

# DISCOVERY PARK - LOT #10-A

## LEE'S SUMMIT, MO

PRINTS ISSUED  
12/20/2024 - CITY SUBMISSION  
REVISIONS:  
1 01/17/25 ADDENDUM #1

### PROJECT CERTIFICATION

I, **David E. Hendrikse**, hereby specify pursuant to the governing requirements of the state, that the documents intended to be authenticated by my seal are limited to:

|         |       |        |       |       |       |       |
|---------|-------|--------|-------|-------|-------|-------|
| G-001   | G-201 | G-213  | A-105 | A-303 | A-406 | A-506 |
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| G-003   | G-204 | G-300  | A-120 | A-306 | A-409 | A-600 |
| G-004   | G-205 | G-301  | A-125 | A-307 | A-410 | A-601 |
| G-005   | G-206 | G-302  | A-200 | A-308 | A-415 | A-602 |
| G-006   | G-207 | G-303  | A-201 | A-400 | A-500 | A-603 |
| G-007   | G-208 | AS-100 | A-202 | A-401 | A-501 | A-700 |
| G-100   | A-101 | A-203  | A-402 | A-502 |       | A-710 |
| G-101   | G-210 | A-102  | A-300 | A-403 | A-503 |       |
| G-102   | G-211 | A-103  | A-301 | A-404 | A-504 |       |
| G-200   | G-212 | A-104  | A-302 | A-405 | A-505 |       |

and I hereby disclaim any responsibility for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

SEAL



David E. Hendrikse, AIA

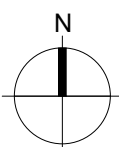
### REGIONAL MAP



### VICINITY MAP



**DISCOVERY PARK - LOT #10-A**  
**100 NE ALURA WAY**  
**LEE'S SUMMIT, MISSOURI 64064**



### SHEET INDEX

#### GENERAL

| Sheet Issue Date | Sheet Number | Sheet Name                           | Rev. | Current Revision Date |
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CIVIL UNDER SEPARATE REVIEW, REFERENCE FDP

#### ARCHITECTURAL

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#### STRUCTURAL

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|                                                          |       |            |   |                |
|----------------------------------------------------------|-------|------------|---|----------------|
| 10 / 10 / 2020                                           | A-000 | SHEET NAME | - | 10 / 10 / 2020 |
| SHEET INDEX LEGEND                                       |       |            |   |                |
| SOLID FILL INDICATES INCLUSION IN ISSUE SHEET ISSUE DATE |       |            |   |                |
| SHEET NUMBER AND NAME                                    |       |            |   |                |
| CURRENT REVISION NUMBER & REVISION DATE ON SHEET         |       |            |   |                |

### PROJECT DATA

#### PROJECT DESIGN INFORMATION

##### NEW CONSTRUCTION:

|         |                                                                                                                                                                                                                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZONING: | PMIX - PLANNED MIXED USE DISTRICT                                                                                                                                                                                                                                                                     |
| CODE:   | 2018 INTERNATIONAL BUILDING CODE<br>2018 INTERNATIONAL PLUMBING CODE<br>2018 INTERNATIONAL MECHANICAL CODE<br>2018 INTERNATIONAL FUEL GAS CODE<br>2018 INTERNATIONAL FIRE CODE<br>2017 NATIONAL ELECTRIC CODE<br>2009 ACCESSIBILITY CODE ICC/ANSI 117-1<br>LEE'S SUMMIT AMENDMENTS TO THE ENERGY CODE |

|                  |                                                                    |
|------------------|--------------------------------------------------------------------|
| OCCUPANCY GROUP: | R-2, APARTMENTS<br>A-2, UNCONCENTRATED<br>S-2, OPEN PARKING GARAGE |
|------------------|--------------------------------------------------------------------|

|                       |                                     |
|-----------------------|-------------------------------------|
| TYPE OF CONSTRUCTION: | R-2 & A-2, TYPE VA<br>S-2, TYPE IIA |
|-----------------------|-------------------------------------|

|                      |                                                                                                                                         |                              |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| ENERGY CONSERVATION: | WALLS AS PART OF BLDG ENVELOPE<br>FLOORS AS PART OF BLDG ENVELOPE<br>ROOFS AS PART OF BLDG ENVELOPE<br>CEILING AS PART OF BLDG ENVELOPE | R-13<br>R-19<br>R-19<br>R-30 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|

##### BUILDING SUMMARY:

|         |                     |
|---------|---------------------|
| NUMBER: | (1) TOTAL BUILDINGS |
| HEIGHT: | 3 STORIES, 46'-0"   |

|                  |             |             |
|------------------|-------------|-------------|
| SQUARE FOOTAGES: | GROSS       | NET         |
| FIRST FLOOR      | 22,989 S.F. | 22,490 S.F. |
| SECOND FLOOR     | 18,347 S.F. | 17,973 S.F. |
| THIRD FLOOR      | 18,347 S.F. | 17,973 S.F. |

##### UNIT SUMMARY: OVERALL UNIT TOTAL = (40) UNITS

|                              |                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE "A" UNITS (2% OF TOTAL) | (1) UNITS - ABERDEEN "A"                                                                                                                                                       |
| HIVI UNITS (2% OF TOTAL)     | (1) UNITS - ADRIAN "HIVI"                                                                                                                                                      |
| STANDARD UNITS               | (3) UNITS - ABERDEEN<br>(17) UNITS - ADRIAN<br>(2) UNITS - CONWAY I<br>(2) UNITS - CONWAY II<br>(2) UNITS - DRAKE<br>(2) UNITS - LANA<br>(8) UNITS - BROWNSTONES<br>(40) UNITS |

|                 |            |            |
|-----------------|------------|------------|
| TOTAL UNITS     | GROSS      | NET        |
| SQUARE FOOTAGE: | 1,338 S.F. | 1,269 S.F. |
| ABERDEEN "A"    | 1,338 S.F. | 1,269 S.F. |
| ADRIAN          | 832 S.F.   | 781 S.F.   |
| ADRIAN - LRG    | 1,078 S.F. | 1,021 S.F. |
| CONWAY          | 843 S.F.   | 786 S.F.   |
| CONWAY II       | 1,024 S.F. | 962 S.F.   |
| DRAKE           | 903 S.F.   | 821 S.F.   |
| LANA            | 1,082 S.F. | 1,020 S.F. |
| BROWNSTONE 1ST  | 605 S.F.   | 549 S.F.   |
| BROWNSTONE 2ND  | 619 S.F.   | 563 S.F.   |

SEE CIVIL FOR SITE SUMMARY

##### NOTE: SQUARE FOOTAGE

**-GROSS - COMMON SPACE CALCULATION:** OUTSIDE PERIMETER OF STUD (ENTIRE BUILDING) LESS THE TOTAL OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR.  
**-GROSS - UNIT CALCULATION:** CENTERLINE OF PARTY WALL TO OUTSIDE OF EXTERIOR STUD WALL AND/OR OUTSIDE OF CORRIDOR STUD WALL.  
**-NET -** PAINT-TO-PAINT AT PERIMETER, TAKEN FROM INSIDE OF DEMISING, EXTERIOR, AND CORRIDOR WALLS.

### PROJECT TEAM

#### OWNER

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| INTRINSIC DEVELOPMENT | 3622 ENDEAVOR AVE. STE. 101<br>COLUMBIA, MO 65201 |
| CONTACT:              | BRIAN MAENNER                                     |
| EMAIL:                | bmaenner@intrinsicdevelopment.com                 |
| PHONE:                | 573.881.0280                                      |

#### ARCHITECT

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| ROSEMANN & ASSOCIATES, P.C. | 1526 Grand Boulevard<br>Kansas City, MO 64108 |
| CONTACT:                    | A.J. DOLPH                                    |
| EMAIL:                      | ajdolph@rosemann.com                          |
| PHONE:                      | 816.472.1448                                  |

#### CONTRACTOR

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| INTRINSIC DEVELOPMENT | 3622 ENDEAVOR AVE. STE. 101<br>COLUMBIA, MO 65201 |
| CONTACT:              | BRIAN MAENNER                                     |
| EMAIL:                | bmaenner@intrinsicdevelopment.com                 |
| PHONE:                | 573.881.0280                                      |

#### STRUCTURAL ENGINEER

|          |                                               |
|----------|-----------------------------------------------|
| MCCLURE  | 1901 PENNSYLVANIA DRIVE<br>COLUMBIA, MO 65202 |
| CONTACT: | CELESTE SPICKERT                              |
| EMAIL:   | cspickert@mcclurevision.com                   |
| PHONE:   | 573.234.2609                                  |

#### MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| J-SQUARED ENGINEERING | 2400 BLUFF CREEK DRIVE, SUITE 101<br>COLUMBIA, MO 65201 |
| CONTACT:              | ANDREW WHITE                                            |
| EMAIL:                | andrew@j-squaredeng.com                                 |
| PHONE:                | 573.234.4492                                            |

#### CIVIL ENGINEER

|          |                                                   |
|----------|---------------------------------------------------|
| OWN      | 8455 COLLEGE BOULEVARD<br>OVERLAND PARK, KS 66210 |
| CONTACT: | JEFF BARTZ                                        |
| EMAIL:   | jbartz@weareown.com                               |
| PHONE:   | 816.777.0400                                      |

#### LANDSCAPE ARCHITECT

|          |                                                   |
|----------|---------------------------------------------------|
| OWN      | 8455 COLLEGE BOULEVARD<br>OVERLAND PARK, KS 66210 |
| CONTACT: | JEFF BARTZ                                        |
| EMAIL:   | jbartz@weareown.com                               |
| PHONE:   | 816.777.0400                                      |

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INTERIOR DESIGN  
ENGINEERING  
PLANNING

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DENVER ▲ KANSAS CITY ▲ ST. LOUIS ▲ ATLANTA

DISCOVERY PARK - LOT #10-A

100 NE ALURA WAY  
LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE  
TITLE SHEET

PROJECT NUMBER: 24004

SHEET NUMBER:

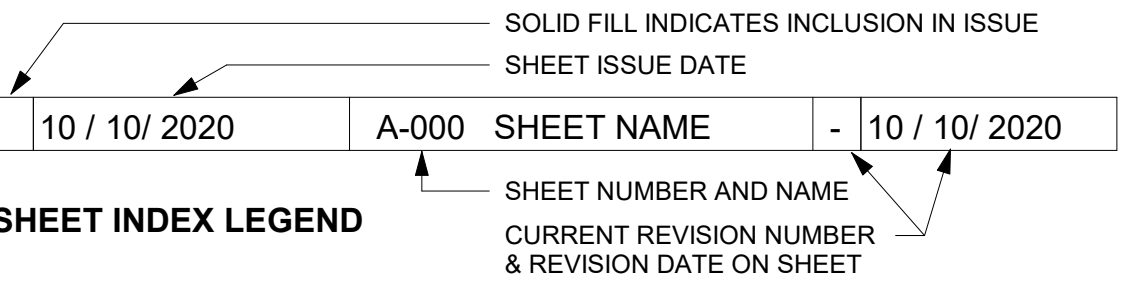
G-001

| MECHANICAL       |              |                                            |      |                       |
|------------------|--------------|--------------------------------------------|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name                                 | Rev. | Current Revision Date |
| 12/20/24         | MEP1         | MECHANICAL ELECTRICAL PLUMBING COVER SHEET |      |                       |
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| 12/20/24         | M102         | HVAC PLAN - 2ND FLOOR - AREA A             |      |                       |
| 12/20/24         | M103         | HVAC PLAN - 3RD FLOOR - AREA A             |      |                       |
| 12/20/24         | M111         | HVAC PLAN - 1ST FLOOR - AREA B             |      |                       |
| 12/20/24         | M112         | HVAC PLAN - 2ND FLOOR - AREA B             |      |                       |
| 12/20/24         | M113         | HVAC PLAN - 3RD FLOOR - AREA B             |      |                       |
| 12/20/24         | M501         | HVAC DETAILS & SCHEDULES                   |      |                       |
| 12/20/24         | M601         | HVAC SCHEDULES                             |      |                       |

| ELECTRICAL       |              |                                           |      |                       |
|------------------|--------------|-------------------------------------------|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name                                | Rev. | Current Revision Date |
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| 12/20/24         | EP102        | POWER PLAN - 2ND FLOOR - AREA A           |      |                       |
| 12/20/24         | EP103        | POWER PLAN - 3RD FLOOR - AREA A           |      |                       |
| 12/20/24         | EP111        | POWER PLAN - 1ST FLOOR - AREA B           |      |                       |
| 12/20/24         | EP112        | POWER PLAN - 2ND FLOOR - AREA B           |      |                       |
| 12/20/24         | EP113        | POWER PLAN - 3RD FLOOR - AREA B           |      |                       |
| 12/20/24         | EL101        | LIGHTING PLAN - 1ST FLOOR - AREA A        | 1    | 01/17/25              |
| 12/20/24         | EL102        | LIGHTING PLAN - 2ND FLOOR - AREA A        |      |                       |
| 12/20/24         | EL103        | LIGHTING PLAN - 3RD FLOOR - AREA A        |      |                       |
| 12/20/24         | EL111        | LIGHTING PLAN - 1ST FLOOR - AREA B        |      |                       |
| 12/20/24         | EL112        | LIGHTING PLAN - 2ND FLOOR - AREA B        |      |                       |
| 12/20/24         | EL113        | LIGHTING PLAN - 3RD FLOOR - AREA B        |      |                       |
| 12/20/24         | EL201        | EXTERIOR BUILDING MOUNTED LIGHTING PLAN   |      |                       |
| 12/20/24         | E501         | ELECTRICAL DETAILS & SCHEDULES            |      |                       |
| 12/20/24         | E601         | ELECTRICAL SCHEDULES                      | 1    | 01/17/25              |
| 12/20/24         | FP101        | FIRE PROTECTION PLAN - 1ST FLOOR - AREA A |      |                       |
| 12/20/24         | FP102        | FIRE PROTECTION PLAN - 2ND FLOOR - AREA A |      |                       |
| 12/20/24         | FP103        | FIRE PROTECTION PLAN - 3RD FLOOR - AREA A |      |                       |
| 12/20/24         | FP111        | FIRE PROTECTION PLAN - 1ST FLOOR - AREA B |      |                       |
| 12/20/24         | FP112        | FIRE PROTECTION PLAN - 2ND FLOOR - AREA B |      |                       |
| 12/20/24         | FP113        | FIRE PROTECTION PLAN - 3RD FLOOR - AREA B |      |                       |

| PLUMBING         |              |                                          |      |                       |
|------------------|--------------|------------------------------------------|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name                               | Rev. | Current Revision Date |
| 12/20/24         | PS101        | SANITARY SEWER PLAN - 1ST FLOOR - AREA A | 1    | 01/17/25              |
| 12/20/24         | PS102        | SANITARY SEWER PLAN - 2ND FLOOR - AREA A |      |                       |
| 12/20/24         | PS103        | SANITARY SEWER PLAN - 3RD FLOOR - AREA A |      |                       |
| 12/20/24         | PS111        | SANITARY SEWER PLAN - 1ST FLOOR - AREA B |      |                       |
| 12/20/24         | PS112        | SANITARY SEWER PLAN - 2ND FLOOR - AREA B |      |                       |
| 12/20/24         | PS113        | SANITARY SEWER PLAN - 3RD FLOOR - AREA B |      |                       |
| 12/20/24         | PW101        | WATER& GAS PLAN - 1ST FLOOR - AREA A     |      |                       |
| 12/20/24         | PW102        | WATER& GAS PLAN - 2ND FLOOR - AREA A     |      |                       |
| 12/20/24         | PW103        | WATER& GAS PLAN - 3RD FLOOR - AREA A     |      |                       |
| 12/20/24         | PW111        | WATER& GAS PLAN - 1ST FLOOR - AREA B     |      |                       |
| 12/20/24         | PW112        | WATER& GAS PLAN - 2ND FLOOR - AREA B     |      |                       |
| 12/20/24         | PW113        | WATER& GAS PLAN - 3RD FLOOR - AREA B     |      |                       |
| 12/20/24         | P501         | PLUMBING DETAILS & SCHEDULES             |      |                       |

| UMEP             |              |                                              |      |                       |
|------------------|--------------|----------------------------------------------|------|-----------------------|
| Sheet Issue Date | Sheet Number | Sheet Name                                   | Rev. | Current Revision Date |
| 12/20/24         | UMEP1.1      | MEP PLAN - UNIT TYPE ADRIAN-A                |      |                       |
| 12/20/24         | UMEP1.2      | MEP PLAN - UNIT TYPE ADRIAN-B                |      |                       |
| 12/20/24         | UMEP1.3      | MEP PLAN - UNIT TYPE CONWAY-A                |      |                       |
| 12/20/24         | UMEP1.4.1    | HVAC & PLUMBING PLAN - UNIT TYPE CONWAY-B    |      |                       |
| 12/20/24         | UMEP1.4.2    | POWER & LIGHTING PLAN - UNIT TYPE CONWAY-B   |      |                       |
| 12/20/24         | UMEP1.5.1    | HVAC & PLUMBING PLAN - UNIT TYPE DRAKE       |      |                       |
| 12/20/24         | UMEP1.5.2    | POWER & LIGHTING PLAN - UNIT TYPE DRAKE      |      |                       |
| 12/20/24         | UMEP2.1.1    | HVAC & PLUMBING PLAN - UNIT TYPE LANA        |      |                       |
| 12/20/24         | UMEP2.1.2    | POWER & LIGHTING PLAN - UNIT TYPE LANA       |      |                       |
| 12/20/24         | UMEP2.2.1    | HVAC & PLUMBING PLAN - UNIT TYPE ABERDEEN-A  |      |                       |
| 12/20/24         | UMEP2.2.2    | POWER & LIGHTING PLAN - UNIT TYPE ABERDEEN-A |      |                       |
| 12/20/24         | UMEP2.3.1    | HVAC & PLUMBING PLAN - UNIT TYPE ABERDEEN-B  |      |                       |
| 12/20/24         | UMEP2.3.2    | POWER & LIGHTING PLAN - UNIT TYPE ABERDEEN-B |      |                       |
| 12/20/24         | UMEP2.4.1    | HVAC & PLUMBING PLAN - UNIT TYPE BROWNSTONE  |      |                       |
| 12/20/24         | UMEP2.4.2    | POWER & LIGHTING PLAN - UNIT TYPE BROWNSTONE | 1    | 01/17/25              |

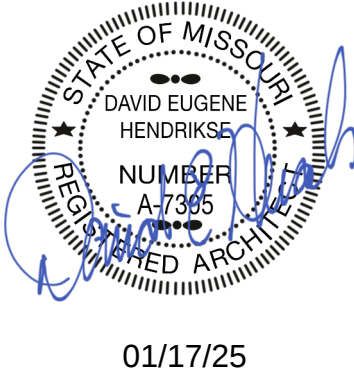


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ARCHITECTURE  
INTERIOR DESIGN  
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PLANNING

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DISCOVERY PARK - LOT #10-A

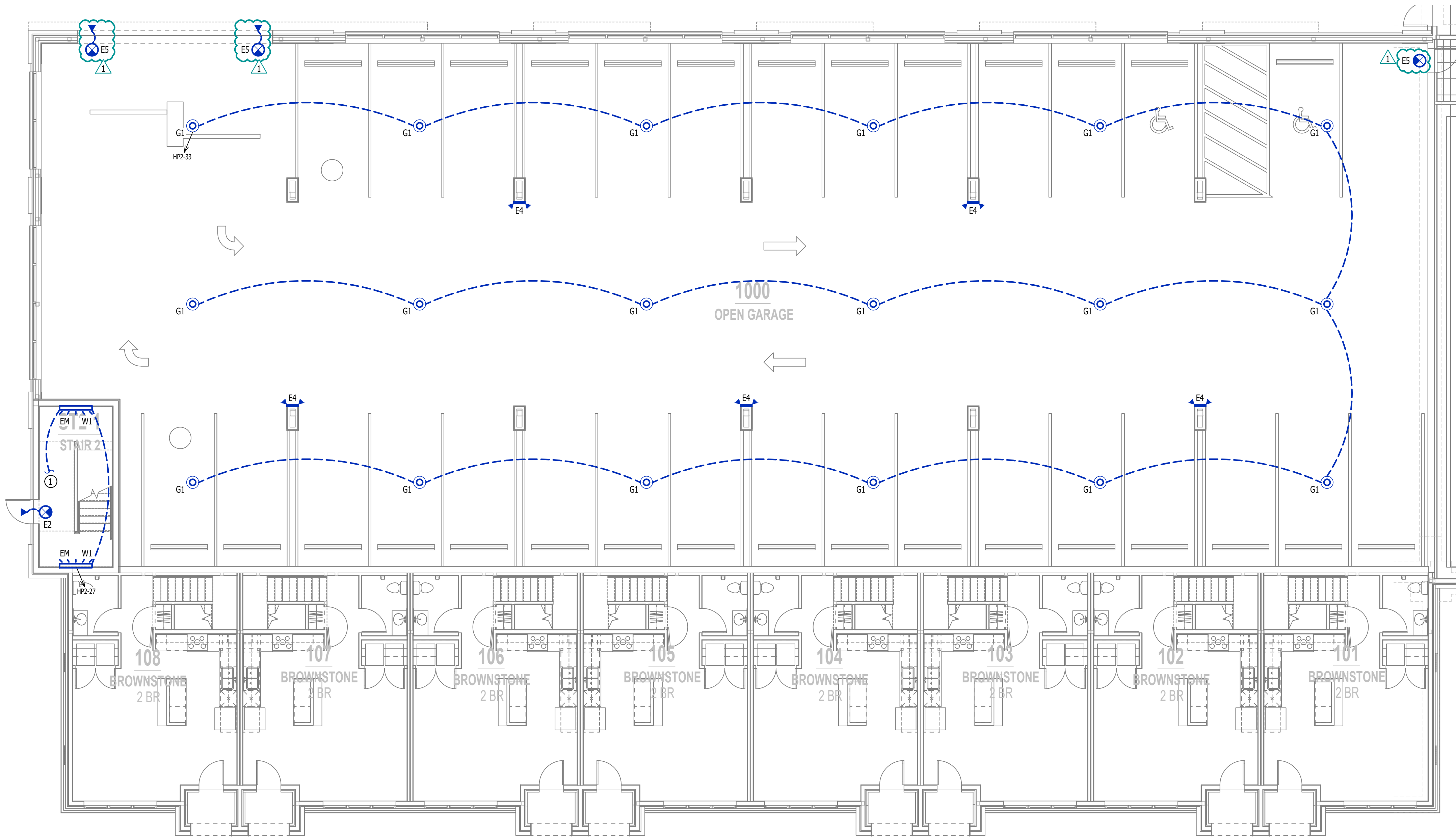
LEE'S SUMMIT, MO

SHEET TITLE  
SHEET INDEX (CONT.)

PROJECT NUMBER: 24004

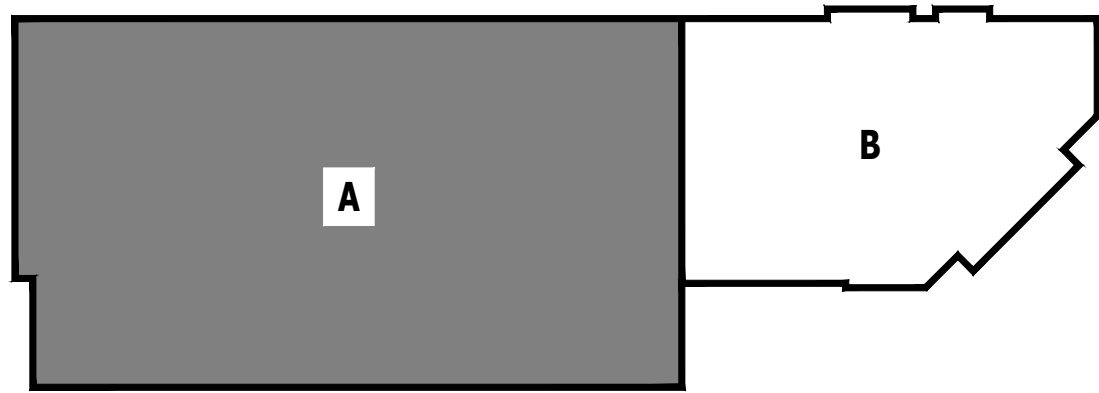
SHEET NUMBER:

G-001.1



LIGHTING PLAN - 1ST FLOOR - AREA A

SCALE: 1/8" = 1'-0"



KEY PLAN

SCALE: NTS

LIGHTING PLAN GENERAL NOTES:

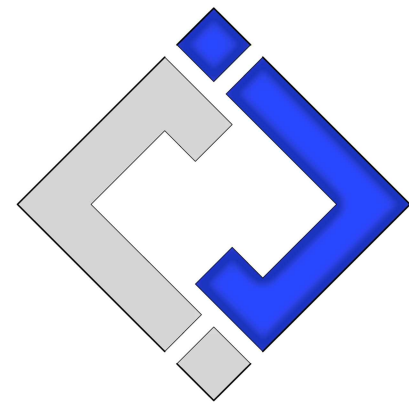
- SEE "UMEP" SHEETS FOR WORK INSIDE INDIVIDUAL UNITS.
- REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL LIGHTING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES. SEE SHEET EL201 FOR ALL EXTERIOR BUILDING MOUNTED LIGHTING LOCATIONS AND DETAILS.
- OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.

LIGHTING PLAN KEY NOTES:

- ① CIRCUIT CONTINUES TO LEVEL ABOVE.

LIGHTING PLAN SYMBOL LEGEND

- X1 → "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- → LIGHTING FIXTURE
- EM → "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL → "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
- 3 = 3-WAY
  - 4 = 4-WAY



J-SQUARED  
ENGINEERING

2400 Bluff Creek Drive, Suite 101  
Columbia, Missouri 65201  
573.234.4492  
www.j-squaredeng.com

J2 PROJECT No: J221013

J2 DESIGN: ACW

ISSUE TITLE DATE

CITY SUBMITTAL 12 - 20 - 2024

ADDENDUM #1 01 - 17 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:  
**The Village at Discovery - Lot 10A**

100 Northeast Alura Way  
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

LIGHTING PLAN - 1ST  
FLOOR - AREA A

SHEET NUMBER

EL101

| HOUSE PANEL 'HP1' SCHEDULE                                                                                                                                                                                                                        |                      |              |      |          |      |              |                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|------|----------|------|--------------|--------------------------------------------------------------------|
| VOLTAGE                                                                                                                                                                                                                                           |                      | PANEL SIZE   |      | MOUNTING |      | AIC RATING   |                                                                    |
| 208Y/120V 3-PH                                                                                                                                                                                                                                    |                      | 225A MLO     |      | SURFACE  |      | 22,000       | PHASE "A" LOAD 175.5<br>PHASE "B" LOAD 171<br>PHASE "C" LOAD 164.5 |
| NEMA RATING: 1                                                                                                                                                                                                                                    |                      |              |      |          |      |              |                                                                    |
| CIRCUIT NUMBER                                                                                                                                                                                                                                    | DESCRIPTION          | BREAKER SIZE | AMPS | PHASE    | AMPS | BREAKER SIZE | DESCRIPTION                                                        |
| 1                                                                                                                                                                                                                                                 | EXTERIOR RECEPTS.    | 20-1         | 7.5  | A        | 42   | 60-3         | ELEVATOR                                                           |
| 3                                                                                                                                                                                                                                                 | GARAGE RECEPTS.      | 20-1         | 6    | B        | 42   | -            | -                                                                  |
| 5                                                                                                                                                                                                                                                 | RISER ROOM RECEPTS.  | 20-1         | 3    | C        | 42   | -            | -                                                                  |
| 7                                                                                                                                                                                                                                                 | FACP                 | 20-1         | 3    | A        |      | ST           | SHUNT TRIP SPACE                                                   |
| 9                                                                                                                                                                                                                                                 | SPARE                | 20-1         |      | B        | 5    | 20-1 ST      | ELEVATOR LIGHTS & MISC.                                            |
| 11                                                                                                                                                                                                                                                | ELEVATOR PIT RECEPT. | 20-1         | 1.5  | C        |      | ST           | SHUNT TRIP SPACE                                                   |
| 13                                                                                                                                                                                                                                                | SUMP PUMP RECEPT.    | 20-1         | 5    | A        |      |              | OPEN                                                               |
| 15                                                                                                                                                                                                                                                | SPARE                | 20-1         |      | B        | 14   | 20-2         | WALL HEATER                                                        |
| 17                                                                                                                                                                                                                                                | SPARE                | 20-1         |      | C        | 14   | -            | -                                                                  |
| 19                                                                                                                                                                                                                                                | PLENUM HEATER        | 20-3         | 15   | A        | 14   | 20-2         | WALL HEATER                                                        |
| 21                                                                                                                                                                                                                                                | -                    | -            | 15   | B        | 14   | -            | -                                                                  |
| 23                                                                                                                                                                                                                                                | -                    | -            | 15   | C        | 14   | 20-2         | WALL HEATER                                                        |
| 25                                                                                                                                                                                                                                                | PLENUM HEATER        | 20-3         | 15   | A        | 14   | -            | -                                                                  |
| 27                                                                                                                                                                                                                                                | -                    | -            | 15   | B        |      |              | OPEN                                                               |
| 29                                                                                                                                                                                                                                                | -                    | -            | 15   | C        |      |              | OPEN                                                               |
| 31                                                                                                                                                                                                                                                | PLENUM HEATER        | 20-3         | 15   | A        | 15   | 20-3         | PLENUM HEATER                                                      |
| 33                                                                                                                                                                                                                                                | -                    | -            | 15   | B        | 15   | -            | -                                                                  |
| 35                                                                                                                                                                                                                                                | -                    | -            | 15   | C        | 15   | -            | -                                                                  |
| 37                                                                                                                                                                                                                                                | PLENUM HEATER        | 20-3         | 15   | A        | 15   | 20-3         | PLENUM HEATER                                                      |
| 39                                                                                                                                                                                                                                                | -                    | -            | 15   | B        | 15   | -            | -                                                                  |
| 41                                                                                                                                                                                                                                                | -                    | -            | 15   | C        | 15   | -            | -                                                                  |
| NOTES:<br>A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"<br>B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.<br>C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. |                      |              |      |          |      |              |                                                                    |

| HOUSE PANEL 'HP2' SCHEDULE                                                                                                                                                                                                                        |                             |              |      |          |      |              |                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|------|----------|------|--------------|----------------------------------------------------------------|
| VOLTAGE                                                                                                                                                                                                                                           |                             | PANEL SIZE   |      | MOUNTING |      | AIC RATING   |                                                                |
| 208Y/120V 3-PH                                                                                                                                                                                                                                    |                             | 225A MLO     |      | SURFACE  |      | 22,000       | PHASE "A" LOAD 146<br>PHASE "B" LOAD 152<br>PHASE "C" LOAD 137 |
| NEMA RATING: 1                                                                                                                                                                                                                                    |                             |              |      |          |      |              |                                                                |
| CIRCUIT NUMBER                                                                                                                                                                                                                                    | DESCRIPTION                 | BREAKER SIZE | AMPS | PHASE    | AMPS | BREAKER SIZE | DESCRIPTION                                                    |
| 1                                                                                                                                                                                                                                                 | 2ND FLOOR CORRIDOR RECEPTS. | 20-1         | 7.5  | A        | 35   | 45-2         | AHU-4                                                          |
| 3                                                                                                                                                                                                                                                 | MAG HOLDS                   | 20-1         | 5    | B        | 35   | -            | -                                                              |
| 5                                                                                                                                                                                                                                                 | MAG HOLDS                   | 20-1         | 5    | C        | 12   | 20-2         | CU-4                                                           |
| 7                                                                                                                                                                                                                                                 | 2ND FLOOR I.T. QUAD         | 20-1         | 3    | A        | 12   | -            | -                                                              |
| 9                                                                                                                                                                                                                                                 | 2ND FLOOR I.T. QUAD         | 20-1         | 3    | B        | 41   | 60-2         | AHU-5                                                          |
| 11                                                                                                                                                                                                                                                | 2ND FLOOR CORRIDOR RECEPTS. | 20-1         | 6    | C        | 41   | -            | -                                                              |
| 13                                                                                                                                                                                                                                                | 3RD FLOOR CORRIDOR RECEPTS. | 20-1         | 7.5  | A        | 18   | 25-2         | AHU-5                                                          |
| 15                                                                                                                                                                                                                                                | 3RD FLOOR CORRIDOR RECEPTS. | 20-1         | 6    | B        | 18   | -            | -                                                              |
| 17                                                                                                                                                                                                                                                | 3RD FLOOR CLOSET RECEPTS.   | 20-1         | 4.5  | C        | 24   | 40-2         | CU-5                                                           |
| 19                                                                                                                                                                                                                                                | ROOF RECEPTS                | 20-1         | 6    | A        | 24   | -            | -                                                              |
| 21                                                                                                                                                                                                                                                | LIGHTING CONTROL PANEL      | 20-1         | 1    | B        | 24   | 40-2         | CU-5                                                           |
| 23                                                                                                                                                                                                                                                | EXTERIOR BUILDING LIGHTING  | 20-1         | 10   | C        | 24   | -            | -                                                              |
| 25                                                                                                                                                                                                                                                | LOBBY LIGHTING              | 20-1         | 4    | A        | 18   | 25-2         | AHU-5                                                          |
| 27                                                                                                                                                                                                                                                | STAIRTOWER LIGHTING         | 20-1         | 4    | B        | 18   | -            | -                                                              |
| 29                                                                                                                                                                                                                                                | SECOND LEVEL LIGHTING       | 20-1         | 5    | C        | 41   | 60-2         | AHU-5                                                          |
| 31                                                                                                                                                                                                                                                | THIRD LEVEL LIGHTING        | 20-1         | 5    | A        | 41   | -            | -                                                              |
| 33                                                                                                                                                                                                                                                | GARAGE LIGHTING             | 20-1         | 9    | B        | 11   | 20-2         | FCU-1 / HP-1                                                   |
| 35                                                                                                                                                                                                                                                | ELEVATOR RECEPT.            | 20-1         | 1.5  | C        | 11   | -            | -                                                              |
| 37                                                                                                                                                                                                                                                | POLE LIGHTS                 | 20-2         | 1    | A        |      |              | OPEN                                                           |
| 39                                                                                                                                                                                                                                                | -                           | -            | 1    | B        |      |              | OPEN                                                           |
| 41                                                                                                                                                                                                                                                | SPARE                       | 20-1         |      | C        |      |              | OPEN                                                           |
| NOTES:<br>A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"<br>B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.<br>C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. |                             |              |      |          |      |              |                                                                |

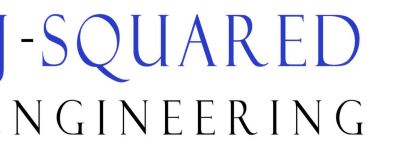
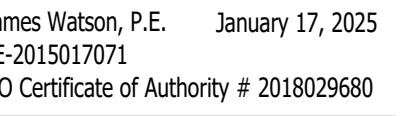
| LIGHT FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |                                   |                                               |                    |              |          |     |       |       |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------|-----------------------------------------------|--------------------|--------------|----------|-----|-------|-------|------------------------------------------------------------------------------------|
| TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MANUFACTURER (OR EQUAL) | MODEL NUMBER (OR EQUAL)           | DESCRIPTION                                   | MOUNTING           | LUMEN OUTPUT | CCT (*K) | CRI | VOLTS | WATTS | NOTES                                                                              |
| C1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HALO                    | HL59129301EWH                     | 9" LED SURFACE CAN                            | SURFACE / CEILING  | 1,200        | 3000     | 90  | 120   | 18    |                                                                                    |
| C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HALO                    | SLD612951EMW                      | 6" LED SURFACE CAN                            | SURFACE / CANOPY   | 1,200        | 4000     | 90  | 120   | 16    | WITH PAINTABLE TRIM - PAINT TO MATCH UNDERSIDE OF CANOPY                           |
| E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SURE LITES              | APC7R                             | INTERIOR EXIT LIGHT WITH HEADS                | WALL / CEILING     | -            | -        | -   | 120   | 1     | WITH RED LETTERS                                                                   |
| E2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SURE LITES              | APCH7R WITH APWR1                 | INTERIOR EXIT LIGHT WITH EXTERIOR REMOTE HEAD | CEILING            | -            | -        | -   | 120   | 1     | WITH RED LETTERS                                                                   |
| E3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SURE LITES              | SEL50                             | EMERGENCY EGRESS LIGHT                        | INTERIOR WALL      | -            | -        | -   | 120   | 1     |                                                                                    |
| E4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SURE LITES              | SEL D W 60 SD                     | EXTERIOR EMERGENCY EGRESS LIGHT               | WALL               | -            | -        | -   | 120   | 5     |                                                                                    |
| E5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RP LIGHTING             | RXEL25                            | EXTERIOR EXIT LIGHT WITH RMT HD               | SURFACE / CEILING  | -            | -        | -   | 120   | 1     | WITH #RH19 REMOTE HEAD WHERE SHOWN ON PLANS                                        |
| F1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MONTTE CARLO            | 5HV52BS                           | CEILING FAN W/ LED LIGHT KIT                  | SURFACE/ CEILING   | 1,275        | 3000     | 80  | 120   | 21    | WITH #MC261BS LIGHT KIT                                                            |
| G1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MCGRAW-EDISON           | TT-D4-740-U-MQ                    | LED PARKING GARAGE LIGHT                      | SURFACE / CEILING  | 8,002        | 4000     | 70  | 120   | 58    |                                                                                    |
| P1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RP LIGHTING             | 4430-BN                           | LED PENDANT                                   | SURACE / CEILING   | 600          | 3000     | 80  | 120   | 8     |                                                                                    |
| S1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | METALUX                 | 4SNX-SL3-LW-UNV-CC83-CD-1-FKO-U   | 4" LED STRIP                                  | SURFACE / CEILING  | 4,511        | 4000     | 70  | 120   | 38    | WITH 'EL14W' EMERGENCY BATTERY BACKUP WHERE INDICATED                              |
| T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | METALUX                 | 24FPS125CT3                       | 2x4 LED FLAT PANEL                            | ACT GRID / SURFACE | 4,500        | 3000     | 80  | 120   | 40    |                                                                                    |
| V1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RP LIGHTING             | 4904-BN-4                         | LED VANITY                                    | SURFACE / WALL     | 2,110        | 3000     | 80  | 120   | 30    |                                                                                    |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | METALUX                 | 22FP4235C                         | 2x2 LED FLAT PANEL                            | ACT GRID / SURFACE | 4,641        | 3500     | 80  | 120   | 39    |                                                                                    |
| W1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | METALUX                 | 4SNX-SL3-LW-UNV-CC83-CD-1-FKO-U   | 4" LED WALL BRACKET                           | INTERIOR WALL      | 4,000        | 4000     | 85  | 120   | 42    | WITH 'EL14W' EMERGENCY BATTERY BACKUP WHERE INDICATED & WITH DECORATIVE END COVERS |
| W2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TECH LIGHTING           | 7000WVEX9404ZUNV                  | UP / DOWN WALL SCONCE                         | EXTERIOR WALL      | 554          | 4000     | 90  | 120   | 19    |                                                                                    |
| W3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LUMARK                  | XTOR4B-W                          | LED WALLPACK                                  | EXTERIOR WALL      | 3,995        | 4000     | 70  | 120   | 38    |                                                                                    |
| W4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TERON LIGHTING          | MTG-L13.0-120V-TRIAC-XX-40K       | PATIO SCONCE                                  | EXTERIOR WALL      | 1,140        | 4000     | 80  | 120   | 13    |                                                                                    |
| W5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | METALUX                 | 4VT3-LD5-8-G-UNV-EL10W-L840-CD1-U | 4" VAPORTITE LED                              | ELEVATOR PIT       | 8,694        | 4000     | 80  | 120   | 67    |                                                                                    |
| NOTES:<br>1. LIGHT FIXTURES PROVIDED BY OWNER THRU NATIONAL ACCOUNT AND INSTALLED BY ELECTRICAL CONTRACTOR.<br>2. ALL FIXTURE QUANTITIES TO BE VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO ORDERING.<br>3. CONTACT JUSTIN HATFIELD (573) 289-0880 (JHATFIELD@LAIWEB.NET) OR PAUL WARNER (314) 531-3500 (PWARNER@LAIWEB.NET) AT LIGHTING ASSOCIATES FOR NATIONAL ACCOUNT DETAILS.<br>4. CONTACT TRAVIS VOGT (417) 621-5210 (TVOGT@CED1135.COM) AT CED-PHILLIPS & COMPANY FOR NATIONAL ACCOUNT DETAILS. |                         |                                   |                                               |                    |              |          |     |       |       |                                                                                    |

| TYPICAL APARTMENT PANEL 'P1' SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |              |      |          |      |              |                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|------|----------|------|--------------|----------------------------------------------|
| VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        | PANEL SIZE   |      | MOUNTING |      | AIC RATING   |                                              |
| 120/208V 1-PH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | 150A MLO     |      | RECESSED |      | SEE RISER    | PHASE "A" LOAD 167.5<br>PHASE "B" LOAD 164.5 |
| NEMA RATING: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |              |      |          |      |              |                                              |
| CIRCUIT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DESCRIPTION            | BREAKER SIZE | AMPS | PHASE    | AMPS | BREAKER SIZE | DESCRIPTION                                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | REFRIGERATOR           | 20-1         | 8    | A        | 44   | 45-2         | AHU-1                                        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | STOVE                  | 50-2         | 30   | B        | 44   | -            | -                                            |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                      | -            | 30   | A        | 22   | 30-2         | WATER HEATER                                 |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RANGE HOOD / MICROWAVE | 20-1         | 8    | B        | 22   | -            | -                                            |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KITCHEN RECEPTS.       | 20-1         | 4.5  | A        | 12   | 20-2         | CU-1                                         |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DISHWASHER             | 20-1         | 8    | B        | 12   | -            | -                                            |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KITCHEN RECEPTS.       | 20-1         | 4.5  | A        |      | 20-1         | SPARE                                        |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LIVING ROOM RECEPTS.   | 15-1         | 12   | B        | 6    | 15-1         | LIGHTING                                     |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BEDROOM RECEPTS.       | 15-1         | 9    | A        | 4    | 20-1         | DISPOSAL                                     |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BATHROOM RECEPT.       | 20-1         | 1.5  | B        |      |              | OPEN                                         |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPARE                  | 15-1         |      | A        |      |              | OPEN                                         |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SPARE                  | 20-1         |      | B        |      |              | OPEN                                         |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WASHING MACHINE        | 20-1         | 8    | A        | 1.5  | 20-1         | MEDIA PANEL                                  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DRYER                  | 30-2         | 20   | B        | 1    | 15-1         | SMOKE DETECTORS                              |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                      | -            | 20   | A        |      |              | OPEN                                         |
| NOTES:<br>A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOMELINE"<br>B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.<br>C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.<br>D: CIRCUIT BREAKERS SHOWN ABOVE IN <b>BOLD UNDERLINED</b> TEXT SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PER NEC 210.12.<br>E: TOTAL SIMULTANEOUS PHASE LOADS SHOWN MAY EXCEED PANEL AMPACITY AS SERVICE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.82 |                        |              |      |          |      |              |                                              |

| TYPICAL APARTMENT PANEL 'P2' SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |              |      |          |         |              |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|------|----------|---------|--------------|--------------------------------------------|
| VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        | PANEL SIZE   |      | MOUNTING |         | AIC RATING   |                                            |
| 120/208V 1-PH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        | 150A MLO     |      | RECESSED |         | SEE RISER    | PHASE "A" LOAD 189.5<br>PHASE "B" LOAD 179 |
| NEMA RATING: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |              |      |          |         |              |                                            |
| CIRCUIT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DESCRIPTION            | BREAKER SIZE | AMPS | PHASE    | AMPS    | BREAKER SIZE | DESCRIPTION                                |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | REFRIGERATOR           | 20-1         | 8    | A        | 51      | 60-2         | AHU-1 / AHU-2                              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | STOVE                  | 50-2         | 30   | B        | 51      | -            | -                                          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                      | -            | 30   | A        | 22      | 30-2         | WATER HEATER                               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RANGE HOOD / MICROWAVE | 20-1         | 8    | B        | 22      | -            | -                                          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | KITCHEN RECEPTS.       | 20-1         | 4.5  | A        | 17 / 18 | 25-2 / 30-2  | CU-1 / CU-2                                |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DISHWASHER             | 20-1         | 8    | B        | 17 / 18 | -            | -                                          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KITCHEN RECEPTS.       | 20-1         | 4.5  | A        |         | 20-1         | SPARE                                      |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LIVING ROOM RECEPTS.   | 15-1         | 12   | B        | 6       | 15-1         | LIGHTING                                   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BEDROOM RECEPTS.       | 15-1         | 9    | A        | 4       | 20-1         | DISPOSAL                                   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BATHROOM RECEPT.       | 20-1         | 1.5  | B        |         |              | OPEN                                       |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BEDROOM RECEPTS.       | 15-1         | 9    | A        |         |              | OPEN                                       |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BATHROOM RECEPT.       | 20-1         | 1.5  | B        |         |              | OPEN                                       |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WASHING MACHINE        | 20-1         | 8    | A        | 1.5     | 20-1         | MEDIA PANEL                                |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DRYER                  | 30-2         | 20   | B        | 1       | 15-1         | SMOKE DETECTORS                            |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                      | -            | 20   | A        |         |              | OPEN                                       |
| NOTES:<br>A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOMELINE"<br>B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.<br>C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.<br>D: CIRCUIT BREAKERS SHOWN ABOVE IN <b>BOLD UNDERLINED</b> TEXT SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PER NEC 210.12.<br>E: TOTAL SIMULTANEOUS PHASE LOADS SHOWN MAY EXCEED PANEL AMPACITY AS SERVICE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH NEC 220.82 |                        |              |      |          |         |              |                                            |

| BRANCH CIRCUIT CONDUCTOR SCHEDULE                                                                                                                                                                    |                  |                         |      |      |      |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|------|------|------|----------------------|
| AMPACITY                                                                                                                                                                                             | COPPER A WG SIZE | MAXIMUM DISTANCE (FEET) |      |      |      | MINIMUM CONDUIT SIZE |
|                                                                                                                                                                                                      |                  | 1Ø                      |      | 3Ø   |      |                      |
|                                                                                                                                                                                                      |                  | 120V                    | 277V | 208V | 480V |                      |
| 20                                                                                                                                                                                                   | 12               | 55'                     | 130' | 115' | 260' | 1/2"                 |
|                                                                                                                                                                                                      | 10               | 90'                     | 205' | 180' | 415' | 3/4"                 |
| 30                                                                                                                                                                                                   | 10               | 60'                     | 135' | 120' | 275' | 3/4"                 |
|                                                                                                                                                                                                      | 8                | 95'                     | 220' | 190' | 445' | 1"                   |
| 35                                                                                                                                                                                                   | 8                | 80'                     | 190' | 165' | 380' | 1"                   |
|                                                                                                                                                                                                      | 6                | 130'                    | 300' | 260' | 605' | 1"                   |
| 40                                                                                                                                                                                                   | 8                | 70'                     | 165' | 145' | 330' | 1"                   |
|                                                                                                                                                                                                      | 6                | 110'                    | 260' | 225' | 525' | 1"                   |
| 45                                                                                                                                                                                                   | 6                | 100'                    | 235' | 200' | 470' | 1"                   |
|                                                                                                                                                                                                      | 4                | 160'                    | 370' | 325' | 750' | 1-1/4"               |
| 50                                                                                                                                                                                                   | 6                | 90'                     | 210' | 180' | 420' | 1-1/4"               |
|                                                                                                                                                                                                      | 4                | 145'                    | 335' | 290' | 675' | 1-1/4"               |
| 60                                                                                                                                                                                                   | 6                | 75'                     | 175' | 150' | 350' | 1-1/4"               |
|                                                                                                                                                                                                      | 4                | 120'                    | 280' | 240' | 560' | 1-1/4"               |
| 70                                                                                                                                                                                                   | 4                | 105'                    | 240' | 205' | 480' | 1-1/4"               |
|                                                                                                                                                                                                      | 3                | 130'                    | 300' | 260' | 605' | 1-1/4"               |
| 80                                                                                                                                                                                                   | 4                | 55'                     | 210' | 180' | 420' | 1-1/4"               |
|                                                                                                                                                                                                      | 3                | 90'                     | 260' | 230' | 530' | 1-1/4"               |
| 90                                                                                                                                                                                                   | 3                | 100'                    | 235' | 200' | 470' | 1-1/4"               |
|                                                                                                                                                                                                      | 2                | 125'                    | 295' | 255' | 595' | 1-1/4"               |
| 100                                                                                                                                                                                                  | 3                | 90'                     | 210' | 180' | 420' | 1-1/4"               |
|                                                                                                                                                                                                      | 2                | 115'                    | 265' | 230' | 535' | 1-1/4"               |
| NOTES:                                                                                                                                                                                               |                  |                         |      |      |      |                      |
| 1. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE OF 30°C PER NEC.                                      |                  |                         |      |      |      |                      |
| 2. DISTANCE SHOWN ABOVE IS LENGTH FROM OVERCURRENT PROTECTION TO DEVICE/EQUIPMENT.                                                                                                                   |                  |                         |      |      |      |                      |
| 3. REFER TO PLAN SHEETS FOR BRANCH CONDUCTOR SIZING LENGTHS GREATER THAN SHOWN ABOVE.                                                                                                                |                  |                         |      |      |      |                      |
| 4. VOLTAGE DROP CALCULATIONS BASED ON 3% DROP, 80% CIRCUIT LOAD, THHN/THWN INSULATION, 100% POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, & SIX OR LESS CURRENT-CARRYING CONDUCTORS IN RACEWAY. |                  |                         |      |      |      |                      |

| FEEDER CONDUCTOR SCHEDULE                                                                                               |           |                  |           |          |          |                  |          |                                |
|-------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-----------|----------|----------|------------------|----------|--------------------------------|
| AMPACITY                                                                                                                | # OF SETS | CONDUCTORS       |           |          |          | EQUIPMENT GROUND |          | MINIMUM CONDUIT SIZE (PER SET) |
|                                                                                                                         |           | QUANTITY PER SET |           | AWG SIZE |          | AWG SIZE         |          |                                |
|                                                                                                                         |           | 3Ø WYE           | 1Ø OR 3ØΔ | COPPER   | ALUMINUM | COPPER           | ALUMINUM |                                |
| 30                                                                                                                      | 1         | 4                | 3         | 10       | 8        | 10               | 8        | 3/4"                           |
| 40                                                                                                                      | 1         | 4                | 3         | 8        | 8        | 8                | 8        | 1"                             |
| 45                                                                                                                      | 1         | 4                | 3         | 8        | 6        | 8                | 8        | 1"                             |
| 50                                                                                                                      | 1         | 4                | 3         | 8        | 6        | 10               | 8        | 1"                             |
| 60                                                                                                                      | 1         | 4                | 3         | 6        | 4        | 10               | 6        | 1"                             |
| 70                                                                                                                      | 1         | 4                | 3         | 4        | 2        | 8                | 6        | 1-1/4"                         |
| 80                                                                                                                      | 1         | 4                | 3         | 4        | 2        | 8                | 6        | 1-1/4"                         |
| 90                                                                                                                      | 1         | 4                | 3         | 3        | 2        | 8                | 6        | 1-1/4"                         |
| 100                                                                                                                     | 1         | 4                | 3         | 3        | 1        | 8                | 6        | 1-1/4"                         |
| 110                                                                                                                     | 1         | 4                | 3         | 2        | 1/0      | 6                | 4        | 1-1/4"                         |
| 125                                                                                                                     | 1         | 4                | 3         | 1        | 2/0      | 6                | 4        | 2"                             |
| 150                                                                                                                     | 1         | 4                | 3         | 1/0      | 3/0      | 6                | 4        | 2"                             |
| 175                                                                                                                     | 1         | 4                | 3         | 2/0      | 4/0      | 6                | 4        | 2"                             |
| 200                                                                                                                     | 1         | 4                | 3         | 3/0      | 250      | 6                | 4        | 2-1/2"                         |
| 225                                                                                                                     | 1         | 4                | 3         | 4/0      | 300      | 4                | 2        | 2-1/2"                         |
| 250                                                                                                                     | 1         | 4                | 3         | 250      | 350      | 4                | 2        | 3"                             |
| 300                                                                                                                     | 1         | 4                | 3         | 350      | 500      | 4                | 2        | 4"                             |
| 350                                                                                                                     | 1         | 4                | 3         | 400      | 600      | 3                | 1        | 4"                             |
| 400                                                                                                                     | 1         | 4                | 3         | 500      | 750      | 3                | 1        | 4"                             |
| 500                                                                                                                     | 2         | 4                | 3         | 250      | 350      | 2                | 1/0      | 4"                             |
| 600                                                                                                                     | 2         | 4                | 3         | 350      | 500      | 1                | 2/0      | 4"                             |
| 800                                                                                                                     | 2         | 4                | 3         | 500      | 750      | 1/0              | 3/0      | 4"                             |
| 1000                                                                                                                    | 3         | 4                | 3         | 400      | 350      | 2/0              | 4/0      | 4"                             |
| 1200                                                                                                                    | 4         | 4                | 3         | 350      | 500      | 3/0              | 250      | 4"                             |
| 1600                                                                                                                    | 5         | 4                | 3         | 400      | 750      | 4/0              | 350      | 4"                             |
| 2000                                                                                                                    | 6         | 4                | 3         | 400      | 750      | 250              | 400      | 4"                             |
| NOTES:                                                                                                                  |           |                  |           |          |          |                  |          |                                |
| 1. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC. |           |                  |           |          |          |                  |          |                                |
| 2. MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.                                                    |           |                  |           |          |          |                  |          |                                |
| 3. ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.    |           |                  |           |          |          |                  |          |                                |



2400 Bluff Creek Drive, Suite 101  
Columbia, Missouri 65201  
573.234.4492  
[www.j-squaredeng.com](http://www.j-squaredeng.com)

DESIGN: ACW

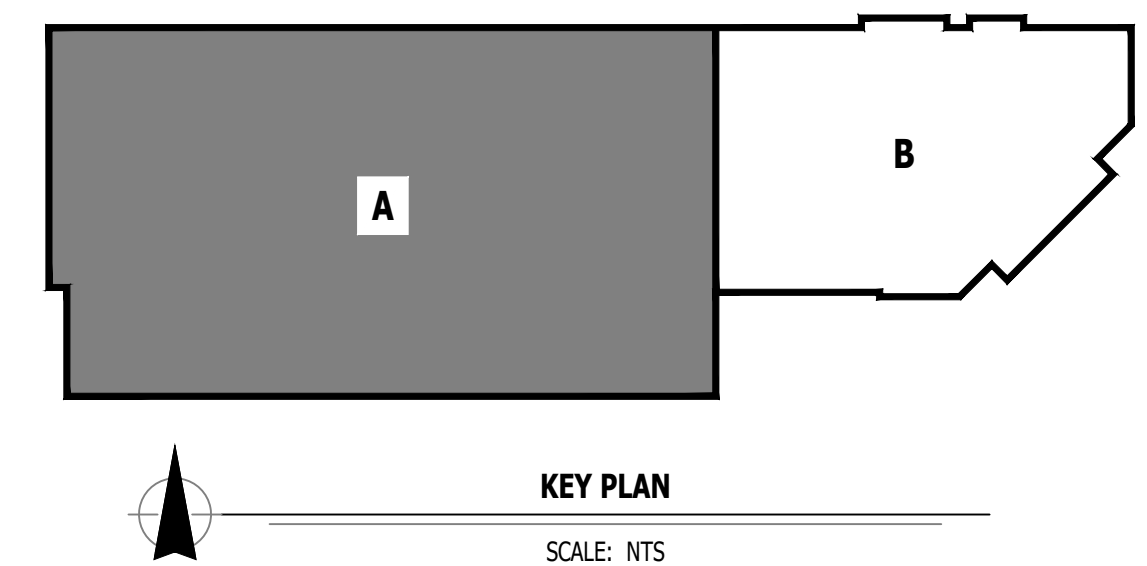
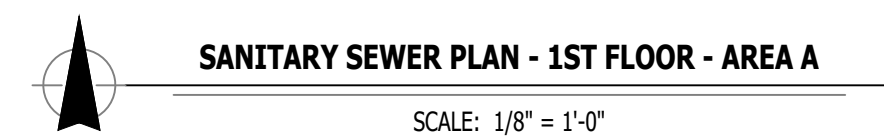
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| TY SUBMITTAL | 12 - 20 - 2024 |
|--------------|----------------|

|             |                |
|-------------|----------------|
| ADDENDUM #1 | 01 - 17 - 2025 |
|-------------|----------------|

 SANITARY SEWER PIPING  
 VENT PIPING  
 PIPING TURNED DOWN / TURNED UP  
 TIE INTO EXISTING

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

- ① 3" SAN DOWN FROM SECOND FLOOR.
- ② 3" SAN DOWN FROM SECOND FLOOR NEXT TO COLUMN.
- ③ 4" SAN DOWN FROM SECOND FLOOR NEXT TO COLUMN.
- ④ 6" SECONDARY STORM DRAIN PIPING DOWN FROM LEVEL ABOVE TO DOWNSPOUT NOZZLE 'DN1' AT 18" ABOVE GRADE.
- ⑤ 4" PRIMARY STORM DRAIN DOWN FROM LEVEL ABOVE.
- ⑥ 2" V UP TO LEVEL ABOVE.
- ⑦ 2" STORM DOWN FROM ENTRY ROOF ABOVE TO DOWNSPOUT NOZZLE 'DN1' AT 18" ABOVE GRADE.



**MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:**  
**The Village at Discovery - Lot 10A**

100 Northeast Alura Way  
Lee's Summit, Jackson County, MO 64064

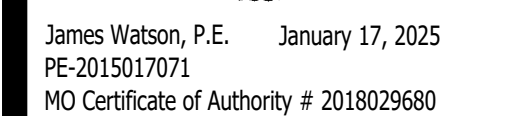
APPROVAL STAMP

MEET TITLE

**SANITARY SEWER PLAN**  
**- 1ST FLOOR - AREA A**

SHEET NUMBER

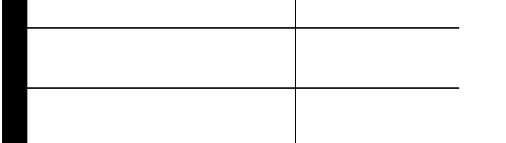
**PS101**



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|                |        |
|----------------|--------|
| J2 PROJECT No: | J21013 |
| J2 DESIGN:     | ACW    |

| ISSUE TITLE    | DATE           |
|----------------|----------------|
| CITY SUBMITTAL | 12 - 20 - 2024 |
| ADDENDUM #1    | 01 - 17 - 2025 |



**MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:  
The Village at Discovery - Lot 10A**

100 Northeast Alura Way  
Lee's Summit, Jackson County, MO 64064

AHJ APPROVAL STAMP

SHEET TITLE

**POWER &  
LIGHTING PLAN  
- UNIT TYPE  
BROWNSTONE**

SHEET NUMBER \_\_\_\_\_

## UMEP2.4.2

|                                                                                   |                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | CIRCUIT WIRING                                                                                                                                                                                                                                                                                                                |
|  | CIRCUIT TAG                                                                                                                                                                                                                                                                                                                   |
|  | JUNCTION BOX                                                                                                                                                                                                                                                                                                                  |
|  | RECEPTACLE                                                                                                                                                                                                                                                                                                                    |
|  | INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX<br>(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)                                                                                                                                                                                                                                     |
|  | "WP" = WEATHERPROOF OUTDOOR RECEPTACLE                                                                                                                                                                                                                                                                                        |
|  | GFCI DUPLEX CONVENIENCE RECEPTACLE                                                                                                                                                                                                                                                                                            |
|  | 208V RECEPTACLE                                                                                                                                                                                                                                                                                                               |
|  | QUADPLEX CONVENIENCE RECEPTACLE                                                                                                                                                                                                                                                                                               |
|  | DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL LOCATION<br>(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)                                                                                                                                                                                               |
|  | DISCONNECT                                                                                                                                                                                                                                                                                                                    |
|  | 120V IONIZATION SMOKE 520Hz LOW FREQUENCY ALARM WITH SILENCING CAPABILITIES &<br>LOW-VOLTAGE CONTACTS WIRED TO SHUT DOWN AHU UPON FIRE DETECTION.<br>COORDINATE WITH HVAC CONTRACTOR. SMOKE DETECTOR MUST BE LOCATED AT LEAST 3'<br>FROM CEILING FAN BLADES AND AT LEAST 10' FROM ANY COOKING APPLIANCE<br>(FIELD-COORDINATE) |

1. SEE E500 & E600 SERIES SHEETS FOR POWER SCHEDULES, DETAILS, REQUIREMENTS, ETC.
2. SEE SHEET MEP3 FOR CONDENSING UNIT LOCATIONS.
3. VERIFY EACH DATA/RECEPTACLE LOCATION WITH OWNER PRIOR TO INSTALLATION.
4. REFER TO "TYPICAL ADA MOUNTING HEIGHTS DETAIL", E500 & E600 SERIES SHEETS, OR MOUNTING HEIGHTS OF DEVICES IN "ANSI A" UNITS.

① MEDIA PANEL LOCATION; DATA/TV WIRING TO TERMINATE AT THIS LOCATION. DETERMINE EXACT LOCATION & DETAILS WITH OWNER PRIOR TO INSTALLATION.

 X1 LIGHTING FIXTURE  
 "X1" INDICATES FIXTURE TYPE  
 (REFER TO SCHEDULE)

 S13 TOGGLE SWITCH  
 SWITCH TYPE

 D DIMMER SWITCH

1. SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES
2. ALL LIGHTING SHOWN SHALL BE ON CIRCUIT 16 UNLESS NOTED OTHERWISE.



SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"