPUTER                                                                                     |                   | Z            |                |         | 20 1         |       |                                                              | 400                      | 1000     | 400            | 360  | 1 20 |                  |       | R            | RCPT - D108 IT RACK A                          | 12         |
| 1          | 13                 | RCPT - G108B COMPUTER                                                                                    |                   | Z            |                |         | 20 1         | 400   | 360                                                          |                          |          |                | -    | 1 20 | 12               |       | R            | RCPT - D108 IT RACK B                          | 14         |
| 3          | 15                 | RCPT - D105 TV                                                                                           |                   | R            |                |         | 20 1         | -     |                                                              | 360                      | 0        |                |      | 1 20 |                  |       |              | SPARE                                          | 16         |
| 3          | 17<br>19           | RCPT - D103 DESK/TV<br>RCPT - D103 PROJECTOR                                                             | Α.                | R<br>Z       |                |         | 20 1<br>20 1 | 1000  | 0                                                            | ٦                        |          | 720            | 0    | 1 20 |                  |       |              | SPARE SPARE                                    | 18<br>20   |
| 2          | 21                 | RCPT - D103 PROJECTOR                                                                                    |                   | Z            |                |         | 20 1         | 1000  |                                                              | 1000                     | 0        |                |      | 1 20 |                  |       |              | SPARE                                          | 22         |
| 4          | 23                 | RCPT - D107, D109 TV/DES                                                                                 |                   | R            |                | 12      | 20 1         |       |                                                              |                          |          | 720            | 0    | 1 20 | )                |       |              | SPARE                                          | 24         |
| 6          | 25                 | SPARE                                                                                                    |                   |              |                |         | 20 1         | 0     | 0                                                            |                          | -        |                |      | 1 20 |                  |       |              | SPARE                                          | 26         |
| 3          | 27                 | SPARE                                                                                                    |                   |              |                |         | 20 1         | -     |                                                              | 0                        | 0        | 0              | 0    | 1 20 |                  |       |              | SPARE                                          | 28         |
| 2          | 29<br>31           | SPARE SPARE                                                                                              |                   |              |                |         | 20 1<br>20 1 | 0     | 0                                                            | 7                        |          | U              | U    | 1 20 |                  |       |              | SPARE SPARE                                    | 30         |
| 4          | 33                 | SPARE                                                                                                    |                   |              |                |         | 20 1         |       |                                                              | 0                        | 0        |                |      | 1 20 |                  |       |              | SPARE                                          | 34         |
| 3          | 35                 | SPARE                                                                                                    |                   |              |                |         | 20 1         |       |                                                              | _                        | I        | 0              | 0    | 1 20 |                  |       |              | SPARE                                          | 36         |
| 3          | 37                 | SPARE                                                                                                    |                   |              |                |         | 20 1         | 0     | 0                                                            |                          |          |                |      | 1 20 |                  |       |              | SPARE                                          | 38         |
| 2          | . 39               | SPARE SPARE                                                                                              |                   |              |                |         | 20 1<br>20 1 |       |                                                              | 0                        | 0        | 0              | 0    | 1 20 |                  |       |              | SPARE SPARE                                    | 40         |
| 1 /        | 1 43               | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            | 0     | 0                                                            |                          |          | U              |      | 1    | ,                |       |              | EQUIPPED SPACE                                 | 44         |
| 3          | 45                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              | 0                        | 0        |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 46         |
| 3          | 47                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              | 7                        |          | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE                                 | 48         |
| 2          | 49<br>51           | EQUIPPED SPACE EQUIPPED SPACE                                                                            |                   |              |                |         | 1            | 0     | 0                                                            | 0                        | 0        |                |      | 1    |                  |       |              | EQUIPPED SPACE EQUIPPED SPACE                  | 50<br>52   |
| 4          | 53                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              |                          | U        | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE                                 | 54         |
| 3          | 55                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            | 0     | 0                                                            |                          |          |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 56         |
| 8          | 57                 |                                                                                                          |                   |              |                |         | 1            | -     |                                                              | 0                        | 0        | 0              |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 58         |
| 2          | 59<br>61           | EQUIPPED SPACE EQUIPPED SPACE                                                                            |                   |              |                |         | 1            | 0     | 0                                                            | 7                        |          | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE EQUIPPED SPACE                  | 60<br>62   |
| 4          | 63                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              | 0                        | 0        |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 64         |
| 3          | 65                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              |                          |          | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE                                 | 66         |
| 3          | 67                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            | 0     | 0                                                            | 0                        |          |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 68         |
| 2          | 69<br>71           | EQUIPPED SPACE EQUIPPED SPACE                                                                            |                   |              |                |         | 1            |       |                                                              | 0                        | 0        | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE EQUIPPED SPACE                  | 70<br>72   |
| 1          | 73                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            | 0     | 0                                                            |                          |          | 0              |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 74         |
| 6          | 75                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       | -                                                            | 0                        | 0        |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 76         |
| 8          | 77                 | EQUIPPED SPACE EQUIPPED SPACE                                                                            |                   |              |                | 1       | 1            | 0     | <del></del>                                                  | ٦                        |          | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE EQUIPPED SPACE                  | 78         |
| 2          | 79<br>81           | EQUIPPED SPACE                                                                                           |                   |              |                | + +     | 1            | 0     | 0                                                            | 0                        | 0        |                |      | 1    |                  |       |              | EQUIPPED SPACE                                 | 80<br>82   |
| 4          | 83                 | EQUIPPED SPACE                                                                                           |                   |              |                |         | 1            |       |                                                              |                          |          | 0              | 0    | 1    |                  |       |              | EQUIPPED SPACE                                 | 84         |
|            |                    |                                                                                                          |                   |              | TOTAL          | LOAD (V | /A):         | 426   | 60 VA                                                        | 5260                     | 0 VA     | 4200           | VA   |      |                  |       |              |                                                |            |
|            |                    |                                                                                                          |                   |              | TOTAL A        |         | ,            |       | 66 A                                                         |                          | l A      | 35 /           |      | 1    |                  |       |              |                                                |            |
|            | LOAI               | D TYPE                                                                                                   | CONNECTED<br>LOAD |              | EMAND<br>ACTOR | NEC D   | EMAND        | PANEL | _BOARD N                                                     | OTES                     |          |                |      |      |                  |       |              | PANELBOARD TOTALS                              |            |
| Δ          |                    | TING LOAD (E)                                                                                            | 0 VA              |              | 100%           |         | VA           |       |                                                              |                          |          |                |      |      |                  |       |              | TOTAL CONNECTED LOAD                           | 13720 VA   |
| À          |                    | LING (C)<br>TING (H)                                                                                     | 0 VA<br>0 VA      |              | 0%<br>100%     |         | VA<br>VA     |       |                                                              |                          |          |                |      |      |                  |       |              | TOTAL NEC LOAD                                 | 13720 VA   |
| $\neg$     | LIGH               | ITING (L)                                                                                                | 0 VA              |              | 125%           | 0       | VA           |       |                                                              |                          |          |                |      |      |                  |       |              | TOTAL CONNECTED CURRENT                        | 38 A       |
| -          |                    | EPTACLES (R)                                                                                             | 2520 VA           |              | 100%           |         | 0 VA         |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
| $\dashv$   |                    | ORS (M)<br>PLEMENTAL HEAT (U)                                                                            | 0 VA<br>0 VA      |              | 100%<br>100%   |         | VA<br>VA     |       |                                                              |                          |          |                |      |      |                  |       |              | TOTAL NEC DEMAND CURRENT                       | 38 A       |
|            | MISC               | EQUIP (Z)                                                                                                | 11200 VA          |              | 100%           | 1120    | 00 VA        |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
|            |                    | RIGERATION (F)                                                                                           | 0 VA              |              | 100%           |         | VA           |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
|            |                    | I/DISPLAY (D)<br>HEN (K)                                                                                 | 0 VA<br>0 VA      |              | 125%<br>100%   |         | VA<br>VA     | _     |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
|            |                    | GEST MOTOR                                                                                               | 0 VA              |              | 125%           |         | VA<br>VA     |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
|            | SHO                | W WINDOW (W)                                                                                             | 0 VA              |              | 125%           | 0       | VA           |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |
|            | TRA                | CK LIGHTING                                                                                              | 0 VA              |              | 100%           | 0       | VA           |       |                                                              |                          |          |                |      |      |                  |       |              |                                                |            |

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE.

REQUIRED.

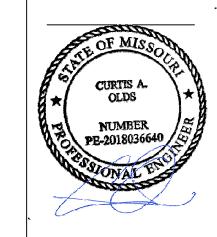
EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).

GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. # DENOTES PHASES TO BE TIED. IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER.

LCK = HANDLE PADLOCKABLE-OFF DEVICE. LO = HANDLE-ON CLAMP. N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

LEE'S SUMMIT, MISSOURI



RELEASE FOR CONSTRUCTION

CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS

ADDENDUM 001 ADDENDUM 002

13-20102-00 ELECTRICAL SCHEDULES

| PANELBOARD: 1L1E (NEW) BUS AMPS: 225A MAIN SIZE/TYPE: 225A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: 1H1E VIA TX-1L1E |              |                                        | FAULT C<br>AIC RATI<br>AIC RATI<br>SERVES<br>MOUNTII<br>LOCATIC | ED:<br>ING:<br>::<br>NG: | FULLY R | 6 MINIMUM        | M            |                |                | EQUIPMENT                                                                |                          | MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING |
|-------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|-----------------------------------------------------------------|--------------------------|---------|------------------|--------------|----------------|----------------|--------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------|
| CKT DESCRIPTION<br>NO.                                                                                                        | LOAD<br>TYPE | NOTES WIRE BKR P                       | PHASE<br>A                                                      | PH/                      |         | PHASE<br>C       | Р            | BKR<br>AMP     |                | NOTES LOAD DESCRIPTION TYPE                                              | MECHANICAL<br>CKT<br>NO. | PANELBOARD                                                                                                 |
| 1 RCPT - E101 GENERAL A<br>3 RCPT - E101 GENERAL B                                                                            | R            | 12 20 1<br>12 20 1                     | 720 540                                                         | 720                      | 180     |                  | 1            |                | 12<br>12       | R RCPT - D100B, D100C GENERAL<br>R RCPT-D11GEN                           | 2 4                      | BUS AMPS: 150A<br>MAIN SIZE/TYPE: 150A M                                                                   |
| 5 RCPT - E101, E104 GENERAL<br>7 RCPT - E102, E105 GENERAL                                                                    | R<br>R       |                                        | 1080 100                                                        |                          |         | 1440 1           | 1000 1       | 20             | 12<br>12       | Z PWR-D100 DOOR OPERATORS Z PWR-D101 MAG DOOR HOLDER                     | 6 8                      | VOLTS/PHASE: 208Y/120<br>SUPPLIED BY: 1H1E VIA                                                             |
| 9 RCPT - E104 GENERAL A 11 RCPT - E104 GENERAL B                                                                              | R            | 12 20 1<br>12 20 1                     | 700                                                             | 720                      | 500     | 900              | 0 1          | 20             | 12             | FA Z PWR-FIRE ALARME FAA-D100A<br>SPARE                                  | 10                       |                                                                                                            |
| 13 RCPT - E107 GENERAL A 15 RCPT - E107 GENERAL B 17 RCPT - E107 QUADS                                                        | R<br>R<br>R  | 12 20 1<br>12 20 1<br>12 20 1          | 720 0                                                           | 900                      | 360     | 720              | 1<br>360 1   | 20             | 12<br>12       | SPARE Z RCPT - F101 PROJECTOR A Z RCPT - F101 PROJECTOR B                | 14<br>16<br>18           | CKT DESCRIPTION NO.                                                                                        |
| 19 RCPT - E107 QUADS  19 RCPT - E108 GENERAL  21 RCPT - E110 GENERAL A                                                        | R            | 12 20 1<br>12 20 1<br>12 20 1          | 540 1000                                                        | 720                      | 1000    | 720              | 1            | 20             | 12             | Z PWR - F101 PROJECTOR SCREEN Z PWR - F101 PROJECTOR SCREEN              | I A 20                   | 1 RCPT - E101, E10<br>3 RCPT - E102, E10<br>5 RCPT - E110, E11                                             |
| 23 RCPT - E110 GENERAL B 25 RCPT - E111 GENERAL                                                                               | R            | 12 20 1<br>12 20 1                     | 900 1000                                                        | 720                      | 1000    | 720 1            | 1000 1       | 20             | 12             | Z RCPT - F101 SCOREBOARD A Z RCPT - F101 SCOREBOARD B                    | 24 26                    | 7 RCPT - E110, E11<br>9 RCPT - D12 TV                                                                      |
| 27 RCPT - E112 GENERAL<br>29 RCPT - STORAGES                                                                                  | R<br>R       | 12 20 1<br>12 20 1                     | <u>'</u>                                                        | 900                      | 800     | 1080             | 800 1        | 20             | 12<br>12       | Z PWR - F101 TIMECLOCK A Z PWR - F101 TIMECLOCK B                        | 28<br>30                 | 11 RCPT - E114A DI<br>13 RCPT - E117A DI                                                                   |
| 31 RCPT - E114A, E117A COACH OFFICES<br>33 RCPT - E113 GIRLS LOCKER                                                           | R            | 12 20 1<br>12 20 1                     | 720 100                                                         | 900                      | 200     |                  | 1            | 20             | 12<br>12       | Z PWR-E11A MAG DOOR HOLDER Z PWR - DOOR HARDWARE (D11/D                  |                          | 15 RCPT - E122 DES<br>17 SPARE                                                                             |
| 35 RCPT - E116 BOYS LOCKER<br>37 RCPT - E122 GENERAL A                                                                        | R<br>R       | 12 20 1<br>12 20 1                     | 720 0                                                           |                          |         | 900              | 150 1<br>1   | 20             | 12             | Z PWR - DOOR HARDWARE (E10/11                                            | 38                       | 19 SPARE<br>21 SPARE                                                                                       |
| 39 RCPT - E122 GENERAL B<br>41 RCPT - D12 EWC                                                                                 | R<br>K       | 12 20 1<br>GF 12 20 1                  | 4000                                                            | 720                      | 0       | 600              | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 40                       | 23 SPARE<br>25 SPARE                                                                                       |
| 43 RCPT - E10, E11A CORRIDOR<br>45 RCPT - E113 EWC<br>47 RCPT - E116 EWC                                                      | R<br>K<br>K  | GF 12 20 1<br>GF 12 20 1<br>GF 12 20 1 | 1080 0                                                          | 600                      | 0       | 600              | 0 1          | 20             |                | SPARE<br>SPARE<br>SPARE                                                  | 44<br>46<br>48           | 27 SPARE<br>29 SPARE                                                                                       |
| 47 RCPT - E116 EWC<br>49 RCPT - E119 ELECTRICAL<br>51 RCPT - E123, E124 RESTROOM                                              | R<br>R       | 12 20 1<br>12 20 1<br>12 20 1          | 180 0                                                           | 360                      | 0       | 000              | 0 1          | 20             |                | SPARE<br>SPARE<br>SPARE                                                  | 48<br>50<br>52           | 31 SPARE 33 SPARE                                                                                          |
| 53 RCPT - CLOCKS LVL 1 E 55 RCPT - F101 GENERAL A                                                                             | R            | 12 20 1                                | 720 0                                                           |                          | J       | 540              | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 54<br>56                 | 35 SPARE<br>37 SPARE<br>39 SPARE                                                                           |
| 57 RCPT - F101 GENERAL B<br>59 RCPT - F102, F105                                                                              | R            | 12 20 1<br>12 20 1                     | 120   0                                                         | 720                      | 0       | 720              | 0 1          | 20             |                | SPARE SPARE                                                              | 58<br>60                 | 41 SPARE<br>43 EQUIPPED SPAC                                                                               |
| 61 RCPT - F102 EWC<br>63 SPARE                                                                                                | К            | GF 12 20 1 20 1                        | 600 0                                                           | 0                        | 0       | 1                | 1            | 20             |                | SPARE<br>SPARE                                                           | 62<br>64                 | 45 EQUIPPED SPAC<br>47 EQUIPPED SPAC                                                                       |
| 65 SPARE<br>67 SPARE                                                                                                          |              | 20 1 20 1                              | 0 0                                                             |                          |         | 0                | 0 1          | 20             |                | SPARE SPARE                                                              | 66<br>68                 | 49 EQUIPPED SPAC<br>51 EQUIPPED SPAC                                                                       |
| 69 SPARE<br>71 SPARE                                                                                                          |              | 20 1<br>20 1                           |                                                                 | 0                        | 0       | 0                | 0 1          |                |                | SPARE SPARE                                                              | 70<br>72                 | 53 EQUIPPED SPAC<br>55 EQUIPPED SPAC                                                                       |
| 73 SPARE<br>75 SPARE                                                                                                          |              | 20 1                                   | 0 0                                                             | 0                        | 0       | -                | 1            | 20             |                | SPARE<br>SPARE                                                           | 74<br>76                 | 57 EQUIPPED SPAC<br>59 EQUIPPED SPAC                                                                       |
| 77 SPARE<br>79 SPARE                                                                                                          |              | 20 1                                   | 0 0                                                             |                          | 0       | 0                | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 78<br>80                 | 61 EQUIPPED SPAC<br>63 EQUIPPED SPAC                                                                       |
| 81 SPARE<br>83 SPARE<br>85 GYM CONTROL PANEL POWER                                                                            | 7            | 20 1<br>20 1<br>12 20 1                | 500 0                                                           | 0                        | 0       | 0                | 0 1          | 20<br>20<br>20 |                | SPARE<br>SPARE<br>SPARE                                                  | 82<br>84                 | 65 EQUIPPED SPAC<br>67 EQUIPPED SPAC                                                                       |
| 87 GYM CONTROL PANEL POWER<br>89 PWR - F101 HOOP (NW)                                                                         | Z<br>Z<br>R  | 12 20 1<br>12 20 1<br>10 30 1          | 300   0                                                         | 500                      | 0       | 1920             | 0 1          | 20             |                | SPARE<br>SPARE<br>SPARE                                                  | 86<br>88<br>90           | 69 EQUIPPED SPAC<br>71 EQUIPPED SPAC                                                                       |
| 91 PWR - F101 HOOP (NE)<br>93 PWR - F101 HOOP (E)                                                                             | R            |                                        | 1920 0                                                          | 1920                     | 0       | 1920             | 1            | 20             |                | SPARE<br>SPARE                                                           | 92<br>94                 | 73 EQUIPPED SPAC<br>75 EQUIPPED SPAC<br>77 EQUIPPED SPAC                                                   |
| 95 PWR - F101 HOOP (SE)<br>97 PWR - F101 HOOP (SW)                                                                            | R            | 10 30 1                                | 1920 0                                                          | 1020                     | 0       | 1920             | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 96<br>98                 | 79 EQUIPPED SPAC<br>81 EQUIPPED SPAC                                                                       |
| 99 PWR - F101 HOOP (W) 101 PWR - F101 CURTAIN A                                                                               | R<br>R       | 10 30 1<br>10 30 1                     |                                                                 | 1920                     | 0       | 1920             | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 100<br>102               | 83 EQUIPPED SPAC                                                                                           |
| 103 PWR - F101 CURTAIN B<br>105 SPARE                                                                                         | R            | 20 1                                   | 1920 0                                                          | 0                        | 0       | ,                | 1            | 20             |                | SPARE SPARE                                                              | 104<br>106               |                                                                                                            |
| 107 SPARE<br>109 SPARE                                                                                                        |              | 20 1<br>20 1                           | 0 0                                                             |                          |         | 0                | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 108<br>110               | LOAD TYPE                                                                                                  |
| 111 SPARE<br>113 SPARE                                                                                                        |              | 20 1                                   |                                                                 | 0                        | 0       | 0                | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 112<br>114               | EXISTING LOAD (E)                                                                                          |
| 115 SPARE<br>117 SPARE                                                                                                        |              | 20 1                                   | 0   0                                                           | 0                        | 0       | 0                | 1            | 20             |                | SPARE<br>SPARE                                                           | 116<br>118               | COOLING (C)<br>HEATING (H)                                                                                 |
| 119 SPARE<br>121<br>123 PWR - F101 BLEACHERS A                                                                                | М            | 3 20 1<br>12 15 3                      | 497 0                                                           | 497                      | 0       | 0                | 0 1 1 1      |                |                | SPARE<br>SPARE<br>SPARE                                                  | 120<br>122<br>124        | LIGHTING (L) RECEPTACLES (R)                                                                               |
| 125   127                                                                                                                     | IVI          | 12 10 3                                | 497 0                                                           | 491                      | U       | 497              | 0 1          | 20             |                | SPARE<br>SPARE                                                           | 126<br>128               | MOTORS (M) SUPPLEMENTAL HEAT (                                                                             |
| 129<br>131 PWR - F101 BLEACHERS B                                                                                             | М            | 12 15 3                                | 401   0                                                         | 497                      | 0       | 497              | 0 1          | 20             |                | SPARE SPARE                                                              | 130                      | MISC EQUIP (Z) REFRIGERATION (F)                                                                           |
| 133<br>135 PWR - F101 BLEACHERS C                                                                                             | М            | 12 15 3                                | 497 0                                                           | 497                      | 1144    |                  | 1 2          | 20             | 12             | SPARE<br>C CU-16/CR-16                                                   | 134                      | SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR                                                                 |
| 137<br>139                                                                                                                    |              |                                        | 497 300                                                         |                          |         | 497 1            | 1144         | 20             | 12             | Z PWR-F201 MOTORIZED DAMPERS                                             | 138                      | SHOW WINDOW (W) TRACK LIGHTING                                                                             |
| 141 PWR - F101 BLEACHERS D                                                                                                    | M            | 12 15 3                                |                                                                 | 497                      | 696     | 497              | 1<br>696 1   |                | 12<br>12       | M RHWP-7<br>M RHWP-8                                                     | 142<br>144               | THAT ELECTRING                                                                                             |
| 145<br>147 PWR - F102 BLEACHERS A                                                                                             | М            | 12 15 3                                | 497 500                                                         | 497                      | 360     |                  | 1            | 20             | 12<br>12       | Z PWR-MECH CONTROL PANEL FA Z PWR-FIRE ALARM RPS                         | 146<br>148               |                                                                                                            |
| 149<br>151<br>152 PWD 5400 PLEACUEDO P                                                                                        |              | 40 45 30                               | 497 0                                                           | 407                      | 000     | 497              | 500 <u>1</u> | 20             | 12             | Z PWR-LCP1E PWR-E120 SECURITY PANEL                                      | 150<br>152               |                                                                                                            |
| 153<br>155<br>157 PWR - F102 BLEACHERS B                                                                                      | М            | 12 15 3                                | 497 150                                                         | 497                      | 900     | 497              | 540 <u>1</u> | 20             | 12<br>12<br>12 | R   RCPT-F201 SERVICE   R   RCPT-ROOFTOP AREA E SERVIC   M   UHs 9 10 12 |                          |                                                                                                            |
| 157<br>159<br>161<br>PWR - F102 BLEACHERS C                                                                                   | М            | 12 15 3                                | 497   130                                                       | 497                      | 1000    | 497 1            | 1<br>1000 1  | 20             | 12             | M UHs 9, 10, 12<br>M EF-9<br>M EF-10                                     | 158<br>160<br>162        |                                                                                                            |
| 163<br>165 PWR - F102 BLEACHERS D                                                                                             | М            | 12 15 3                                | 497 950                                                         | 497                      | 1144    | 431              | 1 2          | 20             | 12             | M VAVs 701 thru 718 C CU-11/CR-11                                        | 164<br>166               |                                                                                                            |
| 167                                                                                                                           |              | TOTAL LOAD (VA): TOTAL AMPS:           | 22857 VA<br>190 A                                               | 2386                     | 1 VA    | 497 1<br>26291 V | 1144<br>A    |                |                |                                                                          | 168                      |                                                                                                            |
| LOAD TYPE CONNECT LOAD                                                                                                        |              |                                        | PANELBOARD NO                                                   |                          |         |                  |              |                |                | PANELBOARD TOTALS                                                        |                          |                                                                                                            |
| EXISTING LOAD (E) 0 VA COOLING (C) 4576 VA                                                                                    | ,            | 100% 0 VA<br>100% 4576 VA              |                                                                 |                          |         |                  |              |                |                | TOTAL CONNECTED LOAD                                                     | 73006 VA                 |                                                                                                            |
| #576 VA HEATING (H)                                                                                                           |              | 0% 0 VA<br>125% 0 VA                   |                                                                 |                          |         |                  |              |                |                | TOTAL NEC LOAD                                                           |                          |                                                                                                            |
| RECEPTACLES (R) 38580 VA<br>MOTORS (M) 14929 VA                                                                               | ١            | 63% 24290 VA<br>100% 14929 VA          |                                                                 |                          |         |                  |              |                |                | TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT                         | 203 A<br>163 A           |                                                                                                            |
| SUPPLEMENTAL HEAT (U)         0 VA           MISC EQUIP (Z)         11030 VA                                                  |              | 100% 0 VA<br>100% 11030 VA             |                                                                 |                          |         |                  |              |                |                | TO THE NEW PENNIND CONNENT                                               | 10071                    |                                                                                                            |
| REFRIGERATION (F)         0 VA           SIGN/DISPLAY (D)         0 VA                                                        |              | 100% 0 VA<br>125% 0 VA                 |                                                                 |                          |         |                  |              |                |                |                                                                          |                          |                                                                                                            |
| KITCHEN (K) 2400 VA<br>LARGEST MOTOR 1491 VA                                                                                  | ,            | 80% 1920 VA<br>125% 1864 VA            |                                                                 |                          |         |                  |              |                |                |                                                                          |                          |                                                                                                            |
| SHOW WINDOW (W) 0 VA                                                                                                          |              | 125% 0 VA<br>100% 0 VA                 |                                                                 |                          |         |                  |              |                |                |                                                                          |                          |                                                                                                            |

| PANELBOARD: 1H1E (NEW)  BUS AMPS: 225A  MAIN SIZE/TYPE: 200A M.C.B.  VOLTS/PHASE: 480Y/277 V 3P/4W  SUPPLIED BY: SWBD-N1                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:                                        | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119                                                                    |                                                                                                                                                                                                                                                                                                                                                    | LINE-SIDE LUGS: MECHANICA                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CKT NO.  1 LTG-E101,E102 3 LTG-E119,E120,E121,E122,F101A 5 LTG-E108,E109,E110,E111,E112 7 LTG-E113,E114,E115,E116,E117,E118 9 LTS-NL,EXIT SIGNS, E10,E11A                                 | LOAD NOTES WIRE BKR P SIZE AMP  L Z 12 20 1 281  L Z 12 20 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A 1 0 1565                                                                                | ASE B C PHASE C AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2                                                            | IRE NOTES LOAD TYPE                                                                                                                                                                                                                                                                                                                                | DESCRIPTION CKT                                                                                                                                                                                                                                                                                                                                   |
| 11 LTS-CORRIDOR E10 13 LTS-E11A&B,F103A&B,D100A,D101A,D11 15 LTS-STAIR G06,VEST F102 17 LTS-MECH F201, ROOFTOP SERVICE 19 LTS-EXT. SCHOOL LOGO ACCENT                                     | L EM 12 20 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 313                                                                                       | 1346 0 1 20<br>1 20<br>1 20<br>1 20<br>1 20<br>494 0 1 20<br>1 20                                                        |                                                                                                                                                                                                                                                                                                                                                    | SPARE       12         SPARE       14         SPARE       16         SPARE       18         SPARE       20                                                                                                                                                                                                                                        |
| 21 LTS-EXTERIOR EGRESS ACCENTS 23 LTS-SOUTH EXTERIOR LIGHTS 25 LTS-ENTRY CORRIDOR D11 27 EXT LTG - BUS LOOP 29 EQUIPPED SPACE                                                             | L EM 10 20 1<br>L EM 10 20 1<br>L EM 10 20 1<br>L 0L 20 1 192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1856                                                                                      | 0 1 20<br>536 0 1 20<br>1 20<br>1 20<br>1 20<br>0 0 1 20                                                                 |                                                                                                                                                                                                                                                                                                                                                    | SPARE         22           SPARE         24           SPARE         26           SPARE         28           SPARE         30                                                                                                                                                                                                                      |
| 31 EQUIPPED SPACE 33 EQUIPPED SPACE 35 EQUIPPED SPACE 37 SPARE 39 SPARE                                                                                                                   | 1 0<br>1 1<br>20 1 0<br>20 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                         | 0 1 20<br>1 20<br>1 20<br>0 0 1 20                                                                                       |                                                                                                                                                                                                                                                                                                                                                    | SPARE         32           SPARE         34           SPARE         36           SPARE         40                                                                                                                                                                                                                                                 |
| 41 SPARE 43 EQUIPPED SPACE 45 EQUIPPED SPACE 47 EQUIPPED SPACE 49 EQUIPPED SPACE                                                                                                          | 20 1<br>1 0<br>1 1<br>1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           | 0 0 3 30                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                    | SPARE 42<br>44<br>46<br>48<br>50                                                                                                                                                                                                                                                                                                                  |
| 51 EQUIPPED SPACE 53 EQUIPPED SPACE 55 EQUIPPED SPACE 57 EQUIPPED SPACE 59 EQUIPPED SPACE                                                                                                 | 1 0 1 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0                                                                                         | 0 5100                                                                                                                   | 10 M<br>12 Z M                                                                                                                                                                                                                                                                                                                                     | AHU-8 (SUPPLY) 52<br>4 @ 3HP 54<br>RF-8 (AHU-8 RETURN)1@5HP 58<br>60                                                                                                                                                                                                                                                                              |
| 61 EQUIPPED SPACE 63 EQUIPPED SPACE 65 EQUIPPED SPACE 67 EQUIPPED SPACE 69 EQUIPPED SPACE                                                                                                 | 1 0<br>1 1<br>1 1<br>1 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                                                                                         | 5100 3 25                                                                                                                | 10 M                                                                                                                                                                                                                                                                                                                                               | AHU-7 (SUPPLY) 64<br>4 @ 3HP 66<br>RF-7 (AHU-7 RETURN)1@5HP 70                                                                                                                                                                                                                                                                                    |
| 71 EQUIPPED SPACE 73 EQUIPPED SPACE 75 EQUIPPED SPACE 77 EQUIPPED SPACE 79 EQUIPPED SPACE                                                                                                 | 1 1 0 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22857 0                                                                                   | 0 2106                                                                                                                   | DL                                                                                                                                                                                                                                                                                                                                                 | TX-L1E 78 80                                                                                                                                                                                                                                                                                                                                      |
| 81 EQUIPPED SPACE<br>83 EQUIPPED SPACE                                                                                                                                                    | TOTAL LOAD (VA): 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0<br>48722 VA 4749                                                                        | 0 3240<br>07 VA 48725 VA                                                                                                 | OL R                                                                                                                                                                                                                                                                                                                                               | TX-C1E 82 84                                                                                                                                                                                                                                                                                                                                      |
| LOAD TYPE         CONNECTE LOAD           EXISTING LOAD (E)         0 VA           COOLING (C)         4576 VA                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 1 A 177 A                                                                                                                |                                                                                                                                                                                                                                                                                                                                                    | PANELBOARD TOTALS  TOTAL CONNECTED LOAD 144943 VA                                                                                                                                                                                                                                                                                                 |
| HEATING (H) 0 VA LIGHTING (L) 17059 VA RECEPTACLES (R) 50100 VA MOTORS (M) 32430 VA SUPPLEMENTAL HEAT (U) 0 VA MISC EQUIP (Z) 23078 VA REFRIGERATION (F) 0 VA                             | 0% 0 VA<br>125% 21324 VA<br>60% 30050 VA<br>100% 32430 VA<br>100% 0 VA<br>100% 23078 VA<br>100% 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                    | TOTAL NEC LOAD 132503 VA  TOTAL CONNECTED CURRENT 174 A  TOTAL NEC DEMAND CURRENT 159 A                                                                                                                                                                                                                                                           |
| SIGN/DISPLAY (D)         0 VA           KITCHEN (K)         2400 VA           LARGEST MOTOR         15300 VA           SHOW WINDOW (W)         0 VA           TRACK LIGHTING         0 VA | 125% 0 VA<br>80% 1920 VA<br>125% 19125 VA<br>125% 0 VA<br>100% 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                   |
| SIGN/DISPLAY (D)         0 VA           KITCHEN (K)         2400 VA           LARGEST MOTOR         15300 VA           SHOW WINDOW (W)         0 VA                                       | 80% 1920 VA<br>125% 19125 VA<br>125% 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FAULT CURRENT: AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:                         | RE: ONE-LINE DIAGRAM FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119                                               |                                                                                                                                                                                                                                                                                                                                                    | EQUIPMENT GROUND BUS                                                                                                                                                                                                                                                                                                                              |
| SIGN/DISPLAY (D)  KITCHEN (K)  LARGEST MOTOR  SHOW WINDOW (W)  TRACK LIGHTING   PANELBOARD: 1C1E (NEW)  BUS AMPS: 150A  MAIN SIZE/TYPE: 150A M.C.B.  VOLTS/PHASE: 208Y/120 V 3P/4W        | 80%   1920 VA   125%   19125 VA   125%   0 VA   100%   0 VA     100%   0 VA     100%   0 VA     100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   10 | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A D 360 1080                    | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE P BKR W AMP S                                           | IRE NOTES LOAD TYPE 12 R 12 R 12 R 12 R 12 R                                                                                                                                                                                                                                                                                                       | 200% NEUTRA  LINE-SIDE LUGS: MECHANICA  DESCRIPTION CKT                                                                                                                                                                                                                                                                                           |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%   1920 VA   125%   19125 VA   125%   0 VA   100%   0 VA   100%   0 VA   100%   0 VA   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   1 | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A 30 360 1080 0 360 720 720 720 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S                                         | IZE     TYPE       12     R                                                         | 200% NEUTRA LINE-SIDE LUGS: MECHANICA  DESCRIPTION  RCPT - E120 IT A  RCPT - E120 IT B  RCPT - E120 IT C  RCPT - E120 IT D  RCPT - E120 IT E  RCPT - E120 IT F  RCPT - E120 IT F  RCPT - D12 TVS  14  RCPT - D100A COMPUTERS A  RCPT - D100A COMPUTERS B  RCPT - D100A COMPUTERS C  20                                                            |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE         TYPE           12         R           12         R | 200% NEUTRA LINE-SIDE LUGS: MECHANICA  DESCRIPTION  RCPT - E120 IT A  RCPT - E120 IT B  RCPT - E120 IT C  RCPT - E120 IT D  RCPT - E120 IT E  RCPT - E120 IT E  RCPT - E120 IT F  RCPT - D12 TVS  RCPT - D100A COMPUTERS A  RCPT - D100A COMPUTERS B  RCPT - D100A COMPUTERS C  RCPT - D100A TV  SPARE  SPARE  SPARE  SPARE  30  SPARE  30  SPARE |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE     TYPE       12     R                                                         | 200% NEUTRA LINE-SIDE LUGS: MECHANICA  DESCRIPTION  RCPT - E120 IT A  RCPT - E120 IT B  RCPT - E120 IT C  RCPT - E120 IT D  RCPT - E120 IT E  RCPT - E120 IT E  RCPT - E120 IT F  RCPT - D100A COMPUTERS A  RCPT - D100A COMPUTERS B  RCPT - D100A COMPUTERS C  RCPT - D100A TV  SPARE  SPARE  28  SPARE  28  SPARE  30                           |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S                                         | IZE     TYPE       12     R                                                         | 200% NEUTRA                                                                                                                                                                                                                                                                                                                                       |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S                                         | IZE     TYPE       12     R                                                         | DESCRIPTION                                                                                                                                                                                                                                                                                                                                       |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE     TYPE       12     R                                                         | 200% NEUTRA                                                                                                                                                                                                                                                                                                                                       |
| SIGN/DISPLAY (D)                                                                                                                                                                          | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE     TYPE       12     R                                                         | DESCRIPTION                                                                                                                                                                                                                                                                                                                                       |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE     TYPE       12     R                                                         | DESCRIPTION                                                                                                                                                                                                                                                                                                                                       |
| SIGN/DISPLAY (D)                                                                                                                                                                          | B0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AIC RATED:     AIC RATING:     SERVES:     MOUNTING:     LOCATION:  PHASE                 | FULLY RATED FCA +10% MINIMUM AREA E SURFACE ELEC E119  ASE PHASE C P BKR W AMP S  1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2 | IZE     TYPE       12     R                                                         | DESCRIPTION                                                                                                                                                                                                                                                                                                                                       |

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN

FA = RED/HANDLE-ON CLAMP.GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.

# DENOTES PHASES TO BE TIED.
IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE. LO = HANDLE-ON CLAMP.

N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER.

VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Dec 2 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS 1 ADDENDUM 001 10/13/20 2 ADDENDUM 002 10/19/20 3 ASI 003 12/02/20

13-20102-00 ELECTRICAL SCHEDULES

PANEL 1H1E

PANEL 1L1E PANEL 1C1E

| BUS A<br>MAIN<br>VOLT | AMPS: 225A<br>SIZE/TYPE: 225A M.C.B.<br>S/PHASE: 208Y/120 V 3P/4W<br>PLIED BY: 1H1F VIA TX-1L1F | (IVLVV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                |                 |                  |            | AIC RATE<br>AIC RATI<br>SERVES:<br>MOUNTIN<br>LOCATIO | ING:<br>:<br>NG: | AREA F | 0% MINIMUI |      |   |          |          |       |      | LINE-SIDE LUGS: ME                            | =CHANICAI |
|-----------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|-----------------|------------------|------------|-------------------------------------------------------|------------------|--------|------------|------|---|----------|----------|-------|------|-----------------------------------------------|-----------|
| CKT                   | DESCRIPTION                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LOAD   | NOTES          | WIRE            | BKR P            | PH         | ASE                                                   | PH               | HASE   | PHA        | ASF  | Р | BKR V    | NIRF     | NOTES | LOAD | DESCRIPTION                                   | CKT       |
| NO.                   | BEGGIVII FIGIV                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TYPE   | NOTES          | SIZE            | AMP              |            | A                                                     |                  | В      |            |      |   | AMP      | SIZE     | NOTES | TYPE |                                               | NO.       |
| 1                     | RCPT - F104 EWC                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      | GF             | 12              | 20 1             |            | 360                                                   | 5.40             | 000    | $\neg$     |      | 1 | 20       | 12       |       | R    | RCPT-F104 DATA A                              | 2         |
| 5                     | RCPT - F104A/B RESTROC<br>RCPT - F104 GENERAL A                                                 | DMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R      |                | 12<br>12        | 20 1<br>20 1     |            |                                                       | 540              | 360    | 900        | 1000 | 1 | 20<br>20 | 12<br>12 |       | R    | RCPT-F104 DATA B<br>RCPT - F104 SCOREBOARD A  | 6         |
| 7                     | RCPT - F104 GENERAL B                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 12              | 20 1             | 1080       | 1000                                                  | ]                |        | 300        | 1000 | 1 | 20       | 12       |       | Z    | RCPT - F104 SCOREBOARD B                      | 8         |
| مگد                   | RCPT - F104C ELECTRICA<br>SPARE                                                                 | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R      | ~~~            | 12              | 20 1             |            |                                                       | 180              | 800    |            |      | 1 | 20       | 12       |       | Z    | PWR - F104 TIMECLOCK A                        | 10        |
| 11                    |                                                                                                 | V- V- V- V- V-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ,      |                |                 | 20 1             | <b>)</b>   | F00                                                   | 7                |        | 0          | 800  | 1 | 20       | 12       | 1.01/ | Z    | PWR - F104 TIMECLOCK B                        | 12        |
| 13<br>15              | SPARE<br>SPARE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 0          | 500                                                   | 0                | 500    |            |      | 1 | 20<br>20 | 12<br>12 | LCK   | Z    | PWR-LOUVER BATTERY BACKUP PWR-LOUVER CONTROLS | 14<br>16  |
| 17                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 3          |                                                       |                  | 000    | 0          | 1500 | 2 | 20       | 12       |       | ZU   | WH-10                                         | 18        |
| 19                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 0          | 1500                                                  |                  |        |            |      |   |          |          |       |      |                                               | 20        |
| 21                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 3          |                                                       | 0                | 48     |            | 0    | 1 | 15       | 12<br>12 |       | M    | RP-4 PWR-MECHANICAL CTRL PNL                  | 22        |
| 23<br>25              | SPARE<br>SPARE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | <b>3</b> 0 | 0                                                     | 1                |        | 0          | 0    | 1 | 20<br>20 | 12       |       | Z    | SPARE                                         | 24<br>26  |
| 27                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 3          |                                                       | 0                | 0      |            |      | 1 | 20       |          |       |      | SPARE                                         | 28        |
| 29                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 3          | T                                                     | 1                |        | 0          | 0    | 1 | 20       |          |       |      | SPARE                                         | 30        |
| 31                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             | 0          | 0                                                     |                  |        | $\neg$     |      | 1 | 20       |          |       |      | SPARE                                         | 32        |
| <b>بنور</b><br>35     | SPARE GYM CONTROL PANEL PO                                                                      | WER TO THE TOTAL T | Z      | uuu            | <b>سب</b><br>12 | را م0عر<br>20 1  |            |                                                       | 0                | 0      | 500        | 0    | 1 | 20<br>20 |          |       |      | SPARE SPARE                                   | 34        |
| 37                    | GYM CONTROL PANEL PC                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Z      |                | 12              | 20 1             | 500        | 0                                                     | ]                |        | 300        |      | 1 | 20       |          |       |      | SPARE                                         | 38        |
| 39                    | PWR - F104 HOOP (NW)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10              | 30 1             |            |                                                       | 1920             | 0      |            |      | 1 | 20       |          |       |      | SPARE                                         | 40        |
| 41                    | PWR - F104 HOOP (NE)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10              | 30 1             |            |                                                       | ٦                |        | 1920       | 0    | 1 | 20       |          |       |      | SPARE                                         | 42        |
| 43<br>45              | PWR - F104 HOOP (E)<br>PWR - F104 HOOP (SE)                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10<br>10        | 30 1<br>30 1     |            | 0                                                     | 1920             | 0      |            |      | 1 |          |          |       |      | EQUIPPED SPACE EQUIPPED SPACE                 | 44<br>46  |
| 47                    | PWR - F104 HOOP (SU)                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10              | 30 1             |            |                                                       | 1920             | 0      | 1920       | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 48        |
| 49                    | PWR - F104 HOOP (W)                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10              | 30 1             | 1920       | 0                                                     |                  |        |            |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 50        |
| 51                    | PWR - F104 CURTAIN A                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R      |                | 10              | 30 1             |            |                                                       | 1920             | 0      | 1000       |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 52        |
| 53<br>55              | PWR - F104 CURTAIN B                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R<br>M |                | 10<br>12        | 30 1<br>15 1     | 100        | 0                                                     | 7                |        | 1920       | 0    | 1 |          |          |       |      | EQUIPPED SPACE EQUIPPED SPACE                 | 54<br>56  |
| 57                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IVI    |                | 12              | 20 1             |            | U                                                     | 0                | 0      |            |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 58        |
| 59                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             |            |                                                       |                  |        | 0          | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 60        |
| 61                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             |            | 0                                                     |                  |        | $\neg$     |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 62        |
| 63<br>65              | SPARE<br>SPARE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1<br>20 1     |            |                                                       | 0                | 0      | 0          | 0    | 1 |          |          |       |      | EQUIPPED SPACE EQUIPPED SPACE                 | 64<br>66  |
| 67                    | SPARE                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 20 1             |            | 0                                                     | ]                |        |            | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 68        |
| 69                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            | 1                                                     | 0                | 0      |            |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 70        |
| 71                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            |                                                       | ٦                |        | 0          | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 72        |
| 73<br>75              | EQUIPPED SPACE EQUIPPED SPACE                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            | 0                                                     | 0                | 0      |            |      | 1 |          |          |       |      | EQUIPPED SPACE EQUIPPED SPACE                 | 74<br>76  |
| 77                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            |                                                       |                  |        | 0          | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 78        |
| 79                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            | 0                                                     |                  |        |            |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 80        |
| 81                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                | _          |                                                       | 0                | 0      |            |      | 1 |          |          |       |      | EQUIPPED SPACE                                | 82        |
| 83                    | EQUIPPED SPACE                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                |                 | 1                |            |                                                       |                  |        | 0          | 0    | 1 |          |          |       |      | EQUIPPED SPACE                                | 84        |
|                       |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | TOTAL          |                 | ,                |            | 0 VA                                                  |                  | 88 VA  | 1046       |      |   |          |          |       |      |                                               |           |
|                       |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | TOTAL          |                 |                  |            | 7 A                                                   |                  | 88 A   | 88         | 5 A  |   |          |          |       |      |                                               |           |
|                       | ) TYPE                                                                                          | CONNECTED<br>LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | F      | EMAND<br>ACTOR |                 | DEMANI           | PANEL      | BOARD NO                                              | JIES             |        |            |      |   |          |          |       |      | PANELBOARD TOTALS                             |           |
|                       | TING LOAD (E)                                                                                   | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 100%           |                 | 0 VA             |            |                                                       |                  |        |            |      |   |          |          |       |      | TOTAL CONNECTED LOAD                          | 27708 VA  |
|                       | LING (C)<br>TING (H)                                                                            | 0 VA<br>0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 0%<br>100%     |                 | 0 VA<br>0 VA     |            |                                                       |                  |        |            |      |   |          |          |       |      | TOTAL NEC LOAD                                | 23253 VA  |
|                       | TING (L)                                                                                        | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 125%           |                 | 0 VA             |            |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
| RECE                  | PTACLÉS (R)                                                                                     | 18960 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | 76%            |                 | 480 VA           |            |                                                       |                  |        |            |      |   |          |          |       |      | TOTAL CONNECTED CURRENT                       | 77 A      |
|                       | ORS (M)                                                                                         | 48 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | 100%           |                 | 18 VA            |            |                                                       |                  |        |            |      |   |          |          |       |      | TOTAL NEC DEMAND CURRENT                      | 65 A      |
|                       | PLEMENTAL HEAT (U) EQUIP (Z)                                                                    | 3000 VA<br>5600 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | 100%           |                 | 000 VA<br>000 VA |            |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
|                       | RIGERATION (F)                                                                                  | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 100%           |                 | 0 VA             |            |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
| SIGN                  | /DISPLAY (D)                                                                                    | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 125%           |                 | 0 VA             |            |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
|                       | HEN (K)                                                                                         | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 100%           |                 | 0 VA             |            |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
|                       | GEST MOTOR<br>W WINDOW (W)                                                                      | 100 VA<br>0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | 125%<br>125%   |                 | 25 VA<br>0 VA    | -          |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |
|                       |                                                                                                 | 0 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 100%           |                 | 0 VA             | _          |                                                       |                  |        |            |      |   |          |          |       |      |                                               |           |

| BUS A<br>MAIN<br>VOLT | AMPS: 225A SIZE/TYPE: MLO S/PHASE: 480Y/277 V 3P/4W PLIED BY: SWBD-N1 |              |                |              |        |       | FAULT ( AIC RAT AIC RAT SERVES MOUNT LOCATI | TING:<br>S:<br>ING: | FULLY R<br>FCA +10<br>STAGE A<br>SURFAC | ATED<br>% MINIMU<br>AREA f<br>E |              |   |    |              |       |              | EQUIPMENT G              | ROUND BUS   |
|-----------------------|-----------------------------------------------------------------------|--------------|----------------|--------------|--------|-------|---------------------------------------------|---------------------|-----------------------------------------|---------------------------------|--------------|---|----|--------------|-------|--------------|--------------------------|-------------|
|                       |                                                                       |              |                |              |        |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | LINE-SIDE LUGS: N        | /IECHANICAL |
| CKT<br>NO.            | DESCRIPTION                                                           | LOAD<br>TYPE | NOTES          | WIRE<br>SIZE |        |       | ASE<br>A                                    | PH                  | ASE<br>B                                |                                 | ASE<br>C     |   |    | WIRE<br>SIZE | NOTES | LOAD<br>TYPE |                          | CKT<br>NO.  |
| 1                     | LTS - CORRIDOR D12                                                    | 1176         | EM             | 10           | 20 1   | 546   |                                             |                     | <u> </u>                                |                                 | 5            |   | 20 | SIZL         |       | IIIFL        | SPARE                    | 2           |
| 3                     | LTS - COMMONS D101 CYLINDERS N,E                                      | l            | EM             | 10           | 20 1   | U+U   |                                             | 782                 | 0                                       | 7                               |              |   | 20 |              |       |              | SPARE                    | 4           |
| 5                     | LTS - COMMONS D101 CYLINDERS S,W                                      | I            | EM             | 10           | 20 1   |       |                                             |                     |                                         | 642                             | 0            |   | 20 |              |       |              | SPARE                    | 6           |
| 7                     | LTS - COMMONS D101 LINEARS WEST                                       | ī            | EM             | 10           | 20 1   | 1734  | 0                                           |                     |                                         | 0.12                            |              |   | 20 |              |       |              | SPARE                    | 8           |
| 9                     | LTS - COMMONS D101 LINEARS EAST                                       | i            | EM             | 10           | 20 1   | 1701  |                                             | 1790                | 0                                       | 1                               |              |   | 20 |              |       |              | SPARE                    | 10          |
| 11                    | LTS-COMP GYM F101 (z15)                                               | Ī            | EM             | 10           | 20 1   |       |                                             |                     |                                         | 2147                            | 0            |   | 20 |              |       |              | SPARE                    | 12          |
| 13                    | LTS-COMP GYM F101 (z16)                                               | L            | EM             | 10           | 20 1   | 1872  | 0                                           |                     |                                         |                                 |              |   | 20 |              |       |              | SPARE                    | 14          |
| 15                    | LTS-COMP GYM F101 (z17)                                               | Ī            | EM             | 10           | 20 1   |       |                                             | 1872                | 0                                       |                                 |              |   | 20 |              |       |              | SPARE                    | 16          |
| 17                    | LTS-COMPETITION GYM STAGE                                             | L            |                | 12           | 20 1   |       |                                             |                     |                                         | 494                             | 0            |   | 20 |              |       |              | SPARE                    | 18          |
| 19                    | LIGHTING                                                              | LΖ           |                |              | 20 1   | 526   | 0                                           |                     |                                         |                                 |              |   | 20 |              |       |              | SPARE                    | 20          |
| 21                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             | 0                   | 0                                       |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 22          |
| 23                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             |                     |                                         | 0                               | 0            | 1 |    |              |       |              | EQUIPPED SPACE           | 24          |
| 25                    | EQUIPPED SPACE                                                        |              |                |              | 1      | 0     | 0                                           |                     |                                         |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 26          |
| 27                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             | 0                   | 0                                       | ]                               |              | 1 |    |              |       |              | EQUIPPED SPACE           | 28          |
| 29                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             |                     |                                         | 0                               | 0            | 1 |    |              |       |              | EQUIPPED SPACE           | 30          |
| 31                    | EQUIPPED SPACE                                                        |              |                |              | 1      | 0     | 0                                           |                     |                                         |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 32          |
| 33                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             | 0                   | 0                                       |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 34          |
| 35                    | EQUIPPED SPACE                                                        |              |                |              | 1      |       |                                             |                     | '                                       | 0                               | 0            | 1 |    |              |       |              | EQUIPPED SPACE           | 36          |
| 37                    |                                                                       |              |                |              |        | 6745  | 0                                           |                     |                                         |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 38          |
| 39                    | TX-1C1FA AND PANEL 1C1FA                                              | LRZ          |                | OL           | 70  3  |       |                                             | 6777                | 0                                       |                                 |              | 1 |    |              |       |              | EQUIPPED SPACE           | 40          |
| 41                    |                                                                       |              |                |              |        |       |                                             |                     |                                         | 6893                            | 0            | 1 |    |              |       |              | EQUIPPED SPACE           | 42          |
|                       |                                                                       |              | TOTAL TOTAL    | <u> </u>     | (VA):  |       | 23 VA<br>2 A                                |                     | 21 VA<br>1 A                            |                                 | 76 ∨A<br>7 A |   |    |              |       |              |                          |             |
| LOAD                  | TYPE CONNECTED LOAD                                                   |              | EMAND<br>ACTOR | NEC          | DEMAND | PANEL | BOARD N                                     | OTES                |                                         |                                 |              |   |    |              |       |              | PANELBOARD TOTALS        |             |
| EXIST                 | TING LOAD (E) 0 VA                                                    |              | 100%           |              | O VA   |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL CONNECTED LOAD     | 22010 \/A   |
| COOL                  | _ING (C) 0 VA                                                         |              | 0%             | (            | 0 VA   |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL CONNECTED LOAD     | 32819 VA    |
| HEAT                  | ING (H) 0 VA                                                          |              | 100%           |              | 0 VA   |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL NEC LOAD           | 37511 VA    |
| LIGH                  | ΓING (L) 18769 VA                                                     |              | 125%           | 23           | 461 VA |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL CONNECTED CURRENT  | 20.4        |
|                       | EPTACLES (R) 5040 VA                                                  |              | 100%           |              | 140 VA |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL CONNECTED CURRENT  | 39 A        |
|                       | ORS (M) 0 VA                                                          |              | 100%           |              | 0 VA   |       |                                             |                     |                                         |                                 |              |   |    |              |       |              | TOTAL NEC DEMAND CURRENT | 45 A        |
|                       | PLEMENTAL HEAT (U) 0 VA                                               |              | 100%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | EQUIP (Z) 9010 VA                                                     |              | 100%           |              | 10 VA  | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | RIGERATION (F) 0 VA                                                   |              | 100%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | /DISPLAY (D) 0 VA                                                     |              | 125%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | HEN (K) 0 VA                                                          |              | 100%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | SEST MOTOR 0 VA                                                       |              | 125%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
|                       | V WINDOW (W) 0 VA                                                     |              | 125%           |              | 0 VA   | 1     |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |
| TRAC                  | CK LIGHTING 0 VA                                                      |              | 100%           |              | 0 VA   |       |                                             |                     |                                         |                                 |              |   |    |              |       |              |                          |             |

| IND BUS    | EQUIPMENT GRO                                     |              |       |    |              | <u> </u> |             |             | ED:<br>NG: | AIC RATE |          |              |              |              |              | A (NEW)      | NELBOARD: 1C1F<br>AMPS: 225A       | BUS A      |
|------------|---------------------------------------------------|--------------|-------|----|--------------|----------|-------------|-------------|------------|----------|----------|--------------|--------------|--------------|--------------|--------------|------------------------------------|------------|
|            |                                                   |              |       |    |              |          |             | AREA F      |            | SERVES   |          |              |              |              |              |              | SIZE/TYPE: 150A M.C.B.             |            |
|            |                                                   |              |       |    |              |          |             | SURFAC      |            | MOUNTI   |          |              |              |              |              |              | S/PHASE: 208Y/120 V 3P/4W          |            |
| EUTRAL     |                                                   |              |       |    |              | SE D112/ | RM STORA    | PLATFO      | N:         | LOCATIO  |          |              |              |              |              | Ā            | LIED BY: 1H1FA VIA TX-1C1F         | UPPL       |
| HANICAL    | LINE-SIDE LUGS: ME                                |              |       |    |              |          |             |             | I          |          |          |              |              | I            | 1            | ı            | 1                                  |            |
| CKT<br>NO. |                                                   | LOAD<br>TYPE | NOTES |    | P BKR AMP    | SE       | PH <i>I</i> | ASE<br>B    | _          | ASE<br>A |          | BKR P<br>AMP | WIRE<br>SIZE | NOTES        | LOAD<br>TYPE |              | DESCRIPTION                        | CKT<br>NO. |
| 2          | PWR-SKYFOLD DOOR GYM                              | Z            |       | 10 | 3 30         |          |             | 2667        | 720        | 2667     | 360      | 20 1<br>20 1 | 12<br>12     |              | R<br>R       |              | RCPT-D112A IT A<br>RCPT-D112,D14   | 1 3        |
| 6          |                                                   |              |       |    |              | 2667     | 360         | 1           | 1          |          |          | 20 1         | 12           |              | R            |              | RCPT-D112A IT B                    | 5          |
| 8          | RCPT-FOLLOWSPOT F101 RCPT-FOLLOWSPOT F101         | L            |       | 10 | 1 20<br>1 20 |          |             | 500         | 360        | 500      | 360      | 20 1<br>20 1 | 12<br>12     |              | R<br>R       |              | RCPT-D112A IT C<br>RCPT-D112A IT D | 7          |
| 12         | RCPTS-FOH GYM LIGHTING                            | L            |       | 10 | 1 20         | 1296     | 360         | 300         | 300        |          |          | 20 1         | 12           |              | R            |              | RCPT-D112 A                        |            |
| 14         | RCPTS-STAGE LTS ZONE 1                            | L            |       | 10 | 1 20         |          |             |             |            | 810      | 360      | 20 1         | 12           |              | R            |              | RCPT- D112 B                       | 13         |
| 16         | RCPTS-STAGE LTS ZONE 2                            | L            |       | 10 | 1 20         |          |             | 810         | 360        |          |          | 20 1         | 12           |              | R            |              | RCPT- D112C                        |            |
| 18<br>20   | RCPTS-STAGE LTS ZONE 3 RCPTS-FOH COMMONS LIGHTING | L            |       | 10 | 1 20<br>1 20 | 810      | 360         |             | 1          | 648      | 360      | 20 1<br>20 1 | 12<br>12     |              | R<br>R       |              | RCPT - D112 D<br>RCPT - D112 E     | 17<br>19   |
| 22         | PWR-8-PORT NETWORK BOX                            | Z            |       | 12 | 1 20         |          |             | 500         | 360        | 040      | 300      | 20 1         | 12           |              | R            |              | RCPT - D112 E                      |            |
| 24         | RCPT-D101 LGT CONTROL BOARD                       | R            |       | 12 | 1 20         | 180      | 360         |             |            |          |          | 20 1         | 12           |              | R            |              | RCPT - D112 G                      | 23         |
| 26         | RCPT-F101 LGT CONTROL BOARD                       | R            | _     | 12 | 1 20         |          |             |             |            | 180      | 500      | 20 1         | 12           |              | Z            |              | PWR- LCP1F                         | 25         |
| 28         | RCPT-FOLLOWSPOT D101                              | L            |       | 10 | 1 20         | 500      | 0           | 500         | 0          |          |          | 20 1         |              |              |              |              | SPARE                              | 27         |
| 30         | RCPT-FOLLOWSPOT D101 SPARE                        | L            |       | 10 | 1 20<br>1 20 | 500      | U           |             | ]          | 0        | 0        | 20 1<br>20 1 |              |              |              |              | SPARE<br>SPARE                     | 29<br>31   |
| 34         | SPARE                                             |              |       |    | 1 20         |          |             | 0           | 0          |          | <u> </u> | 20 1         |              |              |              |              | SPARE                              | 33         |
| 36         | SPARE                                             |              |       |    | 1 20         | 0        | 0           |             | 1          |          |          | 20 1         |              |              |              |              | SPARE                              | 5          |
| 38         | SPARE                                             |              |       |    | 1 20         |          | l .         | 0           | 0          | 0        | 0        | 20 1         |              |              |              |              | SPARE                              | 37         |
| 40         | SPARE SPARE                                       |              |       |    | 1 20<br>1 20 | 0        | 0           | 0           | 0          |          |          | 20 1<br>20 1 |              |              |              |              | SPARE<br>SPARE                     | 9          |
| 44         | SPARE                                             |              |       |    | 1 20         | 0        | U           |             | ]          | 0        | 0        | 20 1         |              |              |              |              | SPARE                              | 3          |
| 46         | SPARE                                             |              |       |    | 1 20         |          |             | 0           | 0          |          |          | 20 1         |              |              |              |              | SPARE                              | .5         |
| 48         | SPARE                                             |              |       |    | 1 20         | 0        | 0           |             | 1          |          |          | 20 1         |              |              |              |              | SPARE                              | 7          |
| 50<br>52   | SPARE SPARE                                       |              |       |    | 1 20<br>1 20 |          | Ĭ           | 0           | 0          | 0        | 0        | 20 1<br>20 1 |              |              |              |              | SPARE<br>SPARE                     | .9<br>1    |
| 54         | SPARE                                             |              |       |    | 1 20         | 0        | 0           | U           | U          |          |          | 20 1         |              |              |              |              | SPARE                              | 3          |
| 56         | SPARE                                             |              |       |    | 1 20         |          | - U         |             |            | 0        | 0        | 20 1         |              |              |              |              | SPARE                              |            |
| 58         | EQUIPPED SPACE                                    |              |       |    | 1            |          |             | 0           | 0          |          |          | 1            |              |              |              |              | EQUIPPED SPACE                     | 57         |
| 60         | EQUIPPED SPACE EQUIPPED SPACE                     |              |       |    | 1            | 0        | 0           |             | 1          | 0        | 0        | 1            |              |              |              |              | EQUIPPED SPACE EQUIPPED SPACE      |            |
| 62<br>64   | EQUIPPED SPACE                                    |              |       |    | 1            |          |             | 0           | 0          | 0        | U        | 1            |              |              |              |              | EQUIPPED SPACE                     | 31<br>33   |
| 66         | EQUIPPED SPACE                                    |              |       |    | 1            | 0        | 0           |             |            |          |          | 1            |              |              |              |              | EQUIPPED SPACE                     | 55         |
| 68         | EQUIPPED SPACE                                    |              |       |    | 1            |          | 1           |             |            | 0        | 0        | 1            |              |              |              |              | EQUIPPED SPACE                     | 57         |
| 70         | EQUIPPED SPACE                                    |              |       |    | 1            | 0        | 0           | 0           | 0          |          |          | 1            |              |              |              |              | EQUIPPED SPACE                     |            |
| 72<br>74   | EQUIPPED SPACE EQUIPPED SPACE                     |              |       |    | 1            | 0        | 0           |             | ]          | 0        | 0        | 1            |              |              |              |              | EQUIPPED SPACE EQUIPPED SPACE      | '1<br>'3   |
| 76         | EQUIPPED SPACE                                    |              |       |    | 1            |          |             | 0           | 0          |          |          | 1            |              |              |              |              | EQUIPPED SPACE                     | 5          |
| 78         | EQUIPPED SPACE                                    |              |       |    | 1            | 0        | 0           |             |            |          |          | 1            |              |              |              |              | EQUIPPED SPACE                     | 7          |
| 80         | EQUIPPED SPACE                                    |              |       |    | 1            |          | Ì           |             | 0          | 0        | 0        | 1            |              |              |              |              | EQUIPPED SPACE                     |            |
| 82<br>84   | EQUIPPED SPACE EQUIPPED SPACE                     |              |       |    | 1            | 0        | 0           | 0           | 0          |          |          | 1            |              |              |              |              | EQUIPPED SPACE EQUIPPED SPACE      |            |
|            |                                                   |              |       |    | -            |          | 6893        | 7 VA        | 677        | 5 VA     | 674      | ١/٨١٠        |              | TOTAL        |              |              |                                    | -          |
|            |                                                   |              |       |    |              |          | 57          | 7 VA<br>7 A |            | S A      |          | VA).         | <u> </u>     | TOTAL        |              |              |                                    |            |
|            | PANELBOARD TOTALS                                 |              |       |    |              |          |             |             | OTES       | BOARD NO |          | DEMAND       |              | EMAND        |              | CONNECTED    | TYPE                               | AD         |
|            |                                                   |              |       |    |              |          |             |             |            |          |          |              |              | ACTOR        |              | LOAD         |                                    | /10-       |
| 0414 VA    | TOTAL CONNECTED LOAD                              |              |       |    |              |          |             |             |            |          | -        | VA<br>VA     |              | 100%<br>0%   |              | 0 VA<br>0 VA | ΓING LOAD (E)<br>LING (C)          |            |
| 2008 VA    | TOTAL NEC LOAD                                    |              |       |    |              |          |             |             |            |          | †        | VA VA        |              | 100%         |              | 0 VA         | ING (H)                            |            |
| 57 A       | TOTAL CONNECTED CURRENT                           |              |       |    |              |          |             |             |            |          | ]        | 68 VA        | 79           | 125%         |              | 6374 VA      | ΓING (L)                           | GHT        |
|            |                                                   |              |       |    |              |          |             |             |            |          | -        | 40 VA        |              | 100%         |              | 5040 VA      | PTACLES (R)                        |            |
| 61 A       | TOTAL NEC DEMAND CURRENT                          |              |       |    |              |          |             |             |            |          | +        | VA<br>VA     |              | 100%         |              | 0 VA<br>0 VA | DRS (M)<br>PLEMENTAL HEAT (U)      |            |
|            |                                                   |              |       |    |              |          |             |             |            |          | 1        | 00 VA        |              | 100%         |              | 9000 VA      | EQUIP (Z)                          |            |
|            |                                                   |              |       |    |              |          |             |             |            |          | 1        | ) VA         | (            | 100%         |              | 0 VA         | IGERATION (F)                      | EFRI       |
|            |                                                   |              |       |    |              |          |             |             |            |          | 1        | VA           |              | 125%         |              | 0 VA         | /DISPLAY (D)                       |            |
|            |                                                   |              |       |    |              |          |             |             |            |          | +        | VA<br>VA     |              | 100%<br>125% |              | 0 VA<br>0 VA | HEN (K)<br>EEST MOTOR              |            |
|            |                                                   |              |       |    |              |          |             |             |            |          | +        | ) VA<br>) VA |              | 125%         |              | 0 VA         | V WINDOW (W)                       |            |
|            |                                                   |              |       |    |              |          |             |             |            |          | 4        | VA VA        |              | 100%         |              | 0 VA         | K LIGHTING                         |            |

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.

ETR = EXISTING TO REMAIN FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). # DENOTES PHASES TO BE TIED.

GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE.

LO = HANDLE-ON CLAMP. N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.

ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Dec 2 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE REVISIONS ADDENDUM 002 2 ASI 003

13-20102-00 ELECTRICAL SCHEDULES

PANEL 1H1F PANEL 1H1FA

PANEL 1L1F PANEL 1C1FA

0 VA 0 VA

8820 VA 7958 VA

0 VA

14867 VA

0 VA 0 VA

5360 VA

2000 VA 0 VA 0 VA

8820 VA

7958 VA

0 VA 14867 VA

0 VA 0 VA

4288 VA

2500 VA 0 VA 0 VA

100%

100%

125%

80%

125% 125% 100%

HEATING (H)

LIGHTING (L)

MOTORS (M)

MISC EQUIP (Z)

KITCHEN (K)

REFRIGERATIÓN (F) SIGN/DISPLAY (D)

LARGEST MOTOR SHOW WINDOW (W)

TRACK LIGHTING

RECEPTACLES (R)

SUPPLEMENTAL HEAT (

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN

FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE. # DENOTES PHASES TO BE TIED. IG = ISOLATED GROUND CIRCUIT.

L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE. LO = HANDLE-ON CLAMP. N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER.

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. RP = CIRCUIT VIA RELAY PANEL. SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE.

ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

**RELEASE FOR** CONSTRUCTION S NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI



Oct 19 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS ADDENDUM 001

10/19/20

13-20102-00 ELECTRICAL

ADDENDUM 002

TOTAL NEC LOAD 40721 VA

TOTAL CONNECTED CURRENT 115 A

TOTAL NEC DEMAND CURRENT 113 A

SCHEDULES

PANEL 1H1G

PANEL 1L1G

| ANELBOARD: 1K1 (NEW)  S AMPS: 400A IN SIZE/TYPE: MLO LTS/PHASE: 480Y/277 V 3P/4W PPLIED BY: SWBD-N1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                         |                    | FAULT ( AIC RAT AIC RAT SERVES MOUNT LOCATI                                                                                       | ED:<br>ING:<br>::<br>NG:                                                       | FULLY R<br>FCA +10<br>KITCHEN<br>SURFAC                                                                   | % MINIMUI<br>N                                                                         | Л                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |                  |                         | EQUIPMENT G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ROUND BUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PANELB  BUS AMPS: 40  MAIN SIZE/TY  VOLTS/PHASE  SUPPLIED BY |
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| T DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NOTES                                       |                                                                                                                                                    |                                                                                                                                                                                                                                                                                                    | P PH               | IASE                                                                                                                              |                                                                                | IASE<br>B                                                                                                 | PH/                                                                                    |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |                  | LOAD                    | LINE-SIDE LUGS: N<br>DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | СКТ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CKT DESCE                                                    |
| DISHWASHER (E-47)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LCK                                         | 8                                                                                                                                                  | 50 S                                                                                                                                                                                                                                                                                               | 10880              | 8000                                                                                                                              | 10880                                                                          | 8000                                                                                                      |                                                                                        |                                                                      | 3 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SIZE<br>8                                          | LCK              | TYPE<br>K               | COMBI OVEN (E-16) F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NO.<br>2<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NO. 1 EQUIP 3 EQUIP                                          |
| BOOSTER HEATER (E-47A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                         | 10076              | 0                                                                                                                                 | 10076                                                                          | 0                                                                                                         | 10880                                                                                  | 8000                                                                 | 3 50                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6<br>8<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 EQUIP<br>7 EQUIP<br>9 EQUIP                                |
| COMBI OVEN (E-16) A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                         | 8000               | 0                                                                                                                                 | 8000                                                                           | 0                                                                                                         | 10076                                                                                  | 0                                                                    | 3 40                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12<br>14<br>16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11 EQUIP<br>13<br>15 SPARE                                   |
| COMBI OVEN (E-16) B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| EEPTACLES (R)         5940 VA           FORS (M)         20992 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| N SIZE/TYPE: 400A M.C.B.<br>_TS/PHASE: 208Y/120 V 3P/4W<br>PPLIED BY: 1K1 VIA TX-1KA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| HEATED CABINET (E-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| GENERAL (E-904)<br>HAND SINK (E-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                               | KITCHEN (K) LARGEST MO                                       |
| LOAD CENTER (E-34)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                               | TRACK LIGHT                                                  |
| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26) COOLER-EVAP (E-27) GENERAL (E-903)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  REFRIGERATOR (E-58) HEATED CABINET (E-57)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-42)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-904) C GENERAL (E-902) B HEATED CABINET (E-54)  EF-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                               | F R K R R K K K R K R K R K M M K K K R R K K K K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                               | F R K R R K K K R R K K R R K K K K K K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                               | F R K R R K K R K R K M M M K K R K K K K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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106 108 110 112 114 116 118 120 122 124 126 128                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |
| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-46)  DISPOSAL (E-904) C GENERAL (E-904) C GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) HEATED DISPLAY (E-93) COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-74)  COLD WELL (E-76/E-79) COLD FOOD WELL (E-77) EREFRIGERATED CASE (E-97) EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F R K R R K K K R R K M M M K K R R K K K K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GFEP  GF  GF  GF  GF  GF  GF  GF  GF  GF  G | 12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 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1116 1118 120 122 124 126                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |
| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-46)  DISPOSAL (E-49)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-904) C GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) HEATED DISPLAY (E-93) COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-77) GEQUIPPED SPACE GUIPPED SPACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | F R K R R K K K R R K M M M K K R R K K K K                                                              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| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-42)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) HEATED DISPLAY (E-93) COLD FOOD WELL (E-73) HOT FOOD WELL (E-77) COLD FOOD WELL ( | F R K R R K K K R R K M M M K K R R K K K K                                                                                                                                                                                                                                                                                                     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| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-46)  DISPOSAL (E-49)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-904) C GENERAL (E-904) C GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) HEATED DISPLAY (E-93)  COLD FOOD WELL (E-72) COLD FOOD WELL (E-73)  HOT FOOD WELL (E-74)  COLD FOOD WELL (E-74)  COLD FOOD WELL (E-77) COL | F R K R R K K K R R K M M M K K R R K K K K                                                                                                                                                                                       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    124         126         128         130         132         134         136         138         140         142 <td></td> |                                                              |
| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-46)  DISPOSAL (E-40)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-904) C GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) HEATED DISPLAY (E-93)  COLD FOOD WELL (E-72/E-75) COLD FOOD WELL (E-73)  HOT FOOD WELL (E-74)  COLD WELL (E-76/E-79) COLD FOOD WELL (E-77) COLD FOOD WELL (E | F R K R R K K K R R K M M M K K R R K K K K                                                                                                                                                                                       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| WALK-IN LIGHTS/HEAT (E-25) WALK-IN LIGHTS/HEAT (E-25A) FREEZER-EVAP (E-26)  COOLER-EVAP (E-27) GENERAL (E-903) ROLL THROUGH FRIDGE (E-56) HAND SINK (E-13) B GENERAL (E-902) UNDER COUNTER FRIDGE (E-61) OVEN (E-60)  ROLL THROUGH HEAT CAB (E-62)  REFRIGERATED CASE (E-63) GENERAL (E-904) B COFFEE MAKER (E-67)  MILK COOLER (E-67A)  DISPOSAL (E-46)  DISPOSAL (E-46)  REFRIGERATOR (E-58) HEATED CABINET (E-57)  GENERAL (E-902) B HEATED CABINET (E-54)  EF-16 EF-17  EF-18  MILK COOLER (E-98.1) A MILK COOLER (E-98.1) B RCPT - G108 GENERAL A MILK COOLER (E-98) REFRIGERATED CASE (E-96) REFRIGERATED CASE (E-96) COLD FOOD WELL (E-72) COLD FOOD WELL (E-73) COLD FOOD WELL (E-73) COLD FOOD WELL (E-74)  COLD FOOD WELL (E-74)  COLD FOOD WELL (E-77) COLD FOOD WELL (E-78) COLD FOOD  | F R K R R K K K R R K M M M K K R R K K K K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GFEP  GF  GF  GF  GF  GF  GF  GF  GF  GF  G | 12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12 | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2                                                                                                                                                                                                                    | 3                  | 456                                                                                                                               | 1500 192 720 3100 624 2496 1525 793 780 180 1092 540 1440 1440 1500 1037       | 456                                                                                                       | 1643 180 180 3100 1116 2496 1525 793 624 180 500 540 1440 1920 0 0 0                   | 1440 0 494 1717 709 2089 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0         | 1       25         3       15         1       15         1       20         1       20         2       30         1       20         3       20         3       20         3       30         3       30         3       45         2       15         2       20         2       20         3       20         1       15         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       20         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1 | 10<br>12<br>12<br>10<br>12<br>12<br>12<br>12<br>10 | LCK<br>LCK<br>GF | Z M Z K Z K F F F M M M | MAKE-UP AIR (E-15B)  HOOD CONTROL PANEL (E-15) SPARE SPARE SPARE HOT FOOD WELL (E-78)  COLD WELL (E-80/E-83) REFRIGERATED CASE (E-96) B  CONDENSING UNIT (E-26A)  CONDENSING UNIT (E-27A)  MAKE UP AIR COOLING (E-15C)  SPARE  SPA | 14         16         18         20         22         24         26         28         30         32         34         36         38         40         42         44         46         48         50         52         54         56         58         60         62         64         66         68         70         72         74         76         78         80         82         84         86         88         90         92         94         96         98         100         102         104         106         108         110         112         124         126         122         124         126 <td></td> |                                                              |

CONNECTED | DEMAND | NEC DEMAND | PANELBOARD NOTES

0 VA 0 VA 13 VA 3750 VA 5940 VA 15992 VA 0 VA 12221 VA 17024 VA 0 VA 38122 VA 6250 VA 0 VA

CONNECTED LOAD 0 VA 12 VA 13 VA 3000 VA 5940 VA 15992 VA 0 VA 12221 VA 17024 VA 0 VA 58649 VA 5000 VA 0 VA

DEMAND
FACTOR

100%
0%
100%
125%
100%
100%
100%
155%
65%
125%
125%
100%

LOAD TYPE

EXISTING LOAD (E)
COOLING (C)
HEATING (H)
LIGHTING (L)
RECEPTACLES (R)
MOTORS (M)
SUPPLEMENTAL HEAT (U)
MISC EQUIP (Z)
REFRIGERATION (F)
SIGN/DISPLAY (D)
KITCHEN (K)
LARGEST MOTOR
SHOW WINDOW (W)
TRACK LIGHTING

PANELBOARD TOTALS

TOTAL CONNECTED LOAD 117851 VA

TOTAL CONNECTED CURRENT 327 A

TOTAL NEC DEMAND CURRENT 276 A

TOTAL NEC LOAD 99312 VA

| BUS<br>MAII<br>VOL | NELBOARD: 1M2G AMPS: 400A N SIZE/TYPE: 400A M.C.B. TS/PHASE: 480Y/277 V 3P/4W PLIED BY: SWBD-N1 | 5 (NEVV)        |                                         |              |         | A<br>A<br>S<br>M | AULT CURRENT IC RATED: IC RATING: ERVES: IOUNTING: OCATION: | FULLY F<br>FCA +10<br>SECONI<br>SURFAC | % MINIMUM<br>D FLOOR - AREA G |         |         |              |       |              | LINE-SIDE LUGS: ME                     | OUND BU    |
|--------------------|-------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------|--------------|---------|------------------|-------------------------------------------------------------|----------------------------------------|-------------------------------|---------|---------|--------------|-------|--------------|----------------------------------------|------------|
| CKT<br>NO.         | DESCRIPTION                                                                                     | LOA<br>TYP      |                                         | WIRE<br>SIZE | BKR P   | PHASI<br>A       | E Ph                                                        | HASE<br>B                              | PHASE<br>C                    |         |         | WIRE<br>SIZE | NOTES | LOAD<br>TYPE | DESCRIPTION                            | CK<br>NC   |
| 1                  | EQUIPPED SPACE                                                                                  | 111             |                                         | OIZL         | 1       | 0                | 0                                                           |                                        |                               | 1       | 7 divii | OIZL         |       | 1            | EQUIPPED SPACE                         | 2          |
| 3                  | EQUIPPED SPACE                                                                                  |                 |                                         |              | 1       |                  | 0                                                           | 0                                      |                               | 1       |         |              |       |              | EQUIPPED SPACE                         | 4          |
| 5                  | EQUIPPED SPACE                                                                                  |                 |                                         |              | 1       |                  |                                                             |                                        | 0 0                           | 1       |         |              |       |              | EQUIPPED SPACE                         | 6          |
| 7                  | EQUIPPED SPACE                                                                                  |                 |                                         |              | 1       | 0                | 0                                                           |                                        | 7                             | 1       |         |              |       |              | EQUIPPED SPACE                         | 3          |
| 9                  | EQUIPPED SPACE                                                                                  |                 |                                         |              | 1       |                  | 0                                                           | 0                                      | 0 0                           | 1       |         |              |       |              | EQUIPPED SPACE                         | 1          |
| 11                 | EQUIPPED SPACE                                                                                  |                 |                                         |              | 1       | 0                | 0                                                           |                                        | 0 0                           | 1       |         |              |       |              | EQUIPPED SPACE EQUIPPED SPACE          | 1          |
| 15                 | SPARE                                                                                           |                 |                                         |              | 20 3    | 0                | 0                                                           | 0                                      | ٦                             | 1       |         |              |       |              | EQUIPPED SPACE                         | 1          |
| 17                 | - SPARL                                                                                         |                 |                                         |              | 20   3  |                  |                                                             |                                        | 0 0                           | 1       |         |              |       |              | EQUIPPED SPACE                         | 1          |
| 19                 |                                                                                                 |                 |                                         |              |         | 0                | 0                                                           |                                        | 0 0                           | + 1     |         |              |       |              | EQUITED OF AGE                         | 2          |
| 21                 | SPARE                                                                                           |                 |                                         |              | 20 3    | 0                | 0                                                           | 0                                      | 7                             | 3       | 20      |              |       |              | SPARE                                  | 2          |
| 23                 | ~~~~~~~                                                                                         | ^               | $\sim$                                  | <b>~</b> ~   |         |                  |                                                             |                                        | 0 0                           | - T     |         |              |       |              |                                        | 2          |
| 25                 | (                                                                                               |                 | , , , , , , , , , , , , , , , , , , , , |              | 3       | 5567             | 0                                                           |                                        |                               |         |         |              |       |              |                                        | 2          |
| 27                 | <b>(</b> SHWP-1 (15HP)                                                                          | ZN              | М                                       | 8            | 40 【3   | '                | 5567                                                        | 0                                      |                               | 3       | 25      |              |       |              | SPARE                                  | 2          |
| 29                 | <b>7</b>                                                                                        |                 |                                         |              |         |                  |                                                             |                                        | 5567 0                        |         |         |              |       |              |                                        | 3          |
| 31                 | }                                                                                               |                 |                                         |              |         | 5567             | 0                                                           |                                        |                               |         |         |              |       |              |                                        | 3          |
| 33                 | SHWP-2 (15HP)                                                                                   | ZN              | M                                       | 8            | 40 🞝 3  |                  | 5567                                                        | 0                                      |                               | _  3    | 15      |              |       |              | SPARE                                  | 3          |
| 35                 | <u>\</u>                                                                                        |                 | Julium,                                 |              |         |                  |                                                             |                                        | 5567 0                        |         |         |              |       |              | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | $\sim$     |
| 37                 | <u> </u>                                                                                        | <b>~</b> ~      | -                                       |              |         | 1267             | 2550                                                        |                                        | _                             |         |         |              |       | \ \ <u>\</u> |                                        | <b>\</b>   |
| 39                 | PHWP-1 (3 HP)                                                                                   | <b>)</b> M      | I LCK                                   | 12           | 15 3    |                  | 1267                                                        | 2550                                   | 1007 0550                     | _ 3     | 15      | 12           |       |              | AHU-11 (SUPPLY)                        | <u>}</u> 4 |
| 41                 | {                                                                                               |                 |                                         |              |         | 4007             | 0.40                                                        |                                        | 1267 2550                     | $\perp$ |         |              |       | \ \ \{       | 2 @ 3HP                                |            |
| 43                 | PHWP-2 (3 HP)                                                                                   | <b>₹</b>        | I LCK                                   | 10           | 15 2    | 1267             | 942 1267                                                    | 942                                    | ٦                             |         | 4.5     | 40           |       | 7.4          | RF-11 (RETURN FOR AHU-11) 2HP          |            |
| 45<br>47           | PHVP-2 (3 HP)                                                                                   | <b>⋠</b> ™      | I LCK                                   | 12           | 15 3    |                  | 1207                                                        | 942                                    | 1267 942                      | 3       | 15      | 12           |       | ZM           | RF-11 (RETURN FOR ANU-11) 2HP          | 2          |
| 49                 | <del>(</del>                                                                                    |                 |                                         |              |         | 1267             | 4037                                                        |                                        | 1207 342                      | + +     |         |              |       |              |                                        |            |
| 51                 | PHWP-3 (3 HP)                                                                                   | <b>)</b> M      | I LCK                                   | 12           | 15 3    | 1201             | 1267                                                        | 4037                                   | 7                             | 3       | 25      | 10           |       | M            | AHU-12 (SUPPLY)                        | - 5        |
| 53                 | (0111)                                                                                          | <b>)</b> "''    | LOIN                                    | '-           |         |                  | 1207                                                        | 1007                                   | 1267 4037                     | ّ       | 20      | '0           |       | '''          | 2 @ 5HP                                |            |
| 55                 | <del></del>                                                                                     | <del>~~~~</del> |                                         |              |         | 0                | 942                                                         |                                        | 1207                          |         |         |              |       |              | 2 @ 0111                               |            |
| 57                 | SPARE                                                                                           |                 |                                         |              | 15 3    | <u> </u>         | 0                                                           | 942                                    |                               | 3       | 15      | 12           |       | ZM           | RF-12 (RETURN FOR AHU-12) 2HP          | 1          |
| 59                 |                                                                                                 |                 |                                         |              |         |                  |                                                             |                                        | 0 942                         | 1 1     |         |              |       |              | (                                      | 6          |
| 61                 |                                                                                                 |                 |                                         |              |         | 3050             | 4037                                                        |                                        |                               |         |         |              |       |              |                                        | (          |
| 63                 | B-1 (7.5HP)                                                                                     | M               | I LCK                                   | 10           | 30 3    |                  | 3050                                                        | 4037                                   |                               | 3       | 25      | 10           |       | M            | AHU-9 (SUPPLY)                         | (          |
| 65                 |                                                                                                 |                 |                                         |              |         |                  |                                                             |                                        | 3050 4037                     |         |         |              |       |              | 2 @ 5HP                                | (          |
| 67                 |                                                                                                 |                 |                                         |              |         | 3050             | 832                                                         |                                        |                               |         |         |              |       |              |                                        | (          |
| 69                 | B-2 (7.5HP)                                                                                     | M               | I LCK                                   | 10           | 30 3    |                  | 3050                                                        | 832                                    |                               | _ 3     | 15      | 12           |       | ZM           | RF-9 (RETURN FOR AHU-9) 1.5HP          |            |
| 71                 |                                                                                                 |                 |                                         |              |         | 2252             | 1007                                                        |                                        | 3050 832                      | $\perp$ |         |              |       |              |                                        |            |
| 73                 |                                                                                                 |                 |                                         | 40           |         | 3050             | 4037                                                        | 1007                                   | ٦                             |         | 0.5     | 40           |       |              | ALUL 40 (OLIDDIA)                      |            |
| 75                 | B-3 (7.5HP)                                                                                     | M               | I LCK                                   | 10           | 30 3    |                  | 3050                                                        | 4037                                   | 2050 4007                     | 3       | 25      | 10           |       | M            | AHU-10 (SUPPLY)                        |            |
| 77                 |                                                                                                 |                 |                                         |              |         | 0                | 832                                                         |                                        | 3050 4037                     | +       |         |              |       |              | 2 @ 5HP                                | 7          |
| 79<br>81           | SPARE                                                                                           |                 |                                         |              | 30 3    | 0                | 0                                                           | 832                                    | ٦                             | 3       | 15      | 12           |       | ZM           | RF-10 (RETURN FOR AHU-10) 1.5HP        | 3          |
| 83                 | JOPARE                                                                                          |                 |                                         |              | 30   3  |                  |                                                             | 032                                    | 0 832                         | ၂ ၂     | 15      | 12           |       | 2 101        | KF-10 (KETOKN FOR ANO-10) 1.5HP        |            |
| 03                 |                                                                                                 |                 |                                         |              |         |                  |                                                             |                                        |                               | +       |         |              |       |              |                                        |            |
|                    |                                                                                                 |                 | TOTAL                                   | LOAD (       | (VA):   | 42291 \          | /A 422                                                      | 291 VA                                 | 42291 VA                      |         |         |              |       |              |                                        |            |
|                    |                                                                                                 |                 | ΤΩΤΔΙ                                   | . AMPS:      |         | 153 A            |                                                             | 53 A                                   | 153 A                         |         |         |              |       |              |                                        |            |
|                    |                                                                                                 | 1               | IOTAL                                   | . /vii O.    |         | 100 /            | .                                                           |                                        | 100 /4                        |         |         |              |       |              |                                        |            |
| LOA                | D TYPE                                                                                          | CONNECTED       | DEMAND                                  | NEC          | DEMAND  | PANELBO          | ARD NOTES                                                   |                                        |                               |         |         |              |       |              | PANELBOARD TOTALS                      |            |
|                    |                                                                                                 |                 | FACTOR                                  |              |         |                  |                                                             |                                        |                               |         |         |              |       |              |                                        |            |
| EXIS               | STING LOAD (E)                                                                                  | 0 VA            | 100%                                    |              | 0 VA    |                  |                                                             |                                        |                               |         |         |              |       |              | TOTAL COMMECTED LOAD                   | 400077     |
|                    | DLING (C)                                                                                       | 0 VA            | 0%                                      |              | 0 VA    |                  |                                                             |                                        |                               |         |         |              |       |              | TOTAL CONNECTED LOAD                   | 126874     |
|                    | TING (H)                                                                                        | 0 VA            | 100%                                    |              | 0 VA    |                  |                                                             |                                        |                               |         |         |              |       |              | TOTAL NEC LOAD                         | 131049     |
|                    | ITING (L)                                                                                       | 0 VA            | 125%                                    |              | 0 VA    | 1                |                                                             |                                        |                               |         |         |              |       |              |                                        |            |
|                    | EPTACLÉS (R)                                                                                    | 0 VA            | 0%                                      |              | 0 VA    |                  |                                                             |                                        |                               |         |         |              |       |              | TOTAL CONNECTED CURRENT                | 153 A      |
|                    | ORS (M)                                                                                         | 110174 VA       | 100%                                    |              | 0174 VA |                  |                                                             |                                        |                               |         |         |              |       |              | TOTAL NEC DEMAND CURRENT               | 158 /      |
| SITE               | PLEMENTAL HEAT (U)                                                                              | 0 VA            | 100%                                    |              | 0 VA    | 1                |                                                             |                                        |                               |         |         |              |       |              |                                        |            |

0 VA 0 VA 0 VA 0 VA 20875 VA

125% 100% 125% 125% 100%

16700 VA

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER.
C# = CIRCUIT VIA LIGHTING CONTACTOR #.
CL = CIRCUIT VIA CURRENT LIMITING DEVICE.
EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.
ETR = EXISTING TO REMAIN

FA = RED/HANDLE-ON CLAMP.
GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
# DENOTES PHASES TO BE TIED.
IG = ISOLATED GROUND CIRCUIT.
L# = LIGHTING CONTROL SCHEME NUMBER.

LCK = HANDLE PADLOCKABLE-OFF DEVICE.
LO = HANDLE-ON CLAMP.
N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT.
NB = PROVIDE NEW CIRCUIT BREAKER.
O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS = POWER-SWITCHING CIRCUIT BREAKER.

PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

RP = CIRCUIT VIA RELAY PANEL.
SC = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM
WIRE SIZE.
ST = SHUNT TRIP CIRCUIT BREAKER.
VD = BRANCH CIRCUITRY HAS BEEN LIPSIZED TO BEDLICE VOLTAGE DROP

VD = BRANCH CIRCUIT BREAKER.

VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.

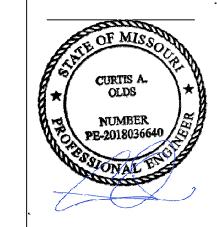
ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

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Missouri State Certificate of Authority #000939

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950005054
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/20

13-20102-00

ELECTRICAL
SCHEDULES

PANEL 1K1 PANEL 1M2G

PANEL 1KA

| BUS AMPS: 225A<br>MAIN SIZE/TYPE: 225A M.C.B.<br>/OLTS/PHASE: 208Y/120 V 3P/4W<br>BUPPLIED BY: H1S VIA TX-L1S                                                                                                                                                                                                                                                                                                                                                                                                             | NEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                           | FAULT CURR AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:                      |                                                                      | ATED<br>% MINIMUM<br>SIONS/DUGOUTS<br>E         |                                             |        |                | EQUIPMENT GR                     |                                                                 | PANELBOARD SCHI  AF = ARC FAULT CIRCUIT INTER C# = CIRCUIT VIA LIGHTING CON CL = CIRCUIT VIA CURRENT LIMI EM = EMERGENCY LIGHTING HA ETR = EXISTING TO REMAIN FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT IN |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|--------|----------------|----------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CKT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOAD NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | WIRE BKR P                                                                                                | PHASE                                                                              | PHASE                                                                | PHASE                                           | P BKR                                       | WIRE N | IOTES LOAD D   | LINE-SIDE LUGS: ME<br>ESCRIPTION | CKT                                                             | GFEP = GROUND FAULT EQUIPM<br>HT# = PROVIDE HANDLE-TIE FO                                                                                                                                                            |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SIZE AMP                                                                                                  | Α                                                                                  | В                                                                    | C                                               | AMP                                         | SIZE   | TYPE SPARE     |                                  | NO.                                                             | # DENOTES PHASES TO<br>IG = ISOLATED GROUND CIRCUI                                                                                                                                                                   |
| 1 RCPT - RESTROOMS<br>3 RCPT - LOCKER ROOMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R<br>R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12 20 1                                                                                                   | 40 0 5                                                                             | 40 0                                                                 |                                                 | 1 20<br>1 20                                |        | SPARE          |                                  | 2 4                                                             | L# = LIGHTING CONTROL SCHE!<br>LCK = HANDLE PADLOCKABLE-0                                                                                                                                                            |
| 5 RCPT - LOCKER RESTROOM 7 RCPT - CONV. OFFICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MS R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12 20 1<br>12 20 1 54                                                                                     | 40 0                                                                               |                                                                      | 720 0                                           | 1 20                                        |        | SPARE<br>SPARE |                                  | 6<br>8                                                          | LO = HANDLE-ON CLAMP.                                                                                                                                                                                                |
| 9 RCPT - ICE MAKER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1                                                                                                   |                                                                                    | 000 0                                                                |                                                 | 1 20                                        |        | SPARE          |                                  | 10                                                              | N = PROVIDE NEUTRAL WITH 20<br>NB = PROVIDE NEW CIRCUIT BR                                                                                                                                                           |
| <ul><li>11 RCPT - CONV. ELECTRICAL</li><li>13 RCPT - CONV. MECHANICAL</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                           | R  <br>L R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12 20 1<br>12 20 1 18                                                                                     | 30 0                                                                               |                                                                      | 180 0                                           | 1 20                                        |        | SPARE SPARE    |                                  | 12                                                              | O/OL = REFER TO ELECTRICAL (<br>PS = POWER-SWITCHING CIRCU                                                                                                                                                           |
| 15 RCPT - OFFICE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1                                                                                                   |                                                                                    | 20 0                                                                 | 720 0                                           | 1 20                                        |        | SPARE<br>SPARE |                                  | 16                                                              | PSE = EMERGENCY POWER-SW                                                                                                                                                                                             |
| 17 RCPT CONV. CONCESSIONS 19 RCPT - EXTERIOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S R R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 20 1<br>12 20 1 36                                                                                     | 60 0                                                                               |                                                                      | 720 0                                           | 1 20<br>1 20                                |        | SPARE          |                                  | 18<br>20                                                        | RP = CIRCUIT VIA RELAY PANEL<br>SC = REFER TO VOLTAGE DROP                                                                                                                                                           |
| 21 RCPT - STORAGE<br>23 RCPT - CONCESSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12 20 1<br>12 20 1                                                                                        | 3                                                                                  | 60 0                                                                 | 360 0                                           | 1 20                                        |        | SPARE SPARE    |                                  | 22 24                                                           | WIRE SIZE.<br>ST = SHUNT TRIP CIRCUIT BREA                                                                                                                                                                           |
| 25 RCPT - CONCESSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1 36                                                                                                |                                                                                    |                                                                      |                                                 | 1 20                                        |        | SPARE          |                                  | 26                                                              | VD = BRANCH CIRCUITRY HAS B                                                                                                                                                                                          |
| 27 RCPT - CONCESSIONS 29 RCPT - CONCESSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12 20 1<br>12 20 1                                                                                        | 3                                                                                  | 60 0                                                                 | 360 0                                           | 1 20                                        |        | SPARE SPARE    |                                  | 30                                                              | ADJUST GROUND WIRE REQUIRED.                                                                                                                                                                                         |
| 31 RCPT - CONCESSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1 36                                                                                                |                                                                                    | 00 0                                                                 |                                                 | 1 20                                        |        | SPARE          |                                  | 32                                                              |                                                                                                                                                                                                                      |
| <ul><li>33 PWR-SECURITY PANEL</li><li>35 MISC EQUIP</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1<br>20 1                                                                                           |                                                                                    | 00 0                                                                 | 100 0                                           | 1 20<br>1 20                                |        | SPARE SPARE    |                                  | 34<br>36                                                        |                                                                                                                                                                                                                      |
| 37 PWR - DOOR HARDWARE (\$ 39 PWR - DOOR HARDWARE (\$                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 20 1 15<br>12 20 1                                                                                     |                                                                                    | 00 0                                                                 |                                                 | 1 20                                        |        | SPARE<br>SPARE |                                  | 38<br>40                                                        |                                                                                                                                                                                                                      |
| 41 PWR - DOOR HARDWARE (S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S111A/S112) Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12 20 1                                                                                                   |                                                                                    | 00   U                                                               | 100 0                                           | 1 20                                        |        | SPARE          |                                  | 42                                                              |                                                                                                                                                                                                                      |
| 43 RCPT - EXT EWC<br>45 RCPT - CHARGERS (N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1 36<br>12 20 1                                                                                     | 30 0                                                                               | 60 0                                                                 |                                                 | 1 20<br>1 20                                |        | SPARE<br>SPARE |                                  | 44<br>46                                                        |                                                                                                                                                                                                                      |
| 47 RCPT - CHARGERS (S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 1                                                                                                   |                                                                                    |                                                                      | 360 0                                           | 1 20                                        |        | SPARE          |                                  | 48                                                              |                                                                                                                                                                                                                      |
| 49 CU-14/CR-14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 20 2 11                                                                                                |                                                                                    | 144 0                                                                |                                                 | 1 20                                        |        | SPARE SPARE    |                                  | 50<br>52                                                        |                                                                                                                                                                                                                      |
| 53 EF-23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12 15 1                                                                                                   |                                                                                    | 1 -                                                                  | 830 0                                           | 1 20                                        |        | SPARE          |                                  | 54                                                              |                                                                                                                                                                                                                      |
| 55 EF-24<br>57 TF-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | M   M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 15 1                                                                                                   | 00 0 1                                                                             | 00 0                                                                 |                                                 | 1 20<br>1 20                                |        | SPARE SPARE    |                                  | 56<br>58                                                        |                                                                                                                                                                                                                      |
| 59 RP6/TS1<br>61 RCPT-IRRIGATION CONTR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | M M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12 15 1<br>- 42 - 20 1 18                                                                                 | 30 254                                                                             |                                                                      | 58 0                                            | 1 20                                        |        | SPARE          |                                  | 60<br>62                                                        |                                                                                                                                                                                                                      |
| 63 PWR-MOTORIZED DAMPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The state of the s | 12 20 1                                                                                                   |                                                                                    | 50 360                                                               | 0 1000                                          | 3 60                                        | OL     | LR LC1         |                                  | 64                                                              |                                                                                                                                                                                                                      |
| 67 SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20 1 (                                                                                                    | 3286                                                                               |                                                                      | 0 1800                                          |                                             |        |                |                                  | 66<br>68                                                        |                                                                                                                                                                                                                      |
| 69 SPARE<br>71 SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20 1 20 1                                                                                                 |                                                                                    | 0 1860                                                               | 0 3300                                          | 3 60                                        | OL     | LR LC2         |                                  | 70<br>72                                                        |                                                                                                                                                                                                                      |
| 73 MONUMENT SIGNAGE (WES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 20 1 12                                                                                                 | 00 466                                                                             |                                                                      | <u> </u>                                        | 1_                                          |        |                |                                  | 74                                                              |                                                                                                                                                                                                                      |
| <ul><li>75 FIBER CONVERTER (SIGN V</li><li>77 MONUMENT SIGNAGE (EAS</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 20 1<br>6 20 1                                                                                         | 1                                                                                  | 00 360                                                               | 1200 1620                                       | 3 60                                        | OL     | LR LC3         |                                  | 76<br>78                                                        |                                                                                                                                                                                                                      |
| 79 FIBER CONVERTER (SIGN E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EAST) Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 20 1 10                                                                                                | 00 254                                                                             | 00 000                                                               |                                                 |                                             |        |                |                                  | 80                                                              |                                                                                                                                                                                                                      |
| <ul><li>81 MUSCO LIGHTING - CONTRO</li><li>83 MUSCO LIGHTING - COMMU</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 20 1<br>12 20 1                                                                                        | 5                                                                                  | 00 360                                                               | 500 1800                                        | 3 60                                        | OL     | LR LC4         |                                  | 82<br>84                                                        |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LOAD (VA):                                                                                                | 9834 VA                                                                            | 8674 VA                                                              | 14007 VA                                        |                                             |        | '              |                                  | '                                                               |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AMPS:                                                                                                     | 83 A                                                                               | 72 A                                                                 | 118 A                                           |                                             |        |                |                                  |                                                                 |                                                                                                                                                                                                                      |
| OAD TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CONNECTED DEMAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NEC DEMAND P/                                                                                             | NELBOARD NOTES                                                                     | <b>,</b>                                                             |                                                 |                                             |        | PANELBOAF      | RD TOTALS                        |                                                                 |                                                                                                                                                                                                                      |
| EXISTING LOAD (E)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOAD FACTOR 0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 VA                                                                                                      |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  |                                                                 |                                                                                                                                                                                                                      |
| COOLING (C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2288 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2288 VA                                                                                                   |                                                                                    |                                                                      |                                                 |                                             |        | TOTAL          |                                  | 32116 VA                                                        |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 VA   0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 VA                                                                                                      |                                                                                    |                                                                      |                                                 |                                             |        |                | TOTAL NEC LOAD                   | 26914 VA                                                        |                                                                                                                                                                                                                      |
| HEATING (H)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1080 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1350 VA                                                                                                   |                                                                                    |                                                                      |                                                 |                                             |        | TOTAL 001      | NEATER ALIBRENT                  |                                                                 |                                                                                                                                                                                                                      |
| HEATING (H)<br>LIGHTING (L)<br>RECEPTACLES (R)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1080 VA 125%<br>22560 VA 72%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16280 VA                                                                                                  |                                                                                    |                                                                      |                                                 |                                             |        |                | NECTED CURRENT                   | 89 A                                                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1080 VA 125%<br>22560 VA 72%<br>258 VA 100%<br>0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16280 VA<br>258 VA<br>0 VA                                                                                |                                                                                    |                                                                      |                                                 |                                             |        |                | DEMAND CURRENT                   |                                                                 |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) BUPPLEMENTAL HEAT (U) MISC EQUIP (Z)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1080 VA 125%<br>22560 VA 72%<br>258 VA 100%<br>0 VA 100%<br>1700 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16280 VA<br>258 VA<br>0 VA<br>1700 VA                                                                     |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  | 89 A                                                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D)                                                                                                                                                                                                                                                                                                                                                                                               | 1080 VA 125%<br>22560 VA 72%<br>258 VA 100%<br>0 VA 100%<br>1700 VA 100%<br>0 VA 100%<br>2400 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA                                                  |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  | 89 A                                                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR                                                                                                                                                                                                                                                                                                                                                                     | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA                            |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  | 89 A                                                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W)                                                                                                                                                                                                                                                                                                                                                     | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  | 89 A                                                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W)                                                                                                                                                                                                                                                                                                                                                     | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA                            |                                                                                    |                                                                      |                                                 |                                             |        |                |                                  | 89 A                                                            | ^                                                                                                                                                                                                                    |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING                                                                                                                                                                                                                                                                                                                                      | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125% 0 VA 125% 0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    | FAULT CURR                                                                         | ENT: RE: ONF-                                                        | -LINE DIAGRAM                                   |                                             |        |                | DEMAND CURRENT                   | 89 A<br>75 A                                                    | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T                                                                                                                                                                                                                                                                                                                    | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125% 0 VA 125% 0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    | AIC RATED:                                                                         | ENT: RE: ONE-<br>FULLY RA                                            | ATED                                            |                                             |        |                |                                  | 89 A<br>75 A                                                    | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A                                                                                                                                                                                                                                                                                                     | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125% 0 VA 125% 0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    | AIC RATED:<br>AIC RATING:                                                          | FULLY RA<br>FCA +10%                                                 | ATED<br>% MINIMUM                               |                                             |        |                | DEMAND CURRENT                   | 89 A<br>75 A                                                    | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B.                                                                                                                                                                                                                                                                         | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 100% 830 VA 125% 0 VA 125% 0 VA 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    | AIC RATED:<br>AIC RATING:<br>SERVES:                                               | FULLY RA<br>FCA +10%<br>STORAGI                                      | ATED<br>% MINIMUM<br>E BUILDING                 |                                             |        |                | DEMAND CURRENT                   | 89 A<br>75 A                                                    | <u>/2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) RACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W                                                                                                                                                                                                                                            | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125% 0 VA 125% (NEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA                    | AIC RATED:<br>AIC RATING:                                                          | FULLY RA<br>FCA +10%                                                 | ATED<br>% MINIMUM<br>E BUILDING                 |                                             |        |                | EQUIPMENT GR                     | 89 A<br>75 A                                                    | <u>/2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1L2                                                                                                                                                                                                           | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125% (NEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>0 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA<br>0 VA            | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:                                 | FULLY RA<br>FCA +10%<br>STORAGI<br>SURFACE                           | ATED<br>% MINIMUM<br>E BUILDING<br>E            |                                             |        | TOTAL NEC      | EQUIPMENT GR                     | 89 A 75 A  OUND BUS                                             | 2                                                                                                                                                                                                                    |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1LC                                                                                                                                                                                                           | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16280 VA<br>258 VA<br>0 VA<br>1700 VA<br>3000 VA<br>1000 VA<br>1038 VA<br>0 VA<br>0 VA                    | AIC RATED:<br>AIC RATING:<br>SERVES:<br>MOUNTING:                                  | FULLY RA<br>FCA +10%<br>STORAGI<br>SURFACE<br>PHASE                  | ATED % MINIMUM E BUILDING E                     |                                             |        | TOTAL NEC      | EQUIPMENT GR                     | 89 A 75 A  OUND BUS  ECHANICAL CKT                              | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) BUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) BIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR BHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W BUPPLIED BY: SWBD-N1 VIA TX-1LC CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING                                                                                                                                                              | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA 258 VA 0 VA 1700 VA 3000 VA 1000 VA 1038 VA 0 VA 0 VA 10 VA 1 | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  360                   | FULLY RA<br>FCA +10%<br>STORAGI<br>SURFACE<br>PHASE<br>B             | ATED<br>% MINIMUM<br>E BUILDING<br>E            | 1 20                                        | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  ECHANICAL CKT NO. 2                        | <u>/2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) BUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) BIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR BHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W BUPPLIED BY: SWBD-N1 VIA TX-1L2 CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T                                                                                                                                      | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 0 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 100%  (NEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16280 VA 258 VA 0 VA 1700 VA 3000 VA 1000 VA 1038 VA 0 VA 0 VA 1       | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  360                   | FULLY RA<br>FCA +10%<br>STORAGI<br>SURFACE<br>PHASE                  | ATED % MINIMUM E BUILDING E                     | 1 20<br>1 20                                | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  ECHANICAL CKT NO.                          | <u>/2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1LC CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE                                                                                                                      | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A 23 360 3               | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000                 | ATED % MINIMUM E BUILDING E PHASE C             | AMP 1 20 1 20 1 20 1 20 1 20                | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6 8                            |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1LC CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE                                                                                                                              | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA 258 VA 0 VA 1700 VA 3000 VA 1000 VA 1038 VA 0 VA 0 VA 1       | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A 23 360 3               | FULLY RA<br>FCA +10%<br>STORAGI<br>SURFACE<br>PHASE<br>B             | ATED % MINIMUM E BUILDING E PHASE C             | AMP 1 20 1 20 1 20                          | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6                              | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1L CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 11 SPARE 13 SPARE                                                                                    | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA 258 VA 0 VA 1700 VA 0 VA 3000 VA 1000 VA 1038 VA 0 VA 0 VA 1  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A 23 360 3 0 0           | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000                 | ATED % MINIMUM E BUILDING E  PHASE C            | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  ECHANICAL  CKT NO.  2 4 6 8 10 12 14       | 2                                                                                                                                                                                                                    |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1L2 CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 11 SPARE 13 SPARE 15 SPARE                                                                          | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A 23 360 3 0 0           | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000                 | ATED % MINIMUM E BUILDING E  PHASE C            | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  ECHANICAL  CKT NO. 2 4 6 8 10 12 14 16 18  |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T  BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1LC  CKT DESCRIPTION NO.  1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 13 SPARE 15 SPARE 17 SPARE 17 SPARE 19 SPARE                                                     | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  23 360  0 0  0 0      | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000   0   0   0   0 | ATED % MINIMUM E BUILDING E  PHASE C  0 0       | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6 8 10 12 14 16 18 20          |                                                                                                                                                                                                                      |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T  BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. /OLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1L1  CKT DESCRIPTION NO.  1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 11 SPARE 13 SPARE 15 SPARE 17 SPARE 19 SPARE 19 SPARE 19 SPARE 21 SPARE 21 SPARE 21 SPARE        | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  23 360  0 0  0 0      | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000                 | ATED % MINIMUM E BUILDING E  PHASE C  0 0       | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24    | <u>^2</u>                                                                                                                                                                                                            |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) FRACK LIGHTING  PANELBOARD: 1L1T  BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. /OLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1L/ CKT DESCRIPTION NO. 1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 13 SPARE 15 SPARE 17 SPARE 19 SPARE 17 SPARE 19 SPARE 19 SPARE 19 SPARE 11 SPARE 11 SPARE 12 SPARE | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  23 360  0 0  0 0  0 0 | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000   0   0   0   0 | ATED % MINIMUM E BUILDING E  PHASE C  0 0 0 0 0 | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6 8 10 12 14 16 18 20 22       | 2                                                                                                                                                                                                                    |
| HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z) REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K) LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING  PANELBOARD: 1L1T  BUS AMPS: 100A MAIN SIZE/TYPE: 100A M.C.B. COLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: SWBD-N1 VIA TX-1LC  CKT DESCRIPTION NO.  1 LTG - STORAGE BUILDING 3 RCPT - STORAGE AREA T 5 SPARE 7 SPARE 9 SPARE 11 SPARE 13 SPARE 15 SPARE 17 SPARE 19 SPARE 17 SPARE 19 SPARE 21 SPARE 21 SPARE 22 SPARE                 | 1080 VA 125% 22560 VA 72% 258 VA 100% 0 VA 100% 1700 VA 100% 2400 VA 125% 1000 VA 125% 0 VA 125% 0 VA 125% 0 VA 125%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16280 VA                                                                                                  | AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:  PHASE A  23 360  0 0  0 0  0 0 | FULLY RAFCA +10% STORAGI SURFACE  PHASE B  60   1000   0   0   0   0 | ATED % MINIMUM E BUILDING E  PHASE C  0 0 0 0 0 | AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 | SIZE 6 | TOTAL NEC      | ESCRIPTION  EBOARD CONTRLLR      | 89 A 75 A  OUND BUS  CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 |                                                                                                                                                                                                                      |

SPARE

SPARE

PANELBOARD TOTALS

TOTAL CONNECTED CURRENT

TOTAL NEC DEMAND CURRENT 6 A

TOTAL CONNECTED LOAD 2043 VA

TOTAL NEC LOAD 2124 VA

0 VA

0 A

12 A

SPARE

TOTAL LOAD (VA):

DEMAND | NEC DEMAND | PANELBOARD NOTES

0 VA

404 VA

720 VA 0 VA 0 VA

1000 VA 0 VA 0 VA

0 VA 0 VA 0 VA 0 VA

TOTAL AMPS:

FACTOR

0% 100%

100%

CONNECTED

LOAD 0 VA

0 VA 0 VA

323 VA 720 VA 0 VA 0 VA

1000 VA 0 VA 0 VA

0 VA 0 VA 0 VA

39 SPARE

41 SPARE

LOAD TYPE

EXISTING LOAD (

RECEPTACLES (R) MOTORS (M)

MISC EQUIP (Z)

KITCHEN (K)

REFRIGERATION (F SIGN/DISPLAY (D)

LARGEST MOTOR SHOW WINDOW (W TRACK LIGHTING

SUPPLEMENTAL HEAT (U)

COOLING (C)

HEATING (H)

LIGHTING (L)

NELBOARD SCHEDULE NOTES LEGEND:

= ARC FAULT CIRCUIT INTERRUPTER. CIRCUIT VIA LIGHTING CONTACTOR #. CIRCUIT VIA CURRENT LIMITING DEVICE. = EMERGENCY LIGHTING HANDLE-ON CLAMP. R = EXISTING TO REMAIN

RED/HANDLE-ON CLAMP. GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). P = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUÌT PER CODE. # DENOTES PHASES TO BE TIED. ISOLATED GROUND CIRCUIT.

LIGHTING CONTROL SCHEME NUMBER. = HANDLE PADLOCKABLE-OFF DEVICE. = HANDLE-ON CLAMP. PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. = PROVIDE NEW CIRCUIT BREAKER. \_ = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.

= EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. = CIRCUIT VIA RELAY PANEL. REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. SHUNT TRIP CIRCUIT BREAKER.

BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

Nov 11 2020 CURTIS A. OLDS LICENSE # PE-2018036640

UMMIT 8-7 SCHOOL DIST

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS 10/13/20 10/19/20 ADDENDUM 001 ADDENDUM 002 11/11/20

13-20102-00 ELECTRICAL SCHEDULES

PANEL L1S

KITCHEN (K)

LARGEST MOTOR

TRACK LIGHTING

SHOW WINDOW (W)

125% 125%

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #. CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP.

ETR = EXISTING TO REMAIN FA = RED/HANDLE-ON CLAMP. GF = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.

# DENOTES PHASES TO BE TIED. IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE. LO = HANDLE-ON CLAMP.

N = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER. O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER. RP = CIRCUIT VIA RELAY PANEL.

ST = SHUNT TRIP CIRCUIT BREAKER. VD = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

WIRE SIZE.

RELEASE FOR CONSTRUCTION S NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING 8

10/08/20 REVISIONS ADDENDUM 001 ADDENDUM 002

13-20102-00 **ELECTRICAL** 

SCHEDULES PANEL LC1 | PANEL LC5 PANEL LC2 | PANEL LC6

PANEL LC3 | PANEL LC7

PANEL LC4 PANEL LC8

E6.13

KITCHEN (K)

LARGEST MOTOR

TRACK LIGHTING

SHOW WINDOW (W

125% 125%

|                                 |                          |                                                                          |                                                                                                                                       | LIGHT                                                                                                                    | FIX                      | TURE                                   | SCHI                 | EDULE                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
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|                                 |                          |                                                                          |                                                                                                                                       |                                                                                                                          |                          |                                        | INPUT<br>WATTS       | INPUT VA             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| TYPE A1                         | MANUFACTURER<br>LITHONIA | MODEL 2<br>2ALL4 CTRF-48L-GZ10-LP840                                     | APPROVED FOUIVALENTS  METALUX CRUZE ST 24CZ2  COLUMBIA LIGHTING LCAT24  SERIES  MARK ARCHITECTURAL LIGHTING                           | NO. TYPE  1 INTEGRAL LED 4,800 LUMENS 4,000K 80 CRI                                                                      | VOLT<br>277              | TYPE<br>0-10V, 10%                     | 39                   | 43                   | DESCRIPTION  NOMINAL 2' X 4' X 4" DEEP RECESSED LED VOLUMETRIC, PRE-PAINTED ONE-PIECE COLD-ROLLED STEEL HOUSING AND REFLECTOR SUITABLE FOR ACOUSTIC TILE LAY-IN CEILING OR OTHER CEILING BY ARCHITECT AND CONFIRMED PRIOR TO ORDER WITH HIGH PERFORMANCE TRANSMITTANCE DIFFUSER REFRACTOR. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NOTES /2 |
| A1E<br>A1S                      | -                        | -<br>-                                                                   | WHSPR SERIES Columbia Lighting LCAT24 Series                                                                                          | 60,000 HRS<br>1 -<br>1 -                                                                                                 | 277<br>277               | -                                      | 39                   | 43                   | LOCATIONS.  SIMILAR TO A1 EXCEPT PROVIDE WITH 700-LUMEN BATTERY PACK SIMILAR TO A1 EXCEPT WITH DRYWALL CEILING ADAPTER KIT FOR NON-LAY-IN CEILING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| A2                              | LITHONIA                 | 2ALL2 CTRF-40L-GZ10-LP840                                                | METALUX CRUZE ST 24CZ2 COLUMBIA LIGHTING LCAT24 SERIES MARK ARCHITECTURAL LIGHTING WHSPR SERIES                                       | 1 INTEGRAL LED<br>4,000 LUMENS<br>80 CRI<br>60,000 HRS                                                                   | 277                      | 0-10V, 10%                             | 37                   | 41                   | APPLICATIONS.  NOMINAL 2' X 2' X 4" DEEP RECESSED LED VOLUMETRIC, PRE-PAINTED ONE-PIECE COLD-ROLLED STEEL HOUSING AND REFLECTOR SUITABLE FOR ACOUSTIC TILE LAY-IN CEILING OR OTHER CEILING BY ARCHITECT AND CONFIRMED PRIOR TO ORDER WITH HIGH PERFORMANCE TRANSMITTANCE DIFFUSER REFRACTOR. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| A2E<br>A3                       | -<br>HE WILLIAMS         | 50-G-S-2-4-L59-8-40-S-AF12125-<br>DIM-UNV                                | COLUMBIA LIGHTING LCAT24 SERIES LITHONIA 2GTL SERIES                                                                                  | 1 -<br>1 INTEGRAL LED<br>5,900 LUMENS<br>4,000K<br>80 CRI                                                                | 277<br>277               | -<br>0-10V, 10%                        | 37<br>48             | 41<br>53             | SIMILAR TO A2 EXCEPT WITH 700-LUMEN BATTERY BACK  NOMINAL 2' X 4' X 4" DEEP RECESSED LED STATIC TROFFER, 22-GAUGE DIE-FORMED HOUSING, 20-GAUGE DOOR FRAME, WITH WHITE POLYESTER POWDER COAT FINISH, SUITABLE FOR ACOUSTIC LAY-IN TILE CEILING OR OTHER CEILING BY ARCHITECT AND CONFIRMED PRIOR TO ORDER, WITH FROSTED ACRYLIC LENSING. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| A3E<br>A4                       | -<br>LITHONIA            | 2BLT4-TUWH-RHYR-48L-SDSM                                                 | COLUMBIA LIGHTING LCAT24<br>SERIES                                                                                                    | 50,000 HRS 1 - 1 INTEGRAL LED 4,800 LUMENS 2,700K - 6,500K                                                               | 277<br>277               | -<br>0-10V, 10%                        | 48                   | 53<br>36             | LOCATIONS.  SIMILAR TO A3 EXCEPT WITH 10-WATT BATTERY OPTION  NOMINAL 2' X 2' X 4" DEEP RECESSED TUNABLE WHITE LED VOLUMETRIC, PRE-PAINTED HOUSING AND REFLECTOR SUITABLE FOR ACOUSTIC TILE LAY-IN CEILING OR OTHER CEILING BY ARCHITECT AND CONFIRMED PRIOR TO ORDER WITH HIGH PERFORMANCE TRANSMITTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| A4E<br>A5                       | -<br>COOPER              | -<br>24FCZ2-30-UNV-L82765-CP250-<br>W2A-1                                | - NEW STAR LIGHTING AUREAMED CLASSIC SERIES                                                                                           | 60,000 HRS  1 - 1 INTEGRAL LED 3,000 LUMENS                                                                              | 277<br>277               | -                                      | 33 24                | 36<br>27             | DIFFUSER REFRACTOR WITH ACRYLIC LENSING. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP LOCATIONS.  SIMILAR TO A4 EXCEPT WITH 700-LUMEN BATTERY PACK  NOMINAL 2' X 2' X 4" DEEP RECESSED TUNABLE WHITE LED TROFFER, ONE-PIECE STEEL HOUSING, PRE-PAINTED HOUSING, HIGH GLOSS WHITE FINISH, AND REFLECTOR SUITABLE FOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| D1                              | EATON                    | LDA4A-18-8-40-D010TE-LAR35FU<br>-4LA0-H                                  | HALO COMMERCIAL<br>GOTHAM EVO SERIES                                                                                                  | 2,700K - 6,500K<br>60,000 HRS<br>1 INTEGRAL LED<br>1,800 LUMENS                                                          | 277                      | 0-10V, 1%                              | 29                   | 32                   | ACOUSTIC TILE LAY-IN CEILING OR OTHER CEILING BY ARCHITECT AND CONFIRMED PRIOR TO ORDER WITH FROSTED ACRYLIC DIFFUSER. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR WET LOCATIONS.  NOMINAL 4" DIAMETER, 8" TALL LED DOWNLIGHT. ONE PIECE DIE CAST 18-GAUGE HOUSING, PAINTED MATTE BLACK, SELF FLANGED WITH TORSION SPRING RETENTION, SERVICE OF LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |
| D1E                             | -                        | -                                                                        | LITHONIA LDN4 SERIES ACUITY BRANDS INDY LIGHTING -                                                                                    | 4,000K<br>80 CRI<br>50,000 HRS<br>1 -                                                                                    | 277                      | -                                      | 29                   | 32                   | ENGINE FROM ABOVE OR THROUGH APERTURE. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP LOCATIONS.  SIMILAR TO D1 EXCEPT WITH 7-WATT EMERGENCY BATTERY MODULE WITH REMOTE TEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
| DS4                             | I2SYSTEMS                | GEN4                                                                     |                                                                                                                                       | 1 INTEGRAL LED<br>900 LUMENS                                                                                             | 277                      | 0-10V, 1%                              | 20                   | 23                   | SWITCH COORDINATE TEST SWITCH WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.  4' NOMINAL DISPLAY CASE LIGHT FIXTURE. COORDINATE MOUNTING WITH ARCHITECT. PROVIDE E05P POWER SUPPLY AND LL-205 0-10V CONTROLLER AS REQUIRED TO PROVIDE A FULLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| DS5                             | I2SYSTEMS                | GEN4                                                                     |                                                                                                                                       | 4,000K  1 INTEGRAL LED 1,125 LUMENS 4,000K                                                                               | 277                      | 0-10V, 1%                              | 25                   | 28                   | FUNCTIONING AND DIMMING LIGHT FIXTURE.  5' NOMINAL DISPLAY CASE LIGHT FIXTURE. COORDINATE MOUNTING WITH ARCHITECT. PROVIDE E05P POWER SUPPLY AND LL-205 0-10V CONTROLLER AS REQUIRED TO PROVIDE A FULLY FUNCTIONING AND DIMMING LIGHT FIXTURE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| DW1                             | LITHONIA                 | LDN6-40-20-L06-AR-LSS-MVOLT-<br>GZ10                                     | HALO COMMERCIAL GOTHAM EVO SERIES LITHONIA LDN4 SERIES ACUITY BRANDS INDY LIGHTING                                                    | 1 INTEGRAL LED<br>2,000 LUMENS<br>4,000K<br>80 CRI<br>60,000 HRS                                                         | 277                      | 0-10V, 10%                             | 23                   | 25                   | NOMINAL 6" DIAMETER, 5-1/2" TALL LED DOWNLIGHT. GALVANIZED STEEL CONSTRUCTION, SELF<br>FLANGED WITH TORSION SPRING RETENTION, SERVICE OF LED ENGINE FROM ABOVE OR<br>THROUGH APERTURE. UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR WET LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u> </u> |
| 2 G1 G1                         | HE WILLIAMS              | GP4-L150/840-M-WGC11-GS/Y26/<br>10-DIM-UNV                               | HE WILLIAMS GH SÉRIÉS<br>LITHONIA IBG SERIES                                                                                          | 1 INTERAL LED<br>15,000 LUMENS<br>4000K<br>80CRI<br>>54,000 HOURS                                                        | 277                      | 0-10V, 10%                             | 107<br>107           | 118 · · ·            | SIMILAR TO DW1 EXCEPT WITH 10-WATT EMERGENCY BATTERY NOMINAL 28" X 24" X 4-1/2" SUSPENDED LED LIGHT FIXTURE, ALUMINUM HOUSING, PAINTED AFTER FABRICATION, POWDER COAT FINISH, DIFFUSE POLYCARBONATE LENSING, 11-GAUGE WIRE GUARD, FIXTURE SHALL BE SUPPORT FROM EACH CORNER. UNIVERSAL VOLTAGE DRIVER. UNIVERSAL | 1        |
| G1AE                            | -                        | -                                                                        | -                                                                                                                                     | 1 -                                                                                                                      | 277                      | -                                      | 107                  | 118                  | SIMILAR TO G1 EXCEPT WITH ASSURANCE SI-36W 36-WATT EMERGENCY BATTERY. BATTERY TO BE PROGRAMMED TO 20W OUTPUT MAX FOR 2-HR RUN TIME. BATTERY TO BE WIRING TO ONLY (1) OF THE (2) TOTAL FIXTURE DRIVERS TO ENSURE LESS THAN 120W CONNECTED TO EMERGENCY BATTERY PER MFR REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| G1E<br>G2                       | -<br>HE WILLIAMS         | -<br>GP4-L200/840-M-WGC11-GS/Y26/<br>10-DIM-UNV                          | -<br>SAME AS G1                                                                                                                       | 1 -<br>1 INTERAL LED<br>20,000 LUMENS<br>4000K                                                                           | 277<br>277               | -<br>0-10V, 10%                        | 107<br>157           | 118<br>173           | SIMILAR TO G1 EXCEPT WITH 12-WATT EMERGENCY BATTERY  SAME AS G1 EXCEPT FOR 20,000 LUMEN PACKAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (        |
| G2AE                            | -                        | -                                                                        | -                                                                                                                                     | 80CRI<br>>54,000 HOURS                                                                                                   | 277                      | -                                      | 157                  | 173                  | SIMILAR TO G2 EXCEPT WITH ASSURANCE SI-36W 36-WATT EMERGENCY BATTERY. BATTERY TO BE PROGRAMMED TO 20W OUTPUT MAX FOR 2-HR RUN TIME. BATTERY TO BE WIRING TO ONLY 1) OF THE (2) TOTAL FIXTURE DRIVERS TO ENSURE LESS THAN 120W CONNECTED TO EMERGENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| G2E<br>G3                       | -<br>HE WILLIAMS         | -<br>GP4-L230/840-M-WGC11-GS/Y26<br>10-DIM-UNV                           | -<br>SAME AS G1                                                                                                                       | 1 -<br>1 INTERAL LED<br>23,000 LUMENS<br>4000K                                                                           | 277<br>277               | -<br>0-10V, 10%                        | 157<br>187           | 173<br>207           | BATTERY PER MFR REQUIREMENTS.  SIMILAR TO G2 EXCEPT WITH 12-WATT EMERGENCY BATTERY  SAME AS G1 EXCEPT FOR 23,000 LUMEN PACKAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| G3AE                            | -                        | -                                                                        | <u>-</u>                                                                                                                              | 80CRI<br>>54,000 HOURS<br>1 -                                                                                            | 277                      | -                                      | 187                  | 207                  | SIMILAR TO G3 EXCEPT WITH ASSURANCE SI-36W 36-WATT EMERGENCY BATTERY. BATTERY TO BE PROGRAMMED TO 20W OUTPUT MAX FOR 2-HR RUN TIME. BATTERY TO BE WIRING TO ONLY 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| Turn H4                         | HE WILLIAMS              | 75R-4-L50-8-40-DIM-UNV                                                   | LITHONIA ZLD1 SERIES                                                                                                                  | 1 INTEGRAL LED                                                                                                           | 277                      | 0-10V, 10%                             | سيسا                 |                      | OF THE (2) TOTAL FIXTURE DRIVERS TO ENSURE LESS THAN 120W CONNECTED TO EMERGENCY  BATTERY, PER MFR REQUIREMENTS.  NOMINAL 4'L X 2-3/4"W X 2"D NARROW STRIP, LED FIXTURE, 22-GAUGE DIE-FORMED CRS, PAINTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| 1144                            | THE WILLIAMO             | 751V-4-250-0-40-BIIVI-01VV                                               | COLUMBIA LIGHTING MPS SERIES                                                                                                          | 5,000 LUMENS<br>4,000K<br>80 CRI<br>50,000 HRS                                                                           |                          | 0-100, 1070                            | -                    |                      | AFTER FABRICATION, POLYESTER POWDER COAT FINISH, ROUNDED DIFFUSE LENSING, UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR DAMP LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| H4A<br>H4BE                     |                          | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                   |                                                                                                                                       | 1<br>1<br>1                                                                                                              | 120<br>120<br>277        | ······································ | 32<br>32<br>32       | 32<br>32<br>32       | SIMILAR TO H4 EXCEPT CONNECTED TO 120V CIRCUIT.  SIMILAR TO H4 EXCEPT WITH 10 WAFT ENERGENCY BATTERY  SIMILAR TO H4 EXCEPT WITH ASSURANCE L25-C 25-WATT EMERGENCY BATTERY. BATTERY TO BE PROGRAMMED TO 16W OUTPUT MAX FOR 2-HR RUN TIME.  SIMILAR TO H4 EXCEPT WITH 10-WATT EMERGENCY BATTERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |
| H8<br>H8E                       | -                        | -<br>-                                                                   | SAME AS H4                                                                                                                            | 1 6,000 LUMENS                                                                                                           | 277<br>277<br>277        | -                                      | 36<br>36             | 36<br>36             | SIMILAR TO H4 EXCEPT WITH 10-WATT EMERGENCY BATTERY  SIMILAR TO H4 EXCEPT HIGHER LUMEN OUTPUT AND 8' IN LENGTH.  SIMILAR TO H8 EXCEPT WITH 10-WATT EMERGENCY BATTERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| N1E                             | FOCAL POINT              | HP-4-P-D-TL-840-F-96LG-277-SC<br>FC-10%-FA##-C#-FE-##                    | PINNACLE LIGHTING EDGE EX4D SERIES MARK ARCHITECTURAL LIGHTING SLOT 4 S4LD 3GLIGHTING - 3G-4PLI-D SERIES FINELITE HP-4 PENDANT SERIES | 1 INTEGRAL LED<br>926 LUMENS/FT<br>4,000K<br>80 CRI<br>100,000 HRS                                                       | 277                      | 0-10V, 10%                             | 9                    | 10                   | NOMINAL 4"W X 4-3/4"D LINEAR LED PENDANT OF VARIABLE LENGTH, DOWNLIGHT ONLY. ALUMINUM BODY CONSTRUCTION WITH INTERNAL JOINER SYSTEM FOR RUNS LONGER THAN 12'. DIE-FORMED 20-GAUGE COLD-ROLLED STEEL REFLECTOR FINISH WITH WHITE POWDER COAT PAINT. CONFIRM FIXTURE LENGTH WITH ARCHITECTURAL PLANS, MOUNT BOTTOM OF FIXTURE FLUSH WITH BOTTOM OF ARCHITECTURAL CEILING. 277 VAC OPERATION, FIXTURE LOAD INFORMATION IN FORM OF PER FOOT, CONFIRM FIXTURE FINISH WITH ARCHITECT PRIOR TO ORDER, UL LISTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| N2<br>N2E                       | -                        | -                                                                        | SAME AS N1E  SAME AS N1E                                                                                                              | 1 720 LUMENS/FT                                                                                                          | 277                      | -                                      | 7                    | 8                    | SIMILAR TO N1E EXCEPT WITH LOWER LUMEN OUTPUT AND WITHOUT EMERGENCY BATTERY OPTION  SIMILAR TO N2 EXCEPT WITH EMERGENCY BATTERY OPTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| N3E<br>N4E<br>P1-8              | FOCAL POINT              | -<br>FSM4BS-FLFL-375DN-275UP-40K<br>-1C-UNV-LD1-C##-WH-#                 | 3GLIGHTING - 3G-PLI SERIES PINNACLE LIGHTING EDGE EX4DI SERIES MARK ARCHITECTURAL LIGHTING - SLOT4 SL4I SERIES                        | 1 356 LUMENS/FT<br>1 300 LUMENS/FT<br>1 INTEGRAL LED<br>275 LUMENS UP<br>375 LUMENS DN<br>4,000K<br>80 CRI<br>61,000 HRS | 277                      | 0-10V, 10%                             | 4<br>4<br>56         | 5 60                 | SIMILAR TO N1E EXCEPT WITH LOWER LUMEN OUTPUT SIMILAR TO N1E EXCEPT WITH LOWER LUMEN OUTPUT SIMILAR TO R1 FIXTURE SERIES EXCEPT PENDANT MOUNT WITH UP/DOWN LIGHT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
| P1-10<br>P1A-8                  |                          | -<br>FSM4LS-FL-375LF-40K-1C-UNV-L<br>D1-C##-WH-#                         | FINELITE HP-4 PENDANT SERIES                                                                                                          | 1 -<br>1 INTEGRAL LED<br>375 LUMENS<br>4,000K<br>80 CRI<br>61,000 HRS                                                    | 277<br>277<br>277        | -<br>0-10V, 10%                        | 70<br>32<br>40       | 74<br>36             | SIMILAR TO P1-8 EXCEPT 10' IN LENGTH SIMILAR TO P1-8 EXCEPT WITHOUT UPLIGHT  SIMILAR TO P1A-8 EXCEPT 10' IN LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| P1A-10E<br>P2                   | LUMEN PULSE              | -<br>LACYN-A-PMD-##-CA##-D-277-9-<br>TG-dL13-40K-CR80-M-DA1              | -<br>GOTHAM EVO SERIES                                                                                                                | 1 INTEGRAL LED<br>1,300 LUMENS<br>4,000K                                                                                 | 277<br>277               | -<br>0-10V, 1%                         | 40<br>15             | 44<br>17             | SIMILAR TO P1A-8 EXCEPT 10' IN LENGTH AND WITH10-WATT EMERGENCY BATTERY  NOMINAL 3" DIAMETER X 9" TALL HIGH-PERFORMANCE LED CYLINDRICAL DOWNLIGHT, ALUMINUM HOUSING, CLEAR POLYCARBONATE OPTICS, 40-DEGREE MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE DRIVER, UL DAMP LOCATION LISTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
| P2A                             | LUMEN PULSE              | LACYM-B-PMD-##-ACC##-D-120/<br>277-18-DL07-40K-CR80-W-DA1-N<br>A-##-B-## |                                                                                                                                       | 80 CRI 1 INTEGRAL LED 700 LUMENS 4,000K 80 CRI                                                                           | 277                      | 0-10V, 1%                              | 7                    | 9                    | SIMILAR TO P2 EXCEPT 6" DIAMETER, 40-DEGREE DISTRIBUTION, AND DIFFERENT LUMEN PACKAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| P2B<br>P3-4E                    | HE WILLIAMS              | -<br>39-4-L30-8-A-EM/10WLP-DIM-UN<br>V                                   | -<br>-                                                                                                                                | 1 4,000 LUMENS<br>1 INTEGRAL LED<br>3,000 LUMENS<br>4,000K<br>80 CRI                                                     | 277                      | -<br>0-10V                             | 23                   | 46<br>25             | SIMILAR TO P2A EXCEPT HIGHER LUMEN OUTPUT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |
| P3-8                            | -                        | -                                                                        |                                                                                                                                       | 1 6,000 LUMENS                                                                                                           | 277                      | -                                      | 46                   | 50                   | SIMILAR TO P3-4E EXCEPT 8' IN LENGTH AND WITHOUT EMERGENCY BATTERY. PROVIDE AS A SINGLE 8' AND NOT (2) 4' FIXTURES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |
| P3-8E<br>P3-12                  | -                        | -<br>-                                                                   | -<br>-                                                                                                                                | ) 1 -<br>) 1 -                                                                                                           | 277<br>277               | -                                      | 46<br>69             | 50<br>75             | SIMILAR TO P3-4E EXCEPT 8' IN LENGTH.  SIMILAR TO P3-4E EXCEPT 12' IN LENGTH AND WITHOUT EMERGENCY BATTERY. PROVIDE (3)  "P3-4" FIXTURES CONTINUOUSLY MOUNTED ON UNI-STRUT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
| P3-12E                          | -                        | -                                                                        | -                                                                                                                                     | 1 -                                                                                                                      | 277                      | -                                      | 69                   | 75                   | SIMILAR TO P3-4E EXCEPT 12' IN LENGTH. PROVIDE (3) P3-4E FIXTURES CONTINUOUSLY MOUNTED ON UNI-STRUT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| P4<br>P4E                       | -                        |                                                                          | GOTHAM EVO SERIES  -                                                                                                                  | INTEGRAL LED<br>2,000 LUMENS<br>4,000K<br>80 CRI                                                                         | 277                      | 0-10V, 1%                              | 23                   | 26                   | SIMILAR TO P2 EXCEPT 6" DIAMETER, 40-DEGREE DISTRIBUTION, BLACK HOUSING AND DIFFERENT LUMEN PACKAGE  SIMILAR TO P4 EXCEPT BATTERY BACK-UP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |
| R1-4                            |                          | FSM4L-FL-625LF-40K-1C-UNV-LC<br>1-XX                                     | AXIS LIGHTING SCULPT RECESSED<br>FINELITE HP4R SERIES<br>PINNACLE LIGHTING EDGE EV4D<br>SERIES                                        | 1 INTEGRAL LED<br>625 LUMENS/FT<br>4,000K<br>80 CRI<br>61,000 HRS                                                        | 277                      | 0-10V, 10%                             | 23                   | 25                   | NOMINAL 4"W x 4"H RECESSED LINEAR LED LIGHT WITH FLUSH LENSING IN LAY-IN CEILING APPLICATIONS. ONE PIECE EXTRUDED ALUMINUM HOUSING WITH POWDER COAT FINISH, 20 GA. STEEL END CAPS, STEEL DRIVER COMPARTMENT, EXTRUDED ACRYLIC LENSING, 0.085" THICK. UNIVERSAL VOLTAGE DRIVER, UL LISTED DRY AND DAMP LOCATIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| R1-4E<br>R1-8<br>R1-8E<br>R1-12 | -<br>-<br>-<br>-         | -<br>-<br>-<br>-                                                         | -<br>-<br>-<br>-                                                                                                                      | 1 -<br>1 -<br>1 -<br>1 -                                                                                                 | 277<br>277<br>277<br>277 |                                        | 23<br>46<br>46<br>69 | 25<br>52<br>52<br>78 | SIMILAR TO R1-4 EXCEPT WITH 10-WATT EMERGENCY BATTERY SIMILAR TO R1-4 EXCEPT 8' IN LENGTH SIMILAR TO R1-4 EXCEPT 8' IN LENGTH AND 10-WATT EMERGENCY BATTERY SIMILAR TO R1-4 EXCEPT 12' IN LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| R1A-4<br>R1A-4E                 |                          | -                                                                        | -<br>-                                                                                                                                | 1 375 LUMENS/FT<br>1 -                                                                                                   | 277<br>277               | -                                      | 14<br>14             | 15<br>15             | SIMILAR TO R1-4 EXCEPT LOWER LUMEN OUTPUT SIMILAR TO R1A-4 EXCEPT WITH 10-WATT EMERGENCY BATTERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| R1A-6<br>R1A-6E<br>R1A-8        | -                        | -                                                                        | -<br>-<br>-                                                                                                                           | 1 -<br>1 -                                                                                                               | 277<br>277<br>277        | -                                      | 21<br>21<br>28       | 23<br>23<br>30       | SIMILAR TO R1A-4 EXCEPT 6' IN LENGTH  SIMILAR TO R1A-4 EXCEPT 6' IN LENGTH AND 10-WATT EMERGENCY BATTERY  SIMILAR TO R1A-4 EXCEPT 8' IN LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| R1A-8E<br>R1A-10<br>R1A-10E     |                          | -<br>-<br>-                                                              | -<br>-<br>-                                                                                                                           | 1 -                                                                                                                      | 277<br>277<br>277<br>277 | -                                      | 28<br>35<br>35       | 30<br>38<br>38       | SIMILAR TO R1A-4 EXCEPT 8' IN LENGTH AND 10-WATT EMERGENCY BATTERY  SIMILAR TO R1A-4 EXCEPT 10' IN LENGTH  SIMILAR TO R1A-4 EXCEPT 10' IN LENGTH AND 10-WATT EMERGENCY BATTERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |
| R1A-12<br>R1A-14E               | -                        | -                                                                        | -                                                                                                                                     | 1 -                                                                                                                      | 277<br>277               | -                                      | 42<br>42             | 45<br>45             | SIMILAR TO R1A-4 EXCEPT 12' IN LENGTH SIMILAR TO R1-4 EXCEPT LOWER LUMEN OUTPUT, 14' IN LENGTH, AND 10-WATT EMERGENCY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| R1B-4E                          | -                        | -                                                                        | uminimum.                                                                                                                             | -                                                                                                                        | 277                      | -                                      | 14                   | 15                   | SIMILAR TO R1-4 EXCEPT WITH ASSURANCE L25-C 25-WATT EMERGENCY BATTERY TO BE PROGRAMMED TO 16W OUTPUT MAX FOR 2-HR RUN TIME.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |
|                                 | munud                    |                                                                          |                                                                                                                                       |                                                                                                                          |                          |                                        |                      |                      | The state of the s |          |

|                     |                                        |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LAMPS                                                                |                                            |                  | BALLAST<br>INPUT |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | MANUPACTURER                           | MODEL                                              | THE PROPERTY OF THE PROPERTY O | سعطمسن                                                               | ~                                          | سكطفس            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| R1B-8E              |                                        | OSQ-A-NM-2ME-B-40K-UL-BZ-R                         | - 1<br>LITHONIA DSX SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | - INTEGRALLER                                                        | 277<br>••••••••••••••••••••••••••••••••••• |                  | 28               | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SIMILAR TO R1-4 EXCEPT WITH ASSURANCE L25-C 25-WATT EMERGENCY BATTERY. BATTERY TO BE PROGRAMMED TO 16W OUTPUT MAX FOR 2-HR RUN TIME.  SINGLE HEAD SITE LIGHT FIXTURE. TYPE II WITH SPILL CONTROL DISTRIBUTION. EXTRUDED                                                                                                                                                                                                                                                                                                                                        |
| 32                  | CIVEL                                  |                                                    | BEACON VIPER SERIES MCGRAW EDISON GALLEON SERIES COOPER PREVAIL SERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11,424 LUMENS<br>4,000K<br>70 CRI                                    |                                            | 0-100            |                  | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ALUMINUM DRIVER ENCLOSURE THERMALLY ISOLATED. HIGH-EFFICIENCY LED OPTICS. STANARD ARM MOUNT WITH EXTRUDED ALUMINUM ARM WITH INTERNAL BOLT GUIDES. POWDER COATED HEAT SINK, BRONZE FINISH. PROVIDE WITH ANSI C136.41 7-PN RECEPTACLE FOR WIRELESS CONTROL CAPABILITIES. LIGHTING OPTION. FIXTURE SHALL BE MOUNTED AT +20' AFG, UNLESS OTHERWISE NOTED, [RE: DIMENSION 'Y1' IN POLE BASE DETAIL.] UL WET LOCATION LISTED.                                                                                                                                        |
| S3<br>S4            | -                                      | <u>-</u>                                           | SAME AS S2 1<br>SAME AS S2 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                    | 277<br>277                                 | -                | 86<br>86         | 95<br>95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4" ROUND STEEL POLE, DARK BRONZE FINISH WITH 2' ARM LENGTH AND VIBRATION DAMPENER.  SIMILAR TO S2 EXCEPT WTIH TYPE III DISTRIBUTION.  SIMILAR TO S2 EXCPET WITH TYPE IV DISTRIBUTION.                                                                                                                                                                                                                                                                                                                                                                          |
| S4 <b>-</b> 2<br>S5 | -                                      | -                                                  | SAME AS S2 2 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                    | 277<br>277                                 |                  | 172<br>86        | 190<br>95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SIMILAR TO S4 EXCEPT WITH (2) HEADS AT 180-DEGREES. SIMILAR TO S2 EXCEPT WITH TYPE V DISTRIBUTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SA1/SA2             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 3530             | 3885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60' POLE WITH (1) Z1, (1) Z2, (2) Z3, AND (1) Z4 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.                                                                                                                                                                                                                                                                                                                                                   |
| SA3/SA4             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 5260             | 5790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70' POLE WITH (1) Z1, (1) Z2, AND (4) Z4 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.                                                                                                                                                                                                                                                                                                                                                           |
| SA5/SA6<br>SA7/SA8  | MUSCO<br>MUSCO                         | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1  EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                    | 480                                        |                  | 5260<br>5260     | 5790<br>5790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 70' POLE WITH (1) Z1, (1) Z2, AND (4) Z4 FIXTURES. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (1) Z1, (1) Z2, AND (4) Z4 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT                                                                                                                                                                                                                                                        |
| SB1/SB2             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | _                | 6430             | 7075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOCATION WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.  60' POLE WITH (1) Z2 AND (7) Z4 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION                                                                                                                                                                                                                                                                          |
| SB3                 | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 10590            | 11650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | WITH MFR AND ARCHITECT.  70' POLE WITH (1) Z1, (1) Z2, AND (7) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SB4                 | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 12020            | 13222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (1) Z1, (1) Z2, AND (8) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT                                                                                                                                                                                                                                                                          |
| SB5/SB6             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 9160             | 10075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (1) Z1, (1) Z2, AND (6) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SB7/SB8             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 9160             | 10075                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (1) Z1, (1) Z2, AND (6) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT                                                                                                                                                                                                                                                                          |
| SC1/SC2             | MUSCO                                  | _                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 9730             | 10705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (2) Z2 AND (6) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SC3/SC4             | MUSCO                                  | -                                                  | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        | -                | 6870             | 7560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION WITH MFR AND ARCHITECT.  70' POLE WITH (2) Z2 AND (4) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION                                                                                                                                                                                                                                                                                   |
| SC5/SC6             | MUSCO                                  | - (                                                | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                    | 480                                        |                  | 6870             | 7560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WITH MFR AND ARCHITECT.  70' POLE WITH (2) Z2 AND (4) Z5 FIXTURES. COORDINATE POLE TYPE AND FIXTURE MOUNTING WITH POLE MANUFACTURER. POLE LOCATION IS APPROXIMATE, COORDINATE EXACT LOCATION                                                                                                                                                                                                                                                                                                                                                                   |
| SF                  | ECOSENSE<br>LIGHTING                   | F080-2H-HO-40-9-05-K-E                             | RAB 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | INTEGRAL LED<br>4000K<br>90CRI                                       | 277                                        |                  | 23               | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WITH MER AND ARCHITECT  WET LOCATION RATED ADJUSTABLE ANGLE FLAGPOLE SPOT LIGHT SURFACE MOUNTED TO IN-GRADE LANDSCAPE ELECTRICAL BOX. FIXTURE TO BE BLACK WITH (2) HORIZONATALLY MOUNTED HIGH OUTPUT HEADS, 90 CRI, AND 5 DEGREE BEAM ANGLE                                                                                                                                                                                                                                                                                                                    |
| U1                  | HE WILLIAMS                            | 1SF                                                | FULL SAME AS SZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INTEGRAL LED<br>2,400 LUMENS<br>4,000K                               | 277                                        | NON -<br>DIMMING | 21               | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SIMILAR TO S2 EXCEPT WITH 53W (2) POWER DESIGNATOR.  4' UNDER CABINET LIGHT MOUNTED TO UNDERSIDE OF CABINET.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| V4A                 | COOPER                                 | 2VRVT3-LD5-4-W-UNV-L840-CD1                        | LITHONIA VAP LED SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80 CRI<br>INTEGRAL LED<br>4,000 LUMENS<br>4,000K                     |                                            | 0-10V            | 34               | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NOMINAL 4'L x 4" DEEP ENCLOSED LED STRIP, DURABLE POLYCARBONATE HOUSING, HIGH IMPACT, LATCHING, POLYCARBONATE LENSING, UNIVERSAL VOLTAGE DRIVER. UL LISTED FOR WET LOCATIONS, IP65 RATED.                                                                                                                                                                                                                                                                                                                                                                      |
| V4B                 | ************************************** | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |                                            | ~~~~~            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SIMILAR TO VÁA EXCEPT HIGHER LÚMEN OUTPUT AND 10-WATT EMERGENCY BATTERY )  LED LOMINAIRE WITH AS HIMETRICAL LIGHT DISTRIBUTION, DIE-CAST MARINE GRADE HOUSING.                                                                                                                                                                                                                                                                                                                                                                                                 |
|                     | BEGA                                   | 24 8 16                                            | WE-EF PIA-240 LED LIGMAN LIGHTING UMN-361 PERFORMANCE IN LIGHTING SHIELD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6,674 LUMENS<br>4,000K<br>80 CRI                                     |                                            | 0=104            | - जा             | - 569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIVERSAL VOLTAGE DRIVER, UL WET LOCATION LISTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| W1A<br>W1E          | -                                      | -                                                  | SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      | 120<br>277                                 | -                | 61<br>61         | 67<br>67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SIMILAR TO W1 EXCEPT CONNECTED TO 120V SOURCE.  SIMILAR TO W1 EXCEPT PROVIDED WITH IOTA ILB CP10 10-WATT REMOTE EMERGENCY BATTERY                                                                                                                                                                                                                                                                                                                                                                                                                              |
| W2                  | WE-EF LIGHTING                         | OLV344 LED-R65-RAL9004                             | LITHONIA WDGE2 LED SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INTEGRAL LED<br>5,903 LUMENS<br>4,000K<br>80 CRI<br>60,000 HRS       | 277                                        | NON-DIMMING      |                  | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DRIVER. LOCATE IN NEAREST ACCESSIBLE CEILING LOCATION TO FIXTURE.  SURFACE MOUNTED WALL SECURITY LUMINAIRE. ALUMINUM FIXTURE BODY AND LENS FRAME, SILICONE RUBBER GASKETED, POLYMER COATED STAINLESS STEEL FASTENERS, TYPE IV DISTRIBUTION, UNIVERSAL VOLTAGE DRIVER, CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING, IP65 RATED, UL WET LOCATION LISTED.                                                                                                                                                                                                     |
| W2E<br>W8           | FOCAL POINT                            | -<br>FSM4LWL-FL-625LF-40K-1C-UNV<br>-LD1-XFW-WH-## | - 1 AXIS LIGHTING WET-BEAM 4 LED 1 PINNACLE LIGHTING EDGE EV3WET MARK ARCHITECTURAL LIGHTING SLOT 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | INTEGRAL LED<br>625 LUMENS/FT<br>4,000K<br>80 CRI<br>61,000 HRS      | Г                                          | -<br>0-10V, 10%  | 48 26            | 51 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SIMILAR TO W2 EXCEPT WITH 622-7402 EMERGENCY BATTERY.  NOMINAL 4"W X 4"H RECESSED LINEAR LED LIGHT WITH FLUSH LENSING IN ARCHITECTURAL CEILING, COORDINATE CEILING TYPE WITH ARCHITECTURAL PLANS. ONE PIECE EXTRUDED ALUMINUM HOUSING WITH POWDER COAT FINISH, 20 GA. STEEL END CAPS, STEEL DRIVER COMPARTMENT, EXTRUDED ACRYLIC LENSING, 0.085" THICK. NOMINAL FIXTURE IS SHOWN AS 8' IN LENGTH, PROVIDE A CONTINUOUS FIXTURE RUN WHERE SHOWN ON PLANS, UNIVERSAL VOLTAGE DRIVER, UL WET LOCATION LISTED.  SIMILAR TO W8 EXCEPT WITH EMERGENCY BATTERY OPTION |
| W8E<br>W16          | KELVIX                                 | TAPE: DK40K-WR-24V<br>CHANNEL:                     | GEN-LED ACOLYTE SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | INTEGRAL LED<br>440 LUMENS/FT                                        |                                            | 0-10V            | 26<br>53         | 29<br>58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SIMILAR TO WE EXCEPT WITH EMERGENCY BATTERY OPTION  LED TAPE LIGHT, RUBBER COATED, INDUSTRIAL ADHESIVE BACKING, 120-DEGREE BEAM SPREAD, PROVIDED WITHIN NOMINAL 3"W X 1-3/8"D X 16'L EXTRUDED ALUMINUM CHANNEL WITH ANODIZED                                                                                                                                                                                                                                                                                                                                   |
| W16E                | -                                      | CH-048-R1-F-16-WH-CP-EC<br>REMOTE DRIVER: HLV96    | }<br>- } <sub>1</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4,000K<br>90 CRI<br>-                                                | 277                                        | -                | 53               | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MATTE FINISH. LOCATE REMOTE DRIVER IN ACCESSIBLE LOCATION AND COORDINATE OUTPUT CONDUCTOR LENGTH. UNIVERSAL VOLTAGE LINE VOLTAGE TO 24VDC, UL WET LOCATION LISTED.  SIMILAR TO W16 EXCEPT PROVIDED WITH ASSURANCE SI-125 EMERGENCY BATTERY BACKUP.                                                                                                                                                                                                                                                                                                             |
| WW                  | BEGA                                   | 44 419                                             | INSIGHT LIGHTING MEDLEY X PINNACLE MOFFFAT MW SPI LIGHTING STYK EXTERIOR STEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | INTEGRAL LED<br>1,399 LUMENS<br>4,000K                               |                                            | 0-10V            | 36               | 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LOCATE REMOTE BATTERY ABOVE ACCESSIBLE CEILING IN MUSIC CLASSROOMS.  EXTERIOR LED WALL LUMINAIRE, HOUSING CONSTRUCTED OF DIE-CAST AND EXTRUDED MARINE GRADE, ALUMINUM ALLOY MATTE SAFETY GLASS, HIGH TEMPERATE SILICONE GASKETED, COORDINATE FINISH WITH ARCHITECT PRIOR TO ORDERING, IP 65 RATED, UL WET LOCATION                                                                                                                                                                                                                                             |
| X1                  | HE WILLIAMS                            | EXIT/CA-R-WF-WHT-EM-SDT/TP-<br>D                   | DUAL-LITE LE SERIES -<br>LITHONIA LE SERIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 80 CRI<br>500,000 HRS<br>INTEGRAL LED                                | 277                                        | NON-DIMMING      | 5                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LISTED.  UNIVERSAL CEILING OR WALL LED EXIT SIGN WITH SELF-DIAGNOSTICS. BRUSHED ALUMINUM TRIM FINISH WITH RED LETTERS. UNIVERSAL VOLTAGE 120/277 VAC OPERATION. CHEVRON ARROWS AS INDICATED ON DRAWINGS. PROVIDE WIRE GUARD OPTION IN GYM OR SIMILAR                                                                                                                                                                                                                                                                                                           |
|                     | MOLECIGHTING                           | MX-B-G-U-REM1-WG2                                  | }                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NTEGRALLED                                                           | 1 <del>217</del> 1                         | NON-DIMMINE      | mather.          | The state of the s | TYPES OF SPACES. UL 924 COMPLIANT, UL LISTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| XU                  | HUBBELL                                | LES SERIES LESWSRXWA-SW3                           | <b>\</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | INTEGRAL LEG                                                         | 277                                        | NON-DIMMING      | 5                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 924 COMPLIANT, UL LISTED.  UNIVERSAL MOUNT EXIT SIGN WITH RED LETTERING AND CUSTOM WORDING OF 'IN USE'.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                     |                                        |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16,599 LUMENS<br>5,700K                                              | 248B4                                      |                  |                  | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Z2                  | MUSCO                                  | TLC-BT SERIES                                      | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 70 CRI INTEGRAL LED 52,000 LUMENS 5,700K 70 CRI                      | 5                                          | NON-DIMMING      | 575              | 633                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LIGHTING COMPONENT FOR FIXTURES SA#, SB#, SC#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                     | MUSCO                                  | TLC-LED SERIES                                     | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | L70>120,000 HR:<br>INTEGRAL LED<br>89,600 LUMENS<br>5,700K<br>70 CRI | 480                                        | NON-DIMMING      | 890              | 979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LIGHTING COMPONENT FOR FIXTURES SA#, SB#, SC#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Z3                  |                                        |                                                    | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | L70>120,000 HRS                                                      |                                            | NON-DIMMING      | 1170             | 1287                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIGHTING COMPONENT FOR FIXTURES SA#, SB#, SC#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Z3<br>Z4            | MUSCO                                  | TLC-LED SERIES                                     | EPHESUS LUMA SPORT 8 SERIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 136,000 LUMENS<br>5,700K<br>70 CRI                                   |                                            |                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

GENERAL NOTES:

A. ANY PROPRIETARY, SOLE-SOURCED LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE SHALL BE UNIT PRICED ONLY. NO PACKAGING OR LOT PRICING OF THESE LIGHT FIXTURES SHALL BE ALLOWED. UNIT PRICES SHALL BE CLEARLY IDENTIFIED ON THE REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING (MLP) FOR LIGHT FIXTURES SPECIFIED IN 265100 AND 265600 ONLY. REFER TO SPECIFICATION 265100 FOR DEFINITION, TERMS AND LIMITATIONS OF MLP.

PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED. VERIFY QUANTITIES, MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURER PRIOR TO PLACING ORDER.

VERIFY FINISH AND COLOR WITH ARCHITECT PRIOR TO PLACING ORDER. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION. CONTACT ARCHITECT IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE

CONTRACTOR SHALL PROVIDE ALL LIGHT FIXTURES UNLESS NOTED OTHERWISE.
REFER TO DIVISION 26 SPECIFICATIONS FOR ACCEPTABLE LED AND DRIVER MANUFACTURERS AND ADDITIONAL INFORMATION.
FOR DIMMABLE LIGHT FIXTURES, REFER TO DIVISION 26 SPECIFICATIONS FOR MORE INFORMATION REGARDING CONTROL WIRING AND COMPATIBILITY.

CATALOG NUMBER REPRESENTS MANUFACTURER LISTED FIRST. OTHER MANUFACTURERS LISTED ARE CONSIDERED EQUIVALENT FOR SUBSTITUTION. DUE TO AESTHETIC OR PERFORMANCE CRITERIA, SPECIFIED MANUFACTURER SHALL BE THE ONLY MANUFACTURER ALLOWED TO BID UNLESS OTHERWISE APPROVED BY ARCHITECT.

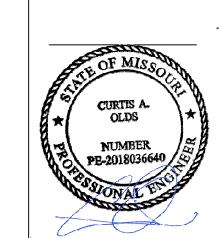
CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURES LISTED ARE THE BASIS FOR THE DESIGN.

CONFIRM FINAL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
FIXTURE LENGTHS ARE NOMINAL AND MAY NOT INDICATE TRUE LENGTH OF FIXTURE. REVIEW PLANS AND FIXTURE LAYOUT FOR NON-LINEAR CONTINUOUS RUNS WHERE NOTED. PROVIDE ALL FACTORY MOUNTED CORNER PIECES TO PROVIDE A SINGLE

CONTINUOUS FIXTURE. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THEN FIELD LISTING OF EQUIPMENT IS ACCEPTABLE (AT CONTRACTOR'S COST), IF APPROVED BY THE AHJ.

WHERE FIXTURE IS SHOWN ON PLANS IN ARMSTRONG 4X4 CEILNG TILE WITH TECHONE CEILING, FIXTURE PROVIDED SHALL BE TECHZONE COMPATIBLE VERSION OF SPECIFIED FIXTURE.
WHERE FIXTURE IS SHOWN ON PLANS IN GYPSUM BOARD CEILNG, FIXTURE PROVIDED SHALL BE MUD-IN MOUTNING TYPE.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001 ADDENDUM 002

13-20102-00 LIGHT FIXTURE SCHEDULES

|           |                                                                   | E                                                                | XTERIOR                                           | LIGHT           | FIXT      | <b>URE</b>  | SCHEDULE                                                                                                                    |      |
|-----------|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|-----------------|-----------|-------------|-----------------------------------------------------------------------------------------------------------------------------|------|
| ГҮРЕ      | MANUFACTURER / MODEL #                                            | ALTERNATES                                                       | LAMPING /<br>LIGHT SOURCE                         | DIMMING<br>TYPE | VOLTAGE   | INPUT<br>VA | DESCRIPTION                                                                                                                 | NOTE |
| SP        | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-2ME-Z-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES                              | LED 4000K<br>70CRI<br>6,896 LUMENS                | 0-10V           | 480V      | 53          | SINGLE-HEAD, DARK-SKY-FRIENDLY PEDESTRIAN POLE LIGHT WITH TYPE 2 DISTRIBUTION, MOUNTED AT 12.5'.                            |      |
| S2        | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-2ME-B-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES McGRAW EDISON GALLEON SERIES | LED 4000K<br>70CRI<br>11,424 LUMENS               | 0-10V           | 480V      | 83          | SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 2 DISTRIBUTION, MOUNTED AT 15' OR 20'                       |      |
| <br>33    | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-3ME-B-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES McGRAW EDISON GALLEON SERIES | LED 4000K<br>70CRI<br>11,424 LUMENS               | 0-10V           | 480V      | 83          | SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 3 DISTRIBUTION, MOUNTED AT 15' OR 20'                       |      |
| 64        | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-4ME-B-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES McGRAW EDISON GALLEON SERIES | LED 4000K<br>70CRI<br>11,424 LUMENS               | 0-10V           | 480V      | 83          | SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 4 DISTRIBUTION, MOUNTED AT 15' OR 20'                       |      |
| 64-2      | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-4ME-B-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES McGRAW EDISON GALLEON SERIES | LED 4000K<br>70CRI<br>11,424 LUMENS<br>(PER HEAD) | 0-10V           | 480V      | 83          | TWO-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 4 DISTRIBUTION, MOUNTED AT 15' OR 20'                          |      |
| S5        | CREE LIGHTING OSQ-DA-BZ + OSQ-A-NM-5ME-B-40K-UH-BZ                | LITHONIA LIGHTING - DSX0 LED SERIES McGRAW EDISON GALLEON SERIES | LED 4000K<br>70CRI<br>11,424 LUMENS               | 0-10V           | 480V      | 83          | SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 5 DISTRIBUTION, MOUNTED AT 15' OR 20'                       |      |
| WW        | BEGA<br>44 419-K4-BRZ                                             | LITON - WLP32 DEXTERO SERIES VISIONARE LIGHTING - VSC-II SERIES  | LED 4000K<br>70CRI<br>1,399 LUMENS                | 0-10V           | 120-277V  | 36          | LED WALL MOUNTED LINEAR GRAZER LUMINAIRE. WET LOCATION RATED FOR PROTECTION CLASS IP 65.                                    |      |
| W1<br>W1E | BEGA<br>24 816-K4-BRZ                                             |                                                                  | LED 4000K<br>70CRI<br>6,674 LUMENS                | 0-10V           | 120-277V  | 61          | LED WALL LUMINARE WITH ASYMETRICAL LIGHT DISTRIBUTION. WET LOCATION RATED FOR PROTECTION CLASS IP 65.  WITH BATTERY BACK-UP |      |
| W2        | WE-EF OLV344 LED-[R65](622-7723)-5903LM-48W-4000K-RAL9004         | LITHONIA LIGHTING                                                | LED 4000K<br>80CRI                                |                 | 120-277V  | 55          | BLACK WALL MOUNTED WET LOCATION RATED TYPE 4 DISTRIBUTION LED BACK OF HOUSE LUMINAIRE                                       |      |
| W2E       | OLV344 LED-[R65](622-7723)-5903LM-48W-4000K-RAL9004-EM622-7402    |                                                                  | 5903LUMENS                                        |                 |           |             | WITH BATTERY BACK-UP                                                                                                        | I    |
| V8        | FOCAL POINT SEEM 4 FSM4LWL-FL-625LF-40K-1C-UNV-LD1-*CEILING*-WH-8 | MARK ARCHITECTURAL LIGHTING                                      | LED 4000K<br>80CRI<br>625 LUMENS/FT               | 0-10V           | 120-277V  | 7 VA/FT     | 4" X8' LINEAR RECESSED LED CEILING MOUNTED LUMINARE WITH SYMMETRIC LIGHT DISTRIBUTION. WET LOCATION RATED                   |      |
| V8E       | FSM4LWL-FL-625LF-40K-1C-UNV-LD1-*CEILING*-EM-WH-8                 |                                                                  |                                                   |                 |           |             | WITH BATTERY BACK UP                                                                                                        |      |
| V16       | KELVIX                                                            |                                                                  | LED 4000K                                         |                 | 24V/ 277V | 5 VA/FT     | LED TAPE LIGHT WITH 2" BY 16' LED CHANNEL                                                                                   |      |
|           | CHANNEL: CH-013C-16FT-FR-RC-EC                                    |                                                                  | 80CRI                                             |                 | LED       |             |                                                                                                                             | ı    |
|           | TAPE: DK41K-WR-24V                                                |                                                                  | 440 LUMENS/FT                                     |                 | DRIVER    |             |                                                                                                                             | ı    |
| V16E      | REMOTE DRIVER: 277 TO 24V                                         |                                                                  |                                                   |                 |           |             | WITH BATTERY REMOTE BATTERY BACK-UP                                                                                         |      |

|             |            |          |                        | SPORTS L   | LIGHTING FIXT               | ΓURE    | SCH   | HEDL            | JLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |
|-------------|------------|----------|------------------------|------------|-----------------------------|---------|-------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| POLE GROUP  | INDIVIDUAL | QUANTITY | MANUFACTURER / MODEL # | APPROVED   | LAMPING /                   | VOLTAGE | INPUT | TOTAL           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NOTES                  |
| FIXTURE TAG | FIXTURES   |          |                        | ALTERNATES | LIGHT SOURCE                |         | VA    | VA              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S2         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 1170  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1200 - MH: 60' |            | 75 CRI                      | 3-PHASE |       |                 | AL DESCRIPTION A SPORTS LIGHTING  SPORTS LIGHTING  SPORTS LIGHTING  PUBLIC LIGHTING  SPORTS LIGHTING |                        |
|             | 0.4        |          | MUGGG                  |            | 136,000 LUMENS              | 400)/   | 000   |                 | ODODTO LIQUITINO                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
|             | S4         | 2        | MUSCO                  |            | LED 5700K                   | 480V    | 890   |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-900 - MH: 60'  |            | 75 CRI<br>89,600 LUMENS     | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z1          | S3         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 575   | 3655            | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAGS A1, A2      |
|             | 05         | '        | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE | 373   |                 | or orthogonalist                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
|             |            |          | 1.20 2.1 0.10          |            | 52,000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S5         | 1        | CREE                   |            | LED 5700K                   | 480V    | 130   |                 | PUBLIC LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | OSQ - MH: 30'          |            | 70 CRI                      | 1-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 16,599 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S2         | 4        | MUSCO                  |            | LED 5700K                   | 480V    | 1170  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1200 - MH: 70' |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 136,000 LUMENS              |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S3         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 575   | PUBLIC LIGHTING |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z2          |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE |       | 5385            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A7, A8                 |
|             | 25         |          | ODEE.                  |            | 52,000 LUMENS               | 400)/   | 400   |                 | DUDUO LIQUETINO                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S5         | 1        | CREE                   |            | LED 5700K                   | 480V    | 130   |                 | PUBLIC LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | OSQ - MH: 30'          |            | 70 CRI<br>16,599 LUMENS     | 1-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S2         | 5        | MUSCO                  |            | LED 5700K                   | 480V    | 1170  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | 02         |          | TLC-LED-1200 - MH: 60' |            | 75 CRI                      | 3-PHASE | 1170  |                 | or orthogonalist                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
|             |            |          | 120 225 1200 1 00      |            | 136.000 LUMENS              |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z3          | S3         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 575   | 6425            | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAG B1, B2       |
|             |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 52,000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S1         | 7        | MUSCO                  |            | LED 5700K                   | 480V    | 1430  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1500 - MH: 70' |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 160,000 LUMENS              |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S3         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 575   |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z4          |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE |       | 10715           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAG B3           |
|             |            |          |                        |            | 52,000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S5         | 1        | CREE<br>OSQ - MH: 30'  |            | LED 5700K                   | 480V    | 130   |                 | PUBLIC LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | 03Q - IVIN. 30         |            | 70 CRI<br>16,599 LUMENS     | 1-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S1         | 8        | MUSCO                  |            | LED 5700K                   | 480V    | 1430  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1500 - MH: 70' |            | 75 CRI                      | 3-PHASE | 1 100 |                 | er errie Elemme                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 160,000 LUMENS              |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S3         | 1        | MUSCO                  |            | LED 5700K                   | 480V    | 575   |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z5          |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE |       | 12145           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAG B4           |
|             |            |          |                        |            | 52,000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S5         | 1        | CREE                   |            | LED 5700K                   | 480V    | 130   |                 | PUBLIC LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | OSQ - MH: 30'          |            | 70 CRI                      | 1-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 16,599 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S1         | 6        | MUSCO                  |            | LED 5700K                   | 480V    | 1430  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1500 - MH: 70' |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S3         | 1        | MUSCO                  |            | 160,000 LUMENS<br>LED 5700K | 480V    | E7E   |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | 53         | '        | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE | 5/5   |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z6          |            |          | TEG-BT-373 - IMIT. 10  |            | 52,000 LUMENS               | 3-FHASE |       | 9285            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAGS B5,B6,B7,B8 |
|             |            |          |                        |            | 62,000 ESIMENTS             |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S5         | 1        | CREE                   |            | LED 5700K                   | 480V    | 130   |                 | PUBLIC LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | OSQ - MH: 30'          |            | 70 CRI                      | 1-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 16,599 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            |                             |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S1         | 6        | MUSCO                  |            | LED 5700K                   | 480V    | 1430  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1500 - MH: 70' |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | MILOGO                 |            | 160,000 LUMENS              | 40017   |       |                 | ODODTO LIQUITINO                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |
| Z7          | S3         | 2        | MUSCO                  |            | LED 5700K                   | 480V    | 575   | 9730            | SPURTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAGS C1,C2       |
|             |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI<br>52,000 LUMENS     | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 52,000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             | S1         | 4        | MUSCO                  |            | LED 5700K                   | 480V    | 1430  |                 | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          | TLC-LED-1500 - MH: 70' |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|             |            |          |                        |            | 160,000 LUMENS              |         |       | 227             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| Z8          | S3         | 2        | MUSCO                  |            | LED 5700K                   | 480V    | 575   | 6870            | SPORTS LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MUSCO TAGS C3,C4,C5,C6 |
|             |            |          | TLC-BT-575 - MH: 16'   |            | 75 CRI                      | 3-PHASE |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
| I           | 1          |          |                        |            | 52 000 LUMENS               |         |       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |

52,000 LUMENS

| ERAL |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------|
|      | A. REFER TO LIGHT FIXTURE SCHEDULE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
|      | MUSCO LIGHTING REP:                                                                             |
|      | TODD STYCH                                                                                      |
|      | MOBILE: 563-260-0994                                                                            |
|      | PHONE: 844-232-6157                                                                             |

EMAIL: TODD.STYCH@MUSCO.COM

| LV8a   | 3                                            | a-ON/FFF      | a - GENERAL                         | 100%, 0% TOGGLE |  |  |  |  |  |  |  |  |  |  |
|--------|----------------------------------------------|---------------|-------------------------------------|-----------------|--|--|--|--|--|--|--|--|--|--|
|        | 4                                            | b-ON/OFF      | b - GENERAL                         | 100%, 0% TOGGLE |  |  |  |  |  |  |  |  |  |  |
|        | 5                                            | c-ON/OFF      | c - GENERAL                         | 100%, 0% TOGGLE |  |  |  |  |  |  |  |  |  |  |
|        | NOTE: ZONE c DIMMING CONTROLLED BY PHOTOCELL |               |                                     |                 |  |  |  |  |  |  |  |  |  |  |
|        |                                              |               |                                     |                 |  |  |  |  |  |  |  |  |  |  |
|        | 1                                            | ALL ON        | a - GENERAL, b - GENERAL-1, c - AV  | 80%             |  |  |  |  |  |  |  |  |  |  |
|        | 2                                            | ALL OFF       | a - GENERAL, b - GENERAL-1, c - AV  | 0%              |  |  |  |  |  |  |  |  |  |  |
|        | 3                                            | GENERAL RAISE | a - GENERAL                         | RAISE           |  |  |  |  |  |  |  |  |  |  |
| 1.1/00 | 4                                            | GENERAL LOWER | a - GENERAL                         | LOWER           |  |  |  |  |  |  |  |  |  |  |
| Lvoa   | 5                                            | GENERAL RAISE | b - GENERAL                         | RAISE           |  |  |  |  |  |  |  |  |  |  |
|        | 6                                            | GENERAL LOWER | b - GENERAL                         | LOWER           |  |  |  |  |  |  |  |  |  |  |
|        | 7                                            | AV RAISE      | c - AV                              | RAISE           |  |  |  |  |  |  |  |  |  |  |
|        | 8                                            | AV LOWER      | c - AV                              | LOWER           |  |  |  |  |  |  |  |  |  |  |
|        |                                              |               | •                                   |                 |  |  |  |  |  |  |  |  |  |  |
|        | 1                                            | ALL ON        | a - BOH, b - GENERAL-1, c - GENERAL | 50%             |  |  |  |  |  |  |  |  |  |  |
|        | 2                                            | ALL OFF       | a - BOH, b - GENERAL-1, c - GENERAL | 0%              |  |  |  |  |  |  |  |  |  |  |
|        | 3                                            | GENERAL RAISE | а - ВОН                             | RAISE           |  |  |  |  |  |  |  |  |  |  |
| 1.1/01 | 4 GENERAL LOWER                              |               | a - BOH                             | LOWER           |  |  |  |  |  |  |  |  |  |  |
| LVSD   | 5                                            | GENERAL RAISE | b - GENERAL                         | RAISE           |  |  |  |  |  |  |  |  |  |  |

| IUL <sup>-</sup> | ΓI-BU        | <b>TTON SWI</b>        | TCH SCHEDULE                          |                         |  |  |  |  |
|------------------|--------------|------------------------|---------------------------------------|-------------------------|--|--|--|--|
| OTE: PRO         | VIDE FACTOR  | RY BUTTON ENGRAVING FO | R ALL MULTI-BUTTON SWITCHES WITH MOR  | E                       |  |  |  |  |
| HAN ONE          | BUTTON UNL   | ESS NOTED OTHERWISE. F | REFER TO BUTTON LABEL COLUMN FOR TEX  | т                       |  |  |  |  |
| SWITCH           | BUTTON       | BUTTON LABEL           | CONTROLLED LOAD (ZONE)                | BUTTON OPERATION        |  |  |  |  |
| LV1a             | 1A           |                        |                                       | 50%, RAISE              |  |  |  |  |
|                  | 1B           | OFF/LOWER              | a - GENERAL                           | 0%, LOWER               |  |  |  |  |
|                  | 1Δ           | ON/PAISE               | 2 GENERAL                             | 80%, RAISE              |  |  |  |  |
| LV1b             |              |                        |                                       | 0%, LOWER               |  |  |  |  |
|                  | 15           | OTT/EOWER              | a orivervit                           | 070, 2000210            |  |  |  |  |
| LV               | 1A           | ON                     | GENERAL ON                            | ON                      |  |  |  |  |
| LV               | 1B           | OFF                    | GENERAL OFF                           | OFF                     |  |  |  |  |
|                  |              |                        |                                       |                         |  |  |  |  |
| _                | 1            | RAISE                  | CURRENT ZONE                          | RAISE                   |  |  |  |  |
| LV3a             | 2            | LOWER                  | CURRENT ZONE                          | LOWER                   |  |  |  |  |
|                  | 3            | UN/OFF                 | GENERAL                               | 80%, 0% TOGGLE          |  |  |  |  |
|                  | 1            | ON/PAISE               | 2 GENERAL                             | 80% DAICE               |  |  |  |  |
|                  |              |                        |                                       | 80%, RAISE<br>0%, LOWER |  |  |  |  |
| LV4a             |              |                        |                                       | 80%, RAISE              |  |  |  |  |
|                  |              |                        |                                       | 0%, LOWER               |  |  |  |  |
|                  | <del>_</del> | J. I. / LOVY LIX       | o on the other                        | 0 /U, LUVV LIX          |  |  |  |  |
|                  | 1            | ON                     | a - ON                                | ON                      |  |  |  |  |
|                  | 2            | OFF                    | a - OFF                               | OFF                     |  |  |  |  |
| LV4b             | 3            | ON                     | b - ON                                | ON                      |  |  |  |  |
|                  | 4            | OFF                    | b - OFF                               | OFF                     |  |  |  |  |
|                  |              |                        |                                       | ·                       |  |  |  |  |
|                  | 1A           | RAISE                  | ALL ZONES                             | RAISE                   |  |  |  |  |
|                  | 1B           | LOWER                  | ALL ZONES                             | LOWER                   |  |  |  |  |
| LV5a             | 2            | ALL ON/OFF             | ALL ZONES                             | 100%, 0% TOGGLE         |  |  |  |  |
| _,,,             | 3            |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  |              |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  | 5            | z17-ON/OFF             | z17 - GENERAL                         | 100%, 0% TOGGLE         |  |  |  |  |
|                  | 1.0          | DAICE                  | ALL ZONES                             | RAISE                   |  |  |  |  |
|                  |              |                        |                                       | LOWER                   |  |  |  |  |
|                  |              |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
| LV5b             |              |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  |              |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  | 5            | d-ON/OFF               |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  |              |                        |                                       | ·                       |  |  |  |  |
|                  |              |                        |                                       |                         |  |  |  |  |
|                  | 1A           | RAISE                  | CURRENT ZONE                          | RAISE                   |  |  |  |  |
|                  | 1B           | LOWER                  | CURRENT ZONE                          | LOWER                   |  |  |  |  |
|                  | 2            | ALL ON/OFF             | a - GEN., b - GEN., c - DAYLIGHTING   | 100%, 0% TOGGLE         |  |  |  |  |
| LV5c             | 3            | a-ON/FFF               | a - GENERAL                           | 100%, 0% TOGGLE         |  |  |  |  |
|                  | 1            |                        | 100%, 0% TOGGLE                       |                         |  |  |  |  |
| LV4b  LV5a       | 5            |                        |                                       | 100%, 0% TOGGLE         |  |  |  |  |
|                  |              |                        | NOTE: ZONE c DIMMING CONTROLLED BY PH | HOTOCELL                |  |  |  |  |
|                  | 1            | ΔΙΙ ΩΝ                 | a-GENERAL & GENERAL 1 o AV            | 80%                     |  |  |  |  |
|                  |              |                        |                                       | 0%                      |  |  |  |  |
|                  |              |                        |                                       | RAISE                   |  |  |  |  |
|                  |              |                        |                                       | LOWER                   |  |  |  |  |
| LV8a             |              |                        |                                       | RAISE                   |  |  |  |  |
|                  |              |                        |                                       | LOWER                   |  |  |  |  |
|                  |              |                        |                                       | RAISE                   |  |  |  |  |
|                  |              |                        |                                       | LOWER                   |  |  |  |  |
|                  |              | 1                      | I                                     | I                       |  |  |  |  |
|                  | 1            | ALL ON                 | a - BOH, b - GENERAL-1, c - GENERAL   | 50%                     |  |  |  |  |
|                  | 2            | ALL OFF                | a - BOH, b - GENERAL-1, c - GENERAL   | 0%                      |  |  |  |  |
|                  | 3            | GENERAL RAISE          | а - ВОН                               | RAISE                   |  |  |  |  |
| 1.1/04           | 4            | GENERAL LOWER          | а - ВОН                               | LOWER                   |  |  |  |  |
| LAAD             | 5            | GENERAL RAISE          | b - GENERAL                           | RAISE                   |  |  |  |  |
|                  | 6            | GENERAL LOWER          | b - GENERAL                           | LOWER                   |  |  |  |  |
|                  | 7            | AV RAISE               | c - GENERAL                           | RAISE                   |  |  |  |  |
|                  | 8            | AV LOWER               | c - GENERAL                           | LOWER                   |  |  |  |  |

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING CONTROL SEQUENCE OF OPERATIONS

General Note: Confirm all sensor time delays with owner and local codes prior to final programming.

1. Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output. ICC-500 shelter emergency fixtures to be equipped with a battery back-up that provides 2-hours of operation. All other emergency light fixtures shall have a battery back-up capable of 90 minutes of operation.

2. Security Lighting: Night lights, labeled "NL" in building corridors for security purposes: 3. Lighting control types: A combination of Occupancy Sensors for smaller rooms and public spaces and Networked Lighting Control Panels for general circulation 4. Networked Lighting Control Panels to be controlled via a combination of Time Switched and manual control via Interfaces provided in Reception D100A and Vestibule G11. Time Switch controls to be set to automatically switch the general circulation and public spaces on during building hours of operation and off after hours. Preliminary suggested hours of operation are 6:00 AM to 9:00 PM.

5. Occupancy sensors in front of house and back of house rooms to be set to time out as noted. 6. Electrical rooms, Mechanical rooms, Technology rooms and Janitor Rooms to be provided with line voltage switches for manual control.

B. ROOM CONTROLLER RC1 1. Manual Control: Occupant can manually control lights via local switch(es).

2. Occupancy: Occupant must manually turn on lights via low voltage. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.

C. ROOM CONTROLLER RCR 1. Manual Control: Building facilities personnel can manually override lights via local keyed switch. Switched conductors from room controller to be routed through

2. Occupancy: Lights are auto on by occupancy sensor with a line voltage keyed switch acting as a master override for lights. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.

D. ROOM CONTROLLER RC2 1. Manual Control: Occupant must manually control lights via local switch(es).

2. Occupancy: Occupant must manually turn on lights.

3. Vacancy: Occupant must manually turn off lights.

E. ROOM CONTROLLER TW1 1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

2. Color Tuning: Fixtures can be color tuned via manual controller 3. Occupancy: Occupant must manually turn on lights. 4. Vacancy: After 30 minutes, all controlled loads shall turn off.

F. ROOM CONTROLLER TW2 1. Manual Control: Occupant must manually control lights and dimming via local switch(es) from outside the room.

2. Color Tuning: Fixtures can be color tuned via manual controller 3. Occupancy: Occupant must manually turn on lights from outside the room. 4. Vacancy: Occupant must manually turn off lights from outside the room.

G. ROOM CONTROLLER D1A

1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 30 minutes, all controlled loads shall turn off.

H. ROOM CONTROLLER D1B

1. Manual Control: Occupant can manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights.

3. Vacancy: After 20 minutes, all controlled loads shall turn off.

I. ROOM CONTROLLER D1D 1. Manual Control: Occupant must manually control lights and dimming via local switch(es).

2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: Occupant must manually turn off lights. 4. (4) local room controllers to be networked together for control of gym lights.

J. ROOM CONTROLLER D1E

1. Manual Control: Occupant must manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights.

3. Vacancy: Occupant must manually turn off lights.

K. ROOM CONTROLLER D2A 1. Manual Control: Occupant can manually control lights and dimming via local switch(es). Occupancy: Occupant must manually turn on lights.

3. Vacancy: After 30 minutes, all controlled loads shall turn off.

L. ROOM CONTROLLER D2B

1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 30 minutes, all controlled loads shall turn off.

M. ROOM CONTROLLER D3A 1. Manual Control: Occupant must manually control lights and dimming via local switch(es).

2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: Occupant must manually turn off lights.

N. ROOM CONTROLLER D3B

1. Manual Control: Occupant must manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: Occupant must manually turn off lights.

O. EXTERIOR LIGHTING

1. Driveway, Pedestrian and Building Mounted Light Fixtures Automatic Control: Fixtures shall be controlled with astronomical time switch control in conjunction with a single photocell via lighting control panels.

A. Fixtures to operate from dusk until dawn.

B. Coordinate additional programing requirements with owner. C. Refer to lighting controls panel schedules and lighting control panel portion of sequence of operations for more information.

2. Parking Lot Pole Mounted Fixture Automatic Controls: A. Fixtures to operate from dusk until dawn, on/off functionality controlled by Synapse Wireless (mesh type) system photocell, located in main electrical room. B. Parking lots to have a 50% reduction in light output 1-hour after close of business per city of Lee's Summit requirements. Coordinate close of business/district schedule with district and programming. Dimming to be provided by wireless system via twist-lock lighting controller (7-pin receptacle) located

C. Coordinate additional programing requirements with owner. P. LIGHTING CONTROL PANELS LCP1A, LCP1B, LCP1C, LCP1D, LCP1E, LCP1G, LCP1S 1. New Lighting Control Panels to be networked together and interface with exterior photocell and astronomical time clock. Lighting Control Panels to be

programmed to turn interior lighting on automatically during building hours of operation (6:00AM to 9:00PM) and accept on/off and dimming input from master controller/local switches. Exterior lighting to operate dusk to dawn. All programming and hours of operation to be coordinated with school district personnel. 2. Master Control Switches to provide 2-hour override of time clock during scheduled building vacancy hours. Individual on/off and dimming of select zones to be controlled by Master Control Switches during non-standard building events. Control zones:

Zone z1: spare

Zone z2: Pedestrian and Driveway Site Light Fixtures (does not include parking lot poles) controlled by astronomical time clock and photocell via lighting control panels. Fixtures to operate from dusk to dawn

Zone z3: Exterior Building Mounted Light Fixtures (does not include parking lot poles) controlled by astronomical time clock and photocell via lighting control panels. Fixtures to operate from dusk to dawn

Zone z4: spare

Zone z11 Spare

Zone z5: General Circulation Corridors Levels 1&2 – automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z6: Learning Commons Corridors Levels 1&2– automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z7: Learning Commons Accent Lighting Level 1– automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z8: Learning Commons Clerestory Lighting Level 1– automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z9 Medium Group Areas – automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z10 Large Stair Lighting Areas – automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

2 $ar{y}$ Zone z13 Theatrical lighting - controlled locally via DMX lighting controls board.

Zone z15 Competition Gym North Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z14 Platform General Lighting - routed through lighting control panel, Manually operated on/off and dimming controls via local switch.

Zone z16 Competition Gym Central Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z17 Competition Gym South Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z18 Commons North Cylindrical - automatically operated during hours of operation by time clock and manually controlled and dimmed by

Zone z19 Commons East Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z20 Commons South Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z21 Commons West Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z22 Commons West Linear Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by

master control switch(es) via lighting control panels Zone z23 Commons East Linear Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z24 Spare

Zone z25 Spare

**RELEASE FOR** CONSTRUCTION

LEE'S SUMMIT, MISSOURI

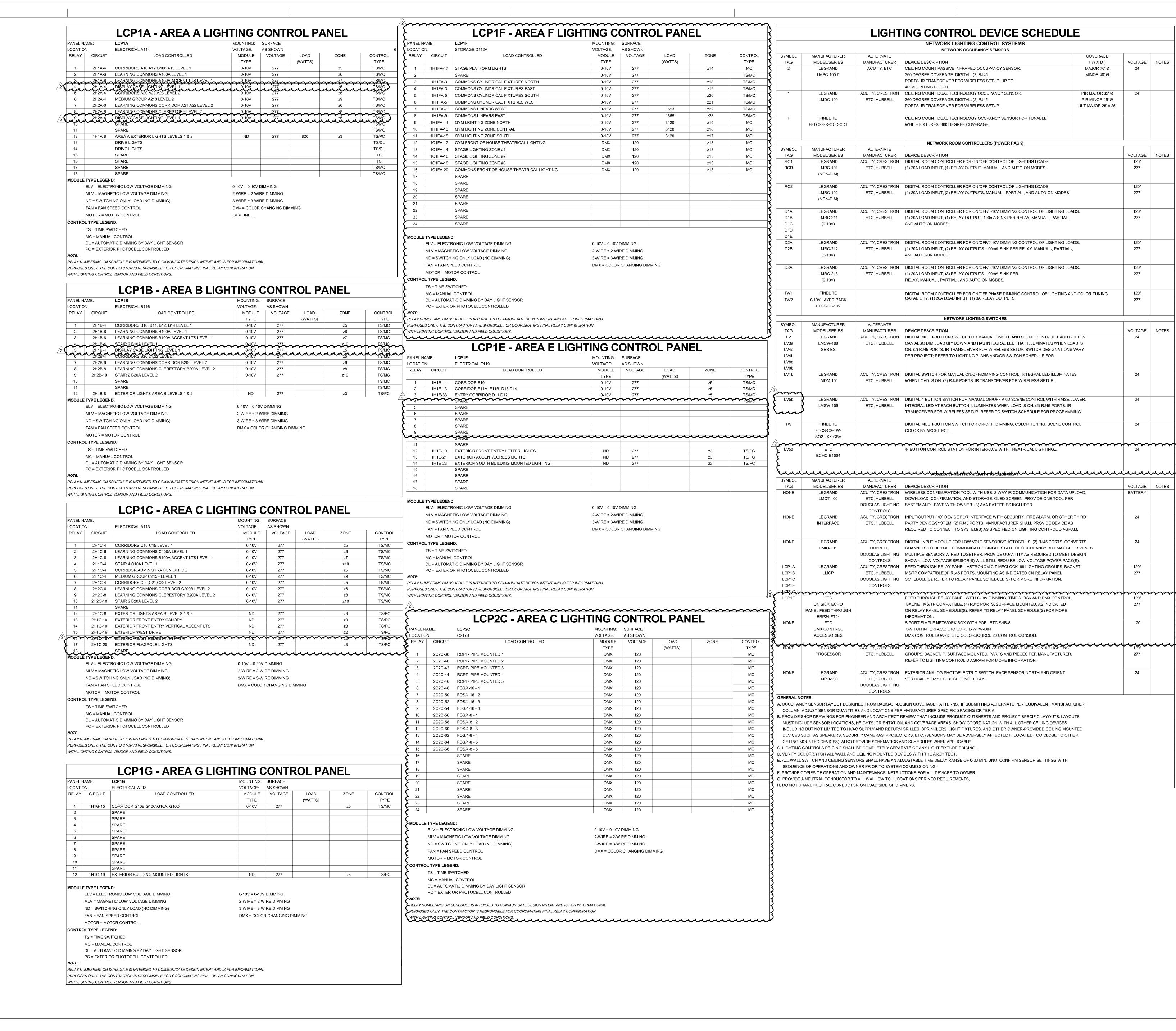


LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS

ADDENDUM 002

13-20102-00 LIGHT FIXTURE SCHEDULES



PACKAGE 3 - BUILDING &

10/08/20

REVISIONS

ADDENDUM 002

13-20102-00

LIGHTING

CONTROL

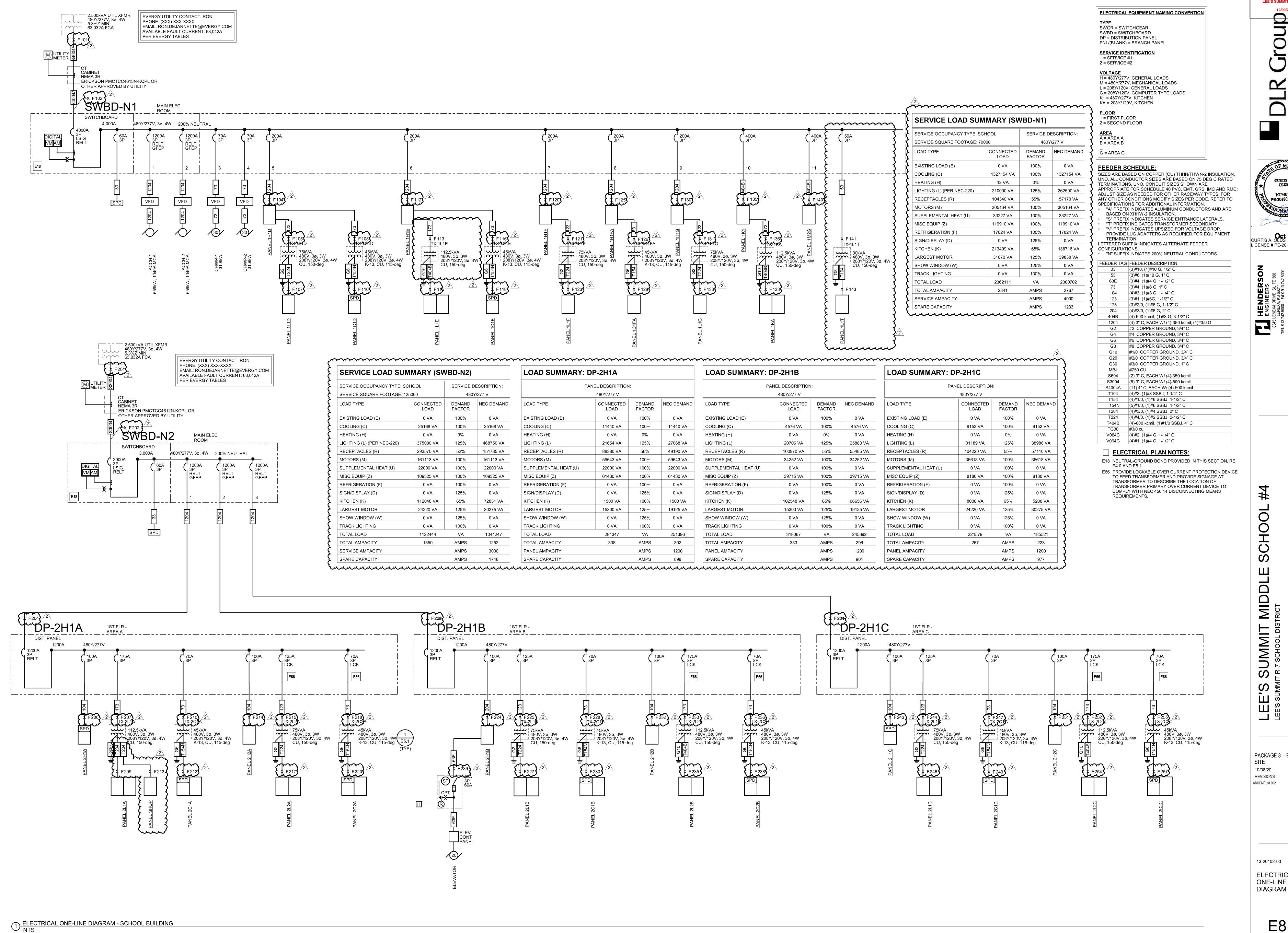
SCHEDULES

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HENDERS ENGINEERS



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PACKAGE 3 - BUILDING 8 10/08/20 REVISIONS ADDENDUM 002

13-20102-00 ELECTRICAL ONE-LINE

E8.

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

M Current

0.23 | 14340 | -1.03% | -1.20%

0.97 4733 -0.12% -1.38%

0.95 10146 -0.06% -1.72%

0.22 | 13271 | -1.14% | -1.31%

0.96 3848 -0.13% -1.50%

0.59 36243 -0.22% -0.39%

0.45 27782 -0.63% -0.80%

0.85 30732 -0.06%

Current

(amps)

0.98 6030 -0.12% -2.14%

0.037 | 0.96 | 3836 | -0.13% | -2.20% | 257

0.40 11527 -0.34% -2.07% 255

0.14 6165

5.686 0.15 3979

1.507

60467 -0.11% -0.11%

-1.26% -1.26%

-1.72%

-1.37% 122

-1.37%

-0.45%

-0.86% | 137

Voltage Drop

-2.02% 253

-2.07% 256

13390 -0.06%

0.17 | 10682 | -1.49%

0.20 4627

0.15 3992

PACKAGE 3 - BUILDING &

SITE 10/08/20 REVISIONS ADDENDUM 002

13-20102-00 ELECTRICAL ONE-LINE DIAGRAM

**Short-Circuit and Voltage Drop Calculations** Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance VOLTAGE DROP (3Ø): The following calculations are based on the "Point-by-Point" method where:  $f(3\emptyset) = 1.732 \times L \times lsc$  $ISC(2) = ISC(1) \times M(1)$ XFMR:  $f(3\emptyset) = IP(sca)x Vp x 1.73 x %Z$ %VD= ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E IS(sca)= Vp x M x IP(sca) ISC (1) = short circuit current at fault point 1 VOLTAGE DROP (1Ø): CxE 100.000 x KVA ISC (2) = short circuit current at fault point 2 %VD= ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E  $f(1\emptyset) = 2 \times L \times lsc$ XFMR:  $f(1\emptyset) = IP(sca)x Vp x \%Z$  $C \times E$ 100,000 x KVA IP = Primary short circuit current Vp = Primary voltage %VD CUM= Cumulative Voltage Drop from Fault Point 1 to Fault Point # IS= Secondary short circuit current R= resistance in ohms per LF Vs= Secondary voltage L = Length of circuit E = Line to line volts X= reactances in ohms per LF C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer Conductor 'C' Busway 'C' L-L Voltage Length Load Power Circuit Load (Amperage) Material Quantity of Parallel Sets and Bus/ Phase (Fault Phase Point) Bus/Feeder Description Resistance Reactance Arccos (pf) | New Xfmr | Existing | Secondary | Tap (amps) | Condail & Neutral Size (R) (X) Voltage 63,042 at the secondary of the utility transformer Source Isc + 6X Motor Contribution = Motor Contribution The connected full load motor amps (includes compressors) on the system To SWBD-N1 63042 NM CU 11 Set(s) of 500 26706 480 40 0.9 3200 0.000027 0.000039 0.451027 0.031 0.97 61148 -0.17% -0.17% 0.9 0.000160 0.000057 0.451027 To TX-1L1D To Pnl 1L1D 208 | 10 | 0.9 | 180 | 0.000063 | 0.000051 | 0.451027 15082 1 Set(s) of 4/0 AWG 108 🎝 To TX-1C1D 
 480
 10
 0.9
 56
 0.000310
 0.000060
 0.451027
 M CU 1 Set(s) of 6.227 0.14 4031 
 208
 10
 0.9
 120
 0.000120
 0.000055
 0.451027
 To Pnl 1C1D 0.038 0.96 3885 -0.13% -1.40% 1 | Set(s) of | 1/0 | AWG To Pnl 1H1E 160 0.000079 0.000052 0.451027 1 | Set(s) of | 3/0 To TX-1L1E Set(s) of 4.060 0.026 0.98 4512 -0.12% -1.84% 15 To Pnl 1L1E 15082 208 | 10 | 0.9 | 180 | 0.000063 | 0.000051 | 0.451027 1 | Set(s) of | 4/0 | AWG 116 To TX-1C1E 480 10 0.9 56 0.000310 0.000060 0.451027 0.101 | 0.91 | 9700 | -0.06% | -1.72% 4.785 0.17 3870 -1.72% 117 K-13 115 45 2.67 118 To Pnl 1C1E 
 208
 10
 0.9
 120
 0.000120
 0.000055
 0.451027
 0.036 0.97 3735 -0.13% -1.86% 118 480 | 210 | 0.9 | 160 | 0.000079 | 0.000052 | 0.451027 3.608 0.22 13271 -1.14% -1.31% To TX-1L1F 1 Set(s) of 
 480
 10
 0.9
 100
 0.000160
 0.000057
 0.451027
 0.066 0.94 12453 -0.06% -1.37% 4.983 0.17 4803 12453 TX To Pnl 1L1F 
 208
 10
 0.9
 180
 0.000063
 0.000051
 0.451027
 0.027 0.97 4679 -0.12% -1.49% 61148 M CU To Pnl 1H1FA 1 Set(s) of 3/0 AWG 126 To TX-1C1FA 
 480
 10
 0.9
 56
 0.000310
 0.000060
 0.451027
 0.126 0.89 11788 -0.06% -1.37% 13271 1 Set(s) of 4 AWG 3806 X-1C1FA 5.815 o Pnl 1C1FA 1 Set(s) of 1/0 AWG 0.000079 0.000052 0.451027 o Pnl 1H1G 1 Set(s) of 3/0 AWG To TX-1L1G 36243 1 AWG 7293 0.000160 0.000057 0.451027 1 Set(s) of 480 10 0.9 100 12.298 0.08 5333 To Pnl 1L1G 0.029 0.97 5181 -0.12% -0.57% 1 Set(s) of 4/0 AWG 
 208
 10
 0.9
 180
 0.000063
 0.000051
 0.451027
 320 0.000025 0.000048 0.451027 22965 480 125 0.9 1│Set(s) of 600 kcmil 1 Set(s) of 2/0 AWG 140 0.000100 0.000054 0.451027 0.093 | 0.91 | 25413 | -0.06% | -0.86% | 136 8.207 0.11 6370 o Pnl 1KA 6370 M CU 1 Set(s) of 600 kcmil 
 208
 10
 0.9
 320
 0.000025
 0.000048
 0.451027
 0.023 0.98 6226 -0.12% -0.97% 138 
 480
 100
 0.9
 320
 0.000025
 0.000048
 0.451027
 0.961 0.51 31185 -0.50% -0.67% 2 3 61148 NM CU 1 Set(s) of 6 AWG 2430 - 480 300 0.9 40 0.000490 0.000051 0.451027 محمد محمد محمد التركيدي Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance VOLTAGE DROP (3Ø):  $f(3\emptyset) = 1.732 \times L \times lsc$ XFMR:  $f(3\emptyset) = IP(sca)x Vp x 1.73 x \%Z$ %VD= ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E IS(sca)= <u>Vp x M x IP(sca)</u> CxE 100,000 x KVA VOLTAGE DROP (1Ø): XFMR:  $f(1\emptyset) = \frac{IP(sca)x Vp \times \%Z}{IP(sca)x Vp \times \%Z}$ %VD= ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E f (1Ø)= 2 x L x lsc CxE 100,000 x KVA IP = Primary short circuit current Vp = Primary voltage IS= Secondary short circuit current Vs= Secondary voltage R= resistance in ohms per LF X= reactances in ohms per LF L = Length of circuit E = Line to line volts Conductor 'C' Busway 'C' L-L Voltage Circuit Load Power Circuit Load

**Short-Circuit and Voltage Drop Calculations** 

The following calculations are based on the "Point-by-Point" method where:  $ISC(2) = ISC(1) \times M(1)$ ISC (1) = short circuit current at fault point 1 ISC (2) = short circuit current at fault point 2

254 To Pnl 2L2C 255 To TX-2C2C 256 X-2C2C 257 To Pnl 2C2C

%VD CUM= Cumulative Voltage Drop from Fault Point 1 to Fault Point #

Source Isc + 6X Motor Contribution =

New Xfmr | Existing | Secondary

DOE 150 112.5 4.37

K-13 115 45 2.67

Voltage

|          | C = "C" Factor from Bussman table where                                         | "C" = 1 / impe   | edance pe  | r linear foot   |                     |           |      |                                                         |     |       |       |  |  |
|----------|---------------------------------------------------------------------------------|------------------|------------|-----------------|---------------------|-----------|------|---------------------------------------------------------|-----|-------|-------|--|--|
|          | Feeder Types =                                                                  |                  |            |                 |                     |           |      |                                                         |     |       |       |  |  |
|          | NM - Non Magnetic Conduit, M - Magnetic Conduit,                                | FB - Feeder E    | Busway, Pl | B - Plug-in Bus | sway, TX - Tra      | ansformer |      |                                                         |     |       |       |  |  |
|          |                                                                                 |                  |            |                 |                     |           |      |                                                         |     |       |       |  |  |
| ılt      |                                                                                 | Source           |            | Source Isc      |                     |           | F    | Conducto                                                |     |       |       |  |  |
| nt<br>f) | Bus/Feeder Description                                                          | (Fault<br>Point) | Phase      | (amps)          | Conduit<br>Type/ TX | Material  | Quar | Quantity of Parallel Sets and Bus/ Phase & Neutral Size |     |       |       |  |  |
| 1        | Utility Service Point 63,042 at the secondary of the utility transformer        |                  |            |                 |                     |           |      |                                                         |     |       |       |  |  |
|          | Motor Contribution The connected full load motor amps (includes compressors) or |                  |            |                 |                     |           |      |                                                         |     |       |       |  |  |
| 2        | To SWBD-N2                                                                      | 201              | 3          | 63042           | NM                  | CU        | 8    | Set(s) of                                               | 500 |       | 26706 |  |  |
| 3        | 3                                                                               | Č                | }          |                 |                     |           |      |                                                         |     |       |       |  |  |
| 4        | To DP-2H1A                                                                      | 202              | 3          | 60467           | М                   | CU        | 3    | Set(s) of                                               | 600 | kcmil | 2296  |  |  |
| 5        | {                                                                               | {                | 3          |                 |                     |           |      |                                                         |     |       |       |  |  |

| ( 202          | 70 3 V DD-112                             | 201 | <b>2</b> 3                         | 03042                                  | INIVI       | CO             | 0 361(3) 01 | 300        |            | 20700                | <del></del>         | 400   | 40      | 0.9        | 1500           | 0.000027       | 0.000039     | 0.431027   |             |                     |            |                    | 0.043                                  | 0.90    | 00407   | -0.1170         | -0.1170                                | 202        |
|----------------|-------------------------------------------|-----|------------------------------------|----------------------------------------|-------------|----------------|-------------|------------|------------|----------------------|---------------------|-------|---------|------------|----------------|----------------|--------------|------------|-------------|---------------------|------------|--------------------|----------------------------------------|---------|---------|-----------------|----------------------------------------|------------|
| 203            |                                           |     | }                                  |                                        |             |                |             |            |            |                      |                     |       |         |            |                |                |              |            |             |                     |            |                    |                                        |         |         |                 |                                        | 203        |
| 204            | To DP-2H1A                                | 202 | 3                                  | 60467                                  | М           | CU             | 3 Set(s) of | 600        | kcmil      | 22965                |                     | 480   | 575     | 0.9        | 900            | 0.000025       | 0.000048     | 0.451027   |             |                     |            |                    | 1.821                                  | 0.35    | 21434   | -2.70%          | -2.81%                                 | 204        |
| 205            | <u> </u>                                  |     | <b>}</b>                           |                                        |             |                |             |            |            |                      |                     |       |         |            |                |                |              |            |             |                     |            |                    |                                        |         |         |                 |                                        | 205        |
| 206            | To Pnl 2H1A                               | 204 | 3                                  | 21434                                  | M           | CU             | 1 Set(s) of | 3          | AWG        | 4774                 |                     | 480   | 10      | 0.9        | 80             | 0.000250       | 0.000059     | 0.451027   |             |                     |            |                    | 0.162                                  | 0.86    | 18446   | -0.07%          | -2.89%                                 | 206        |
| 207            | To TX-2L1A                                | 204 | 3                                  | 21434                                  | М           | CU             | 1 Set(s) of | 2/0        | AWG        | 10755                |                     | 480   | 10      | 0.9        | 140            | 0.000100       | 0.000054     | 0.451027   |             |                     |            |                    | 0.072                                  | 0.93    | 19996   | -0.06%          | -2.87%                                 | 207        |
| 208            | #XPb4~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 207 | ሎት                                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | <b>~</b> ₩~ | $\sim\sim\sim$ | $\sim\sim$  | $\sim\sim$ | $\sim\sim$ | $\sim\sim\sim$       | $\boldsymbol{\sim}$ | ~#BQ~ | $\sim$  | $\sim\sim$ | $\sim\sim\sim$ | $\sim\sim\sim$ | $\sim\sim$   | $\sim\sim$ | A BOEN      | ~46V~               | 4125~~     | <del>43</del> 7~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | malen   | ~~~~    | $\sim\sim$      | ~~~~~~~                                | ~342~      |
| 209            | To Pnl 2L1A                               | 208 | 3                                  | 6188                                   | M           | CU             | 1 Set(s) of | 3/0        | AWG        | 12844                |                     | 208   | 10      | 0.9        | 160            | 0.000079       | 0.000052     | 0.451027   |             |                     |            | - h- h- h- h-      | 0.040                                  |         | 5949    | -0.12%          | -3.00%                                 | 209        |
| 210            | To TX-2C1A                                | 204 | $\mathcal{F}_3$                    | 21434                                  | M           | - Ci           | 1 Set(s) of | -0-0-4     | AWG        | 3806                 | <u> </u>            | 480   | 20      | 0.9        | 56             | 0.000310       | 0.000060     | 0.451027   |             | 0-0-0               | 0.00       | 0000               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 0.71    | 15240   | -0.12%          | -2.94%                                 | 210        |
| 211            | TX-2C1A                                   | 210 | 3                                  | 15240                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | K-13        | 115                 | 45         | 2.67               | 208 7.518                              | 0.12    | 4129    |                 | -2.94%                                 | 211        |
| 212            | To Pnl 2C1A                               | 211 | <del>ሉ</del>                       | ~~4 <del>/2</del> 9~~                  | ~~~         | ~~~            | 1-60H6Y04   | ~~~        | AMOUNT     | ~1 <del>50</del> 8}~ | $\sim\sim$          | ~~~~~ | marker. | ~~~        | ~~~~~          | ~easease~      | - ACCORDANCE | ~9454P2Z~  | $\sim\sim$  | $\boldsymbol{\sim}$ | $\sim\sim$ | $\sim\sim\sim$     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~ | ~~402~~ | ~ <del>}^</del> | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~242~~     |
| 213            | To Pni Shop                               | 208 | 3                                  | 6188                                   | M           | CU             | 1 Set(s) of | 3/0        | AWG        | 12844                |                     | 208   | 10      | 0.9        | 160            | 0.000079       | 0.000052     | 0.451027   |             |                     |            | - A- A- A- A-      | 0.040                                  | 0.96    | 5949    | -0.12%          | -3.00%                                 | 213        |
| (   2          | TO PHI 2H2A                               |     | ₹ <sup>3</sup>                     | 21434                                  | M           |                | 1 Set(s) of | 3          | AWG        | 4774                 | <u> </u>            | 480   | 33      | 0.9        | 80             | 0.000230       | 0.000039     | 0.431027   | <del></del> | 000                 |            | 0000               | 0.507                                  | 0.04    | 13070   | -0.23 /6        | -3.07 /0                               | 214        |
| 215            | To TX-2L2A                                | 204 | <b>)</b> 3                         | 21434                                  | M           | CU             | 1 Set(s) of | 1          | AWG        | 7293                 |                     | 480   | 35      | 0.9        | 100            | 0.000160       | 0.000057     | 0.451027   |             |                     |            |                    | 0.371                                  | 0.73    | 15632   | -0.21%          | -3.03%                                 | 215        |
| 216            | TX-2L2A                                   | 215 | 3                                  | 15632                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | DOE         | 150                 | 75         | 3.61               | 208 6.255                              | 0.14    | 4972    |                 | -3.03%                                 | 216        |
| <i>y</i>       | To Pnl 2L2A                               | 216 | 3                                  | 4972                                   | M           | CU             | 1 Set(s) of |            | AWG        | 15082                |                     | 208   | 10      | 0.9        | 180            | 0.000063       | 0.000051     | 0.451027   |             |                     |            |                    | 0.027                                  | 0.97    | 4839    | -0.12%          | -3.15%                                 | 217        |
| S -            | To TX-2C2A                                | 204 | 3                                  | 21434                                  | M           | CU             | 1 Set(s) of | 4          | AWG        | 3806                 |                     | 480   | 35      | 0.9        | 56             | 0.000310       | 0.000060     | 0.451027   |             |                     |            |                    | 0.711                                  | 0.58    | 12525   | -0.22%          | -3.03%                                 | 218        |
| 0              | TX-2C2A                                   | 218 | <b>5</b> 3                         | 12525                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | K-13        | 115                 | 45         | 2.67               | 208 6.178                              | 0.14    | 4027    |                 | -3.03%                                 | 219        |
| <b>X</b>       | To Pnl 2C2A                               | 219 | 3                                  | 4027                                   | M           | CU             | 1 Set(s) of | 1/0        | AWG        | 8925                 |                     | 208   | 10      | 0.9        | 120            | 0.000120       | 0.000055     | 0.451027   |             |                     |            |                    | 0.038                                  | 0.96    | 3881    | -0.13%          | -3.16%                                 | 220        |
| 221            | <b>\</b>                                  |     | ξ                                  |                                        |             |                |             |            |            | _                    |                     |       |         |            |                | _              |              | _          |             |                     |            |                    |                                        |         |         |                 |                                        | 221        |
| \ <del>-</del> | To DP-2H1B                                | 202 | <b>3</b>                           | 60467                                  | М           | CU             | 3 Set(s) of | 600        | kcmil      | 22965                |                     | 480   | 480     | 0.9        | 900            | 0.000025       | 0.000048     | 0.451027   |             |                     |            |                    | 1.520                                  | 0.40    | 23993   | -2.26%          | -2.37%                                 | 222        |
| 223            | <b>(</b>                                  |     | ₹                                  |                                        |             |                |             |            |            |                      |                     |       |         |            |                |                |              |            |             |                     |            |                    |                                        |         |         |                 |                                        | 223        |
| 224            | To Pnl 2H1B                               | 222 | $\frac{2}{3}$                      | 23993                                  | M           | CU             | 1 Set(s) of | _          | AWG        | 4774                 |                     | 480   | 10      | 0.9        | 80             | 0.000250       | 0.000059     | 0.451027   |             |                     |            |                    | 0.181                                  | 0.85    | 20310   | -0.07%          | -2.44%                                 | 224        |
| 225            | To TX-2L1B                                | 222 | <b>)</b> 3                         | 23993                                  | M           | CU             | 1 Set(s) of | 1          | AWG        | 7293                 |                     | 480   | 10      | 0.9        | 100            | 0.000160       | 0.000057     | 0.451027   |             |                     |            |                    | 0.119                                  |         | 21447   | -0.06%          | -2.43%                                 | 225        |
| 7              | <b>T</b> X-2L1B                           | 225 | 3                                  | 21447                                  | TX          |                |             |            |            |                      |                     | 480   |         | _          |                |                |              |            | DOE         | 150                 | 75         | 3.61               | 208 8.582                              | 0.10    | 5165    |                 | -2.43%                                 | 226        |
| اد اد          | To Pnl 2L1B                               | 226 | $\frac{3}{2}$                      | 5165                                   | M           | CU             | 1 Set(s) of |            | AWG        | 15082                |                     | 208   | 10      | 0.9        | 180            | 0.000063       | 0.000051     | 0.451027   |             |                     |            |                    | 0.029                                  |         | 5022    | -0.12%          | -2.55%                                 | 227        |
| <u></u>        | To TX-2C1B                                | 222 | <b>5</b> 3                         | 23993                                  | M           | CU             | 1 Set(s) of | 4          | AWG        | 3806                 |                     | 480   | 20      | 0.9        | 56             | 0.000310       | 0.000060     | 0.451027   |             |                     |            |                    | 0.455                                  | 0.69    | 16491   | -0.12%          | -2.49%                                 | 228        |
| 0              | TX-2C1B                                   | 228 | <b>3</b> 3                         | 16491                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | K-13        | 115                 | 45         | 2.67               | 208 8.134                              | _       | 4166    |                 | -2.49%                                 | 229        |
| 230            | To Pnl 2C1B                               | 229 | 3                                  | 4166                                   | M           | CU             | 1 Set(s) of | 4/0        | AWG        | 15082                |                     | 208   | 10      | 0.9        | 180            | 0.000063       | 0.000051     | 0.451027   |             |                     |            |                    | 0.023                                  | 0.98    | 4072    | -0.12%          | -2.61%                                 | 230        |
| 231            | }                                         |     | ξ                                  |                                        |             |                | 1 2 1/ ) 4  |            |            |                      |                     |       |         |            |                |                |              | 2 12 12 2  |             |                     |            |                    |                                        |         |         | /               |                                        | 231        |
| 232            | To Pnl 2H2B                               | 222 | $\frac{3}{2}$                      | 23993                                  | M           | CU             | 1 Set(s) of |            | AWG        | 4774                 |                     | 480   | 35      | 0.9        | 80             | 0.000250       | 0.000059     | 0.451027   |             |                     |            |                    | 0.635                                  |         | 14677   | -0.25%          | -2.62%                                 | 232        |
| 233            | To TX-2L2B                                | 222 | $\frac{2}{3}$                      | 23993                                  | M           | CU             | 1 Set(s) of | 2/0        | AWG        | 10755                |                     | 480   | 35      | 0.9        | 140            | 0.000100       | 0.000054     | 0.451027   |             |                     |            |                    | 0.282                                  | 0.78    | 18719   | -0.20%          | -2.57%                                 | 233        |
| 234            | X-2L2B                                    | 233 | $\begin{cases} 3 \\ - \end{cases}$ | 18719                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | DOE         | 150                 | 112.5      | 4.37               | 208 6.045                              | 0.14    | 6132    |                 | -2.57%                                 | 234        |
| 235            | To PnI 2L2B                               | 234 | 3                                  | 6132                                   | M           | CU             | 1 Set(s) of |            | kcmil      | 22965                |                     | 208   | 10      | 0.9        | 320            | 0.000025       | 0.000048     | 0.451027   |             |                     |            |                    | 0.022                                  | 0.98    | 5998    | -0.12%          | -2.68%                                 | 235        |
|                | To TX-2C2B                                | 222 | $\frac{3}{2}$                      | 23993                                  | M           | CU             | 1 Set(s) of | 4          | AWG        | 3806                 |                     | 480   | 35      | 0.9        | 56             | 0.000310       | 0.000060     | 0.451027   | 16.15       | 44-                 |            | 2.27               | 0.796                                  | 0.56    | 13358   | -0.22%          | -2.58%                                 | 236        |
| (I             | X-2C2B                                    | 236 | $\frac{3}{2}$                      | 13358                                  | ıx          | 6              | 4 6 44 5 5  |            | 11116      | 4=00=                |                     | 480   | 4-      |            | 400            | 0.00000        | 0.0000=:     | 0 1-1      | K-13        | 115                 | 45         | 2.67               | 208 6.589                              |         | 4062    | 0.1557          | -2.58%                                 | 237        |
| 238            | O PNI 202B                                | 237 | $\frac{3}{2}$                      | 4062                                   | M           | CU             | 1 Set(s) of |            |            | 15082                |                     | 208   | 10      | 0.9        | 180            | 0.000063       | 0.000051     | 0.451027   |             |                     |            |                    | 0.022                                  | _       | 3973    | -0.12%          | -2.70%                                 | 238        |
| 239            | To Pnl 2C2B<br>Elevator                   | 224 | 3                                  | 20310                                  | M           | CU             | 1 Set(s) of | 6          | AWG        | 2425                 |                     | 480   | 40      | 0.9        | 48             | 0.000490       | 0.000064     | 0.451027   |             |                     |            |                    | 1.209                                  | 0.45    | 9195    | -0.32%          | -2.77%                                 | 239<br>240 |
| 240            | PP-2H1C                                   | 202 | <b>)</b> ,                         | 60467                                  | M           | CII            | 3 Set(s) of | 600        | kcmil      | 22965                |                     | 480   | 345     | 0.9        | 900            | 0.000025       | 0.000048     | 0.451027   |             |                     |            |                    | 1.093                                  | 0.48    | 28802   | -1.62%          | -1.73%                                 | 241        |
| 241            | pi -2i110                                 | 202 | 5                                  | 00407                                  | IVI         | CU             | 3 3et(8) 01 | 000        | KUIIII     | 22900                |                     | 480   | 343     | 0.9        | 900            | 0.000025       | 0.000046     | 0.451027   |             |                     |            |                    | 1.093                                  | 0.40    | 28895   | -1.0270         | -1.13/0                                | 241        |
|                | To Pnl 2H1C                               | 241 | 3                                  | 28895                                  | М           | CU             | 1 Set(s) of | 3          | AWG        | 4774                 |                     | 480   | 10      | 0.9        | 80             | 0.000250       | 0.000059     | 0.451027   |             |                     |            |                    | 0.218                                  | 0.82    | 23716   | -0.07%          | -1.81%                                 | 243        |
| 244            | To TX-2L1C                                | 241 | 3                                  | 28895                                  | M           |                | 1 Set(s) of |            | AWG        | 7293                 |                     | 480   | 10      | 0.9        | 100            | 0.000160       | 0.000057     | 0.451027   |             |                     |            |                    | 0.143                                  |         | 25281   | -0.06%          | -1.79%                                 | 244        |
| 245            | TX-2L1C                                   | 244 | 3                                  | 25281                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                | -              |              |            | DOE         | 150                 | 75         | 3.61               | 208 10.110                             |         | 5248    |                 | -1.79%                                 | 245        |
| 246            | To Pnl 2L1C                               | 245 | 3                                  | 5248                                   | М           | CU             | 1 Set(s) of | 4/0        | AWG        | 15082                |                     | 208   | 10      | 0.9        | 180            | 0.000063       | 0.000051     | 0.451027   |             |                     |            |                    | 0.029                                  |         | 5100    | -0.12%          | -1.91%                                 | 246        |
| 247            | o TX-2C1C                                 | 241 | 3                                  | 28895                                  | М           | CU             | 1 Set(s) of | 4          | AWG        | 3806                 |                     | 480   | 20      | 0.9        | 56             | 0.000310       | 0.000060     | 0.451027   |             |                     |            |                    | 0.548                                  | 0.65    | 18667   | -0.12%          | -1.86%                                 | 247        |
| 248            | X-2C1C                                    | 247 | 3                                  | 18667                                  | TX          |                |             |            |            |                      |                     | 480   |         |            |                |                |              |            | K-13        | 115                 | 45         | 2.67               | 208 9.208                              | 0.10    | 4220    |                 | -1.86%                                 | 248        |
| 249            | X-2C1C<br>To Pnl 2C1C                     | 248 | 3                                  | 4220                                   | М           | CU             | 1 Set(s) of | 1/0        | AWG        | 8925                 |                     | 208   | 10      | 0.9        | 120            | 0.000120       | 0.000055     | 0.451027   |             |                     |            |                    | 0.039                                  | 0.96    | 4060    | -0.13%          | -1.99%                                 | 249        |
| 250            | )                                         |     | )                                  |                                        |             |                |             |            |            |                      |                     |       |         |            |                |                |              |            |             |                     |            |                    |                                        |         |         |                 |                                        | 250        |
| <b>Y</b> 251   | To Pnl 2H2C                               | 241 | <b>5</b> 3                         | 28895                                  | М           | CU             | 1 Set(s) of | 3          | AWG        | 4774                 |                     | 480   | 50      | 0.9        | 80             | 0.000250       | 0.000059     | 0.451027   |             |                     |            |                    | 1.092                                  | 0.48    | 13812   | -0.36%          | -2.10%                                 | 251        |
| 252            | To TX-2L2C                                | 241 | 3                                  | 28895                                  | М           | CU             | 1 Set(s) of | 2/0        | AWG        | 10755                |                     | 480   | 50      | 0.9        | 140            | 0.000100       | 0.000054     | 0.451027   |             |                     |            |                    | 0.485                                  | 0.67    | 19462   | -0.29%          | -2.02%                                 | 252        |
| U 253          | TX-2L2C                                   | 252 | 3                                  | 19462                                  | TX          |                |             |            | AWG        |                      |                     | 480   |         |            |                |                |              |            | DOF         | 150                 | 112.5      | 4 37               | 208 6.285                              | 0.14    | 6165    |                 | -2 02%                                 | 253        |

208 10 0.9

1 Set(s) of

3979 M CU 1 Set(s) of 1/0 AWG

28895 11527

600 kcmil

4 AWG

22965

320

8925 -- 208 10 0.9 120 0.000120 0.000055 0.451027

0.451027

0.000310

Value

Resistance

Factor (pf) (Amperage)

-- | 480 | 40 | 0.9 | 1500 | 0.000027 | 0.000039 | 0.451027

Reactance

(X)

Arccos (pf)

(Radians)

**RELEASE FOR** CONSTRUCTION

LEE'S SUMMIT, MISSOURI

ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.

REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS):

SERVICE EQUIPMENT LABEL:

PANELBOARD/SWITCHBOARD LABEL: \_" SUPPLIED BY UPSTREAM

LINE 1: TRANSFORMER "\_\_\_\_\_" SUPPLIED BY UPSTREAM LINE 2: PANELBOARD/SWITCHBOARD "\_\_\_\_\_" LINE 3: LOCATED IN "

UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNO. CONDUIT SIZES SHOWN ARE SERVICE OCCUPANCY TYPE: WAREHOUSE SERVICE DESCRIPTION: APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; 480Y/277 V ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO CONNECTED DEMAND | NEC DEMAND | SPECIFICATIONS FOR ADDITIONAL INFORMATION. LOAD FACTOR "A" PREFIX INDICATES ALUMINUM CONDUCTORS AND ARE BASED ON XHHW-2 INSULATION. 0 VA 100% "S" PREFIX INDICATES SERVICE ENTRANCE LATERALS. "T" PREFIX INDICATES TRANSFORMER SECONDARY. 0 VA 0 VA 0% "V" PREFIX INDICATES UPSIZED FOR VOLTAGE DROP. 100% 0 VA 0 VA PROVIDE LUG ADAPTERS AS REQURIED FOR EQUIPMENT TERMINATION. 176647 VA 125% 220809 VA LETTERED SUFFIX INDICATES ALTERNATE FEEDER CONFIGURATIONS. 21300 VA 73% 15650 VA "N" SUFFIX INDIATES 200% NEUTRAL CONDUCTORS 0 VA 100% FEEDER TAG FEEDER DESCRIPTION 0 VA 100% 0 VA (2) 2" C EMPTY CONDUITS 3030 VA 100% 3030 VA (3)#10, (1)#10 G, 1/2" C 63E (3)#4, (1)#4 G, 1-1/2" C 0 VA 100% 0 VA (3)#4, (1)#8 G, 1" C 2400 VA 125% 3000 VA (4)#3, (1)#8 G, 1-1/4" C (3)#1, (1)#6G, 1-1/2" C 1000 VA 100% 1000 VA 173 (3)#2/0, (1)#6 G, 1-1/2" C 0 VA 125% 0 VA (4)#3/0, (1)#6 G, 2" C 125% (4)-600 kcmil, (1)#3 G, 3-1/2" C 0 VA 0 VA (4) 3" C, EACH W/ (4)-350 kcmil, (1)#3/0 G 100% 0 VA 0 VA #2 COPPER GROUND, 3/4" C 204377 VA 243489 #4 COPPER GROUND, 3/4" C G6 #6 COPPER GROUND, 3/4" C AMPS 293 G10 #1/0 COPPER GROUND, 3/4" C AMPS #2/0 COPPER GROUND, 3/4" C G30 #3/0 COPPER GROUND, 1" C AMPS 307 MBJ #750 CU S604 (2) 3" C, EACH W/ (4)-350 kcmil S3004 (8) 3" C, EACH W/ (4)-500 kcmil S4004A (11) 4" C, EACH W/ (4)-500 kcmil T154 (4)#1/0, (1)#6 SSBJ, 1-1/2" C T154N (5)#1/0, (1)#6 SSBJ, 1-1/2" C T224 (4)#4/0, (1)#2 SSBJ, 2-1/2" C T404B (4)-600 kcmil, (1)#1/0 SSBJ, 4" C

FEEDER SCHEDULE:

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION.

480Y/277V, 3ø, 4W EVERGY UTILITY CONTACT: RON 1.6% Z MIN PHONE: (XXX) XXX-XXXX 41,949 FCA EMAIL: RON.DEJARNETTE@EVERGY.COM AVAILABLE FAULT CURRENT: 41,949A PER EVERGY TABLES | ERICKSON PMCT84-KCPL OR OTHER APPROVED BY UTILITY CONCESSIONS \_\_\_\_BLDG \_\_\_\_\_\_ PANELBOARD 600A 600A REFER TO PANEL SCHEDULE FOR ADDITIONAL LOADS TO BE SERVED FROM THIS PANELBOARD TO GROUND BAR AT MAIN TELEPHONE BOARD (TTB) TO STRUCTURAL STEEL 5 TO ABOVE GROUND METAL PIPING 5 480V, 3ø, 3W TO WATER SERVICE \$----TO BUILDING FOOTING (UFER) 5 TO GROUND ROD(S)

1 Set(s) of

1 Set(s) of

10 3 1696 NM CU

1 AWG

1 AWG

7493

1 ELECTRICAL ONE-LINE DIAGRAM - CONCESSIONS

13 To Pnl LC7

14 To Pnl LC8

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE): THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF **FAULT CURRENTS** ARE BASED ON UTILITY TRANSFORMER TABLES AND ESTIMATED TRANSFORMER SIZES. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUES EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:

SERVICE LOAD SUMMARY (H1S)

SERVICE SQUARE FOOTAGE: 1

LIGHTING (L) (PER NEC-220)

SUPPLEMENTAL HEAT (U)

LOAD TYPE

COOLING (C)

HEATING (H)

MOTORS (M)

MISC EQUIP (Z)

REFRIGERATION (F)

SIGN/DISPLAY (D)

LARGEST MOTOR

TRACK LIGHTING

TOTAL AMPACITY

SERVICE AMPACITY

SPARE CAPACITY

TOTAL LOAD

SHOW WINDOW (W)

KITCHEN (K)

EXISTING LOAD (E)

RECEPTACLES (R)

#### CONCESSIONS SERVICE

UTILITY TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 3Ø, 4W UTILITY TRANSFORMER SIZE: 500KVA, Z=1.6% FAULT VALUE: AS SHOWN IN UTILITY COORDINATION NOTE.

#### SCHOOL SERVICE #1 SWBD-N1

UTILITY TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 3Ø, 4W UTILITY TRANSFORMER SIZE: 2500KVA, Z=5.3% FAULT VALUE: AS SHOWN IN UTILITY COORDINATION NOTE.

#### SCHOOL SERVICE #2 SWBD-N2

UTILITY TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 3Ø, 4W UTILITY TRANSFORMER SIZE: 2500KVA, Z=5.3% FAULT VALUE: AS SHOWN IN UTILITY COORDINATION NOTE.

# **ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:**

- 1. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- 2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS, A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
- 3. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
- 4. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
- 5. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

## ONE-LINE DIAGRAM GENERAL NOTES:

TG30

. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.

#3/0 cu V064C (4)#2, (1)#4 G, 1-1/4" C V064G (4)#1, (1)#4 G, 1-1/2" C

- REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLES ON THIS SHEET AND E8.1C. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
- FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
- 4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE, AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE.
- INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND
- CIRCUIT BREAKERS RATED 1200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY PER CODE. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH OWNER ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
- 8. PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE;

EXAMPLE: 208Y/120V, 60HZ SCCR = 65,000AMAX AVAILABLE FAULT CURRENT = 58,815A CALCULATED: 01/01/2018

LINE 1: PANELBOARD " LINE 1: PANELBOARD \_\_\_\_ 3011 ELED 3. 3. LINE 2: PANELBOARD/SWITCHBOARD "\_\_\_\_" LINE 3: LOCATED IN " \_" SUPPLIES DOWNSTREAM

LINE 4: PANELBOARD " LINE 5: PANELBOARD(S) "\_\_\_\_ TRANSFORMERS LABEL:

LINE 4: TRANSFORMER "\_\_\_\_\_" SUPPLIES DOWNSTREAM LINE 5: PANELBOARD(S) "\_\_\_\_

0.318 0.76 1240 -0.68% -3.29%

0.330 0.75 1275 -0.68% -3.19% 14

**Short-Circuit and Voltage Drop Calculations** Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance The following calculations are based on the "Point-by-Point" method where: VOLTAGE DROP (3Ø):  $ISC(2) = ISC(1) \times M(1)$  $f(3\emptyset) = 1.732 \times L \times lsc$ XFMR:  $f(3\emptyset) = IP(sca)x Vp x 1.73 x \%Z$ IS(sca)= Vp x M x IP(sca) %VD= ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E ISC (1) = short circuit current at fault point 1 VOLTAGE DROP (1Ø): 100,000 x KVA  $C \times E$ ISC (2) = short circuit current at fault point 2 f (1Ø)= 2 x L x lsc  $\text{\%VD} = ((R \times cos(arccos(pf)) + X \times sin(arccos(pf))) \times 2 \times L/\# \times I) / E$ f (1Ø)= <u>IP(sca)x Vp\_x %Z</u>  $C \times E$ 100,000 x KVA IP = Primary short circuit current Vp = Primary voltage %VD CUM= Cumulative Voltage Drop from Fault Point 1 to Fault Point # IS= Secondary short circuit current Vs= Secondary voltage R= resistance in ohms per LF L = Length of circuit E = Line to line volts X= reactances in ohms per LF C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer Cumulative Fault Voltage Voltage Drop (%VD) (%VD) (F#) Source Isc Material Quantity of Parallel Sets and Bus/ Phase f M Current Type Degree kVA New Xfmr Existing Secondary Tap
Xfmr Z Voltage Setting Point (Fault Phase (amps) Conduit Type/ TX Bus/Feeder Description (F#) & Neutral Size (R) (X) (Radians) | Voltage | Setting | 1 Utility Service Point Source Isc + 6X Motor Contribution = 41949 41,949 at the secondary of the utility transformer The connected full load motor amps (includes compressors) on the system 2 To H1S 1 3 41949 NM CU 2 Set(s) of 300 kcmil 20868 480 100 0.9 480 0.000044 0.000041 0.451027 0.363 | 0.73 | 30784 | -0.50% | -0.50% 4 3 26715 5 TX-L1S DOE 10.690 0.09 5274 -0.56% 6 To Pnl L1S 5274 M 0.000051 | 0.451027 0.029 | 0.97 | 5124 | -0.12% | -0.68% | 6 Set(s) of 0.000063 7 To Pnl LC1 6 3 5124 NM Set(s) of 2 AWG 6044 208 215 0.9 0.000190 0.000045 0.451027 1.518 0.40 2035 -1.37% -2.04% 8 To Pnl LC2 6 3 5124 NM Set(s) of 1.977 0.34 1721 -1.78% -2.45% 8 0.9 9 To Pnl LC3 6 3 5124 NM 1 AWG 2.136 0.32 1634 -1.94% -2.61% 9 Set(s) of 375 0.9 10 To Pnl LC4 6 3 5124 NM 2.022 0.33 1696 -1.83% -2.51% 10 Set(s) of 0.9 7 3 2035 NM 8 3 1721 NM 208 125 0.9 0.350 0.74 1507 -0.60% -2.64% 11 To Pnl LC5 Set(s) of 12 To Pnl LC6 1 AWG 0.9 0.000150 0.000046 0.451027 0.383 0.72 1245 -0.77% -3.23% Set(s) of 9 3 1634 NM

0.000150

0.000046 0.451027

0.000150 0.000046 0.451027

208 175 0.9

208 175 0.9

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS

13-20102-00 ELECTRICAL ONE-LINE DIAGRAM