sign X K 00393/ XREFS: -0050 9:21 F: \2022\00001 Dec 21, 2023



ELECTRICAL SYMBOL LEGEND					
POWE	ER DEVICES	S S			
X RECEPTACLE		—   \ <u> </u>			
ERECEPTACLE	$\left\{ \begin{array}{c} P \end{array} \right\}$ POWER PEDESTAL AS INDICATED ON PLANS $\left\{ \right\}_{\Lambda}$	FI			
PLEX RECEPTACLE		* A			
X RECEPTACLE, 6" ABOVE COUNTERTOP UNLESS OTHERWISE NOTED		A A			
ND FAULT DUPLEX RECEPTACLE					
X RECEPTACLE ON EMERGENCY CIRCUIT	SURFACE MOUNT ELECTRICAL PANEL	AFG A			
PLEX RECEPTACLE ON EMERGENCY CIRCUIT	T ELECTRICAL POWER TRANSFORMER	AHU A			
ND FAULT DUPLEX RECEPTACLE WITH WHILE-IN-USE COVER	DISCONNECT SWITCH PROVIDED WITH EQUIPMENT	AFCI A			
X RECEPTACI E WITH USB OUTLETS	FUSED DISCONNECT SWITCH	ATS A			
FED GROUND RECEPTACLE	NON-FUSED DISCONNECT SWITCH	C C			
AL-PURPOSE OUTLET. LETTER DESIGNATES TYPE, SEE SPECIAL CONNECTION		С/В С			
DULE FOR REQUIREMENTS		CIR C			
MOUNTED JUNCTION BOX		СОН С			
G MOUNTED JUNCTION BOX		E E			
DE JUNCTION BOX	ELECTRICAL MOTOR - THREE PHASE	EF E			
CE RACEWAY WITH OUTLETS AS INDICATED ON PLANS		EMT E			
BUTTON SWITCH		ER N			
NATION PUSHBUTTON SWITCH		EWC E			
ROOM EMERGENCY SHUT-OFF SWITCH		FA F			
		FB FI			
LI					
G OR WALL-MOUNTED OCCUPANCY SENSOR	SINGLE-POLE SWITCH	GFI G			
G OR WALL-MOUNTED PHOTO CELL	S <sup>2</sup> DOUBLE-POLE SWITCH	НД НД Н			
NG CONTACTOR	\$ <sup>3</sup> 3-WAY SWITCH	IG IS			
CLOCK, AS INDICATED ON PLANS	\$ <sup>4</sup> 4-WAY SWITCH	MAU M			
TOP LIGHT FIXTURE ON POLE, AS INDICATED ON PLANS	\$K KEY SWITCH	MD M			
LIGHT FIXTURE ON POLE, AS INDICATED ON PLANS	STREET LIGHT, AS INDICATED ON PLANS	NF N NL N			
		NR N			
RD LIGHT FIXTURE, AS INDICATED ON PLANS		P P			
CIF	RCUITRY				
STING, NEW, OR DEMO POWER FEEDER BELOW GRADE M BELOW GRADE (NEW WORK) OR TO BE DEMOLISHED (DEMO)	BRANCH CIRCUIT. 2#12 AND 1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED	PID E PVC P RE R			
		RL R			

## REVIATIONS/MODIFIERS

- SHEET NOTE TAG, LABEL NDICATES NOTE NUMBER FEEDER TAG
- ABOVE COUNTER
- AMPERE AUTOMATIC DAMPER
- ABOVE FINISHED FLOOR
- ABOVE FINISHED GRADE
- AIR HANDLING UNIT
- ARC FAULT CIRCUIT INTERUPTER AUTOMATIC TRANSFER SWITCH
- CONDUIT
- CIRCUIT BREAKER CIRCUIT
- CABINET UNIT HEATER
- EXISTING DEVICES TO REMAIN EXHAUST FAN
- ELECTRIC METALLIC TUBING
- NEW LOCATION OF EXISTING RELOCATED ELECTRIC WATER COOLER
- ELECTRIC WATER HEATER
- FIRE ALARM FLOOR BOX
- FLEXIBLE METALLIC TUBING
- GROUND FAULT INTERRUPTER HAND DRYER
- ISOLATED GROUND
- MAKE-UP AIR UNIT
- MOTORIZED DAMPER
- NON-FUSED NIGHT LIGHT
- NEW TO REPLACE EXISTING POLE
- PRIMARY ELECTRIC SERVICE
- ELECTRIC PAPER TOWEL DISPENSER
- POLYVINYL CHLORIDE CONDUIT REMOVE EXISTING
- ROOF EXHAUST FAN
- RELOCATE EXISTING
- RIGID METALLIC CONDUIT
- REMOVE AND REPLACE ON NEW SURFACE RTU ROOFTOP UNIT
- SD SMOKE DAMPER

RMC

RR

SE

S&P

Т

W

- SECONDARY ELECTRIC SERVICE
- SPACE AND PROVISION
- TELEPHONE SERVICE
- TCP TEMPERATURE CONTROL PANEL
- TP TAMPER PROOF TV TELEVISION
- UGE UNDERGROUND ELECTRICAL VFC VARIABLE FREQUENCY CONTROLLER
- VFD VARIABLE FREQUENCY DRIVE
  - WIRE

WG WIRE GUARD

WP WEATHERPROOF

XFMR TRANSFORMER

## GENERAL NOTES

- A. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE ADOPTED ELECTRICAL CODE.
- B. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 90-DEGREE CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT UL LISTED FOR A MINIMUM OF 75-DEGREES. CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING OR NO RATING SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO THE ADOPTED ELECTRICAL CODE.
- C. CONTACT ELECTRIC UTILITY AND ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
- D. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND LOCATION OF SAME AS MAY BE NECESSARY TO AVOID DAMAGE THERE OF.
- E. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- F. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.
- G. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- H. GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- I. ALL WIRING SHALL BE INSTALLED IN CONDUIT AND BE CONCEALED.
- J. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT.
- K. ALL BRANCH CIRCUITS SHALL CONSIST OF (2) #10 AND (1)#10 EQUIPMENT GROUND IN 1" EMT CONDUIT, UNLESS OTHERWISE NOTED.
- L. ALL ELECTRICAL RACEWAYS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED PER THE ADOPTED ELECTRICAL CODE.
- M. MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 1" BELOW GRADE.
- N. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULLSTRING.
- O. COORDINATE INSTALLATION OF ELECTRICAL WORK WITH OTHER TRADES. INSTALL AT THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF OTHER TRADES. TRADES WITH REQUIRED SLOPES SHALL HAVE PLACEMENT PRIORITY. WHERE POSSIBLE RACEWAYS SHALL BE ROUTED THROUGH TRUSSES.
- P. DEFINITIONS:
- P.1. PROVIDE CONTRACTOR SHALL FURNISH AND INSTALL
- P.2. FURNISH CONTRACTOR SHALL OBTAIN FOR OTHERS TO INSTALL. P.3. INSTALL - CONTRACTOR IS RESPONSIBLE FOR ALL LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE.
- - REV. 2023 REET LEE'S SUMMIT DOWNTOWN MARKET GREEN STREET - 2ND STREET TO 3RD ST ELECTRICAL SYMBOLS SUMMIT S drawn by: checked by:

Ols. Missou 1301

TIMOTI

DANNER

NUMBER

PE-2019031265

JONAL W

SHEET E000

 project no.:
 022-00393

 drawing no.:
 E\_NGEN\_02200393

 date:
 12/22/2023

approved by: QA/QC by:







## GENERAL NOTES

WHERE IN GROUND BOX DUPLEX RECEPTACLE SYMBOL IS SHOWN, PROVIDE LEGRAND# XBB14C520CBK RECESSED GROUND BOX. ROUTE RECEPTACLE CIRCUIT TO A GFCI BREAKER. COORDINATE WITH INTERIOR BUILDING PANELBOARD SUBMITTAL. REFER TO HARDSCAPE PLANS FOR EXACT LOCATION AND DETAILS. INSTALL 6 INCHES OF CA-5 CLEAN ROCK BELOW BOX FOR WATER TO DRAIN.

# ○ SHEET KEYNOTES

- ROUTE EXTERIOR LIGHTING CIRCUITS TO INTERIOR PANELBOARD L2 IN FARMERS MARKET BUILDING. EXTERIOR LIGHTING SHALL BE CONTROLLED BY TIMECLOCK. REFER TO INTERIOR BUILDING PLANS FOR EXACT LOCATION AND CONTROL SCHEME.
- IN-GRADE JUNCTION BOX. REFER TO JUNCTION BOX DETAILS FOR ADDITIONAL INFORMATION. DETERMINE EXACT LOCATION AND QUANTITY.
- ROUTE EXTERIOR LIGHTING CIRCUIT TO 20A/2P CIRCUIT BREAKER IN NEAREST STREET LIGHTING PEDESTAL. LIGHTING CIRCUIT SHALL BE ROUTED THROUGH EXISTING PHOTOCELL. PROVIDE CONTACTORS AS REQUIRED. BORE UNDER STREET.
- 4. APPROXIMATE LOCATION OF EXISTING STREET LIGHTING POWER PEDESTAL. FIELD VERIFY EXACT LOCATION.
- 5. APPROXIMATE LOCATION OF INTERIOR PANELBOARD L2 IN FARMERS MARKET BUILDING.
- PROVIDE 0-10V DIMMING CABLE FOR EXTERIOR LIGHTING CIRCUIT.
- PROVIDE 120V POWER TO IRRIGATION CONTROLLER. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION. ROUTE (2)-#12 AND (1)-#12 GROUND IN 1" CONDUIT TO 20A/1P CIRCUIT BREAKER IN NEAREST PANELBOARD IN FARMERS MARKET BUILDING.
- ROUTE RECEPTACLE HOMERUN TO 20A/1P CIRCUIT BREAKER IN EXISTING POWER PEDESTAL. RECEPTACLE SHALL BE CONTROLLED BY PHOTOCELL.







# GENERAL NOTES

A. WHERE IN GROUND BOX DUPLEX RECEPTACLE SYMBOL IS SHOWN, PROVIDE LEGRAND# XBB14C520CBK RECESSED GROUND BOX UNLESS OTHERWISE NOTED. ROUTE RECEPTACLE CIRCUIT TO A GFCI BREAKER. COORDINATE WITH INTERIOR BUILDING PANELBOARD SUBMITTAL. REFER TO HARDSCAPE PLANS FOR EXACT LOCATION AND DETAILS. INSTALL 6 INCHES OF CA-5 CLEAN ROCK BELOW BOX FOR WATER TO DRAIN.

# ○ SHEET KEYNOTES

- 1. ROUTE 1" CONDUIT FOR POWER TO WALL MOUNTED SIGN. REFER TO LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
- 2. ROUTE CIRCUIT TO 20A/1P CIRCUIT BREAKER IN PANEL L2. CIRCUIT SHALL BE ROUTED THROUGH TIME CLOCK. RECEPTACLE CIRCUITS SHALL BE ROUTED TO GFCI BREAKER.
- 3. ROUTE 1" EMPTY CONDUIT FOR POWER TO IN-GRADE JUNCTION BOX FOR SCULPTURE/ART FEATURE. STUB UP CONDUIT IN ELECTRICAL ROOM OF FARMER MARKET BUILDING AND CAP WITH PULL STRINGS.
- 4. ROUTE CIRCUIT TO 20A/1P CIRCUIT BREAKER IN PANEL L2. CIRCUIT SHALL BE ROUTED THROUGH TIME CLOCK.
- 5. REFER TO LANDSCAPE WALL DETAILS FOR LOCATION OF WEATHER RESISTANT RECEPTACLE WITH WHILE-IN-USE COVER MOUNTED TO BAR. 6. RECEPTACLE MOUNTED IN BASE OF WICKET.
  - PROVIDE OUTDOOR POWER PEDESTAL. REFER TO POWER PEDESTAL DETAIL FOR ADDITIONAL INFORMATION. COORDINATE FINAL PLACEMENT WITH CIVIL AND LANDSCAPE DRAWINGS PRIOR TO ROUGH-IN.
  - ROUTE (2)-#3 AND (1)-#8 GROUND IN 1-1/4" CONDUIT TO 75A/2P CIRCUIT BREAKER FOR POWER PEDESTAL. ······

PAD SITE 1

			HY ER 312	Olsson - Civil Engineering	Missouri Certificate of Authority #001592	1301 Burlington Street	North Kansas City, MO 64116 TEL 816.361.1177 www.olsson
BY					Ş		
REV. DATE REVISIONS DESCRIPTION NO. 1 12-22-2023 ADDENDUM 1							REVISIONS
							2023
ENLARGED SITE POWER PLAN		I FE'S SHMMIT DOWNTOWN MARKET		GREEN STREET - 2ND STREET TO 3RD STREET			LEE'S SUMMIT, MO
drawn by: checked t approved QA/QC by project no drawing n date:	oy: by: /: o.: SH	E_N		02 0; 12,	:2-0 220 /22/	5 7 7 7 0039 0039 0039 (20)	3H -D -D -D -D -D -D -D -D -D -D -D -D -D



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E	30	00





AWDE3

SPECIFICATIONS General Description maintaining uniform illumination. Mechanical Specifications

Electrical Specifications or CSA for wet locations • A factory programmable electronic removeable with minimum use of tools.

Customer to change without notice. Date: Project: Type:

## Olivio Medio LED Universal Mount

Order Code: \_\_\_OLML\_\_\_\_Series \_\_\_\_\_ Optics U T1 Universal Single Pole Top Mounting Light Engine 2G350 2G525 2G700 2G105 15W / 1325Im 23W / 1978Im 31W / 2631Im 46W / 3941Im \_\_\_\_\_ CCT Finish Voltage DS2 Dark Sky 00 Tilt Option 0-10V Spread Lens Horizontal (fixed) Dimming, Biread Lens Horizontal (fixed) Dertical (fixed) Der Options \_\_\_\_\_ Product Modifications Please list modification requirements for review by factory: 

OLML Olivio Medio LED

**27\*** 2700К

WH White

Selux Corporation © 2023, T 845-834-1400, 800-735-8927, F 845-834-1401, www.selux.us

301 <sub>3000к</sub>

BK Black

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.



393/ 00001 2023

SCALE: NOT TO SCALE



Maximum weight - 37 lbs Maximum effective projected area - 2.19 sq. ft.

Acrylic Washington Postlite Standard LED3

The Acrylic Washington Postlite Standard LED3 is designed for precision optical system that maximizes post spacings while

The luminaire housing shall: • Be heavy grade A360 cast aluminum (aluminum with <1% copper) • IP55 rated housing, that will accept 3" high by 2-7/8" to 3-1/8" O.D. pole tenon • Provide four uniquely designed stainless steel spring clips, enclosed in a clear polyvinyl chloride sleeve and adjusted by 1/4-20 hex-head bolts that securely cradle the prismatic acrylic **Certification and Standards** 

standard and RAL finish options. • RAL (RALxxxxSDCR) paint <u>Buy American Act</u> colors are Super Durable Corrosion Resistant, 80% gloss.

driver with 0-10V dimming control leads • LEDs shall have a minimum of 70 CRI and available in 2700K, 3000K, 4000K, and fail off, as standard with an upgradable 20kV/10kA surge protection, warranty terms located at: fail off with indicator light, option • Lumen output can be

**Optical Specifications** The optical system is IP66 rated and consists of a precisely use with traditional applications fitting 3" tenon post. The large acorn-shaped luminaire, while reminiscent of the 1920's, contains a powerful, stalk-mounted Chip-On-Board LED platform with a redirects over 50% of the upward light into the controlling refractor while allowing a soft up-light component to define the traditional acorn shape of the luminaire. The lower refractor uses precisely molded prisms to maximize the pole spacings while maintaining uniform illuminance. Two refractors are available, designed for IES type III and V distributions. Control Options

provides enclosure for the electrical module • Mount to slip-fitter The control options shall include, but not limited to, the following: • Three (3) choices of button-style photocontrol kits that, specified to match voltage requirements, 120V, 208-277V, and 347V, and colored to match housing color (no 480V options).

refractor. The same ¼-20 bolts also support the decorative rib and • Luminaire shall be UL or CSA listed. • Suitable for operation in banding assembly The finish shall: • Utilize a polyester power an ambient temperature up to 40°C / 105°F per UL or CSA coat paint to ensure maximum durability • Rigorous multi-stage certification • LM79 compliant • DesignLights Consortium® pre-treating and painting process yields a finish that achieves a (DLC) qualified product. Not all versions of this product may be scribe creepage rating of 8 (per ASTM D1654) after over 5,000 DLC qualified. Please check the DLC Qualified Products List at hours exposure to salt fog chamber (operated per ASTM B117) on www.designlights.org/QPL to confirm which versions are qualified.

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to The driver shall meet the following requirements: • Certified by UL www.acuitybrands.com/resources/buy-american for additional information.

<u>Warranty – 5 Years Limited</u>

Qty:

This is the only warranty provided and no other statements in 5000K CCT • The electrical system shall be designed to meet this specification sheet create any warranty of any kind. All other ANSI/IEEE C62.41.2 and shall offer a 10kV/5kA surge protection, express and implied warranties are disclaimed. Complete

'www.acuitybrands.com/support/warranty/terms-and-conditions customized prior to manufacturing by way of FPDxx Options • The Note: Actual performance may differ as a result of end-user electrical components are mounted on an aluminum plate that is removeable with minimum use of tools.

Holophane | One Lithonia Way, Conyers, GA 30012 | Phone: 866-HOLOPHANE | www.holophane.com Page 1 of 7 AcuityBrands. Holophane | One Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Convers, GA 30012 | Finance Converse of the Lithonia way, Converse

SCur

\* Based on F80 distribution and 3000K CCT

1 Dark Sky approved with (ds) option only.

2 IDA approved with (DS) option only

and 3000K CCT.
Only available with 120V, 240V or 277V.
Cannot be combined with SLH, SLV, or ASM options
Cannot be combined with DM option.

Page 1 of 9 (Rev. 03/2023) OLML-U\_SS\_3.2

Consult factory

Approvals

Date:

	Project type: Notes: Design	:									LE LIGHTING DETAILS		MMIT DOWNTOWN MAR T - 2ND STRFET TO 3RI	
	B. PROVIDE CONG C. NO EQUALS SH Specification sl	CRETE BAS	SE, PER DETAIL. LOWED FOR THIS FIXTURE, UNLESS APPROVED BY OWN FLINDT BOLLARI	IER. 1/3									RKET D STRFET	
(	NOTES: A. PROVIDE ALL (		11" DIA. INGROUND LED LUMINAIRE WITH TUNABLE WHITE DMX CONTROLLER AND STAINLESS STEEL FINSIH.	WE-EF# ETC140-GB-TW CLUDE, BUT NOT BE LIMITED TO, ARM, MOUNTIN	LED NG BRACKE	4,080 TS, POLE BA	3000K / 80	0-10V DIMMING	MVOLT 30W ATE, BASE, H	FLAG POLE	REV.	1 12-2		023
$\wedge$		J	4' LINEAR LED LUMINAIRE WITH RBGW COLOR CHANGING AND BLACK FINISH.	GRIVEN# PDL4MC-RGBW30K-DMX/RDM-C-UNV-WB-BL	LED	2,500	3000K / 80	0-10V DIMMING	MVOLT 74W	CLOCK TOWER	DATE	:2-2023 ADDEN		
	+	P5	LED PEDESTRIAN POST TOP ON 10-0" POLE AND CONCRETE BASE, BLACK FINISH. SEE NOTE A, B, AND C BELOW.	HALOPHANE# AWDE3-P30-40K-MVOLT-MS-AL5-BK-FNT-TBK -20KV-UA POLE: PSA-10-4C018D-C03-BK-ABG-GRD	<u>LED</u>	8,000	4000K780	0-100 DIMMING	MVOLT 61W	PEDEST <del>RIA</del> N WALKWAY	ONS DESCRIPTIC	DUM 1		REVISIO
	$\square$	Н	RECESSED FLUSH LED WALL LIGHT WITH WHITE FINISH.	WE-EF# STI134LED-190-9009-RAL9016-190-9031	LED	178	З000К / 80	0-10V DIMMING	MVOLT 6W	STEPS	N			SNC
		G4	LED ROPE LIGHT WITH FROSTED LENS MOUNTED IN FLEXIBLE ALUMINUM CHANNEL. PROVIDE 24V HLV192 POWER SUPPLY IN NEMA 3R ENCLOSURE.	DMX DECODER: DMXD-4C-5A-WP KELVIX# RGBW-1-WR-24V CHANNEL: LV DRIVER: HLV192	LED	426LM/FT	3000K / 80	0-10V DIMMING	24VOLT 8W/FT	BAR (LOWER)				
		G3	LED ROPE LIGHT WITH FROSTED LENS MOUNTED IN FLEXIBLE ALUMINUM CHANNEL. PROVIDE 24V HLV192 POWER SUPPLY IN NEMA 3R ENCLOSURE.	KELVIX# RGBW-3-WR-24V CHANNEL:	LED	131LM/FT	3000K / 80	0-10V DIMMING	24VOLT 2W/FT	BAR(TOP)	ВҮ			
		G2	LED ROPE LIGHT WITH WHITE FROSTED LENS MOUNTED IN FLEXIBLE ALUMINUM CHANNEL. PROVIDE 24V HLV192 POWER SUPPLY IN NEMA 3R ENCLOSURE.	KELVIX# PL27K-WR-24 CHANNEL:CH-409-SWH-CP-EC LV DRIVER: HLV192	LED	148LM/FT	2700K / 80	0-10V DIMMING	24VOLT 2W/FT	BENCHES	PROEVE	NL PE-20 SS101	IMBER 19031265	NUMEER NUMEER
		F	LED MESH LIGHTING WITH ACRYLIC CYLINDER 2'-0" O.C. RGBW COLOR CHANGING.	CARL STAHL# X-LED-DOT-B-RGB POLE: KW INDUSTRIES# RSP12-4.0-11-BLK-BC-OTC-WPRP-58HH	LED		3500K / 80	0-10V DIMMING	24VOLT 1.5W/FT	ABOVE SEATING			MISS IL 22.2 MOTHY	
	<u></u>	D	4.5" DIA. x 31.5" LED BOLLARD WITH ALUMINUM FINISH. SEE NOTE A AND B BELOW.	LOUIS POULSEN# FLINDT#10000162762	LED	784	4000K / 80	0-10V DIMMING	MVOLT 15W	PEDESTRIAN WALKWAY			Olsson - Civi	Missouri Cert 1301 Burlir North Kans
	20 20	С	LED DOUBLE HEAD FLOOD LIGHT WITH 40 DEGREE TILT ON 25'-0" POLE AND CONCRETE BASE. SEE NOTE A AND B BELOW.	POLE: O-AT535-20-BK           SELUX#           OLML-F40-C2-U-2G105-35-BK-U-DM-SLH           POLE: O-AT535-25-BK	LED	3794	3500K / 80	0-10V DIMMING	MVOLT 92W	PEDESTRIAN WALKWAY			Fnaineering	fificate of Authori gton Street as City, MO 6
	$\mathcal{O}_{\mathcal{O}}$	B B2	LED DOUBLE HEAD FLOOD LIGHT WITH 40 DEGREE TILT ON 20'-0" POLE AND CONCRETE BASE. SEE NOTE A AND B BELOW.	SELUX# OLML-F40-C2-U-2G105-35-BK-U-DM-SLH POLE: O-AT535-20-BK	LED	3794	3500K / 80	0-10V DIMMING	MVOLT 92W	PEDESTRIAN WALKWAY				iy ##001592 4116 TI
	0 00	A2	ASYMMETRIC DISTRIBUTION WITH 40 DEGREE TILT ON 25'-0" POLE AND CONCRETE BASE. SEE NOTE A AND B BELOW.	OLML-ASM-T1-2G105-35-BK-U-DM-SLH POLE: O-AT635-25-BK OLML-ASM-C2-2G105-35-MK-U-DM POLE: AT524-25-BK		3071	55000 / 60	0-10V Dimining	46W 92W	STREET				EL 816.361.1
	SYMBOL	ТҮРЕ			LAMPS	LUMENS	COLOR TEMP / CRI	DRIVER / BALLAST	VOLTAGE / WATTAGE					177 w



☐ LIGHT POLE/FIXTURE DETAILS

 Pole Order Code:
 Options

**40** 4000К

BZ Bronze

50\* 5000K

SV Silver

SP Specify Premium Color

S09 Spot, 90 Spot, 200 F40 F80 ASM Flood Flood, 780 ASM Medium, 410 (no SLH or SLV option)

**35\*** 3500К

BL Semi-Matte

UNV 120 208 240 277 120-277V 120V 208V 240V 277V

## SECTION 260000 ELECTRICAL

1. GENERAL CONDITIONS:

- THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE Α. PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT. THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- D. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.
- SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- F. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.
- G. ALL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING CONDITION.
- H. INCLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.
- REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS.
- PROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND .1 APPROVAL BY ENFORCEMENT AUTHORITIES.
- K. FURNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION, UNLOAD AND UNPACK, AND GUARANTEE.
- INSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN PLACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND MAKE READY FOR OWNER'S USE.
- M. PROVIDE: TO FURNISH AND INSTALL.
- PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. N. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
- O. THE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, BEFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.
- REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING, Р INSTALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL CONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
- PROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, Q. MISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT MMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THE HAVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTED OTHERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE BUILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER RESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIED PORTION.
- R. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT. MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER.
- KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALENT DAILY. CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY IDENTIFICATION.
- OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND OWNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMIT TO THE ENGINEER AND OWNER FOR REVIEW.
- U. TEST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY CONSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST IS NOT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHALL BE REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE WRITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINEER.
- V. FULLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION OF EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROVIDE INSTRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED PERSONNEL.
- W. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.
- X. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT INDICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. A FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF THE PROJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO ANY SHOP DRAWING SUBMITTAL REVIEW.
- THIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS AND RESPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT MANUAL.
- 2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:
  - A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES, THE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE POINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.
- 3. SCOPE OF WORK:
  - WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE ALL SYSTEMS OPERATIONAL AS SHOWN ON THE

DRAWINGS AND HEREIN DESCRIBED.

B. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.

4. MATERIALS AND EQUIPMENT REVIEW:

- A. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL SUBMIT FOR REVIEW SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL HIGHLIGHT THE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES
- B. ALL PORTIONS OF THE SHOP DRAWINGS THAT ARE INTENDED TO BE REVIEWED SHALL BE HIGHLIGHTED. ANY PORTION NOT CALLED OUT SHALL BE ASSUMED TO BE EXCLUDED FROM THE JOB.
- 5. GUARANTEE:
  - THIS CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE APPARATUS FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE INSTALLATION WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED.
- 6. COORDINATION:
  - A. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, MECHANICAL, STRUCTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT, AND IT SHALL BE HIS RESPONSIBILITY TO COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES.
- 7. AS-BUILT DRAWINGS:
  - A. THIS CONTRACTOR SHALL PREPARE COMPLETE AS-BUILT DRAWINGS OF ALL ELECTRICAL SYSTEMS AND TURN OVER TO THE ENGINEER REVISED ELECTRONIC CAD FILES.
  - B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT TO BE INSTALLED ON THIS PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE INSTRUCTIONS.
- 8. EXCAVATION:
  - A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
  - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT AND THE ESTABLISHMENT OF ALL LINES AND LEVELS REQUIRED FOR THE EXECUTION OF THE WORK.
  - C. WHEN SERVICES ARE TO BE RUN SIDE-BY- SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK.
  - D. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER.
- 9. EXTERIOR AND FOUNDATION WALLS:
  - A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW FOR CAULKING MATERIAL. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS. ALL SLEEVES SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

## 10.FLOORS:

A. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 2 INCHES ABOVE FLOOR.

## 11.CUTTING:

- A. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING".
- 12.PATCHING:
  - A. ON CONCRETE, PATCH THE OPENING WITH CONCRETE, FINISHED SMOOTH WITH ADJACENT SURFACES.
- 13. IDENTIFICATION OF SWITCHES AND APPARATUS:
  - A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED PLASTIC PLATES BLACK WITH WHITE LETTERS.
- 14. GROUNDING:
  - A. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN GROUND WIRES.
  - B. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.

## 15.CONDUIT:

- A. ALL ELECTRICAL POWER WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED.
- B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 AS MANUFACTURED BY CARLON OR APPROVED EQUAL. ALL CONDUITS SHALL BE INSTALLED WITH MINIMUM 36" INCH COVER.
- C. CONDUIT INSTALLED ABOVE GROUND EXTERIOR SHALL BE GALVANIZED RIGID STEEL AS MANUFACTURED BY THE ALLIED TUBE AND CONDUIT CORPORATION OR APPROVED EQUAL. CONDUIT SHALL BE SHERARDIZED OR HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
- D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE FLOOR.
- E. THIN WALL TUBING SHALL BE REPUBLIC "ELECTRUNITE E.M.T." OR APPROVED EQUAL. SHALL BE INSTALLED INDOORS.

F. ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE AND SHALL BE WATERTIGHT.

G. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED.

RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING Η. TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYSTEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING.

CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION: PLUG AND KEEP Ι. CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED.

CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILD- ING LINES.

18. WIRE AND CABLE:

- WIRE AND CABLE SHALL BE AMERICAN INSULATED WIRE CORP., GENERAL Α. CABLE CORP., SENATOR WIRE AND CABLE CORP. SOUTHWIRE OR APPROVED EQUAL, OF SIZES AS SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.
- B. ALL CONDUCTORS SHALL BE COPPER.
- NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH INSULATION C. AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE THHN/THWN INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION RATED FOR 90 DEGREES C. APPLICATION.

19. WIRING DEVICES:

WET-LOCATION, WEATHERPOOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R, EXTRA DUTY, RATED "WHILE-IN-USE" WEATHER-RESISTANT. DIE-CAST ALUMINUM WITH LOCKABLE COVER.

			Olsson - Civil Engineering	Missouri Certificate of Authority ##001592	1301 Burlington Street	North Kansas City, MO 64116 TEL 816.361.1177 w
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ALL W	ORK SHAL	L CONFORM TO 2018 INTERNATIONAL BUILDING CODE . E'S SUMMIT, MISSOURI.	AS ADOPTED AND AMENDED BY	11.	MASONRY A. MASONRY UNIT COM	1PRESSI
DESIG A.	N LOADS	L BUILDING CLASSIFICATIONS			B. LINTELS SHALL BE ST OPENINGS LESS THA	TEEL BE
	1. 2.	RISK CATEGORY SNOW IMPORTANCE FACTOR, Is	III 1.10		EXTENDING PAST OP	PENINGS
	3. 4.	ICE IMPORTANCE FACTOR - WIND, Iw SEISMIC IMPORTANCE FACTOR, Ia	1.00		D. PLACE A BOND BEAM	1 WITH/
В.	SLAB ON	I GRADE FLOOR LOADS	100 DCF		E. REINFORCE 8" CMU \	
	2.	CONCENTRATED LOAD	3000 LB ACTING ON AN AREA		OF WINDOWS AND D	DOORS
C.	ROOF D	EAD AND LIVE LOADS	4.5 IN. DT 4.5 IN.	12.	COLD-FORMED STEEL	
	1. 2.	DEAD LOAD TOP CHORD DEAD LOAD BOT. CHORD	20 PSF 5 PSF		A. ALL LIGHT GAGE MET ERECTED IN ACCORD	
	3. 4.	LIVE LOAD TOP CHORD LIVE LOAD BOT. CHORD	20 PSF 0 PSF (U.N.O)		STRUCTURAL MEMBE MANUAL). DESIGN TO	ERS) (Al O BE PR
D.	ROOF SI 1.	NOW LOADS GROUND SNOW LOAD, Pg	20 PSF		ENGINEER IN THE ST B. ALL LIGHT GAGE MET	TATE OF
	2. 3.	FLAT ROOF SNOW LOAD, Pf SNOW EXPOSURE FACTOR, Ce	15.4 PSF 1.00		WITH THE STEEL STU C. ALL STRUCTURAL ME	ud man Embers
	4. 5.	THERMAL FACTOR, Ct SLOPE FACTOR, Cs	1.00 1.00		MEETING THE REQUI YIELD STRESS OF 33	IREMEN 3 KSI UN
F.	6. WIND I (	DRIFTING	PER CODE		D. WELDING SHALL BE I WELDING CODE, SHE	DONE I
	1.	BASIC WIND SPEED (3 SECOND GUST)	120 MPH		E. SUGGESTED WELD M	1ETAL A
	2. 3.	INTERNAL PRESSURE COEFFICIENT, GCpi	+/- 0.18		GASLESS M16.	
F.	SEISMIC	COMPONENTS AND CLADDING PER ASCE 7-10.	0.100		OF THE THINNEST C	ONNEC
	1. 2.	S <sub>5</sub> S <sub>1</sub>	0.100		G. WEB STIFFENERS FO	CENTRA
	3. 4.	SITE CLASS S <sub>DS</sub>	C 0.087		H. SEQUENCING OF WE	LDS SHANN THRO
	5. 6.	S <sub>D1</sub> SEISMIC DESIGN CATEGORY	0.068 B		I. ALL FRAMING COMPO MEMBERS OR AS REC	ONENTS QUIRED
	7.	SEISMIC FORCE RESISTING SYSTEM	STEEL ORDINARY MOMENT FRAMES; ORDINARY		J. BE HELD POSITIVELY J. NO SPLICES IN STUD	í IN PLA DS, JOIS
			REINFORCED MASONRY SHEAR WALLS		PRIOR ENGINEERING K. TOP AND BOTTOM T	G REVIE
	8. 9.	DESIGN BASE SHEAR DESIGN RESPONSE COEFFICIENT, Cs	CsW 0.054		L. INSTALL CONTINUOU DISTANCE) NOT TO E	JS HORI
	10. 11	RESPONSE MODIFICATION COEFFICIENT, R	3.5; 2 FOLITVALENT LATERAL FORCE	13.	STRUCTURAL STEEL	FFL SH
G			(ELF) PROCEDURE			ATION
	1. 2	60-MIN DURATION/100 YEAR RAIN INTENSITY, i	3.91 IN/HR		B. ALL STRUCTURAL ST	
	Z. RACTOR SI	HALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR T	O FABRICATION.		OTHERWISE, ALL AND OTHERWISE, ALL REC	GLES, P CTANGU
- DIS NGIN	NEER OF RE	ES EXIST BETWEEN CONTRACT DRAWINGS, AND/OR SH ECORD.			C. ALL BOLTS SHALL BE ALL CONNECTIONS S	: 3/4" Ø SHALL H
HE C TEMS	ONTRACTO	OK SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIP	LINES FOR PERTINENT MISC. ORDINATE AS REQUIRED.		ONLY. D. ALL STRUCTURAL ST	EEL WE
HE B ERM	UILDING I: ANENT BRA	S NOT STRUCTURALLY STABLE UNTIL ALL CONNECTION: ACING, AND EXTERIOR LOAD-BEARING WALLS ARE COM	5, FRAMING, SHEAR WALLS, PLETE AND HAVE ACHIEVED		QUALIFIED WELDER E. SHOP WELDED AND I	AND SH FIELD B
THEIR STRU(	RESPECTI	IVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESP ABILITY DURING ERECTION AND CONSTRUCTION. TEMP	ONSIBLE FOR MAINTAINING PORARY BRACING SYSTEMS ARE		OTHERWISE. F. ALL STEEL EXPOSED	TO THE
NOT T PROVI		OVED UNTIL STRUCTURAL WORK IS COMPLETE. JATE SHORING DURING CONSTRUCTION TO RESIST FOR	CES SUCH AS WIND AND		GALVANIZED AND PA G. THE CONTRACTOR S	AINTED
JNBAI Days	LANCED LC	DADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL	CONCRETE HAS CURED 14		MISC. STEEL AS SHO (STABILIZATION) AR	
FOUNI	DATIONS FOUNDA	TIONS ARE DESIGNED TO BEAR ON 2000 PSE FOR STRI	P FOOTINGS ON SOIL AND 2400	14.	FOR ADDITIONAL MI	ISC. STE
2	PSF FOR	SPREAD FOOTINGS ON SOIL.		11.	A. END SUPPORT AND E	
<b>.</b>	PREPAR	ED BY ALPHA-OMEGA GEOTECH, INC.			SHOWN BEL	
С.	WITHIN	THE FOOTPRINT OF THE NEW BUILDING.	ATIONS THAT ARE LOCATED		a. K SE b. LH S	SERIES
D.	CONTRA VARIAN	CTOR SHALL NOTIFY ENGINEER OF ANY UNUSUAL SOIL CE WITH THE GEOTECHNICAL REPORT OR WHEN DIFFE	CONDITIONS THAT ARE IN RENT BEARING MATERIAL IS		2. PROVIDE FLA OTHERWISE	AT BEAR ON TH
ONC	EVIDEN <sup>-</sup> RETE	T AND THERE IS A QUESTION OF BEARING CAPACITY.			END OF SLOI B. DESIGN	PED JO
Α.	CAST-IN AMERIC	I-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO AN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 3	D LATEST APPLICABLE 06, 315, 318, AND 347 UNLESS		1. ALL JOISTS A THE SJI TAB	and Joi Sles As
В.	NOTED ( ALL CON	OTHERWISE IN THESE CONTRACT DOCUMENTS. ICRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A	28 DAY COMPRESSIVE		JOIST GIRDE PATTERNS A	ERS SHA
	STRENG	TH AND HAVE MAXIMUM DRY SHRINKAGE PER ASTM C1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS:	57 AS FOLLOWS: 4000 PSI (DS MAX 0.05%)		2. STEEL JOIST DESIGNED B	S, JOIS
	2.	SLAB ON GRADE: REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CO	4000 PSI (DS MAX 0.05%)		DRAWINGS.	FRS SHA
2.	SLABS-C	N-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STR	ENGTH.	15		WN ON
D.	CONCRE	TE MIXES WITH A MINIMUM AMOUNT OF WATER IN OR	DER TO LIMIT PLASTIC	15.	A. POST INSTALLED AND DRAWINGS IF CAST	
	WORKA	BILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDI	TION OF WATER-REDUCING		OMITTED, CONTRAC	TOR MU
	CHEMIC	AL ADMIXTURES. TE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMI	XTURES.		B. EMBEDMENT DEPTH	SHALL
	CONCRE FIELD. C	TE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATT	145) AS DELIVERED IN THE AIN A MAXIMUM SLUMP OF 8"		BEARING BASE MATE BEEN DRIVEN INTO T	THE HO
	For Wo	RKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIEL 6H THE USE OF AN EXTERNAL MEASURING DEVICE (I.E.	D IS SHALL BE ADDED 5 GALLON BUCKET).		C. OBSERVATION AND V INSTALLATION IS RE	VERIFIC QUIRE
5.	CONCRE CONTAI	TE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR N 6% (+/- 1%) ENTRAINED AIR BY VOLUME.	DEICING CHEMICAL SHALL		D. EQUIVALENT ANCHO THE CONTRACTOR'S	RS MAY
1.	CHAMFE ALL CON	R ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" U ITROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL B	NLESS NOTED OTHERWISE. E CUT TO 1/3 OF DEPTH WHEN		INTERNATIONAL CON OF THE PROJECT.	NFEREN
	USING V PROCES	VET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING S. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS U	G EARLY-ENTRY DRY-CUT ISED AFTER CONCRETE HAS	16.	A. THE CONTRACT STRUCTURAL ENGINEER SITE	E OBSEF
].	BEEN PL CUT SLA	ACED WITHOUT DISLODGING AGGREGATE, OR USE A KI BS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SO	EYED COLD JOINT. UARE FEET MAINTAINING AS		EXCEPT WHERE SPEC CONSTRUCTION. THE	CIFICAL E CONT
	CLOSE T	O SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RA	TIOS OF JOINTED PANELS SHALL		BE SOLELY RESPONS	
Κ.		DL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. M			B. THE ENGINEER SHAL	
	CONCEA	LED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS AT CONTRACTORS OF A CONTRACTORS	NTS MAY BE PLACED IN LIEU OF		SEQUENCES, FOR SA	FETY PI
	JOINTS	JE JOINTS AT CONTRACTOR'S DISCRETION. COORDINAT WITH ARCHITECT.			WORK, FOR THE ACT OTHER PERSONS PER	S UK O RFORMI
L.	PRIOR T CONTRA	O PLACING CONCRETE IN ANY LOCATION, IT IS THE RE COR TO HAVE THOROUGHLY CHECKED AND COORDIN	SPONSIBILITY OF THE GENERAL ATED ALL DIMENSIONS,		CARRY OUT THE WO C. PERIODIC SITE OBSE	KK IN A ERVATI(
	ELEVATI	ONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST. IT S	ON ANY CONTRACT DRAWINGS. HALL BE THE CONTRACTOR'S		Solely for the pup proceeding in Acc	rpose ( Cordan
	RESPON ACTION	SIBILITY TO CONTACT THE ARCHITECT OR ENGINEER F	OR NECESSARY CORRECTIVE		LIMITED SITE OBSER CONTINUOUS TO CH	₹VATION
М.	EMBEDD	DED ITEMS ARE TO BE FURNISHED AND INSTALLED BY T	HE CONTRACTOR PRIOR TO		AN EFFORT TO GUAR THE CONTRACTOR	≀D THE
N. O	ANCHOR	R RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE V	VITH A RIGID TEMPLATE	17.		S מאם כ
U.	CONSTR	UCTED WITHOUT THE APPROVAL OF THE ARCHITECT A	ND ENGINEER.			ک میں د TO SU ج
reinf A.	OKCING S	NFORCING SHALL BE ASTM A615 GRADE 60, EXCEPT WE	LDED REINFORCING WHICH			
	shall B All Wel	E ASTM A706 GRADE 60. DED WIRE FABRIC SHALL BE ASTM A82 COLD DRAWN V	VIRE.		DESIGN DRAWINGS, DRAWINGS.	QUANT
C.	ALL ACC COATED	ESSORIES FOR SUPPORTING REINFORCING SHALL BE G	ALVANIZED OR HAVE PLASTIC-		B. ALL SHOP DRAWINGS THESE CONTRACT DO	s must ocume
D.	Provid To hor	E CORNER BARS AT THE EXTERIOR FACE OF ALL WALL A IZONTAL BARS.	ND FOOTING CORNERS EQUAL		C. SUBMIT SHOP DRAW DETAIL DRAWINGS A	'INGS D ARE TO
E.	REINFO	RCING SHALL BE DETAILED, FABRICATED, PLACE, AND S CI 315, LATEST APPLICABLE EDITION.	UPPORTED IN ACCORDANCE		PROFESSIONAL ENGI 1. STRUCTURAI	(NEER I L STEEI
F.	STANDA 1	RD COVERAGE OF REINFORCING SHALL BE AS FOLLOWS	S UNLESS NOTED OTHERWISE.		2. COLD-FORMI 3. STEFL BAR 1	ED MET
		A. CAST AGAINST EARTH B. IN CONTACT WITH WATED	3" 3"		D. CONTRACTOR SHALL	SUBMI
	r	C. FORMED	2"		2. CONCRETE R	REINFO
	۷.	A. SLABS AND WALLS	3/4"		4. STRUCTURAL	LINFUK L STEEL
G.	SPLICE I	D. BEAMS AND COLUMNS	1 1/2		5. STEEL DECKI 6. COLD-FORMI	ED MET
	1.	3000 PSI CONCRETE A. NON-COATED	55 db (BAR DIAMETER)		7. STEEL BAR J E. PROVIDE A FINAL, "F	ioists / For coi
	2.	B. EPOXY COATED 4000 PSI CONCRETE	83 db	18.	RECORD PRIOR TO F SPECIAL INSPECTIONS	ABRICA
		A. NON-COATED B. EPOXY COATED	48 db 72 db		A. THE FOLLOWING MIN BUILDING CODE	NIMUM
	3.	5000 PSI CONCRETE	~ 43 db		1. CONCRETE P	
		B. EPOXY COATED	64 db		3. STEEL BOLTI	
		AND NOTED ON THE CONTRACT DRAWINGS OR PERMIT	TED BY THE ENGINEER OF		4.STEEL WELD5.BOLTS EMBE	טאוני EDDED 1
н.	SHOWN				b. MASONRY	
н. I.	SHOWN RECORD ALL REII	NFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATE	S AND ANCHOR RODS SHALL BE			US
H. I.	SHOWN RECORD ALL REII ACCURA BEFORE	,. NFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATE TELY PLACED, ADEQUATELY SUPPORTED, AND SECURED CONCRETE IS PLACED. NEITHER REINFORCEMENT NOR	S AND ANCHOR RODS SHALL BE AGAINST DISPLACEMENT EMBEDDED ITEMS SHALL BE		8. ROOF DIAPH 9. SOIL VERIFIC	IRAGM / CATION
H. I.	REINFOI SHOWN RECORD ALL REII ACCURA BEFORE PLACED	, NFORCEMENT AND EMBEDDED ITEMS INCLUDING PLATE TELY PLACED, ADEQUATELY SUPPORTED, AND SECURED CONCRETE IS PLACED. NEITHER REINFORCEMENT NOR INTO FRESHLY PLACED CONCRETE UNLESS APPROVED I	IS AND ANCHOR RODS SHALL BE AGAINST DISPLACEMENT EMBEDDED ITEMS SHALL BE BY THE ENGINEER OF RECORD.		8. ROOF DIAPH 9. SOIL VERIFIC 10. STEEL FRAM B. THE CONTRACTOR SU	ids Iragm / Cation Ie Thall Ri

E STRENGTH (f'm) = 1500 PSI. MORTAR - TYPE S.	SCHEDULE OF MINIMUM SPECIAL INSPECTIONS		
MS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. /IDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS		INSPECTION	FREQUENCY
LS AND CELLS BELOW GRADE SOLID. 2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C.		CONTINUOUS	PERIODIC
ITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24"	REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION		
THERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS ITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0". ON WALLS TO THE UNDERSIDE OF DECK	1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
IING AND CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND	<ul> <li>A. IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.</li> <li>B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.</li> </ul>	-	X X
ITH AISI (SPECIFICATION FOR THE SIGN OF COLD FORMED STEEL D NAAMM ML/SFA540 LIGHTWEIGHT STEEL FRAMING SYSTEMS	2. INSPECTION OF HIGH-STRENGTH BOLTING: (INSPECTION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS)		X
PARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL KANSAS.	<ul> <li>A. SNUG-TIGHT JOINTS.</li> <li>B. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING THE TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT DIRECT TENSION INDICATOR</li> </ul>	-	X X
FACTURERS ASSOCIATION (SSMA).	METHODS OF INSTALLATION.	×	
S OF ASTM A-655 STEEL MATERIAL AND SHALL HAVE A MINIMUM ESS NOTED OTHERWISE.	CALIBRATED WRENCH METHODS OF INSTALLATION.		
ACCORDANCE WITH AWS D1.3 - LATEST EDITION, STRUCTURAL L.	3.       MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:         A.       FOR STRUCTURAL STEEL, INDENTIFICATION MARKING TO CONFORM TO AISC 360.	-	X
HODS FOR FIELD WELDING, 1/8" E70XX ELECTRODE-SMAW OR	B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
CKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS D PART UNLESS NOTED OTHERWISE	4.       MATERICAL VERIFICATION OF WELD FILLER MATERIALS:	-	X
IOISTS SHALL BE PROVIDED AT ALL REACTION POINTS, IED LOADS, AND WHERE INDICATED ON THE DRAWINGS.	A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X
L BE SO AS TO AVOID DISTORTION OF MEMBERS. REPLACE ALL GH DURING WELDING. SHALL BE CUT SOUARELY FOR ATTACHMENT TO PERPENDICULAR	5. INSTRECTION OF WELDING: (WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1)(IN COOPERATION WITH OWNER'S TESTING LAB)	-	X
E UNTIL PROPERLY FASTENED.	A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
S, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT AND SPECIFIC DETAILS FOR ANY SUCH SPLICE.	1.       COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.         2.       MULTIPASS FILLET WELDS.	X X	-
D MATCH GAGE OF STUD UNLESS NOTED OTHERWISE. ONTAL BRIDGING IN STUD SYSTEM, SPACED (VERTICAL	3. SINGLE-PASS FILLET WELDS > 5/16.	X	-
L BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE	4.PLUG AND SLOT WELDS.5.SINGLE PASS FILLET WELDS $\leq 5/16$ .	X -	- X
DR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION D PRACTICE.	6. FLOOR AND ROOF DECK WELDS.	-	X
WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED ATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED	B.       REINFORCING STEEL:         1.       VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X
AR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B. -325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. //E.A.MINIMUM OF (2) 2/4" & POLTS, READING TYPE CONNECTIONS	2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY	X	
DS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A	3.       SHEAR REINFORCEMENT.	x	-
LL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S. LTED CONNECTIONS ARE PREFERRED UNLESS NOTED	4. OTHER REINFORCING STEEL.	-	X
EXTERIOR, EXHIBITS, POOLS, AND LSS AREAS SHALL BE HOT-DIP	6.       INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:         A.       DETAILS SUCH AS BRACING AND STIFFENING.	-	X
ER ARCHITECT UNLESS NOTED OTHERWISE. DVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER HESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT.	B. MEMBER LOCATIONS.	-	X
ID THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS L DETAILS.	C.       APPLICATION OF JOINT DETAILS AT EACH CONNECTION.         7.       INSPECTION OF COLD-FORMED STEEL TRUSSES SPANNING 60 FT OR GREATER:	-	X
RS HORAGE	A. VERIFY TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	X
DEPTH OF BEARING FOR ALL JOISTS AND JOIST GIRDERS AS SS NOTED OTHERWISE ON THESE DRAWINGS	REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION		
-2 1/2 -5" NG FOR ALL JOISTS AND JOIST GIRDERS, UNLESS NOTED	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT. VERIFY GRADE, SIZE, QUANTITY, AND SPACING OF REINFORCING BARS FOR COMPLIANCE WITH CONTRACT DOCUMENTS AS WELL AS APPROVED SHOP DRAWINGS. REPORT ANY NOTED CONFLICT REFORE	X	-
SE DRAWINGS. INCREASE THE DEPTH OF THE SEAT ON THE HIGH TS AS REQUIRED TO PROVIDE CLEARANCE FOR THE CONNECTION.	CONCRETE IS POURED SO THAT CORRECTIONS MAY BE MADE. (INSPECTION MAY BE PERIODIC BUT ALL REBAR TO BE INSPECTED).		
T GIRDERS SHALL CARRY THE DESIGN LOADS AS SPECIFIED IN	2. INSPECTION OF RELIN ORCING STELE WELDING IN ACCORDANCE WITH TABLE 1703.5 (REQUIRED VERIFICATION AND INSPECTION OF STELE CONSTRUCTION, INSPECTION OF WELDING, REINFORCING STEEL).		
L BE DESIGNED TO CARRY ANY OTHER LOAD TYPES AND TED ON THESE DRAWINGS.	3. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	-
GIRDERS, BRIDGING, AND THEIR CONNECTIONS SHALL BE ANUFACTURER FOR A NET UPLIFT AS INDICATED ON THESE	<ol> <li>INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.</li> <li>VERIFYING USE OF REQUIRED DESIGN MIX.</li> </ol>	X X	-
L BE DESIGNED BY THE MANUFACTURER FOR THE CONCENTRATED	<ul> <li>AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND</li> <li>DETERMINE THE TEMPEDATURE OF THE CONCRETE</li> </ul>	X	
TESE DRAWINGS.	7.       INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	-
E ANCHOR IS DETERMINED TO BE OUT OF TOLERANCE OR T GENERATE A REQUEST FOR INFORMATION IN REGARDS TO THE	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X
E DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-	A.     APPLICATION OF PRESTRESSING FORCES.	-	X
THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS E. TION OF EMPERATION OF CLEANING, DEPTH, AND ANGLOD	B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	-	X
FOR ALL EPOXY ANCHORS. BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE	10.       ERECTION OF PRECAST CONCRETE MEMBERS.         11.       VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONRETE AND PRIOR TO REMOVAL OF SHORES	-	X X
SIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE E OF BUILDING OFFICIALS, CURRENT WITH THE REQUIREMENTS	AND FORMS FROM BEAMS AND STRUCTURAL SLABS.         12.       INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	-	X
ATIONS	REQUIRED VERIFICATION AND INSPECTION OF SOILS (IN COOPERATION WITH OWNERS' GEOTECHNICAL TESTING AGENCY)		
CRAWINGS REPRESENT THE FINISHED STRUCTURE AND, (SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF ACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, ES.	<ol> <li>VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.</li> <li>PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.</li> </ol>	-	X X
AVE CONTROL NOR CHARGE OF, AND SHALL NOT BE CTION MEANS, METHODS, PROCEDURES, TECHNIQUES, OR	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
ECAUTIONS AND PROGRAMS IN CONNECTION WITH THE ISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR AN G ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		
CORDANCE WITH THE CONTRACT DOCUMENTS. N BY FIELD REPRESENTATIVES OF LEIGH & O'KANE L.L.C. IS	1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	x	
E DETERMINING IF THE WORK OF THE CONTRACTOR IS E WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS	2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CARACITY, RECORD CONCRETE OR GROUT VOLUMES	X	-
SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR QUALITY OR QUANTITY OF WORK, BUT RATHER PERIODIC IN	3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH THE REQUIRED VERIFICATION AND INSPECTION OF CONCRETE	-	X
WNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF	CONSTRUCTION NOTED ABOVE.		
IBMITTALS MUST BE REVIEWED AND APPROVED BY THE MITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO	1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS.	-	X
FORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF S. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE	2. VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION AND FOR EVERY 5000 SQUARE FEET DURING CONSTRUCTION.	-	X
TES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP	<ol> <li>VERIFICATION OF PROPORTIONS OF MATERIALS IS PREMIXED OR PREBLEDED MORAR AND GROUT AS DELIVERED TO THE SITE.</li> <li>VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERD TO THE SITE FOR SELF-CONSOLIDATION GROUT.</li> </ol>	- X	X
TAILING FABRICATION OF EACH MEMBER AND ITS CONNECTIONS.	5. THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
E PREPARED UNDER THE SUPERVISION OF A LICENSED THE STATE OF MISSOURI FOR THE FOLLOWING ITEMS.	<ul> <li>A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING FOR BONDED TENDONS.</li> <li>B. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORAR JOINTS.</li> </ul>	-	X X
CONNECTIONS L FRAMING	C. PLACEMENT OF REINFORCEMENT CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	-	X
אנטי עונטי עוגעאנאאנא אראינא אראיט אראיט אראט אונעעראא STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING ITEMS. SN AND MATERIALS	D.       GROUT SPACE PRIOR TO PLACEMENT.         E.       PLACEMENT OF GROUT.	X X	-
CING STEEL	F. PLACEMENT OF PRESTRESSING GROUT.	X	
	G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS. FRAMES OR	-	X
L FRAMING ND JOIST GIRDERS			~
ION OR CONSTRUCTION OF THOSE ITEMS.	I.       SPECIFIED SIZE, GRADE AND I TPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES.         J.       WELDING OF REINFORCING BARS.	X	
EMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE	K. PREPARATION OF ANY REQUIRED GROUT SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	- -	X
CING		X	

IN CONCRETE / POST-INSTALLED ANCHORS

M ATTACHMENT

REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR ING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF

PL	N SYMBOL KEY				
F? = FOOTING TYPE (RE	FER TO FOOTING SCHEDULE)				
C? = COLUMN TYPE (REFER TO COLUMN SCHEDULE)					
(W?) = WOOD WALL TYPE	(REFER TO WOOD WALL SCHEDULE)				
SW? = SHEAR WALL TYPE	(REFER TO WOOD WALL SCHEDULE)				
W? = CONCRETE WALL T	YPE (REFER TO CONCRETE WALL SCHEDULE)				
MW? = MASONRY WALL T	PE (REFER TO MASONRY WALL SCHEDULE)				
SHEAR WALL HOLD	OWN				
MOMENT FRAME C	ONNECTION				
	NECTION				
	WALL TYPE KEY				
	= LOAD BEARING WALL				
	= NON-LOAD BEARING WALL				
	= SHEAR WALL				
	HATCH PATTERN KEY				
	= CONCRETE IN SECTION				
	= EARTH IN SECTION				
	= EPOXY IN SECTION				
	= EXISTING IN PLAN AND SECTION				
	= GRANULAR FILL IN SECTION				
	= GRATING IN PLAN AND SECTION				
	= GROUT IN SECTION				
	= INSULATION IN SECTION				
	= PLYWOOD IN SECTION				
	= SNOW DRIFT LOADING IN PLAN				

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= STEEL IN SECTION

= TOPPING IN SECTION

= WOOD END GRAIN IN SECTION

= WOOD FACE GRAIN IN SECTION

U.N.O. VERT. W/ W/O



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FOUNDATION PLAN NOTES

- TOP OF CONCRETE SLAB ELEVATION = 100'-0". 4" SLAB ON GRADE TO BE REINFORCED WITH #4 @ 16" O.C. OVER 4" GRANULAR FILL AND 15 MIL VAPOR BARRIER, UNLESS NOTED OTHERWISE. PROVIDE APPROPRIATE HEIGHT CHAIRS AT 48" O.C. MAX. CONTINUOUS UNDER REINFORCING TO PLACE REINFORCING 1 1/2" FROM TOP OF SLAB. VERIFY ALL LOCATIONS OF THICKENED SLAB AREAS PRIOR TO POURING CONCRETE.
- PROVIDE #4 X 5'-0" LONG AT ALL RE-ENTRANT CORNERS.
- REFER TO SHEET S-301 & S-302 FOR TYPICAL DETAILS.

				ISOLA	TED	FOOTING S	CHEDULE			
CALLOUT	COUNT	LENGT	н	WIDT	Н	THICKNESS		REINFO	ORCING	
F1	2	3'-0"		3'-0"		3'-0"	(4) #	8 EACH WAY	TOP AND BOTTO	М
F2	2	4'-0"		4'-0"		3'-0"	(5) #	8 EACH WAY	TOP AND BOTTO	М
F3	2	5'-0"		5'-0"		1'-4"	(6) #	6 EACH WAY	TOP AND BOTTO	М
F4	1	5'-0"	-0" 5'-0"			3'-0"	(6) #	8 EACH WAY	TOP AND BOTTO	М
F5	2	6'-0"	6'-0"			1'-4"	(7) #6 EACH WAY TO		TOP AND BOTTO	М
F6	8	7'-0"		7'-0"		1'-4"	(8) #6 EACH WAY TOP AND BOTTOM			М
PC1	12	5'-0"		5'-0"		5'-0"	(6) #8 EACH WAY TOP AND BOTTOM			М
STE	EL COLUMN	SCHED	ULE				DR		<b>SCHEDULE</b>	
CALLOUT	SIZE		CC	DUNT					REINF	ORCING
C1	HSS4X4>	<b>K</b> 3/8		4		CALLOUT	COUNT	SIZE	VERTICAL	TIES
C2	HSS4-1/2X4-	·1/2X3/8		2		DS1	12	4'-0" Ø	(16) #10	#3 @ 12" O.
C3	HSS6X6X	K3/8		1						
C4	HSS6X6X	K5/8		2						





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S-106







REFER TO SHEET S-301 & S-302 FOR TYPICAL DETAILS. COORDINATE ALL ROOF AND WALL PENETRATIONS WITH ALL OTHER DISCIPLINES. 9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS. 10.

REFER TO PLAN FOR TOP OF STEEL ELEVATIONS AND SLOPING INFORMATION.

OF 15.4 PSF. BALANCED SNOW PER GENERAL NOTES.

## **ROOF FRAMING PLAN NOTES**

UPPER ROOF DECK TO BE 2.0DA 20 GAGE ACOUSTICAL DOVETAIL METAL ROOF DECK. ATTACH TO

ROOF EDGE ANGLE SHOWN IN SECTIONS TO BE CONTINUOUS AROUND PERIMETER OF ROOF.

ROOF JOISTS TO BE DESIGNED FOR 10 PSF UPLIFT INTERIOR, NET 10 PSF EDGE, AND NET 10 PSF

SCREWS BETWEEN SUPPORTS.

4

5.

6.

8.

CORNER.

WITH MECHANICAL.

SUPPORTING STEEL IN A 24.5/4 PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (5) #10 TEK

LOWER ROOF DECK TO BE 1.5B 20 GAGE METAL ROOF DECK. ATTACH TO SUPPORTING STEEL IN A 36/5 PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (2) #10 TEK SCREWS BETWEEN SUPPORTS.

ROOF JOISTS TO BE DESIGNED FOR MAXIMUM SNOW DRIFT OF 42 PSF AT PARAPET WITH A BASE SNOW

AT A JOIST PANEL POINT. PROVIDE REINFORCEMENT PER TYPICAL DETAIL. COORDINATE LOCATIONS

STEEL AND JOIST FABRICATOR RESPONSIBLE FOR ANY POINT LOADS IN EXCESS OF 100# NOT OCCURING

TYP. PER E1/S-322

-HSS4X4X1/4 COLUMN FROM LOWER TO UPPER TYP. PER E3/S-322 SPACE @ 8'-0" O.C. MAX ALONG PERIMETER







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**ROOF FRAMING PLAN NOTES** 

SUPPORTING STEEL IN A 24.5/4 PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (5) #10 TEK SCREWS BETWEEN SUPPORTS. LOWER ROOF DECK TO BE 1.5B 20 GAGE METAL ROOF DECK. ATTACH TO SUPPORTING STEEL IN A 36/5

PATTERN WITH #12 TEK SCREWS AND AT SIDELAPS WITH (2) #10 TEK SCREWS BETWEEN SUPPORTS.

1. UPPER ROOF DECK TO BE 2.0DA 20 GAGE ACOUSTICAL DOVETAIL METAL ROOF DECK. ATTACH TO

ROOF EDGE ANGLE SHOWN IN SECTIONS TO BE CONTINUOUS AROUND PERIMETER OF ROOF.

ROOF JOISTS TO BE DESIGNED FOR 10 PSF UPLIFT INTERIOR, NET 10 PSF EDGE, AND NET 10 PSF

REFER TO PLAN FOR TOP OF STEEL ELEVATIONS AND SLOPING INFORMATION.

2.

4.

5.





























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BASE PLATE TO BE

USED AT 2-B & 2-D.

-W10X45 COLUMN

<sup>7</sup>3/16↓

3/16

<u>TYPICAL HSS4-1/2X4-1/2</u>











-3/4" THICK STEEL PLATE

-(4) 3/4" ANCHOR RODS W/ 12" EMBED.

-(4) 3/4" ANCHOR RODS W/ 12" EMBED. -3/4" THICK STEEL PLATE



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CEILING JOIST PER PLAN

S-31	6
CEILING FRA SECTION	MING IS
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18225R21006

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TERMS	AND ABE
ABBREVIATION	
3V / ABV. FF / A.F.F.	ABOVE ABOVE FINISH FLOOF
CS PNL	ACCESS PANEL
DJ / A.C. I. DJ / ADJ.	ACOUSTICAL CEILING ADJACENT
C / A.C.	AIR CONDITIONING
LUM / ALUM.	ALUMINUM
A DA	AMERICAN INSTITUTE
NOD / ANOD.	
PPROX / APPROX. RCH / ARCH.	APPROXIMATE ARCHITECT (URAL)
/G / AVG.	AVERAGE
SMT / BSMT.	BASEMENT
ATH	BATHROOM
LW / BLW.	BELOW
rwn / Btwn.	BETWEEN
LKG / BLKG.	BLOCKING
D / BD. O.	BOARD BOTTOM OF
DG / BLDG.	
M / B.I.M.	
P/CIP	CAST IN PLACE
_K	CAULK (ING)
_G _ / C.L.	CEILING CENTER LINE
C	CENTER TO CENTER
_R	CLEAR (ANCE)
	CLOSET
ONC / CONC.	CONCRETE
MU / C.M.U.	CONCRETE MASONR
J / C.J.	CONSTRUCTION JOIN
ONT / CONT.	CONTINUE (CONTINU
G / C.G.	CORNER GUARD
DRR / CORR.	
J YD	CUBIC YARD
EMO / DEMO.	DEMOLTION
TL / DTL.	
M / DIM.	DIMENSION
N / D.W. BL / DBI	DISH WASHER
N	DOWN
S / D.S. NG / DWG.	DOWNSPOUT DRAWING (S)
-/ D.F.	DRINKING FOUNTAIN
A / EA.	EACH
.EC / ELEC. .EV / ELEV.	ELECTRIC (AL)
Q / EQ.	EQUAL
PDM	ETHYLENE PROPYLEI
KIST / EXIST.	EXISTING
J/E.J.	EXPANSION JOINT
KT / EXT.	
AB / FAB.	FABRICATE / FABRICA
DW / F.O.W.	FACE OF WALL
RP / F.R.P.	FIBERGLASS REINFO
/ / F.V. N / FIN	FIELD VERIFY
-/F.F.	FINISH FLOOR
DC / F.D.C. E / F.E.	FIRE DEPARTMENT C
EC / F.E.C.	FIRE EXTINGUISHER
1 / F.H. RT / F.R.T.	FIRE RETARDANT TR
CO / F.C.O.	FLOOR CLEAN OUT
Г / FT. / (')	FOOT
R/F.R.	FRAME (D) (ING) / FIR
0. JRN / FURN.	FRONT OF / FACE OF
A / GA.	GAGE / GAUGE
ALV / GALV.	
EN / GEN.	GENERAL CONTRACT
_Z	
B / G.B.	GRAB BAR
SF / G.S.F	GROSS SQUARE FEE
WB / G.W.B. / GYP.	GYPSUM WALL BOAR
).	
N / H W	
DWD	HARDWOOD
	HEADER
Γ	HEIGHT
C / H.C.	HOLLOW CORE / HAN
ORIZ / HORIZ.	HORIZONTAL
K YD / HYD.	HOUR HYDRANT
/ I.D.	IDENTIFICATION / INS
/ IN. / (")	
30L / INSUL. T / INT.	INTERIOR
C / I.B.C.	INTERNATIONAL BUIL
N / JAN.	JANITORS CLOSET
ST / JST.	JOIST
M/LAM.	LAMINATE (D)
/L / L.V.L. \V / LAV.	LAMINATED VENEER
1/L.H.	LEFT-HAND
IK / L.H.R.	LEFT-HAND REVERSE
KR / LKR.	LOCKER

TERMINOLOGY
OOR
LING PANEL
UTE OF ARCHITECTS I DISABILITIES ACT
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## TERMS AND ABBREVIATIONS ABBREVIATION TERMINOLOGY MFD / MFD. MANUFACTURED MFR / MFR. MANUFACTURER MAS / MAS. MASONRY MATL / MATL. MATERIAL MAX / MAX. MAXIMUM MECH / MECH. MECHANICAL MDF / M.D.F. MEDIUM-DENSITY FIBERBOARD MEMB / MEMB. MEMBRANE MTL / MTL. METAL MIN / MIN. MINIMUM MIRROR MIR / MIR. MISC / MISC. MISCELLANEOUS MOD / MOD. MODULAR / MODIFY MOISTURE RESISTANT MR / M.R. MTD / MTD. MOUNTED NFPA / N.F.P.A. NATIONAL FIRE PREVENTION ASSOCIATION NRC / N.R.C. NOISE REDUCTION COEFFICIENT NOMINAL NOM / NOM. NA / N/A / N.A. NOT APPLICABLE NIC / N.I.C. NOT IN CONTRACT NTS / N.T.S. NOT TO SCALE NO / NO. NUMBER 0000/0000. OCCUPANT (S) OSFM / O.S.F.M. OFFICE OF STATE MARSHALL OC / O.C. ON CENTER (S) OPNG / OPNG. OPENING OPP / OPP. OPPOSITE OD / O.D. ORD / O.R.D. OUTSIDE DIAMETER (DIMENSION) OVERFLOW ROOF DRAIN OH / OVHD OVERHEAD PNT / PNT. PAINT PR/PR. PAIR / PIPE RAIL PTN / PTN. PARTITION PAVEMENT PVMT / PVMT. PERF / PERF. PERFORATED / PERFORM PERIM / PERIM. PH / P.H. PERIMETER PHASE PLBG. / PLUMB. PLUMBING PLYWD / PLYWD. PLYWOOD POLYISO / POLYISO. POLYISOCYANURATE PVC / P.V.C. POLYVINYL CHLORIDE .BS / lb / # POUNDS PCF / P.C.F. POUNDS PER CUBIC FOOT PLF / P.L.F. POUNDS PER LINEAR FOOT PSF / P.S.F. POUNDS PER SQUARE FOOT PSI / P.S.I. POUNDS PER SQUARE INCH PREFIN / PREFIN. PREFINISHED PRESSURE-TREATED PT / P.T. PROJ / PROJ. PROJECT / PROJECTOR PL/P.L. PROPERTY LINE QTY / QTY. QUANTITY REF / REF. REFERENCE / REFRIGERATOR REF / REF. REFERENCE / REINGE/REING REQMT (S) REQUIREMENT (S) RESIST / RESIST. RESISTANT REV / REV. REVISE (D) / REVISION / REVERSE RH/R.H. RIGHT HAND / ROOF HATCH RIGHT-HAND REVERSE RHR / R.H.R. RIGHT-OF-WAY ROW / R.O.W. RD / R.D. ROOF DRAIN / ROAD RTU / R.T.U. ROOF TOP UNIT RM / RM. ROOM R0 / R.O. ROUGH OPENING SANITARY SCHEDULE SAN / SAN. SCHED / SCHED. SECT / SECT. SECTION SHT / SHT. SHEET SIMILAR SIM / SIM. SC / S.C. SOLID CORE STC / S.T.C. SOUND TRANSMISSION CLASS SPEC / SPEC. SPECIFICATION SB / S.B. SPLASH BLOCK SQ / SQ. SQUARE SF / S.F. SQUARE FOOT / SUPPLY FAN SS / S.S. STAINLESS STEEL ST / ST. STAIRS STD / STD. STANDARD STL / STL. STEEL STOR / STOR. STORAGE SD / S.D. STORM DRAIN / SMOKE DETECTOR STRUC. / STRUCT. STRUCTURAL / STRUCTURE SUSP / SUSP. SUSPEND (ED) TV / TV. TELEVISION TEMP / TEMP. TEMPORARY / TEMPERATURE TERM / TERM. TERMINATE TPO / T.P.O. THERMOPLASTIC POLYOLEFIN THICK THK / THK. TLT / TLT. TOILET TONGUE AND GROOVE TOP OF TOP OF CURB (CONCRETE) TOC / T.O.C. TOS / T.O.S. TOP OF STEEL TOW / T.O.W. TOP OF WALL TJI / T.J.I. TRUSS JOIST / I-JOIST TYPICAL TYP / TYP UGND / UGND. UNDERGROUND UNDERWRITER'S LABORATORIES JL / U.L. UNLESS NOTED OTHERWISE JNO / U.N.O. VTR / V.T.R. VENT THROUGH ROOF VIF / V.I.F. VERIFY IN FIELD VERTICAL VERT / VERT. VEST / VEST. VESTIBULE WC / W.C. WATER CLOSET / WALL COVERING / WHEELCHAIR WATER HEATER / WEEP HOLE / WALL HUNG WH / W.H. WEIGHT / WINDOW TREATMENT WT / W.T. WELDED WIRE FABRIC WWF / W.W.F. WELDED WIRE MESH WWM / W.W.M. WNDW / WN WINDOW WITHOUT X, Y, & Z YD / YD. YARD

GRAPHIC	SYM	BOL	S LEGEND
FLOOR PLAN REFERENCE		<u>RS</u>	
NAME NO 150 SF	ſAG	101 101	DOOR TAG
	W TAG	ID	PARTITION TAG
SPOT E TAG	LEVATION	Ę	CENTER LINE
NORTH INDICATOR PLAN NORTH PROT TRI	OJECT NOR JE NORTH I	TH LINE .INE	
DRAWING BLOCK TITLE	//BFR		
(C4) DRA	WIN	G BL	
	VI VI	EW SCALE	
<u>Detail/Callout identif</u> Detail	TICATION NUMBER		LEVEL IDENTIFICATI
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WALL SECTION IDENTIFIC	<u>ATION</u>		Ref INTERIOR ELEVATIO
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MATERIAL	. SYN	/BOL	S LEGEND
	CONCRI CAST-IN	ete, -Place	
	BRICK/C COMMO	UT STONE N/FACE	
	CONCRI MASONI	ete Ry Unit	
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	INSULAT RIGID B	fion, Dard	
	PLASTE GYPSUN OR POR	R, /, SAND, MC TLAND CEM	RTAR ENT
///	GLASS,	ELEVATION	
	earth, Crushe Gravel	ED ROCK	
	EARTHV COMPA FILL	VORK, CTED	
	PLYWO	DO	

- TERMS AND ABBREVIATIONS SHOWN ON THIS SHEET FOLLOW INDUSTRY STANDARDS. TERMS AND ABBREVIATIONS MAY DIFFER ON DRAWING SHEETS AND SHALL FOLLOW THE ASSOCIATED SHEET LEGENDS U.N.O.
- MATERIAL SYMBOLS LEGEND SHOWN ON THIS SHEET FOLLOWS INDUSTRY STANDARDS. MATERIAL SYMBOLS MAY DIFFER ON DRAWING SHEETS AND SHALL FOLLOW THE ASSOCIATED SHEET LEGENDS U.N.O.



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LEGENDS, SYMBOLS, & ABREVIATIONS

A-001

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	CONTEXTUAL FLOOR PLAN			
C F	ONTEXT	UAL LAN		



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ARCHITECTURAL FLOOR PLAN		
A-101		









LI	NET	YPE LEGEND	)	
LIGHT THIN LINE INDICATES EXISTING ELEMENT TO RE HEAVY SOLID LINE INDICATES NEW ELEMENT HEAVY DASHED LINE INDICATES EXISTING ELEMENT T REMOVED IN ITS ENTIRETY				
	EILIN	IG PLAN LEG	END	
		GYPSUM BOARD		LIGHT FIXTURE 2x2 / 2x4
		ACOUSTICAL METAL DECK BASIS OF DESIGN: TORIS A (NRC: 0.95)	Å	LIGHT FIXTURE SUSPENDED, LII
		LONG BOARD CEILING	°	LIGHT FIXTURE CAN LIGHT (REC
1' -	· 0"	CEILING HEIGHT TAG	$\bigotimes$	EXIT SIGN CEILING MOUNT EXIT SIGN WALL MOUNTEI
×		AIR TERMINAL SUPPLY DIFFUSER		AIR TERMINAL EXHAUST GRILL
		AIR TERMINAL RETURN GRILLE		
GENERAL NOTES				
#			NOTES	
A	DIMENSIO	NS ARE TO FACE OF STUD UNLES	SS NOTED OTHERWIS	E. WHERE PARTITIC
В			NT/DEVICES AT CENTE	R OF CEILING TILES
С	C PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS AND ENDWALL CONDITIONS			WALL CONDITIONS.
ח	IN LEKICK DRAWINGS FOR MORE INFORMATION.			
E	ALL DIMEN	VSIONS ON REFLECTED CEILINGS	PLANS ARE TO FINIS	HED FACES U.N.O.









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C	REFLECT EILING P	ΓED PLAN	
4	<u>\-1′</u>	11	



ROOF LEGEND		
	AREA NOT IN SCOPE OF WORK U	
	ROOF CRICKET	
	EXPANSION JOINT LOCATION	
<b>&gt;</b>	INDICATES DIRECTION OF FLOW	
	TPO ROOF	
	STANDING SEAM METAL ROOF	

N.O.

V / ROOF SLOPE







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ROOF PLAN		







3

1/8" = 1'-0"







# NORTHWEST ELEVATION

0 5' 10'



LEVEL 1 FF 100







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EXTERIOR ELEVATIONS			
A-201			











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	6 SF6 637	SF6 6 SF6 16	SF6 C	SF6	6 6 SF6		
<b></b> 19	SF4 Ber [19					1 19	





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OUS CLEAT COPING CAP	
DESIGN NICHIHA;	
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	2
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<del>mann</del>	P
R & 4" DOWNSPOUTS.	
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EXTERIOR ELEVATIONS		
A-202		

















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BUILDING		
SECTIONS		













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WALL SECTIONS			







WALL SECTION 3

CMU MASONRY ------MODULAR BRICK -----AIR SPACE ------**RIGID INSULATION** ON VAPOR BARRIER -----EXPANSION JOINT -<u>LEVEL 1</u> FF 100 \_\_\_\_\_ FOUNDATION, CRUSHED ROCK, GRAVEL 1 A-531



MASONRY COPING W/SLOPING CAP

**T.O. MAS PARAPET** 117' - 4"

ROOF CRICKET REF ROOF PLAN -----

A-521





WALL SECTION 5







LEVEL 1 FF 100





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WALL SECTIONS			





1/4" = 1'-0"

<u></u>₩

SOUTHWEST ENLARGED RESTROOM PLAN 0 2' 4'

















ROBERT C. PRUENTE JR.

> NUMBER 20140410

- STOREFRONT PER SCHED

—( E

- FACE BRICK - WEATHER/AIR BARRIER - 2" RIGID INSUALTION

- 8" CMU BLOCK

-(D.2

 $\cdots$ - PROVIDE BACKING FOR 🕇 SINK AS REQUIRED BY Y MANUFACTURER mmm

SUMMIT MD EE'S MO S SUMMIT Ю S ဟ Ш Ш П \_  $\mathbf{O}$ 1 ADDENDUM 1 12/22/23

R K E

4

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PLAN DETAILS			



















- LATCH - CORRIGATED MTL PANEL CANE BOLT W/ HOLES AT CLOSED AND OPEN 90 DEG LOCATIONS - TYP 
















- 2x2x1/4" GALVANIZED ANGLE GATE FRAME &

GROUTED SOLID; DOME GROUT AT TOP

CANE BOLT W/ HOLES AT CLOSED AND OPEN
 90 DEG LOCATIONS - TYP

LEVEL 1 FF 100 100' - 0"

PRE FINISHED METAL CAP BRICK MODULAR BERWICK BRICK -5" SCHED 80 GLAV. STEEL POST GROUTED SOLID; DOME GROUT AT TOP CORRIGATED MTL PANEL -

# TRASH ENCLOSURE NORTH ELEVATION 0\_\_\_\_2' 4' 1/4" = 1'-0"

T.O. MASONARY 109' - 4"

LEVEL <u>1 FF 100</u> 100' - 0"

PROVIDE CLOSURE AT DOOR 

5 A-503

TRASH ENLOSURE BACK ELEVATION 5 1/4" = 1'-0" 0 2' 4'

















CLERESTORY AT BRICK PILASTER

 $1 \frac{1}{2} = 1' - 0''$ 





— 6" MTL STUD @ 16" O.C.

- R-19 BATT INSULATION

- STL BEAM AND ANGLE,

- 3 5/8" MTL STUD FRAMING

- GYP BD CEILING ON 1 1/2" FURRING CHANNELS - STL COLUMN BEYOND, - BOND BEAM LINTEL,

FURRING STRIPS - GYP BD CEILING ON 1 1/2" FURRING CHANNELS





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ROOF DETAILS								







1 1/2" = 1'-0"

# -PRESSURE TREATED (P.T.) 2X & P.T. 3/4" PLY WD PARAPET FRAMING -TRANSITION MEMBRANE OVER WOOD BLOCKING AND AIR BARRIER -PREFIN MTL CAP WITH HEMMED EDGE EACH SIDE & CONT CLEAT —BACKER ROD & SEALANT

R-30 RIGID INSULATION — STANDING SEAM CLIP -WEATHER/AIR BARRIER — STANDING SEAM ROOF PANELS COVER BOARD -FASCIA TO STANDING SEAM RIDGE CAP, PER MANUFACTURER RECOMMENDATIONS -PRESSURE/FIRE TREATED 2x -PREFINISHED MTL FASCIA AND CONT CLEAT -6" X 6" PRE-HUNG GUTTER ------2X PRESSURE TREATED PLYWD -2" ACOUSTICAL STANDING SEAM MTL ROOF, REF STRUCT STL ANGLE, REF STRUCT FRAMING JOISTS, REF STRUCT WEATHER/AIR BARRIER GYP BD SHEATHING -WEATHER/AIR BARRIER EXTERIOR LONGBOARD ON HAT FURRING CHANNELS



- 6" BOX HEADER

MOZ DESIGNS

- AIR/WEATHER BARRIER

- 1/2" EXTERIOR GYP SHEATHING

- BACKLIT LIGHTING OPTION PER

MANUFACURER: BASIS OF DESIGN

- R-19 BATT INSULATION

# - EXTERIOR PREFINISHED METAL PANEL (RAINSCREEN) ON EXTRUSION CLIPS (PER MANUFACTURER): BASIS OF DESIGN - MOZ DESIGNS (LASER

CUT BACKLIT METAL PANEL (CUSTOM DESIGN)









T.O. MAS PARAPET



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STATU	S:	PERMIT SET							
DATE:		11/01/2023							
DRAW	NBY:	<b>B.VINCENT</b>							
CHECK	ED BY:	C. PRUENTE							
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ROOF DETAILS									









PRESSURE TREATED 2X — BLOCKING DECK CLAMP-

3





PLUMBING VENT FLASHING 1 1/2" = 1'-0"











$\Delta$	DESCRIPTION	DATE						
PROJE	CT NO:	18225R21006						
STATUS	S:	PERMIT SET						
DATE:		11/01/2023						
DRAWN	IBY:	<b>B.VINCENT</b>						
CHECK	ED BY:	C. PRUENTE						
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Υ Υ	YPICAL F DETAIL	ROOF .S						

A-523





A. ...

mmmm

# 5 FOUNDATION @ STOREFRONT SILL 3" = 1'-0" 0 3" 6" 9"













WALL

















# ) STOREFRONT JAMB @ BRICK 14

	<
	<
ID APPLIED AIR	<
GYPSUM SHEATHING	<
I" MTL STUD FRAMING	$\leq$
6" MTL STUD FRAMING W/	ł
EXTERIOR BRICK RETURN TO WALL	
BACKER ROD & SEALANT @ PERIMETER EACH SIDE	-
5/8" GYPSUM BOARD RETURN	_/`
PER SCHEDULE	



(13) STOREFRONT JAMB @ BRICK 3" = 1'-0" 0 3" 6" 9"



EXTERIOR BRICK

RIGID INSULATION -

FLUID APPLIED AIR -

WEATHER BARRIER -

AIR SPACE -----

EXT

R-19

INSU

1/2"

3 5/8















مريدين





STOREFRONT SYSTEM -PER SCHEDULE







BREAK MTL @ OPENING JAMB TRIM PER FIBER CEMENT PANEL MANUFACTURER'S STANDARD DETAIL 6" MTL STUD FRAMING W/ **R-19 BATT INSULATION** LONGBOARD EXTERIOR PANEL 1/2" GYPSUM SHEATHING AIR/WEATHER BARRIER -- WRAP INSIDE OPENINGS RIGID INSULATION ------STEEL COLUMN - REF STRUCT 3/4" FURRING CHANNEL -5/8" GYPSUM BOARD ------

6



DOOR PER -

SCHEDULE

BACKER ROD & SEALANT

DOOR PER SCHEDULE -

2-1/2" MTL STUD FRAMING -W/ R-19 BATT INSULATION STEEL BEAM - REF STRUCT

PER SCHEDULE BACKER ROD & SEALANT -FIRE TREATED 2x ------BLOCKING PROVIDE MIN SLOPE TO -----BRAKE METAL FOR DRAINAGE AND PROVIDE SEALANT

WRAP AROUND HEADER

TO MATCH STOREFRONT

BUILDING SIGNAGE -

SYSTEM

STOREFRONT SYSTEM -

LONGBOARD EXTERIOR — SOFFIT PANEL 7/8" RESILIENT CHANNEL -AIR/WEATHER BARRIER TO WRAP AROUND HEADER JAMB TRIM EACH SIDE PER -PANEL MANUFACTURER'S STANDARD DETAIL - PROVIDE

SEALANT AT END

SCHEDULE

4

BACKER ROD & SEALANT ------@ PERIMETER EACH SIDE 6" MTL STUD FRAMING W/ -----BATT INSULATION



# STOREFRONT HEAD @ LONGBOARD



# STOREFRONT HEAD/SILL @ ENTRY



# STOREFRONT DOOR JAMB @ LONGBOARD



















BOND BEAM, PER STRUCT

# 16 GAUGE PASS THROUGH STAINLESS STEEL SHELF

'L' SHAPED BRACKETS







	ADDENDUM 1 DESCRIPTION	12/22/23 DATE							
PROJEC	CT NO:	18225R21006							
STATUS	:	PERMIT SET							
DATE:		11/01/2023							
DRAWN	BY:	C. GARCIA							
CHECKE	ED BY:	B. VINCENT							
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S	DOOR/ STOREFRONT DETAILS								
A-542									





	STUD SIZE	ONS AND NON-RATED PA	ARTITIONS LIMITING HEIGHT	
	2 1/2" 2 1/2"	25 22	9' - 9" 10' - 6"	
	2 1/2" 3 5/8"	20 25	11' - 6" 12' - 9"	GLMVArchitectur
	3 5/8" 3 5/8"	22 20	14' - 0" 15' - 0"	
	6" 6"	25 22	18' - 9" 20' - 9"	
	6" 8"	20 25	23' - 3" 25' - 9"	
	8" 8"	<u>22</u> 20	28' - 3" 30' - 3"	
	UNBRACED LENGTH STUD SIZE	LIMITING HEIGHT FOR NO	ON-RATED PARTITIONS	
	1 5/8"	25	9' - 8" 8' - 4"	
R	ACED LENGTH/LIMITI	NG HEIGHTS FOR INTERI	OR STUDS - 2, 3, AND 4 HOUR	
	STUD SIZE	STUD GAUGE	LIMITING HEIGHT	
	3 5/8" 3 5/8"	20 18	10' - 3" 11' - 3"	
	3 5/8" 3 5/8"	<u> </u>	12' - 3" 13' - 3"	
	4" 4"	20 18	11' - 3" 12' - 3"	OFMISSO
	4" 4"	<u> </u>	13' - 3" 14' - 3"	ROPERT C.
	6" 6"	20 18	15' - 6" 17' - 0"	TIMBER
	6" 6"	16 14	18' - 6" 19' 9"	A-2014041026
_	8" 8"	18	21' - 6"	ACHICAN
_	8" 8"	16 14	23' - 3" 25' - 0"	RAC 22-29
-				1- 12-4
1		E NOTES		
	USE THESE CHARTS TO D		GAUGE FOR THE VARIOUS PARTITION	
_	TYPES. REFER TO STRUC AND/OR LIGHT GAUGE (CF	TURAL DRAWINGS AND SPECIFIC MF) REQUIREMENTS.	CATIONS FOR EXTERIOR WALL	
	REFER TO STRUCTURAL F	OR ADDITIONAL REQUIREMENTS	S. BE ENGINEERED BY A REGISTERED	
	PROFESSIONAL IN THE ST ABOVE CEILING BRACING	ATE OF THIS PROJECT. (@ NOT LESS THAN 4' - 0" OC) IS		
	STUD CHANNEL STRONGE	ACK.	F PARTITON. PROVIDE HORIZONTAL	
4				
		NOTES		
	STUD SPACINGS SHALL BI	E 16" O.C. UNLESS NOTED OTHE	RWISE. FOR STUD GAUGE REQUIREMENTS.	
	REFER TO SPECIFICATION GAUGE METAL FRAMING I	IS FOR ADDITIONAL REQUIREME N LIEU OF THOSE SHOWN.	INTS FOR USE OF HEAVIER LIGHT	
	REFER TO STRUCTURAL D	PRAWINGS FOR ADDITIONAL REC ZING AND GROUTING.		
	MASONRY WALLS TO STR	JRAWINGS FOR MASONRY DETA UCTURE. G CODE DI AN SHEETS FOR FIRE		
	INFORMATION.	NG BUT NOT LIMITED TO PIPING,	ELECTRICAL ACCESS, OR AIR	
	DISTRIBUTION, SHALL MEI AND PENETRATION OF RA	ET THE REQUIREMENTS OF UL D TED WALLS. REFERENCE THE B	DESIGN REQUIREMENTS FOR WALLS BUILDING CODE PLANS FOR	
	FOR ALL INSULATED CON	CRETE FORM PARTITIONS, PROV THE INTERNATIONAL BUILDING	/IDE TYPE X GYPSUM BOARD ON EACH	
		A REQUIREMENTS, REFER SPEC	IFICATIONS SECTION 07 25 00.00 06.	
	REFERENCE ROOM FINISH	1 SCHEDULE FOR WALL SUBSTR	ATE INFORMATION.	
		TRATE GENI	FRAL NOTES	
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S				
5	SUBSTRATE:	URE RESISTANT GYP BD. MOS		Ш
	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE	
	SUBSTRATE: E PROJECT IS TO BE MOIS <sup>T</sup> STURE AND THE OWNER M OCCUPIED.	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	X
	SUBSTRATE: E PROJECT IS TO BE MOIS <sup>T</sup> STURE AND THE OWNER M OCCUPIED.	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	X
	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED.	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	ARK X
	SUBSTRATE: E PROJECT IS TO BE MOIS <sup>T</sup> STURE AND THE OWNER M OCCUPIED.	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	<b>AARK</b>
	SOUND BATTS WHERE SC	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	MARK
	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED. SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	- MARK
	SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION	AY NOT RUN THE AIR CONDITIO HEDULED HEDULE I	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	MMIT T - MARK
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	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED. SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION SCHEDULE WALL BASE WHERE INDIC ON FINISH SCHEDULE METAL STUD TRACK PER PARTITION SCHEDULE ACOUSTICAL SEALANT, EA SIDE	AY NOT RUN THE AIR CONDITIO HEDULED HEDULE	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	DF LEE'S SUMMIT 'S SUMMIT - MARK
	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED. SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION SCHEDULE WALL BASE WHERE INDIC ON FINISH SCHEDULE METAL STUD TRACK PER PARTITION SCHEDULE ACOUSTICAL SEALANT, EA SIDE	AY NOT RUN THE AIR CONDITIO HEDULED HEDULE	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	/ OF LEE'S SUMMIT E'S SUMMIT - MARK
	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED. SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION SCHEDULE WALL BASE WHERE INDIC ON FINISH SCHEDULE METAL STUD TRACK PER PARTITION SCHEDULE ACOUSTICAL SEALANT, EA SIDE	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	TY OF LEE'S SUMMIT EE'S SUMMIT - MARK
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	SUBSTRATE: E PROJECT IS TO BE MOIST STURE AND THE OWNER M OCCUPIED. SOUND BATTS WHERE SC STUDS PER PARTITION SC GYP PLIES PER PARTITION SCHEDULE WALL BASE WHERE INDIC ON FINISH SCHEDULE METAL STUD TRACK PER PARTITION SCHEDULE ACOUSTICAL SEALANT, EA SIDE	AY NOT RUN THE AIR CONDITIO	T WALLS ON THE PROJECT ARE INER WHEN THE BUILDING IS	CITY OF LEE'S SUMMIT LEE'S SUMMIT - MARK







			FRAME	-					
					DETAIL		FIRE		
LAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	LABEL	HW SET NO.	NOTES
IG1	SF	ALUM	DARK BRONZE	5/A542	6/A542	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	5/A542	PER MANUF	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	5/A542	7/A542	5/A541	-	1.0	
-	F1	HM	PAINT	1/A541	2/A541	-	-	3.0	
-	F2	HM	PAINT	3/A541	4/A541	-	-	4.0	
-	F2	HM	PAINT	3/A541	4/A541	-	-	5.0	
-	F2	HM	PAINT	6/A541	7/A541		-	1.0	
-	-	STAINLESS STL	PAINT	11/A541	12/A541	11/A541	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
-	F2	HM	PAINT	3/A541	4/A541	-	-	3.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	10/A541	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	10/A541	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	10/A541	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	12/A541	5/A541	-	1.0	
G2	SF	ALUM	DARK BRONZE	8/A521	PER MANUF	-	-	5.0	
G2	SF	ALUM	DARK BRONZE	8/A521	2/A501	-	-	5.0	
-	F1	HM	PAINT	1/A541	2/A541	-	-	2.0	
-	F1	HM	PAINT	1/A541	2/A541	-	-	2.0	
-	F2	HM	PAINT	3/A541	4/A541		-	3.0	
-	F2	HM	PAINT	6/A541	7/A541	5/A541	-	1.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	9/A541	-	-	5.0	
IG1	SF	ALUM	DARK BRONZE	9/A541	3/A501	5/A541	-	1.0	
-	F1	HM	PAINT	3/A541	4/A541	-	-	3.0	
-	F2	HM	PAINT	6/A541	7/A541	5/A541	-	1.0	
-	F2	HM	PAINT	3/A541	4/A541	-	-	3.0	
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER
IG2		ALUM	DARK BRONZE	1/A521	4/A501	2/A531	-	PER MANUF	SAMPLES REQ FOR FINAL COLOR SELECTION BY ARCHITECT, APPROVED BY OWNER













# A3 NE RESTROOM FINISH PLAN 1/4" = 1'-0"



	10' - 0"	10' - 0"	10' - 0"	10' - 0"	10' - 0"	10' - 0"	10' - 0"	10' - 0"	10' - 0"	, 10' - 0"
SED )FF	, INTEGRATED ENTRY MAT									
1										
4										P3 4 4 4 4 4 4 4 4 4 4 4 4 4
				FARMERS'	MARKET			S IN CONCRETE SLAB TO E MARKET STALLS		
			B1 (1-202) B4							
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# 1. RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. 2. RE: FINISH LEGEND, FINISH SCHEDULE, AND FLOOR FINISH PLANS FOR SPECIFIC FLOOR FINISH INFORMATION AND LOCATIONS. 3. FLOOR FINISHES SHOWN ARE FOR ACCENT CLARIFICATION ONLY. RE: FINISH SCHEDULE FOR ADDITIONAL INFORMATION. 4. INSTALL TRANSITION STRIPS AT ALL FLOOR FINISH MATERIAL CHANGES, UNLESS NOTED OTHERWISE. 5. RE: FINISH DETAILS SHEET FOR ADDITIONAL FINISH AND FLOOR TRANSITION CONDITIONS. 6. FLOOR FINISH PATTERN SHALL BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE. 7. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE. 8. ALL CLOSETS & ALCOVES W/OUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FLOOR FINISHES AS ADJOINING SPACES. 9. FLOOR FINISH MATERIAL &/ OR PATTERN SHALL BE INSTALLED UNDER TOE KICKS OF CASEWORK/ MILLWORK, UNDER OPEN COUNTERTOPS, & UNDER EQUIPMENT. 10. FLOOR MATERIAL / COLOR TRANSITIONS TO ALIGN WITH ROOM SIDE OF DOOR STOP, UNLESS NOTED OTHERWISE. WALL FINISH / WALL PROTECTION 1. RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. 2. RE: FINISH LEGEND & FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION & LOCATIONS. 3. CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING FOR WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: HANDRAILS, TV MONITORS, BATHROOM ACCESSORIES, FIRE EXTINGUISHERS AND EQUIPMENT. RE: ROUGH CARPENTRY SPECIFICATION SECTION FOR CLARIFICATION. CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ITEMS, UNLESS NOTED OTHERWISE. 5. IF WALL IS LESS THAN 18" WIDE DO NOT PROVIDE HANDRAIL. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM THE OPEN SWING OF A DOOR. HANDRAILS SHOULD STOP APPROXIMATELY 3" FROM A CORNER GUARD. **INTERIOR FINISHES** 1. RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. 2. RE: ARCHITECTURAL SHEETS FOR ACCESSIBILITY GUIDELINES. 3. RE: I-SHEETS FOR ADDITIONAL CEILING, WALL, & FLOOR FINISH INFORMATION. 4. HOLLOW METAL FRAMES SHALL RECEIVE SEMI-GLOSS FINISH. WHERE WALL COLOR IS DIFFERENT ON EACH SIDE OF THE HOLLOW METAL FRAME, PAINT FRAME TO MATCH CORRIDOR WALL, UNLESS NOTED OR SHOWN OTHERWISE. 5. CONTINUE WALL FINISH AS SCHEDULED BEHIND EQUIPMENT. 6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CASEWORK FABRICATION AND INSTALLATION. . ALL EXPOSED CASEWORK SURFACES SHALL BE FINISHED PLASTIC LAMINATE AS SCHEDULED, UNLESS NOTED OTHERWISE (U.N.O.) 8. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE 3MM PVC EDGEBANDING. 9. ALL BACKSPLASH MATERIAL SHALL MATCH COUNTERTOP MATERIAL. 10. WHERE TWO MODULAR TILES (PORCELAIN, MARBLE, OR QUARRY) OF VARYING THICKNESSES MEET, THE SETTING BED FOR THE THINNER TILE SHALL BE BUILT UP TO ENSURE THAT THE FACES OF THE DIFFERENT TILES ARE FLUSH. 1. TRANSITION ALL WALL FINISHES/COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE (U.N.O.) 12. TRANSITION WALL BASE AT INSIDE CORNERS, U.N.O. 13. INSTALL METAL TRANSITION STRIP WHERE WALL TILE MEETS PAINTED GYP. BD. WALL IN ALL VERTICAL AND/ OR HORIZONTAL CONDITIONS, UNLESS NOTED OTHERWISE (U.N.O.) CASEWORK 1. RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS 2. ALL MILLWORK / CASEWORK CONSTRUCTION SHALL MEET AWI PREMIUM STANDARDS, UNLESS NOTED OR SPECIFIED OTHERWISE. 3. ALL EXPOSED MILLWORK / CASEWORK SURFACES SHALL BE FINISHED W/ PLASTIC LAMINATE TO MATCH ADJACENT PLASTIC LAMINATE SURFACES, UNLESS NOTED OTHERWISE. 4. ALL CASEWORK INTERIORS SHALL BE WHITE MELAMINE, UNLESS NOTED OTHERWISE. 5. ALL FILLER PANELS SHALL BE 1-1/2 INCH WIDE MINIMUM, FINISHED TO MATCH ADJACENT FINISH SURFACES, AND SCRIBED TO FIT ADJACENT WALL, UNLESS NOTED OTHERWISE. 6. ALL BACKSPLASH FINISHES SHALL MATCH COUNTERTOP MATERIAL AND FINISH, UNLESS NOTED OTHERWISE. PLASTIC LAMINATE SIDE/BACKSPLASHES TO HAVE SELF EDGE LAMINATE, UNLESS NOTED OTHERWISE. 7. CONTRACTOR SHALL APPLY CLEAR MILDEW RESISTANT SILICONE SEALANT WHERE BACKSPLASH MEETS WALL AND COUNTERTOP. 8. THE UNDERSIDE OF COUNTERTOPS WITH KNEE OPENINGS, MUST HAVE A WHITE MELAMINE FINISH, UNLESS NOTED OTHERWISE. 9. WATER AND SUPPLY DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. **INTERIOR DETAILS** 1. RE: ARCHITECTURAL SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE. 2. RE: INTERIOR ELEVATIONS AND ARCHITECTURAL SHEETS FOR ACCESSIBILITY GUIDELINES FOR MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES. 3. RE: FINISH LEGEND AND FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION AND LOCATIONS. 4. RE: FINISH FLOOR PLANS FOR ADDITIONAL WALL FINISH CLARIFICATIONS. 5. RE: I-SHEETS FOR REVEAL AND CONTROL JOINT DETAILS, WALL PROTECTION DETAILS, AND FLOOR TRANSITION / WALL BASE DETAILS. 6. RE: I-SHEETS FOR TOILET ACCESSORY SCHEDULE. . PROVIDE GYPSUM BOARD CONTROL JOINTS AT DOOR HEADERS WHERE EXPOSED/FINISHED GYPSUM BOARD EXCEEDS 30 FEET (TYP.), UNLESS SHOWN OTHERWISE. JOINTS TO BE LINED UP WITH BOTH SIDES OF DOOR FRAMES FOR DOORS 4'-0" AND OVER AND ALL DOORS THAT ARE LEAD LINED. CONTROL JOINTS NOT NECESSARY AT WALLS WHERE ACOUSTICAL WALLCOVERING IS SPECIFIED. 8. CONTINUE WALL FINISH AS SCHEDULED BEHIND ALL FURNITURE AND EQUIPMENT, INCLUDING UNDER OPEN COUNTERS. 9. TRANSITION ALL WALL AND BASE FINISHES, AND/ OR COLOR CHANGES AT INSIDE CORNERS, UNLESS NOTED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY. 10. CONTINUE WALL BASE AT ALL WALLS, FURRED OUT COLUMNS & COLUMN COVERS, AND AT ALL CASEWORK TOE KICKS, SIDE PANELS, AND UNDER OPEN COUNTERS, UNLESS NOTED OTHERWISE. 11. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO MILLWORK/ CASEWORK FABRICATION & INSTALLATION. 12. CONTRACTOR SHALL PROVIDE & INSTALL GROMMETS AT 48" O.C. MAX. AT ALL WORK STATIONS WITH OPEN KNEE SPACE. COORDINATE LOCATIONS DIRECTLY WITH ELECTRICAL/DATA DRAWINGS FOR OUTLET LOCATIONS. COLOR TO BE SELECTED BY ARCHITECT. 13. CONTRACTOR SHALL PROVIDE COUNTERTOP BRACKETS AT OPEN KNEE SPACES WIDER THAN 42" (TYP.). CENTER IN OPEN AREA AND PAINT TO MATCH WALL COLOR, UNLESS NOTED OR SHOWN OTHERWISE. 14. ALIGN ALL WALL TILE JOINTS WITH FLOOR TILE JOINTS, UNLESS NOTED OR SHOWN OTHERWISE. 15. RE: EQUIPMENT DRAWINGS & SPECS. FOR EQUIPMENT ITEMS SHOWN DASHED, PROVIDED BY EQUIP. CONSULTANT AND/ OR SUPPLIED BY OWNER. COORDINATE WITH OTHER TRADES AS NECESSARY. 16. MECH. & ELEC. SYMBOLS AND OUTLETS ARE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS WITH MEP DRAWINGS. CONSULT ARCHITECT FOR CLARIFICATION, IF NECESSARY. LEGENDS

**GENERAL NOTES:** 

FLOOR FINISH PLANS

FINISH LEGEND
EPOXY PAINT (EP1)
WALL TILE (T1)
WALL TILE (T2)
WALL PROTECTION (FRP
METAL PANEL (LB2)
WALK-OFF CARPET SYST
POLISHED / SEALED CON



















T2

**MOTHER'S** 102

D1 ELEVATION - 100 VESTIBULE SOUTH 1/4" = 1'-0"





P2

VESTIBLU

\_P2\_



-RB1

\_\_\_\_P1



# A3 ELEVATION - 106 WOMEN EAST 1/4" = 1'-0"

		K
_		
R. LAVATORIES	WOMEN	
	106	

# TILE T1 AND T2 TO EXTEND UP INTO LIGHT COVE TO CEILING, TYP.





# $C2 \frac{\text{ELEVATION} - 102 \text{ MOTHER'S EAST}}{1/4" = 1'-0"}$

 $C3_{\frac{\text{ELEVATION - 102 MOTHER'S SOUTH}}{1/4" = 1'-0"}}$ 



# \_T2\_ **MOTHER'S** 102 $C4 \frac{\text{ELEVATION} - 102 \text{ MOTHER'S WEST}}{1/4" = 1'-0"}$

	ELEVATI
U4	1/4" = 1'-









































# B1 ELEVATION - 110 FARMERS MARKET WEST 3/16'' = 1'-0''3/16" = 1'-0"



# $C1 \frac{\text{ELEVATION} - 110 \text{ FARMERS MARKET SOUTH}}{3/16" = 1'-0"}$







B4 ELEVATION - 110 FARMERS MARKET EAST 3/16" = 1'-0"







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INTERIOR DESIGN -ELEVATIONS

I-202





# - ACRYLIC PLAQUE DESIGN BY OTHERS. SURFACE MOUNTED TO WALL AS REQ. BY ADA. - RAISED CHARACTERS TO BE ADA COMPLIANT; MIN. DEPTH 1/32", CHARACTER HEIGHT TO BE 5/8" H MIN. TO 9" 2" H MAX. TO THE UPPERCASE LETTER "I". CHARACTERS TO CONTRAST WITH BACKGROUND AS REQ. PER ADA. o l - BRAILLE CHARACTERS 8" BELOW, GRADE 2, AS REQ. BY ADA. GENERAL NOTES: 1. PLAQUES TO BE LOCATED AT ALL DOOR LOCATIONS. 2. MAX OCCUPANCY PLAQUE TO BE INSTALLED PER AHJ'S APPROVED LOCATION.

	ROOM FINISH SCHEDULE													ROOM FINISH	
			FLC	OORS		WA	LL FINISH			C	ASEWORK				
RM. NO	D. ROOM I	NAME	FLOOR	WALL BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH	COUNTERTOP	BASE CABINET	UPPER CABINET	REMARKS		SCHEDULE REIVIARNS.
100	VESTIBULE		C1	RB1	LB2	LB2, P2	T2	P2	LB1	-	-	-			AREAS WITH MULTIPLE DESIGNATED FINISHES, RE: FINISH FLOOR PLANS & INTERIOR ELEVATIONS FOR ADDITIONAL CLARIFICATION.
101	LOBBY		PC1, C1	RB1	P2, P3	P2, P3, T1, T	2 T2	P2, T2	LB1, P4	-	-	-			1 PROVIDE FULL HEIGHT WALL THE AT WET WALL REVINTERIOR FLEVATIONS
102	MOTHER'S		PC1	-	T2	T2 T2	T1	T2	P4	SS1	PL1	-	2		<ol> <li>PROVIDE FULL HEIGHT WALL TILE ON ALL WALLS IN ROOM/SPACE, RE: INTERIOR ELEVATIONS.</li> </ol>
103		ORIES	PC1 PC1	-	T1 T2	T2	T2	T2	P4 P4		PL1 PL1	-	2		3. PROVIDE FRP FULL HEIGHT. 4. PROVIDE FRP TO 4'-0" AFE
105	MEN		PC1	-	T2	T2	T2	T2	P4, P5	-	-	-	1		
106	WOMEN		PC1		T2	T2	T2	T2	P4, P5	-	-	-	1		
107			PC1	RB2	EP1, FRP EP1	EP1, FRP	EP1, FRP	EP1, FRP	0.T.S.	- 2	- 2	-	4		
100	MECH/ELEC		PC1	RB2	P2	P3	P3	P2	0.T.S.	-	-	-			
110	FARMERS' N	MARKET	PC1, C1		P3, P2	P3, P2	P3, P2	P3, P2	0.T.S.	-	-	-			
111	STORAGE		PC1	?	P3	P3	P3	P3	ACT1	-	-	-			
112	R.R. LAVAT	ORIES	PC1, C1 PC1	- RB1	Ρ3 Τ1, Τ2	P3 T2	T1, T2	Ρ2 Τ2	P4	 	- PL1	-			
114	-				,							-			
115	MEN		PC1	-	T2	T2	T2	T2	P4, P5	-	-	-	1		
116			PC1 PC1	- 2	12 P3	12 P3	12 P3	2  2	P4, P5	-	-	-	1		
117	IT		PC1	?	P3	P2	P3	P3	ACT1	-	-	-			
/															
										FINISH	H LEGENI	כ			
SY	MBOL			MATERIAL	<u> </u>		MANUFACTURE	2		TYPE				COLOR	TYP. AREA / REMARKS
								1							
FLOOR	C1	WALK-O	FF ENTRY	CARPET SYSTE	EM - 4'x40'x5/16" F	OLL	MATTER SURFACES		ULTRA ENTRY - LOC	DSE LAY SHALLO	W RECESSE	D	GRAY E	BASE, CHARCOAL	VESTIBULE, CORRIDOR 112, FARMERS MARKET, AS NOTED IN PLAN
	PC1		POLISHEI	D CONCRETE, H	HIGH GLOSS		SCOFIELD	LITHOCHRO		ROME, HIGH GLC	OME, HIGH GLOSS GRAY / N		ASH INSERTS	ALL FLOORS, U.N.O.	
	·							I							
WALLE	BASE		P					N				Х-Н	TG1 9		
	RB2		R	UBBER WALL B	ASE		JOHNSONITE	DURA	COVE THERMOPLAS	STIC RUBBER 1/8	" (TYPE TP),	W/ TOE	199	DOCKSIDE WG	WALL GYPSUM OR FRP WALLS AT JANITOR ROOM, MECH/ELEC. ROOM, I.T. ROOM, BACK OF HOUSE
								L							
WALL F					V				<u> </u>				SW/ 70		
/	FRP1	FIBER		CED PLASTIC P	. <u>r</u> PANEL (4'x8' OR 1(	)')	MARLITE		TEXT	URED - PEBBLED			5w 70	P145 SILVER	JANITOR ROOM, INSTALLED TO 4'-0" A.F.F.
	LB2	TON	IGUE & GR	ROOVE INTERIO	R WALL SYSTEM	- , L	ONGBOARD PRODUCT	S	V-GROOVE 6"x12' PL	LANK W/ QUICK S	CREEN CLIP	'S	LIGHT CH	ERRY WOOD GRAIN	VESTIBULE WALLS
	P1	PAINT	- WATER-E	BASED ALKYD U	JRETHANE ENAM	EL	SHERWIN WILLIAMS		S	SEMI-GLOSS			SW 600	03 PROPER GRAY	HM DOOR FRAMES
	P2		PAINT - ZE	ERO V.O.C. INTE	ERIOR LATEX		SHERWIN WILLIAMS			SATIN			SW 70	04 SNOWBOUND	ALL GYPSUM WALLS, U.N.O.
	P3	PAINT -	ACRYLIC	MASONRY BLO	CK FILLER / PRIM	ER	SHERWIN WILLIAMS			SATIN			SW 70	04 SNOWBOUND	ALL CMU WALLS, U.N.O.
	P6 F	PAINT - WATEP	R-BASED IN	NTUMESCENT F	IRE PROTECTION		SHERWIN WILLIAMS			FLAT			SW	7069 IRON ORE	ALL EXPOSED STRUCTURAL STEEL (COLUMNS, TRUSSES, JOISTS, ETC.), U.N.O.
F	76-ALI F			NIUMESCENT F		N COATING	SHERWIN WILLIAMS				MIC		SW 600		ALL EXPOSED STRUCTURAL STEEL (COLUMNS, TRUSSES, JOISTS, ETC.), U.N.O. (ALTERNATE COLOR OPTION)
	T2	GL			ב (ט X12°X5/16°') (12"x24"y5/16")				MESMERI	BRVNE			C	MIST RR31	AUGENT TILE ( RESTRUCIVI VANITIES, WATER FUUNTAINS
	TG1			- EPOXY (1/8" (	GROUT JOINTS)		TFC			EPOXY				SILVERADO	TO BE USED WITH T1
	TG2	TIL	E GROUT	- EPOXY (1/16" (	GROUT JOINTS)		TEC			EPOXY				TBD	TO BE USED WITH T2
					· ·	I									
MILLW	JKK / CASEWO	JKK			<u></u>		SI OAN						RDIICI		SLOAN AER-DEC EIXTURES
F	IDPE1		HDPE I	RESTROOM PA	RTITIONS		SCRANTON PRODUCT	6	0	RANGE PEEL			DRUSI	SHALE	RESTROOM PARTITIONS, RE: ACCESSORY SCHEDULE; CLASS B CEILING HUNG
· · ·	PL1		F	PLASTIC LAMINA	ATE		WILSONART	PREM	UM, GLOSS LINE W/	AEON SCRATCH	RESISTANC	E FINISH	8213K-28	B PHANTOM COCOA	SLOAN AER-DEC CABINET STYLE LAMINATED DOOR MOUNTING
	SS1		SIMUL	_ATED STONE /	QUARTZ		CORIAN QUARTZ		2C	M, POLISHED			L	ONDON SKY	SLOAN AER-DEC LAVATORY DECKS
CEILIN	G FINISH														
			VINYL-F		TILE (2'x2')	(		S S		HELD A, 1100-CR	F-1	1.)		WHITE	CATERING KITCHEN, STORAGE, BACK OF HOUSE
AC		FNDU	15/16 RALINFAR	SUSPENSION	STSTEM IT CEILING SYSTE	- M		ວ PFRF∩F	CLEANKOUM STAB	STSTENI (GALVA X12' PLANK CEILI	NG SYSTEM	∟) 			VESTIBULE CELLING
						L		S	SCREEN	CLIPS & SOUNDT	EX				
	P4		PAINT - ZE				SHERWIN WILLIAMS						SW 70		GYP CEILING / SOFFITS, RESTROOM CEILINGS
	r0			ERU V.U.U. INTE			SHERWIN WILLIAMS			FLAI			Svv //5/	WHITE	

# **GENERAL FINISH LEGEND NOTES:**

1. FINISH MATERIALS TO BE PROCURRED FROM SPECIFIED VENDOR, AS LISTED ABOVE. ALTERNATES OR SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS VERIFIED TO BE EQUAL IN PERFORMANCE, QUALITY, VISUAL APPEARANCE, AND APPROVED BY ARCHITECT, INTERIOR DESIGNER, AND OWNER. 2. FINISH SELECTIONS ARE PROVIDED FOR DESIGN INTENT ONLY; ALL FINAL SELECTIONS TO BE VERIFIED AND APPROVED BY OWNER.

NO.	MANUFACTURER	DESCRIPTION
01	BOBRICK WASHROOM EQUIPMENT, INC.	SURFACE MOUNTED SINGLE JUMBO TOILET ROLL HOLDER - F
02	BOBRICK WASHROOM EQUIPMENT, INC.	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL - CONTURA
03	BOBRICK WASHROOM EQUIPMENT, INC.	11/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEA
04	BOBRICK WASHROOM EQUIPMENT, INC.	11/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEA
05	BOBRICK WASHROOM EQUIPMENT, INC.	1/2" (38mm) DIA. STAINLESS STEEL GRAB BARS WITH CONCEA
06	ELECTRIC MIRROR	EMINENCE LIGHTED MIRHOR - LED
07	SLOAN	RUSH STREET STYLE FAUCET - OPTIMA - DECK-MOUNTED, HAI ACTIVATED ELECTRONIC
08	SLOAN	RUSH STREET STYLE SOAP DISPENSER - DECK-MOUNTED, WI
09	SLOAN	RUSH STREET STYLE HAND DRYER - SLOAN® AER-DEC
10	SLOAN ~	AER-DECC 4-STATION WALL-MOUNTED SNK, VERTICAL CABIN
11	SLOAN	AER-DEC® 1-STATION WALL-MOUNTED SINK, VERTICAL CABIN
12	SCRANTON PRODUCTS	HINY HIDERS - WALL MOUNTED URINAL PARTITION
13	SCRANTON PRODUCTS	HINY HIDERS - 24" INSWING STANDARD PARTION & DOOR
14	SCRANTON PRODUCTS	HINY HIDERS - 32" INSWING STANDARD PARTION & DOOR
15	SCRANTON PRODUCTS	HINY HIDERS - 32" OUTSWING AMBULATORY PARTITION & DOC
16	SCRANTON PRODUCTS	HINY HIDERS - 36" OUTSWING ADA PARTION & DOOR
17	KOALA KARE	BABY CHANGING STATION

	MODEL	FINISH	Н	W	D	QTY.	COMMENTS	REMARKS
O COLLECTION	B-9890	STAINLESS STEEL, SATIN FINISH	1' - 0 3/4"	11' - 0 11/16"	5"	19		3
ERIES	B-270	STAINLESS STEEL, SATIN FINISH	10"	7 1/2"	3 13/16"	13		3
D FLANGE - FINO COLLECTION	B-9806-42	STAINLESS STEEL, SATIN FINISH		3' - 6"	1 1/2"	13		3
D FLANGE - FINO COLLECTION	B-9806-36	STAINLESS STEEL, SATIN FINISH		3' - 0"	1 1/2"	5		3
D FLANGE - FINO CON ECTION	B-\$806-18	STAINLESS STEEL, SATIN FINISH		1' - 6"	1 1/2"	5		3
	EMNY-24.00X36.00-01-D1-OS-RC6.0WG3-30K	MATTE BLACK	3' - 0"	2' - 0"	2 195/256"	18	BACKLIT, EDGELIT FRAME	5
WIRED-POWERED, SENSOR	EFT-420-BN	BRUSHED NICKEL				18	RE: PLUMBING SHEETS	
AC ADAPTOR	ESD-420-BN	BRUSHED NICKEL				18	RE: PLUMBING SHEETS	
	EHD-420-BN	BRUSHED NICKEL				18	RE: PLUMBING SHEETS	
STYLE AMINATED DOORS	AD-84000	CORIAN QUARTZ - LONDON SKY, WILSONART - PHANTOM COCOA	2' - 10"	10' - 0"	1' - 11 1/2"	4	RE: PLUMBING & STRUCTURAL SHEETS	3
STYLE LAMINATED DOORS	AD-81000	CORIAN QUARTZ - LONDON SKY, WILSONART - PHANTOM COCOA	2' - 10"	2' - 6"	1' - 11 1/2"	2	RE: PLUMBING & STRUCTURAL SHEETS	3
	TRADITIONAL 2600	SHALE, ORANGE PEEL	3' - 6"	1' - 6"		4	WALL-HUNG, FLANGE	
	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			6	CEILING HUNG, 55"H DOOR	
	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4	CEILING HUNG, 55"H DOOR	
	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4	CEILING HUNG, 55"H DOOR	
	TRADITIONAL 2600	SHALE, ORANGE PEEL	6' - 10"			4	CEILING HUNG, 55"H DOOR	
	KB300-05SS	WHITE GRANITE 05	1' - 8 3/4"	2' - 11 15/16"	1' - 9 3/16"	1	CLOSED DEPTH 4"	3

OF ANY CONFLICTS.

REMARKS: 1. OWNER FURNISHED, OWNER INSTALLED. 2. FF&E ITEM - OWNER FURNISHED, CONTRACTOR INSTALLED. REFER TO PLANS AND ELEVATIONS FOR FURTHER CLARIFICATION.

4. RECESSED. 5. MIRRORS TO BE CENTERED AT LAVATORY STATIONS, TYP; RE: ELEVATIONS.





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PATH: Autodesk Docs://18225R21006\_LeesSummitMarket/LSMO-MEPF\_V2

GENERAL NOTES:

- 1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
- 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
- 4. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- 5. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
- 6. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- 8. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
   INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
- 11. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
- 12. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
- 13. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 14. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- 15. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- 16. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- 17. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- 18. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
- 19. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- 20. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
- 21. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER, SOIL STACKS 4" AND LARGER AND CONNECTIONS TO SOIL STACKS. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
- 22. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON STORM PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 23. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION FOR MORE INFORMATION.
- 24. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY, WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 25. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON STORM PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "STORM DRAINAGE PIPING AND SPECIALTIES" FOR MORE INFORMATION.
- 26. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
- 27. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
- 28. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

PLUMBING SYMBOLS
THIS IS A MASTER LEGEND AND NOT ALL SYME
STANDARD MOUNTING HEIGHTS

# CLINIC SERVICE SINKS (RIM)

HOSE BIBB (CENTERLINE) ICE MAKER OUTLET BOX (CENTER OF BOX) JANITOR'S SINK FAUCET FITTINGS (CENTERLINE)

# LAVATORY OR SINK STANDARD HEIGHT (RIM) ADA ACCESSIBLE (RIM)

CHILD HEIGHT (RIM) NON FREEZE WALL HYDRANT (AFG TO CENTERLINE)

SHOWER HEAD MEN (CENTERLINE) WOMEN (CENTERLINE)

SHOWER VALVE STANDARD HEIGHT - MEN (CENTERLINE) STANDARD HEIGHT - WOMEN (CENTERLINE) ADA ACCESSIBLE (CENTERLINE)

SURGEON'S SCRUB-UP SINK (FRONT RIM)

- TUB VALVE STANDARD HEIGHT (CENTERLINE) ADA ACCESSIBLE CENTER BETWEEN GRAB BA
- URINAL STANDARD HEIGHT (RIM) ADA ACCESSIBLE (RIM)

# CHILD HEIGHT (RIM)

WASHING MACHINE OUTLET BOX (RIM) WATER CLOSET

STANDARD HEIGHT (RIM) ADA ACCESSIBLE (TOP OF SEAT) CHILD HEIGHT (RIM)

WATER COOLER OR DRINKING FOUNTAIN STANDARD HEIGHT (SPOUT)

# ADA ACCESSIBLE (SPOUT) CHILD HEIGHT (SPOUT)

# INSTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SI UNO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN CONSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIO ARCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWH CONSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SI INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

NNOTAT	ION
1	PLUMBING PLAN NOTE CALLOUT
1	PLUMBING EQUIPMENT DESIGNATION. (CON FURNISHED AND INSTALLED). REFER TO PLU OR EQUIPMENT SCHEDULES
1	EQUIPMENT DESIGNATION (OWNER FURNIS CONTRACTOR INSTALLED)
$\left\langle \begin{array}{c} CU\\ 1\end{array} \right\rangle$	MECHANICAL EQUIPMENT DESIGNATION (CC FURNISHED AND INSTALLED UNLESS NOTED
•	CONNECTION POINT OF NEW WORK TO EXIS
	DETAIL REFERENCE UPPER NUMBER INDICA NUMBER LOWER NUMBER INDICATES SHEET
1 P1	SECTION CUT DESIGNATION
	DEDICATED EQUIPMENT ACCESS TILE

$\square$	ACCESS PANEL		
ABBRE	EVIATIONS		
ADA	AMERICANS WITH	MIN	MINIMU
	DISABILITIES ACT	N/C	NORMA
AFF	ABOVE FINISHED FLOOR	N/O	NORMA
AFG	ABOVE FINISHED GRADE	NIC	NOT IN
AHU	AIR HANDLING UNIT	ORD	OVERF
AP	ACCESS PANEL	PDI	PLUMB
BAS	BUILDING AUTOMATION		
	SYSTEM	PH/Ø	PHASE
BFF	BELOW FINISHED FLOOR	PRV	PRESS
BFG	BELOW FINISHED GRADE		VALVE
BOD	BOTTOM OF PIPE	PVC	
BOS		RCP	
BIU			
CPVC			
CU	COPPER	RTU	ROOFT
		SE	SOUAR
	DOWN	SP	SUMP
DFU	DRAINAGE FIXTURE UNIT	SS	STAINL
DS	DOWNSPOUT		SANITA
(E)	EXISTING		STACK
ÈŃS	ENERGY MANAGEMENT	TDH	TOTAL
	SYSTEM	TFA	TO FLC
ETR	EXISTING TO REMAIN	TFB	TO FLC
EWC	ELECTRIC WATER COOLER	TYP	TYPICA
FD	FLOOR DRAIN	UL	UNDEF
FFA	FROM FLOOR ABOVE		LABOR
FFB	FROM FLOOR BELOW	UNO	UNLES
FF	FINISHED FLOOR		OTHER
FL	FLOW LINE	UPS	UNINTE
FLA	FULL LOAD AMPS	VOD	POWE
FLR	FLOOR	VCP	VITRIFI
GPM	GALLONS PER MINUTE	VED	
HD		VC	
HZ		VS VTD	
		We	
ΜΔΗ		WSFU	WATER
ΜΔΥ			
MBH		wvs	WASTE

MH MANHOLE

IBOLS OR ABBR	EVIATIONS ARE US	ED.		V2.02
	PIPING SYMBOLS		PIPING LINETYPES	3
30"	•	OXYGEN OUTLET	CW	DOMESTIC COLD WATER (CW)
36"	<b>_</b>	NITROUS OXIDE OUTLET	SCW	SOFTENED COLD WATER (SCW)
24"	$\longrightarrow$	MEDICAL AIR OUTLET	HW	DOMESTIC HOT WATER (HW)
42"		NITROGEN OUTLET	HWR	DOMESTIC HOT WATER RECIRC. (HWR)
		MEDICAL VACUUM INLET	140°	DOMESTIC HOT WATER (140°)
31" 34"	<b>D</b>	FLOOR SINK (FS), SIZE & TYPE	т	TRAP PRIMER LINE (T)
24"		FLOOR DRAIN (FD), SIZE & TYPE	S	SOIL PIPING - ABOVE FLOOR (S)
18"	(Ô)	ROOF DRAIN (RD), SIZE & TYPE	s	SOIL PIPING - BELOW FLOOR (S)
78"		BALL VALVE	W	WASTE PIPING - ABOVE FLOOR (W)
72"		CONTROL VALVE	— — w — —	WASTE PIPING - BELOW FLOOR (W)
48"	₩	SHUTOFF VALVE	GW	GREASE WASTE - ABOVE FLOOR (GW)
42" 38" TO 48"		CHECK VALVE	— — GW — —	GREASE WASTE - BELOW FLOOR (GW)
35"	—————————————————————————————————————	BALANCING VALVE WITH PRESSURE PORTS	CGWV	COMBINATION GREASE WASTE AND VENT (CGWV)
	C	WATER METER	CWV	COMBINATION WASTE AND VENT (CWV)
32" AR AND TUB RIM		STRAINER	ST	STORM DRAIN - ABOVE FLOOR (ST)
		STRAINER WITH BLOWOFF	— — ·ST· — —	STORM DRAIN - BELOW FLOOR (ST)
24" 17"	<u>Å</u> ₽	RELIEF/SAFETY VALVE	OST	OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
14"	——————————————————————————————————————	SOLENOID VALVE	— — VBG — —	VENT BELOW GRADE (VBG)
42"	&	PRESSURE REDUCING VALVE	— — VBF — —	VENT BELOW FLOOR (VBF)
15"	&	GAS PRESSURE REGULATOR	ID	INDIRECT DRAIN (ID)
17" TO 19" 10"	——————————————————————————————————————	THERMOSTATIC MIXING VALVE	CDH	CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)
		PIPE ANCHOR	CD	CONDENSATE DRAIN (CD)
41" 36"	│^	EXPANSION JOINT	ACD	AUXILIARY CONDENSATE DRAIN (ACD)
30"		BACKFLOW PREVENTER	SPD	SUMP OR SEWAGE PUMP DISCHARGE (SPD)
	<u> </u>	PRESSURE GAUGE	G	NATURAL GAS (G)
SHOWN ABOVE	<u> </u>	THERMOMETER	— — -G- — —	NATURAL GAS ON ROOF (G)
N THE ONS BY		UNION	MPG	MEDIUM PRESSURE NATURAL GAS (MPG)
/HERE IN THE SHALL BE		FLANGE CONNECTION	— — MPG — —	MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
_	+	HOSE BIBB (HB)	NPW	NON-POTABLE WATER (NPW)
	↓ <u> </u> ++	NON-FREEZING WALL HYDRANT (NW)	LPG	LIQUEFIED PETROLEUM GAS (LPG)
	<u>^</u>	MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF	WS	WATER SERVICE (WS)
	<b>中</b>		DFP	FIRE PROTECTION SPRINKLER DRY (DFP)
RACTOR			FP	FIRE PROTECTION SPRINKLER WET (FP)
IBING FIXTURE		CAR	DSP	FIRE PROTECTION STANDPIPE DRY (DSP)
			WSP	FIRE PROTECTION STANDPIPE WET (WSP)
Ð,	~ " ∩		PD	CONDENSATE PUMP DISCHARGE (PD)
			V	VENT PIPING (V)
TRACTOR DTHERWISE)		ELBOW LIP	AW	ACID WASTE - ABOVE FLOOR (AW)
			— — AW — —	ACID WASTE - BELOW FLOOR (AW)
NG		TEEUP	AV	ACID VENT (AV)
ES DETAIL			GWS	GRAY WATER (GWS)
NUMBER	ю	ELBOW UP WITH SHUT-OFF VALVE (SOV)	CA	COMPRESSED AIR (CA)
		ELBOW DOWN WITH SHUT-OFF VALVE (SOV)	MA	MEDICAL AIR (MA)
		TEE UP WITH SHUT-OFF VALVE (SOV)	MV	MEDICAL VACUUM (VE)
		TEE DOWN WITH SHUT OFF VALVE (SOV)	HE	HELIUM (HE)
	_ "A"	WATER HAMMER ARRESTER (WHA) WITH PDI SIZES.	IA	INSTRUMENT AIR (IA)
	<u>_</u>	(A, B, C, D, & E)	IV	INSTRUMENT VACUUM (IV)
		RECIRCULATION PUMP	N2	NITROGEN (N2)
I LY CLOSED		P-TRAP	N2O	NITROUS OXIDE (N20)
LY OPEN ONTRACT	·	GAS COCK	O2	OXYGEN (O2)
OW ROOF DRAIN G DRAINAGE	Δ	TRAP PRIMER	——————————————————————————————————————	EVAC/WAGD (EV)
E	<u> </u>	TRAP PRIMER WITH DISTRIBUTION UNIT	CO2	CARBON DIOXIDE (CO2)
RE REDUCING			——————————————————————————————————————	MEDICAL AIR INTAKE (AI)
YL CHLORIDE			VE	MEDICAL VACUUM EXHAUST (VE)
RAIN			DA	DENTAL AIR (DA)
FIONS PER			DV	DENTAL VACUUM (DV)
P UNIT FEET			FW1	FILTERED WATER (FW1)
SS STEEL			FW2	FILTERED WATER W/ SCALE INHIBITOR (FW2)
Y SEWER, SOIL			RO	REVERSE OSMOSIS (RO)
YNAMIC HEAD R ABOVE			ROR	REVERSE OSMOSIS REMINERALIZATION (ROR)
R BELOW	LINETYPE LEGEN	ID	7	
RITERS FORIES, INC.	THROUGHOUT THE DR	AWINGS DIFFERENT LINETYPES ARE USED IN	7	
NOTED	COMBINATION WITH THE EXISTING, TO BE DEMO	HE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS DLISHED, TO BE INCLUDED AS PART OF NEW WORK		
RUPTIBLE	AND/OR ITEMS WHICH THE STATUS OF ITEMS	ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.		
) CLAY PIPE E FREQUENCY		APPEAR. PHASING SHOWN IN DRAWINGS IS NOT ESCRIBE ALL NECESSARY CONSTRUCTION PHASING		
ACK	WHICH IS DETERMINED RESPONSIBILITIES AN	D BY THE CONTRACTOR AS PART OF THEIR Y SUCH PHASES DESCRIBED IN THE CONSTRUCTION		 ח
ROUGH ROOF	DOCUMENTS ARE GEN ORDER FOR THE SAKE	IERAL AND ONLY INTENDED TO INDICATE A BROAD OF DESCRIBING THE PROJECT. THE FOLLOWING		
r Column	LINETYPES MAY BE US ETC.	ED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,	ENLARGED PLAN	
TACK SUPPLY FIXTURE		I	-	
ENT STACK	EXISTING	NEW	NOT IN SCOPE (NIS)	
-	DEMOLISH — —			





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$\Delta$	DESCRIPTION	DATE			
PROJEC	T NO:	18225R21006			
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DATE:		11/01/2023			
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1	Addendum 1 DESCRIPTION	12/22/23 DATE			
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PLUMBING PLAN					

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HLE HLO

















ENLARGED DOMESTIC WATER PLAN - BOH / RR 1/4" = 1'-0"





2 8



 $\bigcirc \frac{\text{ENLARGED DOMESTIC WATER PLAN - CATERING KITCHEN / FRONT RR}{1/4" = 1'-0"}$ 



ENLARGED WASTE & VENT PLAN - CATERING KITCHEN / FRONT RR 1/4" = 1'-0"



<u>KEYPLAN</u>

PLAN NORTH





12/21/2023

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PATH:









1 WASTE & VENT ISOMETRIC NTS



4" VTR -2" V—-





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1 Addendum 1	12/22/23				
	DATE				
PROJECT NO:	18225R21006				
STATUS:	PERMIT SET				
DATE:	11/01/2023				
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PLUMBING WASTE & VENT ISOMETRIC					
P-302					

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1 STORM ISOMETRIC NTS















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PLUMBING STORM ISOMETRIC					

P-304

FIXTURE BRANCH CONNECTION SCHEDULE					
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	
" FLOOR DRAIN			6"	3"	
RINKING FOUNTAIN	1/2"		2"	1 1/2"	
LOOR DRAIN			2"	2"	
ANITOR'S SINK	1/2"	1/2"	3"	2"	
AVATORY/HAND SINK	1/2"	1/2"	2"	1 1/2"	
INK	1/2"	1/2"	2"	2"	
RINAL	1"	1"	2"	2"	
ASHFOUNTAIN	1"	1"	2"	1 1/2"	
ATER CLOSET (FLUSH TANK)	1/2"		4"	2"	
ATER CLOSET (FLUSH VALVE)	1 1/4"		4"	2"	
	£			·	

NOTE: PIPE SIZES SHOWN ARE MINIMUM.

Pl	LU	M	BI	Ν	G

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY DRAINAGE & VENT (ABOVE GRADE)	S, W OR V	HUBLESS CAST IRON (PVC DWV OPTIONAL)
STORM DRAINAGE (ABOVE GRADE)	ST OR OST	PVC DWV
SANITARY DRAINAGE & VENT (BELOW GRADE)	S, W OR V	PVC DWV
STORM DRAINAGE (BELOW GRADE)	ST	PVC DWV
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWR	TYPE L HARD DRAWN COPPER
POTABLE WATER - 3" & LARGER (BELOW GRADE)	CW, HW OR HWR	DUCTILE IRON
NON-POTABLE WATER (ABOVE GRADE)	NPW	TYPE L HARD DRAWN COPPER
NATURAL GAS (ABOVE GRADE & ON ROOF)	G	SCHEDULE 40 BLACK STEEL
NATURAL GAS (BELOW GRADE)	G	APPROVED 'PE' PIPE FOR GAS
CONDENSATE DRAIN - 1" & SMALLER	CD	TYPE M HARD DRAWN COPPER (PVC DWV OPTIONAL)
CONDENSATE DRAIN - 1-1/4" & LARGER	CD	TYPE DWV HARD DRAWN COPPER (PVC DWV OPTIONAL)
INDIRECT DRAIN - 1"& SMALLER	ID	TYPE M HARD DRAWN COPPER
INDIRECT DRAIN - 1-1/4" & LARGER	ID	TYPE L HARD DRAWN COPPER CLEANED FOR OXYGEN SERVICE

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION

C	GAS S	STOR	AG

				TANK SIZE	ELECTRIC	CAL DATA	INPUT	RECOVERY		
MARK	MANUFACTURER	MODEL	AREA SERVED	(GALLONS)	VOLTS	PHASE	(MBH)	(GPH)	WEIGHT (LB)	NOTES
WHG-1	A.O. SMITH	#BTH-120	CATERING KITCHEN / FRONT RR	60	120	1	120	147	460	A-D
WHG-2	A.O. SMITH	#BTH-120	BOH RR	60	120	1	120	147	460	A-D
N										
NOTES:										

100° TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE. AUTOMATIC FLUE DAMPER INTERLOCKED WITH WATER HEATER FIRE CONTROL. ULTRA LOW NOX TYPE - RESIDUAL NOX IS LESS THAN 14 ng / joule. COMPLIES WITH SCAQMD RULE 1146.2.

	PLUMBI	NG EX	XPAN:	SION TA	NK SCHEDUL	E
MARK	MANUFACTURER	MODEL	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	SERVICE	NOTES
ET-1	AMTROL	ST-12	4.4	1.98	CATERING KITCHEN / FRONT RR	А
ET-2	AMTROL	ST-12	4.4	1.98	BOH RR	А

# **RECIRCULATION PUMP SCHEDULE**

					HEAD	CONNECTION	ELECT	RICAL	DATA	
MARK	MANUFACTURER	MODEL	LOCATION	GPM	(FT.)	SIZE	VOLTS	PH	HP	NOTES
RP-1	BELL & GOSSETT	NBF-9U	MECH / ELEC 102G	2.5	11	3/4"	120	1	1/18	
RP-2	BELL & GOSSETT	NBF-9U	BOH 111	2.5	11	3/4"	120	1	1/18	

NOTES:

FOLIIPMENIT

NOTES:

- ALL LEAD FREE CAST BRONZE BOOSTER PROVIDE WITH STRAINER UPSTREAM OF PUMP.
- PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT HONEYWELL L6006C.
- INTERLOCK PUMP "ON" "OFF" CONTROL WITH BUILDING AUTOMATION SYSTEM, RE: MECH DRAWINGS PUMP TO RUN CONTINUOUSLY
- ALL STAINLESS STEEL CONSTRUCTION WITH ECM MOTOR

# TOTAL CONNECTED NATURAL GAS LOAD LUMBING EQUIPMENT

DESIGNATION	DESCRIPTION
WHG-1	WATER HEATE
WHG-2	WATER HEATE
MECHANICAL EQUIPMENT	
EQUIPMENT	
DESIGNATION	DESCRIPTION
RTU-1	ROOF TOP UNI
RTU-2	ROOF TOP UNI
FCU-1	FURNACE
FCU-2	FURNACE
FCU-3	FURNACE

NATURAL GAS SYSTEM OPERATING PRESSURE: NATURAL GAS SYSTEM SIZED WITH TOTAL DEVELOPED LENGTH FROM GAS METER TO MOST REMOTE PIECE OF EQUIPMENT: SYSTEM DESIGN PRESSURE DROP:

		G	AS P	RES	SURE REG	ì
	MARK	MANUFACTURER	MODEL	VALVE TYPE	VALVE BODY SIZE (INCHES)	
ľ	GPR-1	PIETRO-FIORENTINI	31051	С	1/2"	T
	GPR-2	PIETRO-FIORENTINI	31052	С	3/4"	Γ
	NOTES:					
	A. C	= SELF CONTAINED "	DIRECT AC	TING" DIAPHI	RAGM TYPE WITH INTERN	A
	B. D	ROOP = 1" WATER CC	DLUMN MAX	IMUM.		
	C. 6	5# ALUMINUM BODY, S	SCREWED (	CONNECTION	<b>IS AND OVERPRESSURE I</b>	PF
	D. M	1AXIMUM FLOW RATE	SCHEDULE	D, MATCH BO	ODY SIZE AND MAXIMUM F	٦L
	E. L	ISTED TO MEET ANSI	Z21.80 / CS/	46.22 WITH C	SA LISTING STAMP ON RE	G
	F. G	AS PRESSURE REGU	LATOR INLE	ET PRESSUR	E = OPERATING PRESSUR	ε
	G. 2	PSI MAXIMUM INLET F	PRESSURE	AND 1 PSI M	INIMUM INLET PRESSURE.	

# G PIPE MATERIAL SCHEDULE

# **GE WATER HEATER SCHEDULE**

# FURNISH WITH CONDENSATE NEUTRALIZATION KIT TO MATCH HEATER INPUT, AO SMITH # CNS SERIES.

CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE.

# SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10°F BELOW SET POINT.



# RE REGULATOR SCHEDULE FOR 2 PSI SYSTEMS VE BODY SIZE MAX. FLOW RATE INLET PRESSURE OUTLET PRESSURE (INCHES WATER

NCHES)	(CFH)	(PSI)	COLUMN)	SERVICE	NOTES
1/2"	552	1	7	WHG-1&2 / RTU-1 / FCU 1,2 &3	A-H
3/4"	665	1	7	RTU-2	A-H

PE WITH INTERNAL VENT LIMITER.

VERPRESSURE PROTECTION TO 25 PSI. AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS.

NG STAMP ON REGULATORY BODY. RATING PRESSURE - DESIGN FRICTION LOSS.

H. PROVIDE EXTERNAL VENT LIMITER (WHERE APPROVED BY LOCAL AUTHORITIES) FOR INDOOR INSTALLATION AND INSTALL PER SPECIFICATIONS. INSTALL OUTDOORS PER SPECIFICATIONS.



UR-2

ADAPTER KIT.

# PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

# DESCRIPTION DCV-1 DOUBLE CHECK VALVE BACKFLOW PREVENTER: WATTS # LF007QT-S, MEETING ASSE 1015, LEAD FREE CAST BRONZE BODY, SCREW DRIVER SLOTTED TEST COCKS, QUARTER TURN BALL VALVES, AND STRAINER.

DOWNSPOUT NOZZLE: JAY R. SMITH # 1770T, CAST BRONZE BODY AND FLANGE. PROVIDE OUTLET SIZE AS ELECTRIC NON-FILTERED BOTTLE FILLING STATION (ADA ACCESSIBLE): ELKAY #LZSTL8WS(VR)K BARRIER FREE / LEAD FREE WITH BOTTLE FILLING STATION. FRONT AND SIDE PUSH ACTUATOR BARS, STAINLESS STEEL BOWL, FLEXIBLE POLYESTER ELASTOMER SAFETY BUBBLER AND GALVANIZED STEEL FRONT AND

BOTTLE FILLIN STATION: ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER, UNIT PROVIDES 1.1-1.5 GPM WITH LAMINAR FLOW TO MINIMIZE SPLASHING. FURNISHED WITH GALVANIZED STEEL WALL MOUNTING BOX FRAME. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO

ELECTRICAL REQUIREMENTS: 120-VOLT, 5 FULL LOAD AMPS EXTERIOR CLEANOUT: JAY R. SMITH # 4261L SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH

FCO FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP. #4031L (-F-C), SCORIATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR, APPLICATION(S), # 4031L (-F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (-F-C), 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S).

FD-1 FLOOR DRAIN: JAY R .SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL : PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FD-2 FLOOR DRAIN: JAY R. SMITH #2240 (-B), 13" DEEP CAST IRON BODY, 12" ROUND, LOOSE, MEDIUM DUTY, CAST IRON GRATE WITH INTEGRAL SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, MEMBRANE FLASHING CLAMP, AND PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL; PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE. FLOOR SINK: JAY R. SMITH # 3101L (-12), 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED

HOSE BIBB: PRIER PRODUCTS # C-255NP.75, SATIN NICKEL PLATED BRASS 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, AND ASSE 1011 INTEGRAL VACUUM BREAKER.

JANITOR'S SINK: STERN-WILLIAMS # MTB-3624, 36" x 24" x 10" HIGH TERRAZZO BASIN WITH INTEGRAL FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG

LAV-1 WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): SLOAN # AD-84000 "AER-DEC" 120" x 23-1/2" RECTANGULAR FAUCET : SLOAN # ETX-250-BAT-ISM-BN-0.5GPM-MLM-IR-FCT, "BASYS" BATTERY POWERED, SENSOR OPERATED FAUCET, INTEGRATED SIDE MIXER, BRUSHED NICKEL FINISH, 0.5 GPM, MULTI-LAMINAR SPRAY,

TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

LAV-2 WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): SLOAN # AD-81000 "AER-DEC" 30" x 23-1/2" RECTANGULAR FAUCET : SLOAN # ETX-250-BAT-ISM-BN-0.5GPM-MLM-IR-FCT, "BASYS" BATTERY POWERED, SENSOR OPERATED FAUCET, INTEGRATED SIDE MIXER, BRUSHED NICKEL FINISH, 0.5 GPM, MULTI-LAMINAR SPRAY, SOAP DISPENSER: SLOAN # ESD-500-BN, DECK-MOUNTED FOAM DISPENSE, BRUSHED NICKEL FINISH,

TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX "PRO-EXTREME" #

NW-1 NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS. ADJUSTABLE WALL CLAMP. BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.

CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION -HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, CAST IRON DOME BOLTED OR LOCKED DOWN AND 2" HIGH WATER DAM. PROVIDE OUTLET SIZE AS SHOWN ON PLANS. PRV-1 PRESSURE REDUCING VALVE: WATTS # LF115-74-X-Y, LEAD FREE EPOXY COATED 300# DUCTILE IRON GLOBE PATTERN BODY WITH FLANGED CONNECTIONS, STAINLESS STEEL SEAT, STEM, AND SPRING, PILOT OPERATED DIAPHRAGM, "Y" INLINE STRAINER, TRIM ISOLATION COCKS, INLET AND OUTLET SIZE AS SHOWN ON PLANS, 20 - 175 PSI REDUCED PRESSURE RANGE, # 263 REDUCING VALVE, AND #LF223 3/4" LOW FLOW BYPASS. SET OUTLET PRESSURE TO 75 PSI, WITH FLOW RATE OF 108 GPM AT A DIFFERENTIAL PRESSURE

OF 10 PSI, SET LOW FLOW BYPASS AT 70 PSI. ROOF DRAIN: JAY R. SMITH # 1010Y (-E0X-C-R-CID), 15" DIAMETER CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, HUBLESS OUTLET, FIXED EXTENSION – HEIGHT AS REQUIRED BY INSTALLED INSULATION THICKNESS, AND CAST IRON DOME BOLTED OR LOCKED DOWN. ROOF NON-FREEZE POST HYDRANT: MAPA PRODUCTS # MPH-24FP FREEZE PROOF POST HYDRANT

MEETING ASSE #1057 WITH BLACK POWDER COATED CAST ALUMINUM WEATHER-GUARD DOME HANDLE, STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, UNDER DECK CLAMP, BRONZE GLOBE ANGLE VALVE, 3/4" HOSE CONNECTION, QUICK DISCONNECT WITH BUILT-IN VACUUM BREAKER, STAINLESS 

 1
 STEEL RESERVOIR

 5
 FPZ-1

 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 957-NRS, MEETING ASSE 1013, 304 STAINLESS

STEEL BODY AND SLEEVE, QUARTER TURN TEST COCKS, RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS #77F-DI-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING SK-1 SINK: ELKAY # 3C10X14-2-12X, 58" x 19-13/16" X 43-3/4" DEPENDABILT STAINLESS STEEL, 16 GAUGE TYPE 300 STAINLESS STEEL, 3-COMPARTMENT SINK WITH 12" LEFT AND RIGHT DRAINBOARDS AND STAINLESS STEEL

FAUCET: CHICAGO FAUCET # 631-218017AB 8" BACK MOUNT FAUCET WITH 7 1/4" - 8 3/4" ADJUSTABLE "G" SUPPLY ARMS, VANDAL RESISTANT #317 WRISTBLADE HANDLES, GN2A GOOSENECK SPOUT, # E36VP 1.5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR, QUARTER TURN CERAMIC CARTRIDGES TRIM: (3) ELKAY # LK24RT GRID STRAINERS WITH LEVER HANDLE AND 1-1/2" TAILPIECE, AND 1-1/2" HARD COPPER TYPE "DWV" FABRICATED INDIRECT WASTE LINE ROUTED TO FLOOR SINK. HAND SINK ADA ACCESSIBLE): ELKAY # # ELVWO2219, 22" x 19" X 5-1/2" RECTANGULAR, WALL MOUNTED, 18

FAUCET: CHICAGO FAUCET # 895-207589AB 4" CENTERSET LEAD FREE FAUCET WITH VANDAL RESISTANT # 369 LEVER HANDLES, GN1A GOOSENECK SPOUT, # E67VP 0.5 GPM VANDAL RESISTANT, LAMINAR FLOW TRIM: McGUIRE # "PRODRAIN2" GRID DRAIN WITH 1-1/2" 17 GAUGE TAILPIECE, McGUIRE # LF2165CCLK LEAD

FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, WALL BRACKET, PROVIDE BACKBOARD AND SECURE FIXTURE TO IT, AND PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY,

THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING

TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 H.P. @ 120 VOLT. SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISIÓN 16 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND

URINAL: AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING VALVE: SLOAN "OPTIMA - SLOAN MODEL" # 186 ES-S TMO 0.125 GALLON PER FLUSH, EXPOSED CHROME-PLATED, BATTERY OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

URINAL (ADA ACCESSIBLE): AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE: SLOAN "OPTIMA - SLOAN MODEL" # 186 ES-S TMO 0.125 GALLON PER FLUSH, EXPOSED CHROME-PLATED, BATTERY OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING ADA COMPLIANT HANDLE WITH VANDAL RESISTANT CAP, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT

TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

PLUMBING PLAN MARK	DESCRIPTION
WC-1	WALL-MOUNTED WATER CLOSET: AMERICAN STANDARD # 2257.001 "AFWALL" WHITE VITR FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, AND DIRECT-FED SIPHON JET DEFINITION FOR HIGH EFFICIENCY TOILET (HET). VALVE: SLOAN "G2 OPTIMA PLUS" # 8111-1.28, 1.28 GALLON PER FLUSH EXPOSED, CHROME MOUNTED PLASTIC AND CHROME PLATED METAL HOUSING WITH OVERRIDE BUTTON, BAT SENSOR OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAP PROTECTED ORIFICE, OSCILLATING HANDLE, ESCUTCHEON, INTEGRAL SCREWDRIVER STO RESISTANT CAP, VACUUM BREAKER, SOLID RING PIPE SUPPORT, AND SWEAT ADAPTER KI TRIM CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABL CARRIER.
WC-2	WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD # 2257.001 "AF VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH, AND DIRECT ACTION. MEETS DEFINITION FOR HIGH EFFICIENCY TOILET (HET). VALVE: SLOAN "G2 OPTIMA PLUS" # 8111-1.28, 1.28 GALLON PER FLUSH EXPOSED, CHROME MOUNTED PLASTIC AND CHROME PLATED METAL HOUSING WITH OVERRIDE BUTTON, BAT SENSOR OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAF PROTECTED ORIFICE, OSCILLATING HANDLE, ESCUTCHEON, INTEGRAL SCREWDRIVER STO RESISTANT CAP, VACUUM BREAKER, SOLID RING PIPE SUPPORT, AND SWEAT ADAPTER KI TRIM: CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE S CARRIER.
WC-3	FLOOR-MOUNTED WATER CLOSET (ADA ACCESIBLE): AMERICAN STANDARD # 214AA.104 "C TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.28 GALLON PER FLUSH FLUSH ACTION WITH 3" OVERSIZED FLAPPER VALVE, MaP SCORE OF 1,000g AND CLOSE-CC WITH LEFT HAND TRIP LEVER. INSTALL TRIP LEVER ON THE WIDE SIDE OF THE STALL. BOW RIGHT HAND TRIP LEVER TANK # 4188A.104. REFERENCE DRAWINGS FOR EXACT NUMBER LEFT HAND TRIP LEVER TANKS REQUIRED. TRIM- CHURCH # 9500SSCT WHITE OPEN-FROM SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES A STEEL BOLTS, McGUIRE # LF2166CC LEAD FREE BRASS ANGLE STOP VALVE WITH RISER A CHROME-PLATED ESCUTCHEON
WCO	WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK PLUC STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPEC INSTALLATION.
WHA	WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER B WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, MEI OR PDI WH-201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZ SHOWN OTHERWISE ON THE PLANS.
EYH-1	YARD HYDRANT: PRIER # P-260-5, FREEZELESS GROUND HYDRANT WITH 3/4" HOSE CONN BREAKER MEETING ASSE #1052 STAINLESS STEEL LIPPER ROD AND BUILT IN BACKELOW



REOUS CHINA T ACTION. MEETS E-PLATED, TOP TERY POWERED PHRAGM WITH OP WITH VANDAL , SEAT LESS COVER LE FIXTURE WALL" WHITE

T-FED SIPHON JET E-PLATED, TOP TERY POWERED PHRAGM WITH OP WITH VANDAL , SEAT LESS SUITABLE FIXTURE

CADET PRO" TANK , AND SIPHON OUPLED TANK WL # 3517A.101 AND OF RIGHT AND IT CONTOURED, AND STAINLESS AND .

G, STAINLESS CIFICATIONS FOR BODY WITH

ETING ASSE 1010 ZE "A" UNLESS NECTION, VACUUM PREVENTER.







1 Addendum 1	12/22/23
	DATE
PROJECT NO:	18225R21006
STATUS:	PERMIT SET
DATE:	11/01/2023
DRAWN BY:	Author
CHECKED BY:	Checker
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PLUMBI	NG
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P-4(	)1





BRANCH PIPE SIZE TO UNIT CONNECTION SIZE, AT UNIT CONNECTION STUB

GAS PRESSURE REGULATOR IF SHOWN ON PLANS, RE: SCHEDULES,



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DESCRIPTION DATE

18225R21006

PERMIT SET

11/01/2023

Author

Checker

PROJECT NO:

STATUS:

DATE:

DRAWN BY

CHECKED BY:

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PLUMBING

DETAILS

P-501







LICENSE # PE-2022017017



- 1. PRIOR TO SUBMITTING BID, VISIT TI FULLY ACQUAINTED WITH THE PROU GENERAL NOTES, SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SPECIFICALLY CALLED OUT IN THIS CONSTRUCTION DOCUMENTS. NOT AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID. 2. SYSTEM DESIGN, INSTALLATION AN
- ACCORDANCE WITH APPLICABLE NI SHALL ALSO MEET ALL APPLICABLE CODES AND THE REQUIREMENTS ( JURISDICTION AND INSURANCE CAP REQUIREMENTS PRIOR TO BID SUBMITTAL. 3. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL
- INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER'S INSURER.
- 4. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD'S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.
- 5. DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 8. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- 9. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WATER SUPPLY INFORMATION: WATER SUPPLY INFORMATION IS NOT AVAILABLE AT THIS TIME. CONTRACTOR SHALL SUBMIT RFI OR OBTAIN CURRENT WATER SUPPLY INFORMATION IN ACCORDANCE WITH NFPA 291 PRIOR TO BID SUBMITTAL.







DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (VOICE)

**NTS** 

FIRE ALARM 1 SEQUENCE OF OPERATIONS NTS

HE JOB SITE AND BECOME
DJECT. REVIEW THE
S AND OTHER DRAWINGS
WHICH MAY NOT BE
S PORTION OF THE
TIFY ARCHITECT, ENGINEEF

ND MATERIALS SHALL BE IN
IFPA STANDARDS. SYSTEM
E BUILDING CODES, FIRE
OF THE AUTHORITY HAVING
RRIER. VERIFY

6. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND

# 7. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE

FIRE PROTECTION SYMBOLS	
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBR	EVIATIONS ARE USED.
ABBREVIATIONS	
AFFABOVE FINISHED FLOORNICNOT IN CONTRACTAFGABOVE FINISHED GRADEOCON CENTER	
CDCANDELAPIVPOST INDICATOR VALVEDIDUCTILE IRONPROVIDE FURNISH AND INSTALL	FACP RECESSED FIRE ALARM CONTROL PANEL/UNIT
ESFR EARLY SUPPRESSION PRV PRESSURE REDUCING FAST RESPONSE VALVE	FAAP FIRE ALARM ANNUNCIATOR PANEL
ETR EXISTING TO REMAIN RD RETURN DUCT FHC FIRE HOSE CABINET REV REVISION	
FPFIRE PROTECTIONSDSUPPLY DUCTGCCONTRACTORSFSQUARE FEET	
GPMGALLONS PER MINUTETYPTYPICALJB/J-BOXJUNCTION BOXUNOUNLESS NOTES OTHERWISE	RPS REMOTE POWER SUPPLY
MAX MAXIMUM V VOLT(S) MIN MINIMUM W WATTS	REMOTE TEST STATION WITH INDICATING LIGHT
N/A NOT APPLICABLE WP WEATHERPROOF	
ANNOTATION	PRESSURE SWITCH LOW/HIGH
1 FIRE PROTECTION PLAN NOTE CALLOUT	[FS]   WATERFLOW ALARM SWITCH
	VT   CONTROL VALVE TAMPER SWITCH
	DH MAGNETIC DOOR HOLD OPEN DEVICE
1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL	
F1 NUMBER LOWER NUMBER INDICATES SHEET NUMBER	
F1 SECTION CUT DESIGNATION	K FIRE DEPARTMENT KEY BOX
	PULL STATION     F
	▼ FIREFIGHTER'S PHONE JACK
ACCESS PANEL	HEAT DETECTOR (E INDICATES ELEVATOR RECALL)
FIRE SPRINKLERS	SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)
SIDEWALL SPRINKLER	WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY
FIRE SPRINKLER PIPING	WALL MOUNTED VISIBLE NOTIFICATION APPLIANCE
	## INDICATES CANDELA ## #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONL)
CHECK VALVE	CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONL
	©
	THE CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE
	## INDICATES CANDELA #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONL)
	→ END OF LINE RESISTOR
	, ■ BELL
$\rightarrow$ TRAPEZE HANGER	
	LINETYPE LEGEND
	THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS
STANDARD MOUNTING HEIGHTS	EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.
AUDIBLE APPLIANCE (TOP OF APPLIANCE) 90"	THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT
FIRE ALARM ANNUNCIATOR PANEL (TOP OF DISPLAY)60"FIRE ALARM BELL (EXTERIOR) (CENTERLINE)120"FIRE ALARM CONTROL DAMEL ("INIT (TOP OF DISPLAY)20"	INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR
FIRE ALARM CONTROL PANEL/UNIT (TOP OF DISPLAY)60"PULL STATION (TOP OF DEVICE)48"VIOIDLE ADDITION (CONTENTING)31"	RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD
VISIBLE APPLIANCE (CENTERLINE) 84"	ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE

EXISTING

DEMOLISH — — — —

PRIORITY

NEW

FUTURE

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SYSTEM INPUTS		At 3	3 <sup>4</sup> /2		\$ /\$	SMI AC		<u>``</u> /;`				وكر 🕅
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN			•	•	•					5		7
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT			•	•	•					5	•	3
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND			•	•	•					5	•	3
FIRE ALARM CONTROL PANEL LOSS OF POWER			•		•					<b>ξ</b>		3
MANUAL PULL STATION	•			٠	•	•				•}		<b>२</b>
SMOKE DETECTOR - SPOT TYPE	•			•	•	•				•}		3
SMOKE DETECTOR - DUCT MOUNTED		•		٠	•			•	•	ξ		3
										5		<u>}</u>
WATERFLOW ALARM SWITCH	•			٠	•	•	•			•}	•	र
VALVE TAMPER SWITCH		•		•	•					ξ		3
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FIRE DEPARTMENT KEY BOX VALVE TAMPER SWITCH (KNOX BOX)		•		•	•					5	•	$\mathbf{X}$
	•									<u>`</u> ```````````````````````````````````	in	7

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE

ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG, UNO.

ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND

CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR

LOCAL REQUIREMENTS.

CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND CONNECTIONS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED, AT MINIMUM. SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.



FIRE PROTECTION

**GENERAL NOTES** 

AND LEGEND

FP-000

# PLOT DATE: FILE PATH: ,

# $1 \frac{\text{FIRE PROTECTION PLAN}}{1/8" = 1'-0"}$













1 Addendum	1 12/22/23 DN DATE													
PROJECT NO:	18225R21006													
STATUS:	PERMIT SET													
DATE:	11/01/2023													
DRAWN BY:	PO/JS													
CHECKED BY:	JP/AD													
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FIRE PROT PLA	ECTION N													
FP-'	101													



PLOT DATE FILE PATH:

 $1 \frac{\text{FIRE PROTECTION ROOF PLAN}}{1/8" = 1'-0"}$ 









$\triangle$	DESCRIPTION	DATE
PROJEC	CT NO:	18225R21006
STATUS	:	PERMIT SET
DATE:		11/01/2023
DRAWN	BY:	PO/JS
CHECKE	ED BY:	JP/AD
	Architecture, Inc.	chitecture





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S **2** 

HENDER ENGINEERS

**GENERAL NEW NOTES:** 

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 2. PROVIDE SEISMIC RESTRAINTS AS NEEDED FOR THE MECHANICAL SYSTEMS IN THE PROJECT BASED ON THE SEISMIC ANALYSIS REQUIRED BY THE SPECIFICATIONS.
- 3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- 4. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
- 5. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- ARCHITECTURAL AND STRUCTURAL DRAWINGS. 8. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC
- UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
- 9. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- 10. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR
- 11. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- 12. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- 13. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- CEILING GRID AND LIGHTING LOCATIONS. 15. PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF
- INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION. 16. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DEVICE MOUNTING HEIGHT SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- 17. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- 18. PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
- 19. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON PLANS.
- 20. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- 21. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- 22. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 23. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 24. PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC
- EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS. 25. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL
- CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS. 26. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE
- TURNING SYSTEM(S) OVER TO OWNER. 27. FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS.

7. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE

# ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.

14. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL

DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE

# MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND A STANDARD MOUNTING HEIGH	<u>ND NOT ALL SYMBOL</u> HT	S OR ABBRE	VIATIONS A HVAC DUC	RE USI	ED. K AND ACCESSC
THERMOSTATS (USER ADJUSTABLE) CONTROLS		46" 46"	ŧΞ	 <del>]</del>	DUCTWORK/EQUIP RELOCATED
INSTALL DEVICES AT THE MOUNTING	HEIGHTS SHOWN ABOVE UN		ţ	<del>†</del>	EXISTING DUCTWO
ELSEWHERE IN THE CONSTRUCTION I OF THE DEVICE UNO. ALL DEVICES SH WITH CURRENT ADA AND LOCAL REQU	DOCUMENTS ARE AFF OR A HALL BE INSTALLED IN COMF UIREMENTS.	FG TO TOP PLIANCE			LINEAR SLOT DIFFU
ANNOTATION			<u>ل</u>		BRANCH DUCT WIT
(1) MECHANICAL PLAN NOT	E CALLOUT			₽ Tvl	ELBOW WITH TURN
CU MECHANICAL EQUIPMEN 1 FURNISHED AND INSTAL	IT DESIGNATION (CONTRAC LED UNLESS NOTED OTHER	TOR WISE)	- 		BRANCH DUCT WIT
	NEW WORK TO EXISTING			ŗ	DUCT UP
M1 DETAIL REFERENCE. UP NUMBER LOWER NUMBE	PER NUMBER INDICATES DE ER INDICATES SHEET NUMBI	ETAIL ER	ŧN		DUCT DOWN
M1 SECTION CUT DESIGNAT	ION		F EA		EXHAUST AIR
	ACCESS TILE		<b>GEA</b>		EXHAUST AIR - GRE
ACCESS PANEL			• OA		OUTSIDE AIR
ABBREVIATIONS	1		REA		RELIEF AIR
A/CAIR CONDITIONINGACCAIR COOLED CHILLERACCUAIR COOLED CONDENSING	HWP HEATING WATE IN WC INCHES OF WA COLUMN	ER PUMP TER	RA RA		RETURN AIR
AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR	L LOUVER LAT LEAVING AIR TEMPERATURE	E	×EA		SPECIAL EXHAUST
AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION	LDB LEAVING DRY E LP LOW PRESSUR LWB LEAVING WET E	BULB E BULB	SA SA		SUPPLY AIR
AI ANALOG INPUT AO ANALOG OUTPUT AP ACCESS PANEL	MAU MAKE-UP AIR U MAX MAXIMUM	:R E INIT	ł		EQUIPMENT WITH F
APD AIR PRESSURE DROP AWG AMERICAN WIRE GAUGE B BOILER BAS BUIL DINC AUTOMATION	MBH 1000 BTU PER H MD MOTORIZED DA MFR MANUFACTURE	HOUR AMPER ER		X	10" (NECK SIZE) CSD-1 (TYPE) 300 CFM (CFM OF S
BB BACKBONE BD BACKDRAFT DAMPER	N/A NOT APPLICAB N/C NORMALLY CLO N/O NORMALLY OP	LE DSED EN	Ł		24x24 (NECK SIZE) CEG-1 (TYPE)
BDBLOWDOWNBFCBELOW FINISHED CEILINGBFFBELOW FINISHED FLOOR	NOM NOMINAL NC NOISE CRITERI NF NON-FUSED	A	. 🕅	3	800 CFM (CFM OF E EQUIPMENT ACCES
BFGBELOW FINISHED GRADEBFPBOILER FEED PUMPBHPBRAKE HORSEPOWER	NIC NOT IN CONTRA OA OUTSIDE AIR PICV PRESSURE IND	ACT DEP.	$\overline{\nabla}$	2 7	ACCESS PANEL (IN
BI BINARY INPUT BO BINARY OUTPUT BOD BOTTOM OF DUCT BOS BOTTOM OF STRUCTURE	CONTROL VAL PROVIDE FURNISH AND I QTY QUANTITY	/E NSTALL		-	MANUAL VOLUME D
BTU BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE CH CHILLER	RC ROOM CRITERI RD RETURN DUCT REA RELIEF AIR	A			SQUARE TO ROUNE
CLG COOLING CP CONDENSATE PUMP CPT CONTROL POWER	RF RETURN FAN RFR REFRIGERANT RH RELATIVE HUM	IDITY	R	Č.	DUCT MOUNTED SM (SD=SUPPLY/RD=RI
TRANSFORMER CRAC COMPUTER ROOM AIR CONDITIONING UNIT	RH ROOF HOOD RPM REVOLUTIONS	PER MINUTE	XX" Ø		ROUND DUCT TAG
CRU COMPUTER ROOM UNIT CT COOLING TOWER CV CONTROL VALVE	SA SUPPLY AIR SCP STEAM CONDE	NSATE PUMP	XX" x	XX"	RECTANGULAR DU DUCT DIMENSIONS
CWP CONDENSER WATER PUMP	SD SMORE DUCT SD SUPPLY DUCT SF SUPPLY FAN SH SENSIBLE HEAT		XX" / >	XX" Ө	FLAT OVAL DUCT TA DIMENSIONS
CHWP CHILLED WATER PUMP DB DECIBELS DBA DECIBEL AVERAGE	SOW SCOPE OF WO SP STATIC PRESS	RK URE	(#)	-	RISER DESIGNATIO
DDC DIRECT DIGITAL CONTROL DI DIGITAL INPUT DISC DISCONNECT	STM STEAM TBD TO BE DETERM		$\frown$	FD	FIRE DAMPER
DN DOWN DS DUCT SILENCER	TCP TEMPERATURE		FSD	$\bigcirc$	FIRE SMOKE DAMP
(E) EXISTING EA EXHAUST AIR	TF TRANSFER FAN TFA TO FLOOR ABC	N DVE			
EAT ENTERING AIR TEMPERATURE ED EXHAUST DUCT	THE TO FLOOR BELL TH TOTAL HEAT C/ TSP TOTAL STATIC	OW APACITY PRESSURE		MD	
EDB ENTERING DRY BULB EF EXHAUST FAN EFF EFFICIENCY EMS ENERGY MANAGEMENT	TT TEMPERATURE TRANSMITTAL TYP TYPICAL	Ē	BD	$\bigcirc$	BACKDRAFT DAMPI
END SYSTEM ESP EXTERNAL STATIC PRESSURE	U/G UNDERGROUN U/S UNDERSLAB UH UNIT HEATER	D	ALL DUCT DIN		S SHOWN ON DRAWIN
ETR EXISTING TO REMAIN EWB ENTERING WET BULB EWT ENTERING WATER	UNO UNLESS NOTEL VAV VARIABLE AIR V VEL VELOCITY	O OTHERWISE /OLUME			
TEMPERATURE FCU FAN COIL UNIT FFA FROM FLOOR ABOVE	VFD VARIABLE FREG DRIVE VRF VARIABLE REF				
FFB FROM FLOOR BELOW FF FINISHED FLOOR EDI EINS DED INCH	FLOW VRV VARIABLE REFI	RIGERANT		$\Box$	THERMOSTAT
FPM FEET PER MINUTE GC GENERAL CONTRACTOR	W/ WITH W/O WITHOUT		CO	_	CARBON MONOXIE
GPM GALLONS PER MINUTE HOA HAND-OFF-AUTOMATIC HP HORSEPOWER	WB WET BULB WC WATER COLUM WPD WATER PRESS	IN URE DROP	DP	CO2	CARBON DIOXIDE S
HTG HEATING	XP EXPLOSION PR	OOF		FS	FLOW SWITCH
			HS	PS	HUMIDITY SENSOF
			RT	ت	REMOTE TESTING
			TS	SP	STATIC PRESSURE

# Sheet List - Mechanical

Sheet Name

Sheet Number

M-000	MECHANICAL GENERAL NOTES AND LEGEND	
M-101	HVAC PLAN	
M-102	HVAC ROOF PLAN	
M-301	MECHANICAL SCHEDULES	
M-401	MECHANICAL DETAILS	
M-501	MECHANICAL CONTROLS	
Grand total:	6	

DRIES	PIPING SYMBOLS		PIPING LINETYPE	ĒS	
MENT TO BE REMOVED OR		DIRECTION OF FLOW		EXISTING PIPIN	G TO BE REMOVED OR RELO
	&	CONTROL VALVE		EXISTING PIPIN	G TO REMAIN
ORK/EQUIPMENT TO REMAIN		THREE-WAY CONTROL VALVE	CD	CONDENSATE [	DRAIN (CD)
JSER	──────────────────────────────	SHUTOFF VALVE	ACD	AUXILIARY CON	DENSATE DRAIN (ACD)
LE DUCT (MAX. 5'-0" LONG)		CHECK VALVE	NPW	NON-POTABLE	WATER (NPW)
	——————————————————————————————————————	BALANCING VALVE WITH PRESSURE PORTS	G	NATURAL GAS (	G)
ND MANUAL VOLUME DAMPER		TRIPLE DUTY VALVE WITH PRESSURE PORTS	G	NATURAL GAS (	ON ROOF (G)
JING VANES		STRAINER	MPG	MEDIUM PRESS	URE NATURAL GAS (MPG)
		STRAINER WITH BLOWOFF	— — MPG— —	MEDIUM PRESS	URE NATURAL GAS ON ROOI
TH BELL-MOUTH FITTING & CONTROL DAMPER	Ŷ <sup>r</sup>	RELIEF / SAFETY VALVE	FOS	FUEL OIL SUPPI	LY (FOS)
		SOLENOID VALVE	FOR	FUEL OIL RETUR	RN (FOR)
	£		FOV	FUEL OIL VENT	(FOV)
	¢	GAS PRESSURE REGULATOR	LPG	LIQUEFIED PETI	ROLEUM GAS (LPG)
	<b>₽</b> A		BFW	BOILER FEED W	/ATER (BFW)
	×		HPS	HIGH PRESSUR	E STEAM SUPPLY (HPS)
EASE	, `		— — HPC— —	HIGH PRESSUR	E STEAM CONDENSATE (HPC
	<u>=</u>		LPS-	LOW PRESSURI	E STEAM SUPPLY (LPS)
			— —LPC— —	LOW PRESSUR	E STEAM CONDENSATE (LPC)
	Q			CONDENSATE F	PUMP DISCHARGE (CPD)
	Q		HWS-	HEATING HOT V	VATER SUPPLY (HWS)
		BACKELOW PREVENTER		HEATING HOT V	VATER RETURN (HWR)
	Q	PRESSURE GAUGE	CHWS-		
	U	THERMOMETER			
	P	PRESSURE AND TEMPERATURE TEST PLUG			
FLEXIBLE DUCT CONNECTION		UNION			
		FLANGE CONNECTION	CWB		ATER SUPPLY (CWS)
	个	VACUUM RELIEF VALVE		REERIGERANT	
,	₽ АV	AUTOMATIC AIR VENT		REFRIGERANT	DISCHARGE (HOT GAS) (RD)
	<u>↓ MV</u>	MANUAL AIR VENT		REFRIGERANT	SUCTION (RS)
EXHAUST GRILLE)	<u></u> Р	PRESSURE / VACUUM SWITCH	RDB	REFRIGERANT	DISCHARGE BYPASS (RDB)
SS TILE (IN ACT CEILINGS)		CLEANOUT		REFRIGERANT	VENT (RV)
GYPSUM)	a	CAP			
	+0	ELBOW UP			
DAMPER	ə	ELBOW DOWN			
D TRANSITION		TEE UP			
		TEE DOWN			
ETURN)	<del></del> ې	ELBOW UP WITH SHUT-OFF VALVE (SOV)			
INDICATING DIAMETER	5	ELBOW DOWN WITH SHUT-OFF VALVE (SOV)			
CT TAG INDICATING INTERNAL	δ+	TEE UP WITH SHUT-OFF VALVE (SOV)			
AG INDICATING INTERNAL DUCT		TEE DOWN WITH SHUT-OFF VALVE (SOV)			
	D	REDUCER			
N	<b>©</b>				
FR					
ER					
FR			HATCHING LEGE	ND	
NGS ARE INSIDE DIMENSIONS.			ENLARGED PLAN		
R DUCTWORK INSULATION AND					$\cdot$
			NOT IN SCOPE (NIS)		
				1D	
DE SENSOR			THROUGHOUT THE DF COMBINATION WITH T	RAWINGS DIFFER HE SYMBOLS TO	RENT LINETYPES ARE USED IN INDICATE THE STATUS OF IT
SENSOR			EXISTING, TO BE DEM AND/OR ITEMS WHICH	OLISHED, TO BE I ARE ANTICIPATI	INCLUDED AS PART OF NEW ED TO BE PROVIDED IN THE F
ESSURE SENSOR			THE STATUS OF ITEMS	3 USING THESE L APPEAR. PHASII	INETYPES ARE RELATIVE TO
			INTENDED TO FULLY D WHICH IS DETERMINE	DESCRIBE ALL NE	ECESSARY CONSTRUCTION F
र			RESPONSIBILITIES. AN DOCUMENTS ARE GEN	IY SUCH PHASES	DESCRIBED IN THE CONSTR INTENDED TO INDICATE A B
			URDER FOR THE SAKE	= OF DESCRIBING SED ON ANY DEV	THE PROJECT. THE FOLLON او ICE, EQUIPMENT, NOTE, LINE
STATION WITH INDICATING LIGHT					
≣			EXISTING		NEW
INSOR			DEMOLISH — —		FUTURE



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# 4. Autodesk Docs://18225B21006 | eesSummitMarket/l SMO-MEPE V23.v.

HLE PLO







- M1 TERMINATE RETURN AIR DUCT OPEN-ENDED WITH WIRE MESH SCREEN.
- M2 SUSPEND FAN FROM STRUCTURE ABOVE ACCORDING TO MANUFACTURER'S MINIMUM CLEARANCES. COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER FOR SUPPORT. COORDINATE WITH FIRE ALARM INSTALLER FOR ANY CODE REQUIRED FAN SHUT DOWN UPON SPRINKLER ACTIVATION.
- M3 ROUTE STAINLESS STEEL EQUIPMENT FLUE AND COMBUSTION AIR UP TO ROOF. SIZE PER MANUFACTURER RECOMMENDATIONS. TERMINATE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- M4 ROUTE STAINLESS STEEL EQUIPMENT FLUE AND COMBUSTION THROUGH SIDE WALL. SIZE PER
- MANUFACTURER RECOMMENDATIONS. TERMINATE PER MANUFACTURER INSTALLATION INSTRUCTIONS.
- M5 PROVIDE MINIMUM 18"X18" ACCESS PANEL FOR SERVICING OF EQUIPMENT.
- M6 SUPPLY AIR DUCTWORK SHALL BE ROUTED THROUGH STRUCTURAL TRUSSES. COORDINATE DUCT ROUTING WITH STRUCTURAL ENGINEER PRIOR TO FABRICATING DUCTWORK. SUPPLY DUCTWORK SHALL HAVE 2" LINER FOR SOUND ATTENUATION.
- M7 ROUTE DUCTWORK IN SOFFIT. MOUNT SUPPLY GRILLES ON SOFFIT SIDEWALL EQUAL DISTANCE APART.
- M8 UNDERCUT DOOR 1/2" FOR AIR TRANSFER.M9 PROVIDE TRANSFER GRILLE MOUNTED AT LEAST 13' AFF.
- M10 PROVIDE 8"X8" RETURN AIR OPENING WITH BALANCING DAMPER IN VERTICAL RETURN AIR DUCT. BALANCE TO 200 CFM.
- M11 REFER TO ROOF PLAN FOR CONTINUATION OF DUCTWORK.







ALESSANDRO . SPINELLI

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1 △	Addendum 1 DESCRIPTION	12/22/23 DATE									
PROJEC	CT NO:	18225R21006									
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DATE:		11/01/2023									
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HVAC PLAN											



PLOT FILE F





M12 REFER TO HVAC PLAN FOR CONTINUATION OF DUCTWORK. M13 ROUTE REFRIGERANT PIPING TO ASSOCIATED FAN COIL UNIT. SIZE AND ROUTE PER MANUFACTURER INSTRUCTIONS.

M14 FINAL GRILLE LOCATIONS SHALL BE FIELD COORDINATED WITH STRUCTURAL AND ARCHITECT PRIOR TO STARTING

WORK. M15 CONNECT RETURN AIR DUCT INTO RTU PLENUM CURB. M16 PROVIDE DUCT SILENCER ELBOW EQUIVALENT TO KINETICS

KCES. M17 PROVIDE RETURN AIR DUCTWORK WITH 2" LINER FOR SOUND ATTENUATION. DUCTWORK SHALL STILL BE INSULATED AND JACKETED PER SPECIFICATIONS AS EXTERIOR DUCTWORK.



2 RTU RETURN AIR 1/4" = 1'-0"









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M-102

MARK	MANUFACTURER	MO
MS 1	MITSUBISHI	MSZ-C
NODEL N COMPLE ARE THE NOTES:	NUMBERS SHALL NO TE DESCRIPTION, N BASIS FOR THE DE	)t be c Iotes / Sign.
A. C	CONTRACTOR SHAL	L VERI
3. L ` [	DIVISION 26 CONTRA	
). F E. F	PROVIDE WITH INTE PROVIDE CONDENSI	GRAL C ER COI

	OUTSIDE A	AIR REQUIREM	ENTS, IN	AC-2018 (I	P)
SINGLE-ZONE S	YSTEMS ONLY	MULTI-ZONE SYSTEMS ONLY	FLOOR AREA	SYSTEM AVERAGED	:
SYSTEM	SINGLE ZONE WORST CASE	SYSTEM VENTILATION	SERVED	AREA-BASED	PC
ſED	ZONE AIR DISTRIBUTION	EFFICIENCY [Ev]	BY SYSTEM [As]	OUTDOOR AIR RATE	
			(05)		

		SINGLE-ZONE S	TOTENIO UNLT	
SYSTEM	SYSTEM TAB NAME	SINGLE-ZONE SYSTEM	SINGLE ZONE WORST CASE	SYSTEM VENTILAT
DESIGNATION	OR LIST 'SINGLE'	ASSOCIATED	ZONE AIR DISTRIBUTION	EFFICIENCY [Ev]
		VENTILATION ZONE	EFFECTIVENESS [Ez]	
RTU-1	SINGLE ZONE	108 NW FARMERS' MARKET	0.80	-
RTU-2	SINGLE ZONE	108 SE FARMERS' MARKET	0.80	-
FCU-1	MULTIZONE FCU-1	-	-	0.55
FCU-2	MULTIZONE FCU-2	-	-	0.75
FCU-3	MULTIZONE FCU-3	-	-	0.66
GENERAL NOTES:				
1. VENTILATION CALCULA	TIONS BASED ON IMC-2018.			

SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.

SINGLE ZONE SYSTEMS (Vot = Voz): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH INC-2018 VRP AND ASHRAE 62.1-2016 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS CALCULATED WITH ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND Ev.

... VENTILATION AIR PROVIDED VIA TRANSFER FROM SPACES/RETURN PLENUM SERVED BY AHU-X. SYSTEM INCLUDED IN MULTIPLE ZONE CALCULATIONS. AIRFLOW IS FOR EXHAUST MAKEUP AS REQUIRED BY THE VENTILATION STANDARD.

	ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT)																																	
							SUPP	LY FAN				COOLING COIL GAS FIRED HEAT EXCHANGER								ABS	ELECTRICAL													
													E	٩T	L	AT		MIN	IEFF				NOM	MIN	EAT	LAT		MAX	MIN	MIN				
			NOMINAL	UNIT	FAN		ESP	TSP	N	DM VFD				(°F			REFR			MIN NO	MAX VEL	MIN OUT	INPUT	EFF	(°F	(°F	MIN NO	VEL	OA	OA				אן SC אונ
MARK MANUFA	ACTURER	MODEL	TONS	TYPE	TYPE	CFM	(IN)	(IN) E	3HP   F	P (Y/N)	TH (MBH)	SH (MBH)	(°F DB)	WB)	(°F DB)	(°FWB)	TYPE	(EER)	(IEER)	STAGES	(FPM)	(MBH)	(MBH)	(%)	DB)	DB)	STAGES	(FPM)	(CFM)	(CFM)	V/PH	MCA	MOCP T	YPE
RTU 1 TR	RANE	YSJ300A3S0H	25	SINGLE	BC	8500	0.75	1.27	1.17 0.	00 Yes	286.9	210.7	78.4	65.5	55.9	54.4	R-410A	9.8	13.5	3	550	324.0	400.0	81	55	90.0	MOD	600	1700	0	208 V / 3PH	119	150	NF
RTU 2 TR	RANE	YCD330CEP*2D1CECA0C	30	SINGLE	FC	10000	0.75	1.85 (	6.64 7.	50 Yes	331.2	255.3	77.9	65.1	54.7	54.2	R-410A	10.9	14.9	3	550	486.0	600.0	81	57	90.0	MOD	600	1700	0	208 V / 3PH	153	175	NF

MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN. NOTES:

- REFER TO ROOFTOP UNIT CONTROL MATRIX FOR ADDITIONAL UNIT FEATURES, COMPONENTS, MODULES, ACCESSORIES, AND CONTROLS THAT SHALL BE PROVIDED WITH THE EQUIPMENT. EQUIPMENT SIZED FOR 105 °F AMBIENT TEMPERATURE. PROVIDE 4" MERV 14, EFFICIENT PLEATED THROWAWAY AIR FILTERS.
- PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
- PROVIDE FACTORY MOUNTED VARIABLE FREQUENCY DRIVE TO FACILITATE MODULATING FAN SPEED CONTROL. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
- PROVIDE SINGLE POINT POWER CONNECTION. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
- PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. SPECIFIED FAN TSP INCLUDES EXTERNAL DUCT AND INTERNAL FILTER, COIL, AND CASING LOSSES. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY.
- PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP. CURB TYPE WITH DRAWINGS. Q.
  - PROVIDE CURB DESIGNED TO WITHSTAND HURRICANE WIND FORCES. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT.
- COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL. PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.

CON	IPUTER ROOM UNIT SCHED	ULE
	EVAPORATOR SECTION	CONDENSING S

					EVAPOR	ATOR SECTIO	N							
										AMB				
EL	REFR TYPE	CFM	TC (MBH)	(°F DB)	(°F WB)	V/PH	MCA	MOCP	FLA	(°F)	V/PH	MCA	MOCP	NOTES
.18NA	R-410A	420	18.0	55.0	55.0	208 V / 1PH	1	15	1	105	208 V / 1PH	14	20	A-E

5.00

TOTALS

CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED

IFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL COMMENDATIONS. R TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION. INTED THERMOSTAT BY UNIT MANUFACTURER.

JNIED THERMOSTAL BY UNIT	IVIAI
CONDENSATE PUMP.	
DIL HAIL GUARDS.	

1,059

1,930

0.087

0.016

MARK	MANUFACTURER								
FCU 01	TRANE								
FCU 02	TRANE								
FCU 03	TRANE								
MODEL N NOTES AI NOTES:	MODEL NUMBERS SHALL NO NOTES AND SPECIFICATION								
A. A: B. E C. PI D. PI	SSOCIATED COND QUIPMENT SIZED F ROVIDE 4" MERV 1 ROVIDE WITH SIDE								

U.	FROVIDE 4 MIERV 13, FLEATED THROWAWAT AIR FILTERS.
D.	PROVIDE WITH SIDE RETURN AIR CONNECTION.
E.	PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAC
	OF AUXILIARY HEATING AND COOLING CONTROLS. PROVIDE ACF
F.	DISCONNECT SWITCH PROVIDED BY DIVISION 26 CONTRACTOR.
G.	PROVIDE UNIT WITH INTEGRAL STARTER.
Н.	PROVIDE SINGLE POINT POWER CONNECTION.
J.	SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL T
Κ.	PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT
	NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVA
L.	DIVISION 28 CONTRACTOR SHALL PROVIDE SMOKE DETECTORS
M.	PROVIDE CONCRETE HOUSEKEEPING PAD.
Ν.	PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD
Ρ.	PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM M
	COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CO
Q.	PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL CONNECTIONS.

NOTES

A-B

A-B

A-B

A-B

DESIGN OA

(CFM)

2,000

1,600

4,100

N/A

N/A

0

60

3,917

MARK	SERVICE
CU 1	FCU-01
CU 2	FUC-02
CU 3	FCU-03
MODEL SPECIFI	NUMBERS SHALL CATIONS TO DET
NOTES:	
A. B. C.	PROVIDE LOW AM EQUIPMENT SIZE COORDINATE WIT DIAGRAMS INCLU
D. E.	APPURTENANCES PROVIDE LIQUID I PROVIDE PRE-EN THICKNESS AND I
F. G. H.	PROVIDE FACTOR STARTERS FOR A COORDINATE SIZ
-	

# FLOOR AREA SYSTEM AVERAGED SYSTEM SYSTEM AVERAGED REQUIRED REQUIRED SERVED POPULATION AREA-BASED PEOPLE-BASED OA INTAKE DCV OA INTAKE BY SYSTEM [As] OUTDOOR AIR RATE [Ps] OUTDOOR AIR RATE FLOW [Vot] FLOW [Vot] INTAKE FLOW [Vot] (SF) (CFM/SF) (PEOPLE) (CFM/P) (CFM) (CFM) 6,608 0.120 99.12 7.50 1,921 N/A 5,184 0.120 77.76 7.50 1,507 N/A 1.438 0.031 7 85 5.00 153 NI/A

15.38

1.74

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE

PROVIDE INSULATED PLENUM ROOF CURB WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 36 INCHES ABOVE FINISHED ROOF SURFACE. PROVIDE SLOPED CURB IF NEEDED TO MATCH ROOF SLOPE. COORDINATE WITH ROOF INSULATION THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. COORDINATE

PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. COORDINATE EQUIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.

# FURNACE/COOLING COIL SCHEDULE (NATURAL GAS HEAT)

	SUP	PLY FAN				COOLING	G COIL			GAS FIRE	D HEAT EXC	HANGER				ELECTRI	CAL		
						EA	λT	L/	۹T										
		ESP	MIN	TH	SH		(°F			MIN OUT	NOM INPUT	MIN EFF	MIN OA					STARTER	
MODEL	CFM	(IN)	HP	(MBH)	(MBH)	(°F DB)	WB)	(°F DB)	(°F WB)	(MBH)	(MBH)	(%)	(CFM)	V/PH	MCA	MOCP	DISC TYPE	TYPE	NOTES
TWE07243BAA	2400	0.4	1.00	73.1	58.6	81.7	67.3	59.5	58.1	110.2	140.0	80	760	208 V / 3PH	8	20	NF	NF	A-M,P,Q
4PXC+S8X1B	1200	0.4	0.75	37.1	28.6	79.9	66.9	58.3	57.6	53.2	80.0	80	350	120 V / 1PH	13	20	NF	NF	A-M,P,Q
4PXC+S8X1B	800	0.4	0.00	22.5	19.4	77.1	63.9	55.1	54.9	26.6	40.0	80	100	120 V / 1PH	7	20	NF	NF	A-L,N-Q

IOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

DENSING UNIT SHALL BE BY THE SAME MANUFACTURER. FOR 105 °F AMBIENT TEMPERATURE.

13, PLEATED THROWAWAY AIR FILTERS. E RETURN AIR CONNECTION.

DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION ATING AND COOLING CONTROLS. PROVIDE ACRYLIC, VANDAL-PROOF, LOCKING THERMOSTAT COVER.

SP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY. HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. THP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP.

TRACTOR SHALL PROVIDE SMOKE DETECTORS IN DUCTS. ETE HOUSEKEEPING PAD.

PRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS. R TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT. NOMINAL KW IS BASED ON LISTED MANUFACTURER'S STANDARD PRODUCT. UIPMENT POWER SUPPLY WITH ELECTRICAL CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.

	CONDENSING UNIT SCHEDULE										
		REFR		MIN	EFF				DISC	WEIGHT	
1ANUFACTURER	MODEL	TYPE	TH (MBH)	(EER)	(SEER)	V/PH	MCA	MOCP	TYPE	(LBS)	NOTES
TRANE	TTA07243DAA	R-410A	73.6	11.5	14.8	208 V / 3PH	23	30	NF	325	A-J
TRANE	4TTA3042D3	R-410A	42.0	11.7	14	208 V / 3PH	18	30	NF	200	A-J
TRANE	4TTR4024N1	R-410A	24.0	11.7	14.3	208 V / 1PH	14	25	NF	150	A-J

# L NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND ERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

# MBIENT CONTROL TO 0° F. ED FOR 105°F AMBIENT TEMPERATURE.

TH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING JDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE THE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER S TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM. COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY. LINE FILTER DRYER AND SIGHT GLASS. IGINEERED ROOF EQUIPMENT SUPPORTS WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 16 INCHES ABOVE FINISHED ROOF SURFACE. COORDINATE WITH ROOF INSULATION ROOF TAPER AT INSTALLED LOCATION.

RY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.

ALL MOTORS SHALL BE PROVIDED INTEGRAL WITH UNIT. ZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS. PROVIDE CONDENSER COIL HAIL GUARDS.

# GRILLE, REGISTER AND DIFFUSER SCHEDULE CONSTRUCTION TYPE FACE TYPE MOUNTING LOCATION BORDER TYPE FACE SIZE (IN) MAX NC MODEL MARK MANUFACTURER SERVICE CEG1 TITUS EXHAUST PAR STEEL PERFORATED SURFACE REFER TO PLANS CRG1 TITUS RETURN PAR STEEL PERFORATED SURFACE 24"x24" TITUS PAR STEEL 12"x12" CRG3 RETURN PERFORATED SURFACE TITUS CRG6 RETURN STEEL LOUVERED REFER TO PLANS 3FL WALL REFER TO PLANS 30 TITUS STEEL CSD2 SUPPLY OMN PLAQUE SURFACE 3 LOUVERED REFER TO PLANS CTG6 TITUS STEEL TRANSFER 3FL WALL -REFER TO PLANS TITUS WSG1 SUPPLY ALUMINUM LOUVERED WALL 300FI -TITUS SUPPLY S-DL ALUMINUM LOUVERED DUCT REFER TO PLANS 30 -

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN. NOTES:

4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.

BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR. FRONT BLADES PARALLEL TO SHORT DIMENSION.

FRONT BLADES PARALLEL TO LONG DIMENSION. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.

FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.

PROVIDE BORDER TYPE TO MATCH CEILING CONSTRUCTION WITH CONCEALED MOUNTING, AND INSULATED PLENUM BOX WITH NECK. PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.

PAINT ALL INTERIOR SURFACES SLOTS, GRILLES AND PLENUMS FLAT BLACK. PROVIDE WITH RAPID MOUNT FRAMING OPTION FOR LAY-IN TYPE DIFFUSERS INSTALLED IN A HARD CEILING.

					FA	AN S	SCH	ED	UL	E				
	SERVICE					ESP		NOM	FAN	DRIVE	VFD	ELECT	RICAL	
MARK	DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	(IN)	BHP	HP	RPM	(BELT/DIRECT)	(Y/N)	V/PH	DISC TYPE	WEIGH
EF 1	EXHAUST	GREENHECK	SUSPENDED	SQ-99-VG	725	0.5	0.22	0.25	1725	DIRECT	No	120 V / 1PH	NF	60
EF 2	EXHAUST	GREENHECK	SUSPENDED	SQ-80-VG	300	0.5	0.07	0.10	1725	DIRECT	No	120 V / 1PH	NF	50
EF 3	EXHAUST	GREENHECK	SUSPENDED	SQ-99-VG	600	0.5	0.16	0.25	1725	DIRECT	No	120 V / 1PH	NF	60
HVLS 1	CIRCULATION	BIG ASS FANS	STRUCTURE	PF8-18				2.00	86	DIRECT	No	208 V / 1PH	NF	24
HVLS 2	CIRCULATION	BIG ASS FANS	STRUCTURE	PF8-18				2.00	86	DIRECT	No	208 V / 1PH	NF	24

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

Κ.

PROVIDE BIRDSCREEN AND MOTORIZED DAMPER. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.

PROVIDE FACTORY MOUNTED DISCONNECT SWITCH. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.

PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP.

MAINTAIN MINIMUM 3 FEET VERTICAL CLEARANCE BETWEEN FIRE SPRINKLER DEFLECTOR AND FAN BLADES. PROVIDE WITH AUXILIARY CONTACTS FOR SHUTDOWN UPON NOTIFICATION OF FIRE ALARM SYSTEM.

COORDINATE MOUNTING HEIGHT WITH OTHER TRADES PRIOR TO INSTALLATION. HVLS FAN SHALL CONNECT TO BMS.

	LOUVER SCHEDULE									
MARK	AREA SERVED	SERVICE	MANUFACTURER	MODEL	SIZE (W" x H")	CFM	MIN FREE AREA (SF)	MAX VEL (FPM)	MAX APD (IN W.C.)	NOTES
EL 1	EF-1	EXHAUST	RUSKIN	ELF15J	36" x 12"	725	1.20	600	0.10	A-G
EL 2	EF-2	EXHAUST	RUSKIN	ELF15J	12" x 12"	300	0.50	600	0.10	A-G
EL 3	EF-3	EXHAUST	RUSKIN	ELF15J	36" x 12"	600	1.00	600	0.10	A-G
IL 3	FCU-3	INTAKE	RUSKIN	ELF15J	12" x 12"	100	0.25	400	0.10	A-G
IL 2	FCU-1 + FCU-2	INTAKE	RUSKIN	ELF15J	36" x 20"	1110	2.47	450	0.10	A-G

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN. NOTES:

PROVIDE 1/4" MESH ALUMINUM BIRD SCREEN. Α.

PROVIDE ANODIZED FINISH. COLOR AS SELECTED BY ARCHITECT. FRAME TYPE SHALL MATCH WALL CONSTRUCTION, COORDINATE WITH ARCHITECT.









RESS DROP (IN	
W.C.)	NOTES
0.10	C,G,I-L
0.10	C,G,I-L
0.10	C,G,I-L
0.10	C,E,I-L
0.10	A-C, I-L
0.10	C,E,I-L
0.10	A-D, F-K
0.10	A-D, F-K





	DATE							
PROJECT NO:	18225R21006							
STATUS:	PERMIT SET							
DATE:	11/01/2023							
DRAWN BY:	LJ/EW							
CHECKED BY:	AS							
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MECHANI	CAL							
SCHEDU	LES							

M-301



4 LOUVER INSTALLATION DETAIL NTS

3 IN-LINE FAN DETAIL NTS

CONDENSING UNIT SUPPORT DETAIL

# 1 CEILING DIFFUSER DETAIL NTS



DESCRIPTION DATE

18225R21006

PROJECT NO:

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INTERIOR

NIMBER PE-2022017017 ALESSANDRO . SPINELLI

LICENSE # PE-2022017017





# **SEQUENCE OF OPERATIONS** FAN COIL UNITS

The sequence of operations is organized into the following main categories: operating modes; control setpoint resets; safeties, overrides and interlocks; and component control loops. The operating modes describe the criteria that either enable or disable the various modes of operation. If a mode of operation is not listed within a component control loop section then that mode of operation has no direct influence on the operation of the component. The control setpoint reset section describes the logic and reference variables that will be used to reset control setpoints to a new value within its reset range. The safeties, overrides, and interlocks section outlines the hardwired interlocks that are required to meet life safety requirements. Safeties and interlocks take precedence over all other control strategies outlined in this document. The control responses of each component for the various modes of operation are described in the component control loop sections. Setpoints shall be adjustable (adj.) as noted.

The sequence of operations, the points list and control diagrams shall be used to provide a complete description of the control philosophy for the controlled equipment. Individual setpoint values, reset ranges, and alarm action levels are listed in the points list. Components and control sensor locations are graphically depicted on the control diagram. The controls contractor shall be responsible for coordinating any necessary time delay setpoints to establish stable system operation. GENERAL DESCRIPTION

The fan coil unit(s) described by this sequence of operations consist(s) of a constant speed supply fan, DX cooling coil, and gas heating furnace that operate to provide heating, ventilation, and air conditioning for the conditioned spaces as shown on the drawings.

# **OPERATING MODES** OCCUPIED MODE:

The unit shall be in occupied mode per the Project Design Conditions Schedule shown on the control drawings. COOLING MODE:

The unit shall be in cooling mode when the zone temperature (Z-T) rises above the dead band (Z-T-DB). HEATING MODE:

The unit shall require a manual reset to exit Freeze Protection Level 2.

The unit shall require a manual reset to exit Freeze Protection Level 2.

The unit shall be in heating mode when the zone temperature (Z-T) falls below the dead band (Z-T-DB).

UNOCCUPIED MODE: The unit shall be in unoccupied mode for all periods not included in the occupied hours of operation. Overrides of unoccupied schedule are defined at the zone level control

FREEZE PROTECTION MODE LEVEL 1: The unit shall be in Freeze Protection Mode Level 1 when:

The Supply Air Temperature (SAT) is less than the Level 1 Low Limit Temperature Alarm Setpoint (LLT1-SP). When in Freeze Protection Mode Level 1, an alarm shall generate at the operator workstation.

The alarm shall automatically reset when the temperature is above the alarm setpoint for a duration that exceeds the Freeze Protection Level 1 Delay (FZ-DLY) setpoint. FREEZE PROTECTION MODE LEVEL 2: The unit shall be in Freeze Protection Mode Level 2 when:

The Low Limit Temperature Controller 2 (LLT2) activates by sensing an air temperature less than its alarm setpoint. When in Freeze Protection Mode Level 2, an alarm shall generate at the operator workstation.

CONTROL SETPOINT RESETS

# Not used.

# SAFETIES, OVERRIDES AND INTERLOCKS SMOKE DETECTOR INTERLOCK:

The unit shall be disabled via hard wired interlock at the fan start circuit on activation of a system smoke detector. FIRE ALARM CONTROL PANEL INTERLOCK:

The unit shall be disabled via hard wired interlock at the fan start circuit upon receipt of signal from the fire alarm control panel.

MOTORIZED DAMPER AT AIR INTAKE/EXHAUST INTERLOCK: Motorized isolation dampers located at air intake and exhaust locations associated with the air handling unit shall be interlocked to be open when the unit fans are on, subject to the warm-up/cool-down modes.

LEAK DETECTION INTERLOCK (FCU-CND): The supply fan shall automatically shut down and the cooling coil shall be disabled upon detection of water in the overflow drain pan.

FREEZE PROTECTION MODE LEVEL 2 INTERLOCK: Disable the supply fan via hard wired interlock with the Level 2 Low Limit Temperature (LLT2) controller.

# COMPONENT CONTROL LOOPS

SUPPLY FAN CONTROL When in Occupied Mode:

- The fan shall be ON When in Unoccupied Mode
- The fan shall be OFF. On a call for cooling/heating or override signal from the zone level, the fan shall operate as in occupied mode until the call is cleared or

# the override is removed. When in Freeze Protection Level 1 Mode:

Operate as described in Occupied Mode. When in Freeze Protection Level 2 Mode:

Turn the fan off.

# MINIMUM OUTSIDE AIR DAMPER (MOA) When in Occupied Mode:

The damper shall be open

When in Unoccupied Mode: The damper shall be closed.

When in Freeze Protection Level 2 Mode: Close the OA damper. Open the RA damper to the fully open position.

FILTER MONITORING When in All Modes:

The controller shall monitor the fan runtime to provide maintenance reminder at 50% of filter elapsed time of 1100 hours (adj.) and an alarm at 100% elapsed time of 2200 hours (adj.). COOLING COIL DX VARIABLE CONTROL (SINGLE COMPRESSOR)

When in Occupied Mode:

When in Cooling Mode: The compressor shall stage or modulate (subject to the unit manufacturers standard safeties) to maintain the zone temperature setpoint (Z-T).

When in Heating Mode: The compressor shall be OFF.

When in Unoccupied Mode: The compressor shall be OFF

On a call for cooling or override signal from the zone level the compressor shall operate as in occupied mode until the call is cleared or the override is removed. HEATING COIL- GAS STAGED

Operate the natural gas heating coil and burner assembly subject to the unit manufacturers standard safeties. The natural gas heater remains off until Supply Air Fan (SF-ST) is proven on.

When in Occupied Mode:

When in Cooling Mode: Turn off the coil.

When in Heating Mode: Operate coil stages to maintain the Zone Temperature (Z-T) at the Zone Temperature Heating Setpoint (Z-T-H).

When in Unoccupied Mode: When in Cooling Mode:

Turn off the coil. When in Heating Mode:

Operate coil stages to maintain the Zone Temperature (Z-T) at the Zone Temperature Heating Setback Setpoint (Z-T-H-SB). When in Freeze Protection Mode Level 2:

# Turn off the coil.

	POINTS L	.IST - F	AN CO	L UNI	Г		
POINT ID	DESCRIPTION	POINT	DEFAULT	FAIL	STATUS	ALARM	NOTES
		TYPE	SET POINT	POSITION	ALARM	RANGE	
AIR SENSING							
SAT	SUPPLY AIR TEMPERATURE	AI			Х		
LLT1-SP	LEVEL 1 LOW LIMIT TEMPERATURE ALARM	AV	42 F		Х	SAT < LLT1-SP	A
LLT2	LOW LIMIT TEMPERATURE CONTROLLER 2	BI	35 F		Х	ON ACTIVIATION	A
ZONE LEVEL SENS	ORS				I		1
Z-T	ZONE TEMPERATURE	AI	SCHED.				A, B
Z-T-DB	ZONE TEMPERATURE DEADBAND	BV	5 F				A
SUPPLY FAN	1						1
SF-C	SUPPLY FAN COMMAND (START/STOP)	BO					
SF-CO	SUPPLY FAN CONTROL OUTPUT - SPEED	AO					
SF-ST	SUPPLY FAN STATUS	BI			Х	SF-ST <> SF-C	
MINIMUM OUTSIDE	AIR DAMPER (2-POSITION)			1	1		
MOD-C	OUTSIDE AIR DAMPER COMMAND	BO		NC			
MOD-ST	OUTSIDE AIR DAMPER STATUS (END SWITCH)	BI			Х	MOD-ST <> MOD-C	
COOLING COIL - D	X BINARY STAGED						
DX-C-X	DX COMPRESSOR STAGE "X" COMMAND	BO					С
DX-ST-X	DX COMPRESSOR STAGE "X" STATUS	BI			Х	DX-ST <> DX-C	С
DX-RUN-X	DX COMPRESSOR STAGE "X" RUNTIME	AV					С
LEAK DETECTION							
FCU-CND	CONDENSATE OVERFLOW DETECTION	BI			Х	ON ACTIVATION	
HEATING COIL - GA	AS FURNACE BINARY STAGED						
HG-C-X	GAS FURNACE HEAT STAGE "X" COMMAND	BO					С
FIRE ALARM/SMOK	E DETECTORS						
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					
SD	SMOKE DETECTOR STATUS	BI			Х	ON ACTIVATION	D

. POINT SHALL BE ADJUSTABLE.

REFERENCE PROJECT DESIGN CONDITIONS SCHEDULE FOR SETPOINT. COORDINATE NUMBER OF STAGES FOR CONTROL WITH EQUIPMENT FURNISHED.

DEVICE AND RELAY FROM FIRE ALARM SYSTEM PROVIDED BY DIVISION 28. DISPLAY DETECTOR RELAY STATUS (NORMAL/ALARM) AT BAS FRONT END.







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# FAN COIL UNIT WITH GAS HEAT CONTROL DIAGRAM NTS

CLIMATE CONDITONS										BUILDING	OPERAT	ING HOURS:						
WEATHER STATION:		LE	E'S SUN	/MIT						MONDAY	- FRIDAY	TE	BD BY OW	NER				
CLIMATE ZONE:		4A								SATURDA	١Y	TE	BD BY OW	NER				
HEATING (DB):	99.6%	4.5	°F							SUNDAY		TE	BD BY OW	NER				
DESIGN HEATING CONDITIONS (DB):		4.5	°F							HOLIDAY		TE	BD BY OW	NER				
HUMIDIFICATION (DP/ HR/ MCDB):	99.6%	-5.5	°F/	4.3	gr/lb	7.8 °F												
COOLING (DB/MCWB):	0.4%	95.5	°F/	75.3	°F/													
DESIGN COOLING CONDITIONS (DB/ MCWB)	:	95.5	°F/	75.3	°F/	]												
DEHUMIDIFICATION (DP/ HR/ MCDB):	0.4%	75.4	°F/	137.9	gr/lb	86.0 °F												
SPACE / UNIT							SE								SPACE	OPERATING	HOURS	NOTE
DESCRIPTION			COOL	ING / DE-HUI	MIDIFIC	ATION		HEA		HUMIDI	FICATION	ZONE V	ENTILATI	ON RESET	OCCU	PIED / UNOCO		
	00	°F	UN	OCC °F		MAX	MIN	000	UNOCC	MIN	MAX	CONTROL	BASE	MAXIMUM				
						RH %	RH %	°F	°F	RH %	RH %	METHOD	PPM	PPM	M-F	SAT	SUN	
PUBLIC AREAS		72		80		60%	N/A	70	60	N/A	N/A	CO2	400	900	TBD	TBD	TBD	A-D

A. ZONE LEVEL SET POINT CONDITIONS SHAL ...

3. ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED. 2. ZONE LEVEL CONTROLS SHALL BE CAPABLE OF OPERATING WITH INDEPENDENT OCCUPANCY SCHEDULES.

ROOFTOP UNIT CONTRO	DL MATR	IX	
CONTROL FEATURE	UNITS	RTU-1&2 SETPOINT OR Y/N	POINT TYPE INTERFACE WITH DDC (READ/WRITE)
BUILDING AUTOMATION SYSTEM (BAS)			
BAS MONITORING AND MANAGEMENT INTERFACE		Ν	BACNET
SETPOINTS			
COOLING - OCCUPIED SETPOINT	°F	75	READ/WRITE
COOLING - UNOCCUPIED SETPOINT	°F	80	READ/WRITE
HEATING - OCCUPIED SETPOINT	°F	70	READ/WRITE
HEATING - UNOCCUPIED SETPOINT	°F	60	READ/WRITE
DEHUMIDIFICATION SETPOINT - HUMIDITY SENSOR FEEDBACK	% RH	60%	READ/WRITE
PROGRAMMED CONTROL FEATURES			
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - PROGRAMMABLE THERMOSTAT		Y	READ
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - SCHEDULED THROUGH BAS		Ν	READ
MORNING WARM-UP SEQUENCE		Y	WRITE
MORNING COOL-DOWN SEQUENCE		Y	WRITE
EQUIPMENT ACCESSORIES AND CONTROL MODULES			
OUTSIDE AIR DAMPER - MOTOR OPERATED (MODULATING)		Y	READ POSITION
INTEGRATED ECONOMIZER - DIFFERENTIAL ENTHALPY ENABLE (OA ENTHALPY < RA ENTHALPY)	BTU/LB	Y	READ
ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM		Y	READ
RELIEF - VARIABLE VOLUME POWERED EXHAUST FAN	IN. W.C.	Y	READ STATUS
COOLING COIL (DX - VARIABLE SPEED)		Y	READ STATUS
DEHUMIDIFICATION - HOT GAS REHEAT		Y	READ STATUS
HEATING COIL (NATURAL GAS)		Y	READ STATUS
SUPPLY FAN CONTROL METHODS			
ON DURING OCCUPIED HOURS		Y	
CYCLE WITH LOADS DURING UNOCCUPIED HOURS		Y	
OPTIMUM START SEQUENCE		Y	
VARIABLE VOLUME - MODULATE FAN SPEED IN RESPONSE TO ZONE TEMPERATURE		Ν	READ STATUS
SAFETIES, INTERLOCKS, AND ALARMS			
GAS VALVE SAFETY		Y	READ
RETURN AIR SMOKE DETECTOR - SAFETY SHUTDOWN		Y	READ
LOW LIMIT FREEZESTAT - FREEZE PROTECTION SAFETY SHUTDOWN		Y	READ
FIRE ALARM CONTROL PANEL - SAFETY SHUTDOWN INTERLOCK		Y	READ

DIV. 23 CONTRACTOR SHALL PROVIDE CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S), IUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN NTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINA BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP. REFERENCE DIVISION SPECIFICATIONS FOR INDIVIDUAL DEVICE REQUIREMENTS.

- PROVIDE UNIT WITH FACTORY MOUNTED DDC CONTROLS AND INTEGRATE INTO THE BAS. BAS SHALL PROVIDE REMOTE SETPOINT ADJUSTMENT, SCHEDULING, AND MONITORING OF THE POINTS LISTED IN THE SCHEDULE FOR EACH UNIT
- DIVISION 23 CONTRACTOR SHALL PROVIDE DEVICE.
- IF SETPOINT VALUE IS LISTED, IT INDICATES ECONOMIZER HIGH-LIMIT SHUTOFF. UNIT SHALL BE IN ECONOMIZER IF CONDITIONS ARE LESS THAN SETPOINT. THE FOLLOWING SENSORS SHALL DETERMINE ECONOMIZER ON POINT. OUTSIDE AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. RETURN AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. OUTSIDE AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
- RETURN AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE. DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER. PROVIDE UNIT WITH AN FDD SYSTEM CONSISTING OF PERMANENTLY INSTALLED OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR TEMPERATURE SENSORS. THE UNIT CONTROLLER SHALL AT A MINIMUM BE CAPABLE OF PROVIDING SYSTEM STATUS OF ECONOMIZER, COMPRESSOR, HEATING, MIXED AIR LOW LIMIT ALARM, AND SENSOR VALUES. EACH OPERATING MODE SHALL BE CAPABLE OF INDEPENDENTLY OPERATING FOR TESTING. THE SYSTEM SHALL REPORT FAULTS TO AN APPLICATION ACCESSIBLE BY SERVICE PERSONNEL. THE FOLLOWING FAULTS SHALL BE
- DETECTED: AIR TEMPERATURE SENSOR FAILURE, ECONOMIZER ENABLED/DISABLED WHEN ECONOMIZER SHOULD BE OFF/ON, RESPECTIVELY, DAMPER NOT MODULATING, AND EXCESS OUTSIDE AIR.
- POWERED EXHAUST FAN SHALL STAGE ON AND OFF ACCORDING TO DAMPER POSITION. POWERED EXHAUST FAN SHALL STAGE ON AND OFF ACCORDING TO BUILDING STATIC PRESSURE SENSOR. DIVISION 23 SHALL PROVIDE SENSOR.
- EQUIPMENT MANUFACTURER SHALL PROVIDE MODULATING DAMPER AND CONTROLS CAPABLE OF ADJUSTING THE DAMPER POSITION TO MAINTAIN THE SCHEDULED OUTSIDE AIR ON THE DRAWINGS ACROSS ALL FAN SPEEDS. DIV. 23 CONTRACTOR SHALL PROGRAM MULTIPLE DAMPER POSITION SETPOINTS IN THE FIELD DURING TESTING AND BALANCING TO MAINTAIN MINIMUM VENTILATION WHEN NOT IN ECONOMIZER. DAMPER SHALL BE CLOSED DURING
- UNOCCUPIED HOURS. UNITARY CONTROLLER SHALL MODULATE AND/OR CYCLE SUPPLY FAN SPEED SETTING AND COIL CAPACITY STAGES
- SUBJECT TO THE INTERNAL SAFETIES AND SEQUENCES TO MAINTAIN SCHEDULED SETPOINTS. PROGRAM DEHUMIDIFICATION SEQUENCE BASED ON RETURN AIR HUMIDITY.
- PROVIDE MODULATING FAN CONTROL WITH MINIMUM SPEED LESS THAN 50% OF FULL SPEED. AT MINIMUM SPEED THE FAN SHALL DRAW NO MORE THAN 30% OF FULL SPEED POWER.
- DURING OPTIMUM START SEQUENCE, THE UNIT SHALL SUPPLY THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR
- OR SUPPLY 3 COMPLETE AIR CHANGES DURING THE 1-HOUR PERIOD BEFORE NORMAL OCCUPIED MODE. DIVISION 28 CONTRACTOR SHALL PROVIDE DEVICE.

SEQUENCE OF OPERATIONS COOLING ONLY SPLIT SYSTEM – IT ROOM

The sequence of operations is organized into the following main categories: operating modes; control setpoint resets; safeties, overrides and interlocks; and component control loops. The operating modes describe the criteria that either enable or disable the various modes of operation. If a mode of operation is not listed within a component control loop section then that mode of operation has no direct influence on the operation of the component. The control setpoint reset section describes the logic and reference variables that will be used to reset control setpoints to a new value within its reset range. The safeties, overrides, and interlocks section outlines the hardwired interlocks that are required to meet life safety requirements. Safeties and interlocks take precedence over all other control strategies outlined in this document. The control responses of each component for the various modes of operation are described in the component control loop sections. Setpoints shall be adjustable (adj.) as noted.

The sequence of operations, the points list and control diagrams shall be used to provide a complete description of the control philosophy for the controlled equipment. Individual setpoint values, reset ranges, and alarm action levels are listed in the points list. Components and control sensor locations are graphically depicted on the control diagram. The controls contractor shall be responsible for coordinating any necessary time delay setpoints to establish stable system operation. GENERAL DESCRIPTION

The fan coil unit(s) described by this sequence of operations consist(s) of a constant speed supply fan and DX cooling coil that operate to provide air conditioning for the conditioned spaces as shown on the drawings.

# OPERATING MODES OCCUPIED MODE:

Not used

The unit shall be in occupied mode per the Project Design Conditions Schedule shown on the control drawings. COOLING MODE: The unit shall be in cooling mode when the zone temperature (Z-T) rises above the dead band (Z-T-DB). CONTROL SETPOINT RESETS

SAFETIES, OVERRIDES AND INTERLOCKS FIRE ALARM CONTROL PANEL INTERLOCK:

The unit shall be disabled via hard wired interlock at the fan start circuit upon receipt of signal from the fire alarm control panel. LEAK DETECTION INTERLOCK (FCU-CND): The supply fan shall automatically shut down and the cooling coil shall be disabled upon detection of water in the overflow drain pan. COMPONENT CONTROL LOOPS

# When in Occupied Mode: The fan shall be ON.

SUPPLY FAN CONTROL

FILTER MONITORING When in All Modes:

# The controller shall monitor the fan runtime to provide maintenance reminder at 50% of filter elapsed time of 1100 hours (adj.) and an alarm at 100% elapsed time of 2200 hours (adj.). COOLING COIL DX VARIABLE CONTROL (SINGLE COMPRESSOR)

When in Occupied Mode: When in Cooling Mode:

The compressor shall stage or modulate (subject to the unit manufacturers standard safeties) to maintain the zone temperature setpoint (Z-T).

🔿 MINI SPLIT CONTROL DIAGRAM

POINT ZONE LEV Z-T Z-T-DE SUPPLY F SF-C SF-ST COOLING DX-C DX-ST DX-RU LEAK DET FCU-C **FIRE ALA** FA-SD POINT SHALL BE ADJUSTABLE.

# **SEQUENCE OF OPERATIONS** RR EXHAUST FAN

GENERAL DESCRIPTION The units described by this sequence consist of a constant speed fan to exhaust the spaces shown in the

OPERATING MODES

drawings.

OCCUPIED MODE: The fan shall be in occupied mode during occupied hours per the project design conditions schedule shown on the control drawings

**UNOCCUPIED MODE:** The fan shall be in unoccupied mode for all periods not included in the occupied hours of operation.

CONTROL SETPOINT RESETS Not Used.

# SAFETIES, OVERRIDES AND INTERLOCKS FIRE ALARM CONTROL PANEL INTERLOCK

The unit shall be disabled via relay circuit signal from the fire alarm control panel. Division 28 shall provide the relay and leads from relay to unit. BAS contractor shall connect leads to unit. Display relay status (normal or alarm) at BAS front end. Unit shall reset automatically after relay signal has been cleared.

COMPONENT CONTROL LOOPS

# FAN CONTROL - CONSTANT VOLUME BAS SCHEDULED When in Occupied Mode:



When in Unoccupied Mode: Turn off the fan.

# **POINTS LIST - BAS CONTROLLED EXHAUST FAN** DESCRIPTION POINT FΔII

POINT ID	DESCRIPTION	POINT		FAIL	TRENDING	GRAPHIC	STATUS	ALARM	1
		TYPE	SETPOINT	POSITION	STORAGE	DISPLAY	ALARM	RANGE	
LOBAL VALUES									
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					X		
AN									
F-C	FAN COMMAND (START/STOP)	BO							Τ
F-ST	FAN STATUS	BI						F-ST <> F-C	Τ
	OLIVIT DE DEOVIDER DY DAO OONTRAOTOR UNI	FOO NOTED							

ALL POINTS SHOWN SHALL BE PROVIDED BY BAS CONTRACTOR UNLESS NOTED OTHERWISE. PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFIER ON THE EQUIPMENT SCHEDULE (E.G. RH01-D-C) REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

A. REFERENCE GLOBAL BUILDING MONITORING SCHEDULE FOR CONTROL POINT.

1 RR EXHAUST FAN CONTROLS DIAGRAM

# **SEQUENCE OF OPERATIONS KITCHEN GENERAL EXHAUST FAN**

GENERAL DESCRIPTION The units described by this sequence consist of a constant speed exhaust fan to exhaust the catering kitchen as shown in the drawings.

OPERATING MODES OCCUPIED MODE:

NOTES

А

В

В

В

F, G

н

М

M, R

The fan shall be in occupied mode during occupied hours per the project design conditions schedule shown on the control drawings.

UNOCCUPIED MODE: The fan shall be in unoccupied mode for all periods not included in the occupied hours of operation.

CONTROL SETPOINT RESETS Not Used.

# SAFETIES, OVERRIDES AND INTERLOCKS AUTOMATIC OCCUPANCY OVERRIDE:

When in Unoccupied Mode: Override unit to Occupied Mode of operation based on input from Zone Occupancy Sensor (Z-OCC). Override shall persist until Zone Occupancy Override Delay (Z-OCC-DLY) has elapsed. FIRE ALARM CONTROL PANEL INTERLOCK:

The unit shall be disabled via relay circuit signal from the fire alarm control panel. Division 28 shall provide the relay and leads from relay to unit. BAS contractor shall connect leads to unit. Display relay status (normal or alarm) at BAS front end. Unit shall reset automatically after relay signal has been cleared.

COMPONENT CONTROL LOOPS

FAN CONTROL – CONSTANT VOLUME BAS SCHEDULED When in Occupied Mode:

Turn on the fan. Use the ECM motor for soft start and to balance the fan for constant speed operation at the scheduled airflow value.

When in Unoccupied Mode Turn off the fan.

POINT ID	DESCRIPTION	POINT		FAIL	TRENDING	GRAPHIC	STATUS	ALARM
		TYPE	SETPOINT	POSITION	STORAGE	DISPLAY	ALARM	RANGE
GLOBAL VALUES							, L	
FA-SD	FIRE ALARM SHUTDOWN AND STATUS	BV					X	
ZONE LEVEL SENS	ORS	l						
Z-OCC	ZONE OCCUPANCY SENSOR	BI						
Z-OCC-DLY	ZONE OCCUPANCY OVERRIDE DELAY	AV	1 HR					
FAN		ł						
F-C	FAN COMMAND (START/STOP)	BO						
F-ST	FAN STATUS	BI						F-ST <> F-(

PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFIER ON THE EQUIPMENT SCHEDULE (E.G. RH01-D-C)

NOTES:

. REFERENCE GLOBAL BUILDING MONITORING SCHEDULE FOR CONTROL POINT

REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

DIVISION 26 SHALL PROVIDE SENSOR WITH DRY CONTACT FOR BAS INTERFACE. POINT SHALL BE ADJUSTABLE.

(2) KITCHEN GENERAL EXHAUST CONTROL DIAGRAM

D	DESCRIPTION	POINT	DEFAULT	FAIL	STATUS	ALARM	NOTES
		TYPE	SET POINT	POSITION	ALARM	RANGE	
/EL SEN	SORS						· · ·
	ZONE TEMPERATURE	AI	SCHED.				A, B
В	ZONE TEMPERATURE DEADBAND	BV	5 F				A
AN							
	SUPPLY FAN COMMAND (START/STOP)	BO					
	SUPPLY FAN STATUS	BI			X	SF-ST <> SF-C	
COIL - D	X BINARY STAGED						
Х	DX COMPRESSOR STAGE "X" COMMAND	BO					С
X	DX COMPRESSOR STAGE "X" STATUS	BI			X	DX-ST <> DX-C	С
JN-X	DX COMPRESSOR STAGE "X" RUNTIME	AV					С
ECTION							
CND	CONDENSATE OVERFLOW DETECTION	BI			X	ON ACTIVATION	
RM/SMO	KE DETECTORS'						
)	FIRE ALARM SHUTDOWN AND STATUS	BV					



. REFERENCE PROJECT DESIGN CONDITIONS SCHEDULE FOR SETPOINT. COORDINATE NUMBER OF STAGES FOR CONTROL WITH EQUIPMENT FURNISHED.



















$\triangle$	DESCRIPTION	DATE				
PROJEC	T NO:	18225R21006				
STATUS	:	PERMIT SET				
DATE:		11/01/2023				
DRAWN	BY:	LJ/EW				
CHECKE	D BY:	AS				
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MECHANICAL CONTROLS						

M-501

STANDARD MOUNTING HEIGHTS	INUT ALL SYMBULS OR ABBR	ANNOTATION	LIGHTING	BOXES, LIGHTING CONTROL
AUDIBLE APPLIANCE (CENTERLINE) ALARM (TOP OF DEVICE) ANNUNCIATOR PANEL (TOP OF DISPLAY)	84" 46" 60"	(1) MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT	A a • • • • • • • • • • • • • • • • • • •	SWITCH LETTER DESIG BLANK = SINGLE PC 2 = TWO POLE
CONTROLS (TOP OF DEVICE) DATA WALL OUTLET EXIT SIGN (WALL MOUNTED)	46" SAME AS ADJACENT DEVICE, UNO 92"	1 PLUMBING PLAN NOTE CALLOUT	[OS] A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE	3 = THREE-WAY 4 = FOUR-WAY D = DIMMER
FIRE ALARM ANNUNCIATOR PANEL (TOP O FIRE ALARM BELL (EXTERIOR) (CENTERLIN FIRE ALARM CONTROL PANEL/UNIT (TOP O	F DISPLAY)         60"           IE)         120"           OF DISPLAY)         60"	1 ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT	□ HO	\$" F = FAN SPEED CO FH = FRACTIONAL F IH = INTEGRAL HOP
INTERCOM (TOP OF DEVICE) PULL STATION (HANDLE) RECEPTACLE	46" 46" 16"	(1) TECHNOLOGY PLAN NOTE CALLOUT	$ \begin{array}{c} \bullet \\ \bullet $	\$ 30/3/3R K = KEYED LV# = LOW VOLTAG M = MANUAL MOTO
RECEPTACLE (ABOVE COUNTER) +6" ABC RECEPTACLE (CLOCK) (CENTERLINE) RECEPTACLE (EQUIPMENT ROOMS) (TOP C	DVE BACKSPLASH/COUNTER, 40" MAX 84" DF DEVICE) 46"	1 PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED, UNO). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)	OS# = OCCUPANCY P = SPST PILOT LIG WP = WEATHER PF
RECEPTACLE (EXTERIOR) RECEPTACLE (GARAGES) REMOTE INDICATING LIGHT (EQUIPMENT R	24" 24" 24" 24" 24"	EQUIPMENT DESIGNATION (OWNER FURNISHED,	EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	30/3/3R = AMPERES # = REFER TO LIGH
REMOTE INDICATING LIGHT (HINISHED ARE SAFETY SWITCH (TOP OF DEVICE) STARTER (TOP OF DEVICE)	AS) CEILING 46" 46"		NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	
SWITCH (TOP OF DEVICE) TELEPHONE WALL OUTLET (TOP OF DEVIC TELECOMMUNICATIONS BACKBOARD	E) 46" 6"	CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR 1 FURNISHED AND INSTALLED, UNO)	LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)	
VISIBLE APPLIANCE (CENTERLINE)	REFER TO DRAWINGS 84"	CONNECTION POINT OF NEW WORK TO EXISTING		
INSTALL DEVICES/OUTLET BOXES AT THE M UNO IN THE CONSTRUCTION DOCUMENTS. ABOVE, OR ELSEWHERE IN THE CONSTRUCT	MOUNTING HEIGHTS SHOWN ABOVE MOUNTING HEIGHTS LISTED CTION DOCUMENTS, ARE AFF OR	1DETAIL REFERENCE UPPER NUMBER INDICATES DETAILE1NUMBER LOWER NUMBER INDICATES SHEET NUMBER		ONE-DIRECTION S CEILING MOUNT, T
AFG TO BOTTOM, UNO. ALL DEVICES SHALL WITH CURRENT ADA AND LOCAL REQUIREM	_ BE INSTALLED IN COMPLIANCE MENTS.	E1 SECTION CUT DESIGNATION	EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE	C# CONTACTOR (SIZE, CC
		DEDICATED EQUIPMENT ACCESS TILE	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED,	CL## TRACK-MOUNTED CUP AMPERAGE)
AFC ABOVE FINISHED CEILING M AFF ABOVE FINISHED FLOOR M AFG ABOVE FINISHED GRADE	AIN MINIMUM ALO MAIN LUGS ONLY ALV MAGNETIC LOW-VOLTAGE	ACCESS PANEL	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY	D# DAYLIGHT SENSOR (#
AHJ AUTHORITY HAVING N JURISDICTION	ACCP MAXIMUM OVERCURRENT PROTECTION	CIRCUITING & WIRING	AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN -	LC LIGHTING CONTROLS
AIC AMPERE INTERRUPTING N CAPACITY N AS AMPERE SWITCH SIZE N	V/A NOT APPLICABLE NIC NOT IN CONTRACT	OR [R#] P1 TERMINATION. REFER TO PANELBOARD SCHEDULES FOR	REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION	PS# PHOTOELECTRIC SWI
AT AMPERE TRIP SETTING N ATS AUTOMATIC TRANSFER N SWITCH	NG NON-FUSED NL NIGHT LIGHT (24HR ON)	BRANCH CIRCUIT CONDUCTOR SIZES.	POWER EQUIPMENT ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)	R##ROOM CONTROLLER (i
AV AUDIO VISUAL BAS BUILDING AUTOMATION	TESTING LABORATORY (CSA, ETL, NSF, UL)	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT	ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS	
BKR BREAKER C C CONDUIT F	OS OCCUPANCY SENSOR POLE		PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO.	DUPLEX RECEPTACLE
CAT CATEGORY F CATV CABLE TELEVISION SYSTEM F CCTV CLOSED CIRCUIT TELEVISION F	PARTIAL CIRCUIT PH/Ø PHASE PNL PANEL	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION	ELECTRICAL EQUIPMENT ON HOUSEKEEPING PAD	SPECIAL RECEPTACLE
CD CANDELA F CKT CIRCUIT F CODE APPLICABLE CODE F	PANELBOARD PROVIDE FURNISH AND INSTALL PT POTENTIAL TRANSFORMER			TWIST-LOCK TYPE REAL
ADOPTED BY JURISDICTION C CT CURRENT TRANSFORMER F CTR CENTER F	QTY QUANTITY R/REL RELOCATE RCPT RECEPTACLE	FLEXIBLE CONDUIT		
CTRL CONTROL/CONTROLLED F CVD CUMULATIVE VOLTAGE DROP F D/DEMO DEMOLITION S	RLA RUNNING LOAD AMPS RTU ROOFTOP UNIT SCCR SHORT-CIRCUIT CURRENT		200/3/150/3R = AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING	
DPDT DOUBLE-POLE, DOUBLE-THROW S DPST DOUBLE-POLE, S	RATING SD SMOKE DUCT DETECTOR SF SQUARE FEET	CONDUIT TURNING DOWN	FM = FACTORY FURNISHED AND MOUNTED NF = NON-FUSED	
SINGLE-THROW S E/ETR/EX EXISTING TO REMAIN EC ELECTRICAL CONTRACTOR S	SPDT SINGLE-POLE, DOUBLE-THROW SPST SINGLE-POLE,		NO VALUE FOR NEMA ENCLOSURE = NEMA 1	Image: The section of the section o
EF EXHAUST FAN EM EMERGENCY S EMS ENERGY MANAGEMENT	SINGLE-THROW SSBJ SUPPLY-SIDE BONDING JUMPER	CONDUCTOR TICK MARK LEGEND	STARTER, 30/3/15/1/3R = AMPERES/POLE/FUSE/NEMA STARTER	
SYSTEM S ELV ELECTRONIC LOW-VOLTAGE S EWC ELECTRIC WATER COOLER S	ST SHUNT TRIP SWBD SWITCHBOARD SWGR SWITCHGEAR	WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:	30/3/15/1/3R SIZE/NEMA ENCLOSURE RATING CB= CIRCUIT BREAKER (30/3/CB/1) FM = FACTORY FURNISHED AND MOUNTED	RECEPTACLE INSTALL
FAAPFIRE ALARM ANNUNCIATORTPANELFACPFIRE ALARM CONTROL PANELT	BB       TELECOMMUNICATIONS         BONDING BACKBONE         BD       TO BE DETERMINED		NF= NON-FUSED NO VALUE FOR NEMA ENCLOSURE = NEMA 1	
FCA FAULT CURRENT AMPS T AVAILABLE FCU FAN COIL UNIT T	GB TELECOMMUNICATIONS GROUND BUS BAR L TWISTLOCK		MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO	ADDITIONAL RECEPTA
FFFINISHED FLOORTFLAFULL LOAD AMPSFLRFLOORT	MGB TELECOMMUNICATIONS MAIN GROUND BUS BAR X/XFMR TRANSFORMER		VFD VARIABLE FREQUENCY DRIVE	FOLLOWS: C = AUTOMATICAL CH = CLOCK HANG
GC GENERAL CONTRACTOR T GEC GROUNDING ELECTRODE L CONDUCTOR L	TYP TYPICAL J/F UNDERFLOOR J/G UNDERGROUND		EMERGENCY POWER OFF BUTTON	G=RCPT PROTECT BREAKER OR UPS S = MANUALLY SW
GES GROUNDING ELECTRODE L SYSTEM L GFR GROUND FAULT RELAY L	J/S UNDERSLAB JH UNIT HEATER JNO UNLESS NOTED OTHERWISE		STOP-START PUSH BUTTON CONTROL STATION     HAND-OFF-AUTO PUSH BUTTON CONTROL STATION	SP / TVSS = SURG TR = TAMPER RES TV = TELEVISION
G GROUND L IG ISOLATED GROUND ISC SHORT CIRCUIT CURRENT W	JPS UNINTERRUPTIBLE POWER SUPPLY /D VOLTAGE DROP	(GREEN INSULATION WITH YELLOW TRACER)		USB = USB/DUPLE WP = WEATHER PI WR = WEATHER R
JB/J-BOX JUNCTION BOX LF LINEAR FEET LRA LOCKED ROTOR AMPS	/FD VARIABLE FREQUENCY DRIVE /S VACANCY SENSOR	BRANCH CIRCUIT CONDUCTOR TABLE	- X OVERHEAD PADDLE FAN	•••• MULTI-OUTLET ASSEM
LTG/LTS LIGHTING/LIGHTS V MAU MAKE-UP AIR UNIT V MAX MAXIMUM V	V WIRE V/ WITH VP WEATHER PROOF	NEUTRAL # OF POLES HOT (PHASE)* (GROUNDED)** GROUNDING***		■▼▼     TELEPHONE OUTLET       ■▼▼     DATA OUTLET
MCA MINIMUM CIRCUIT AMPACITY V MCB MAIN CIRCUIT BREAKER V MCC MOTOR CONTROL CENTER X	VR WEATHER RESISTANT VT WATERTIGHT (P EXPLOSION PROOF	1P         (1)         (1) UNO         (1)           2P         (2)         (1) UNO         (1)	B SIGNALING BUZZER	
		3P (3) (1) UNO (1)	T LV TRANSFORMER	ABOVE COUNTER, WALL, TYP FLOOR, TYP
LINETYPE LEGEND		* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED		A MULTI-SERVICE POWE POWER OUTLETS A =
THROUGHOUT THE DRAWINGS DIFFERENT COMBINATION WITH THE SYMBOLS TO IND EXISTING TO BE DEMOLISHED TO BE INCL	T LINETYPES ARE USED IN DICATE THE STATUS OF ITEMS AS	FOR A COMPLETE AND WORKING SYSTEM.		AND SPECIFICATIONS
AND/OR ITEMS WHICH ARE ANTICIPATED T THE STATUS OF ITEMS USING THESE LINE VIEW IN WHICH THEY ADDEAD DHASING C	TO BE PROVIDED IN THE FUTURE. TYPES ARE RELATIVE TO THE SHOWN IN DRAWINGS IS NOT	NEFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.		POWER OUTLETS A = AND SPECIFICATIONS
INTENDED TO FULLY DESCRIBE ALL NECES WHICH IS DETERMINED BY THE CONTRACT RESPONSIBILITIES ANY SUCH DHASES OF	SSARY CONSTRUCTION PHASING, TOR AS PART OF THEIR	*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.		<ul> <li>POKE THROUGH, A = AND SPECIFICATIONS</li> <li>-</li> </ul>
DOCUMENTS ARE GENERAL AND ONLY IN ORDER FOR THE SAKE OF DESCRIBING TH	TENDED TO INDICATE A BROAD TE PROJECT. THE FOLLOWING	REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING		U THERMOSTAT
ETC.	,, EINE, OHAFE,			
EXISTING	ARTICLE 700 OR LIFE SAFETY*	HATCHING LEGEND		
DEMOLISH — — — — NFW CRITICAL / EQ	ARTICLE 701 OR UIPMENT BRANCH*	ENLARGED PLAN		<ul> <li>SYMBOL DEMONSTRATED WITH COMBINATION WITH OTHER DEV DEVICE TYPES.</li> </ul>
FUTURE	ARTICLE 702 OR OPTIONAL*			REFER TO LIGHTING CONTROL DEV INFORMATION.
* APPLIES TO COLOR PLOTS ONLY		NOT IN SCOPE (NIS)		
SPECIAL SYSTEMS SUPPLEMENT	AL SPECIFICATIONS:			
1. PROVIDE NECESSARY BOXES, CONDU CONDUIT FOR ALL WIRING WITHIN WAI	LLS. PROVIDE CONTROL AND INTERLO	OTEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS OCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREME	3. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, NTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.	HUMIDISTATS, AC SOLENOIDS, HEAT REC
<ol> <li>2. PROVIDE LINE VOLTAGE WIRING AND M</li> <li>3. DEVICES MOUNTED ON ACOUSTICAL T</li> </ol>	VIARE FINAL CONNECTIONS TO ALL DU	N THE TILE, UNO.	AFFLIGADLE. GOURDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTAL	LATION.
4. PROVIDE BOX AND 3/4" CONDUIT FROM		IECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICABLE). COORD	DINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANICAL/CONTROLS CON	
<ol> <li>PROVIDE BOXES AND CONDUITS FOR</li> <li>AT A MINIMUM, PROVIDE EXTRA DEEP,</li> </ol>	THE FIRE PROTECTION SYSTEM LOW	VOLTAGE WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 96 ILET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GANG P	" AFF. AT A MINIMUM, PROVIDE 3/4" CONDUIT, UNLESS NOTED OTHERWISE. COORDI PLASTER RING AND 1" CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING	INATE REQUIREMENTS AND LOCATIONS V SPACE, UNLESS NOTED OTHERWISE. PR
<ul><li>DRAWINGS. COORDINATE TELEPHONE</li><li>7. PROVIDE NYLON BUSHINGS FOR ALL CONTRACT</li></ul>	ADATA BOX AND CONDUIT LOCATIONS	AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.		
8. ALL COMMUNICATIONS AND LOW VOLT	TAGE WIRING CONDUIT SHALL BE INST	ALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN	N DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.	
<ol> <li>9. MINIMUM BEND RADIUS FOR COMMUN</li> <li>10. LOW VOLTAGE COMMUNICATION ENERGY</li> </ol>	ICATIONS CONDUIT IS 6 TIMES THE INS	SIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE	INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED	OTHERWISE.
HIGHER) TO OWNER FURNISHED EQUI	PMENT AND LOW VOLTAGE STEP-DOV	VN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS A	ND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.	
12. LOW VOLTAGE CABLE SHEATH LABELS	S AND RELATED MANUFACTURER INFO	O SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. PROTECT ALL EXPOS	SED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN	CONDUIT AND THAT IS IN CABLE TRAY).
13. CABLES SHALL BE ROUTED THROUGH OWNER'S REQUIREMENTS. WHERE RE	THE BUILDING CABLE TRAY/RACEWAY QUIRED, PROVIDE CONDUIT TO ROUT	Y SYSTEM, UNLESS NOTED OTHERWISE. EXPOSED CABLING SHALL NOT BE ROUT E LOW VOLTAGE CABLING TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILIN	ED IN AREAS EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE G SPACE.	OWNER. IN AREAS WHERE EXPOSED CA
14. CONDUITS FOR COMMUNICATIONS OU	ITLETS SERVING ELEVATOR EQUIPME	NT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OV	VNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNIC	CATIONS ROOM.

AIM WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVIDE

ITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS. VIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE

EILINGS TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND

LES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE

& WIRING DEVICES	ELECTRIC	CAL ONE-LINE & RISER DIAGRAM
NATIONS AS FOLLOWS: DLE	\ ##A ∖ 3P	SWITCH (RATING AND POLES AS INDICATED)
	##A 3P ₩#AT	DRAWOUT CIRCUIT BREAKER (RATINGS, POLES, TRIP SIZE AND BREAKER TYPE AS INDICATED)
ITROL IORSEPOWER MANUAL CONTROLLER SEPOWER MANUAL CONTROLLER	##### \ ##AS 自 ##AF #####	FUSED SWITCH (RATING, POLES, FUSE SIZE AND TYPE AS INDICATED)
E / DIGITAL R STARTER DISCONNECT SENSOR HT	「□」##AS   ] ]3P   目   ##AF   支   ####	COMBINATION FUSED SWITCH/STARTER (RATING, POLES, FUSE SIZE, FUSE TYPE, NEMA STARTER SIZE, NEMA ENCLOSURE
JOF /POLES/NEMA ENCLOSURE RATING FING CONTROL DEVICE SCHEDULE	L → NEMA# ##A	CIRCUIT BREAKER (RATING, POLES, TRIP SIZE AND BREAKER
	, ###A	
JNTED OCCUPANCY SENSOR	(   )       ###T   ]   ####   ζ   NEMA#   ζ   NEMA#	TRIP SIZE, BREAKER TYPE, NEMA STARTER SIZE, NEMA ENCLOSURE TYPE AS INDICATED)
PER SCHEDULE) E SENSING NSING, CEILING/WALL MOUNT		PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
VO-DIRECTION SENSING OUR-DIRECTION SENSING		ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
RENT LIMITER (## INDICATES		TRANSFORMER (TYPE AND RATINGS AS INDICATED)
NDICATES TYPE PER SCHEDULE)	- <b>TX#</b>	SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
ROCESSOR AND/OR EQUIPMENT	→+ → ATS#	TRANSFER SWITCH (RATINGS AS INDICATED)
TES TYPE PER SCHEDULE) CH		ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH NTS = NON-AUTOMATIC TRANSFER SWITCH
INDICATES TYPE PER SCHEDULE)	ATS# (W/BYPASS)	TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
- NEMA 5-20R, UNO NEMA 5-20R, UNO	##KW GENERATOR 480Y/277V, 3Ø, 4W	
PTACLE - NEMA 5-20R, UNO		GENERATOR (RATINGS AS INDICATED)
- NEMA TYPE AS NOTED		INDICATES CONNECTION TO GROUNDING ELECTRODE
) THROUGH DEVICE		SEPARATELY DERIVED SOURCE
E*	MDP_switchboar	D ELEC ROOM
PE RECEPTACLE*	### AMPS 480Y/2	→ WITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION
ROUND TYPE RECEPTACLE*		ACCESSORIES AS INDICATED)
CLE*		
D ABOVE COUNTER OR	AS	AMMETER SWITCH
D IN CEILING*	(vs)	VOLTMETER SWITCH
D IN FLOOR*	AM	AMMETER (RANGE AS SPECIFIED OR REQUIRED)
D VIA DROP CORD*	VM	VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
D IN HORIZONTAL ORIENTATION*	DIGITAL VMAM	COMBINATION DIGITAL VOLT METER/AMMETER
LE LETTER DESIGNATIONS AS		UTILITY METER (AS REQUIRED BY UTILITY)
Y CONTROLLED ER TYPE ED BY GFCI CIRCUIT	WH <sup>D</sup> <sub>15</sub>	WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
REAM GEGI DEVICE ICHED PROTECTION STANT	-≯	CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
OOF COVER	-3⊱	POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
SISTANT	###	CIRCUIT/EQUIPMENT IDENTIFICATION (REFER TO SCHEDULE)
SLY	ERMS	ENERGY-REDUCING MAINTENANCE SWITCH
	GFR	
	PFR	
Γ; TELEPHONE AND DATA	PRM	PHASE ROTATION MONITOR
Ϋ́Ρ		
( POLE WITH TELEPHONE, DATA AND YPE, REFER TO PLANS, SCHEDULES		
BOX WITH TELEPHONE, DATA AND YPE, REFER TO PLANS, SCHEDULES	VFD J.	
YPE, REFER TO PLANS, SCHEDULES		GROUND CONNECTION WITH TEST WELL
JUNCTION/OUTLET BOX		CAPACITOR
JUNCTION/OUTLET BOX		
<sup>-</sup> JUNCTION/OUTLET BOX N/OUTLET BOX		CONTACT (OPEN OR CLOSED)
<sup>-</sup> JUNCTION/OUTLET BOX N/OUTLET BOX	$= \neq$	CONTACT (OPEN OR CLOSED) HEATER
JUNCTION/OUTLET BOX N/OUTLET BOX UPLEX RECEPTACLE, WHEN USED IN CES MEANING IS SIMILAR FOR THOSE		CONTACT (OPEN OR CLOSED) HEATER MOTOR
JUNCTION/OUTLET BOX	+ ← = ≠ - ^~ / ⊕ / ##	CONTACT (OPEN OR CLOSED) HEATER MOTOR BLOCK LOAD KW OR KVA

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70) BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

COMMISSIONING / FUNCTIONAL TESTING: CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE LANDLORD CRITERIA. GENERAL NOTES. OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- 2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
- 3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
- 4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
- 5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
- 6. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
- 7. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COORDINATE THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT, WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC; OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
- 8. WHEN CONCRETE TRENCHING/CORING IS REQUIRED, THE METHODS, DEPTHS, AND LOCATIONS SHALL BE PRE-APPROVED BY LANDLORD, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. X-RAY SLAB AS NECESSARY TO AVOID DAMAGING ANY UNDER-SLAB UTILITIES OR STRUCTURE. SLAB REPLACEMENT SHALL BE INSTALLED WITH DOWELLING AND REINFORCED CONCRETE AS DIRECTED BY THE STRUCTURAL ENGINEER. WHERE SLAB ON GRADE IS SAW-CUT AND REMOVED FOR TRENCHING THE CONTRACTOR SHALL INSTALL MOISTURE BARRIER PER LANDLORD'S REQUIREMENTS. PROVIDE 3/4" MINIMUM CONDUITS ROUTED THROUGH SLAB AND STUBBED UP INTO DEVICES. FOR SLAB ON DECK, THE FLOOR SHALL BE SLEEVED AND EQUIPPED WITH THE APPROPRIATE LISTED ASSEMBLY. PROVIDE 3/4" MINIMUM CONDUITS ROUTED BELOW SLAB, TIGHT TO STRUCTURE, AND STUBBED UP INTO DEVICES.
- 9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
- 10. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDER.
- 11. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
- 12. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
- 13. ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.
- 14. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTACLE, UNLESS NOTED OTHERWISE. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE LOCATED IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVICES LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTREAM DEVICE IF ALL PROTECTED DEVICES ARE LABELED PER CODE.
- 15. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.
- 16. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, WHERE CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.
- 17. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING. 18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH
- ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. ROUTE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRATIONS AND EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/
- LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. 20. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM OF 24" BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLING ELECTRICAL CIRCUITRY AT THIS
- DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE DUE TO FUTURE WORK. 21. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- 22. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
- 23. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.







BRIAN C. OLLIGES LICENSE # PE-2022017790



$\triangle$	DESCRIPTION	DATE			
PROJEC	T NO:	18225R21006			
STATUS:		PERMIT SET			
DATE:		11/01/2023			
DRAWN	BY:	TJL			
CHECKED BY:					
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E GEN A	ELECTRICAL GENERAL NOTES AND LEGEND				
	E-000				

 $1 \frac{\text{ELECTRICAL SITE PLAN}}{1/8" = 1'-0"}$ 

















- **ELECTRICAL PLAN NOTES:** E2 PROVIDE 1" CONDUITS WITH PULL STRINGS TO FIVE FEET
- OUTSIDE EXTERIOR WALL INDICATED FOR PLAZA SITE LIGHTING CIRCUITRY. REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR BRANCH CIRCUIT QUANTITIES AND LOCATIONS. E5 BACK-LIT MIRRORS SPECIFIED BY OTHERS. COORDINATE CONNECTION BOX INSTALLATION REQUIREMENTS WITH
- EQUIPMENT MANUFACTURER. PROVIDE SEPARATE CONTROL RELAY AS INDICATED TO CONTROL MIRROR SEPARATELY FROM GENERAL RESTROOM LIGHTING. E6 CONTROL VIA REMOTELY LOCATED ROOM CONTROLLER ON ZONE INDICATED. PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. RE: 01/E-500
- E8 PROVIDE EMERGENCY BRANCH CIRCUIT FROM LIGHTING INV1. PROVIDE AUTOMATIC LOAD CONTROL RELAY AS SPECIFIED WITH IOTA LIGHTING INVERTER. REFERENCE 01/E-500.
- E11 LIGHTING CONTROL RELAY PANEL SPECIFIED BY OTHERS. REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION. E12 REMOTELY LOCATED SWITCHES FOR CIVIL/LANDSCAPE
- LIGHTING. COORDINATE WITH SITE ELECTRICAL PLANS. E14 PROVIDE 2.25KW IOTA LIGHTING INVERTER MODEL# IIS-2250-208IN-120OUT-ST-BACNET-BATINST-5YR-OB4-IP120-2 0AMP-ON-EXTPASS OR APPROVED EQUAL. INVERTER SHALL BE EQUIPPED WITH MAINTENANCE BYPASS FOR CONNECTION OF TEMPORARY INVERTER PER NEC 700.3(F). ORDER WITH ALCR MODEL# ETS-20-DR ACCESSORY FOR EACH CIRCUIT BEING FED FROM INVERTER.
- E15 CONNECT ALL EXIT SIGNS TO UNSWITCHED LIGHTING BRANCH CIRCUIT IN SPACE. E16 FIELD LOCATE PHOTOCELL ON ROOF FACING NORTH.
- FIXTURE TO OPERATE DUSK-TO-DAWN VIA ZONE CONTROLLER INDICATED.
- E18 COORDINATE COVE LIGHTING FIXTURE MOUNTING WITH ARCHITECTURAL CEILING.





BRIAN C. OLLIGES LICENSE # PE-2022017790



1	Addendum 1 DESCRIPTION	12/22/23 DATE		
PROJEC	T NO:	18225R21006		
STATUS	:	PERMIT SET		
DATE:		11/01/2023		
DRAWN	BY:	TJL		
CHECKE	D BY:	JS		
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LIC	GHTING	PLAN		

E-101



# **ELECTRICAL PLAN NOTES:**

CONSTRUCTION DOCUMENTS.

- E3 PROVIDE SIX (6) 1"C. WITH PULL STRING TO FIVE FEET OUTSIDE EXTERIOR WALL INDICATED FOR PLAZA SITE RECEPTACLE CIRCUITRY. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND BRANCH CIRCUIT FEEDERS AS INDICATED ON CIVIL CONSTRUCTION DOCUMENTS.
- E11 LIGHTING CONTROL RELAY PANEL SPECIFIED BY OTHERS. REFERENCE LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
- E20 PROVIDE 2" C. WITH PULL STRING TO MECH/ELEC 109 FOR FUTURE CANOPY SIGNAGE. E21 PROVIDE SINGLE-GANG JUNCTION BOX AT CARD READER LOCATION AND ABOVE DOOR JAMB FOR ELECTRIC LOCK POWER. ROUTE 3/4"C FROM DOOR JAMB TO LATCH. COORDINATE FINAL CONDUIT AND CONNECTION REQUIRES WITH DOOR MANUFACTURER SPECIFIED IN ARCHITECTURAL











1	Addendum 1	12/22/23
$\triangle$	DESCRIPTION	DATE
PROJECT NO:		18225R21006
STATUS	3:	PERMIT SET
DATE:		11/01/2023
DRAWN BY:		TJL
CHECKED BY:		JS
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POWER PLAN		

E-201


ELECTRICAL PLAN NOTES: E22 RECEPTACLE IS INTEGRAL TO PACKAGED RTU EQUIPMENT. PROVIDE 120V BRANCH CIRCUIT AS INDICATED.













- ELECTRICAL PLAN NOTES:
- E1 DISCONNECT PROVIDED WITH EQUIPMENT BY DIVISION 23 CONTRACTOR.
  E10 POWERED FROM OUTDOOR UNIT. PROVIDE (2)#10AWG, (1)#10 GND IN 3/4"C. TO CONDENSING UNIT LOCATED ON ROOF.





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PROJECT NO: 18225R21006 STATUS: PERMIT SET \_\_\_\_\_ 11/01/2023 TJL DATE: DRAWN BY: CHECKED BY: JS © GLMV Architecture, Inc. All work herein is the property of GLMV Architecture, Inc. and is not to be copied or used in any way without the express written consent of GLMV Architecture, Inc. EQUIPMENT CONNECTION PLAN E-301

PLOT D





**ELECTRICAL PLAN NOTES:** E1 DISCONNECT PROVIDED WITH EQUIPMENT BY DIVISION 23 CONTRACTOR.



Z





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PATH: Autodesk Docs://18225R21006\_LeesSummitMarket/LSMO-MEPF\_













# BUIL

BUILDING BUILDING LOAD TY

BUILDING LOAD SU	MMARY (D	P)		
BUILDING OCCUPANCY: CLUB			SERVI	CE VOLTAGE:
BUILDING SQUARE FOOTAGE: 1	0950		20	)8Y/120 V
LOAD TYPE	CONNECTED LOAD	DE FA		NEC DEMAND
EXISTING LOAD (E)	0 VA	1	00%	0 VA
COOLING (C)	109638 VA	1	100%	109638 VA
HEATING (H)	0 VA		0%	0 VA
LIGHTING (L) (PER NEC-220)	36102 VA	1	25%	45128 VA
RECEPTACLES (R)	89340 VA		56%	49670 VA
MOTORS (M)	13015 VA	1	00%	13015 VA
SUPPLEMENTAL HEAT (U)	200 VA	1	00%	200 VA
MISC EQUIP (Z)	75238 VA	1	00%	75238 VA
REFRIGERATION (F)	0 VA	1	00%	0 VA
SIGNAGE (S)	0 VA	1	25%	0 VA
KITCHEN (K)	0 VA	1	00%	0 VA
LARGEST MOTOR (7.5HP)	9115 VA	1	25%	11394 VA
SHOW WINDOW (W)	0 VA	1	25%	0 VA
TRACK LIGHTING	0 VA	1	00%	0 VA
TOTAL LOAD	332648		VA	304282
TOTAL AMPACITY	923	Д	MPS	845
SERVICE AMPACITY		A	MPS	1200
SPARE CAPACITY		Д	MPS	355



**ELECTRICAL PLAN NOTES:** 

E19 PROVIDE METER AND CT CABINET PER UTILITY COMPANY STANDARDS.

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance The following calculations are based on the "Point-by-Point" method where: ISC (2) = ISC(1) X M(1) M = 1/(1+f) Feeder: f (3Ø) = 1.732 x L x Isc C X FMR: f (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 100,000 x KVA (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z C X ISC (3Ø) = 1P(sca) X P x 1.73 x Z X ISC (3Ø) = 1P(sca) X P x 1.73 x Z X ISC (3Ø) = 1P(sca) X P x 1.73 x Z X ISC (3Ø) = 1P(sca) X P x 1.73 x Z X ISC (3Ø) = 1P(sca) X P x 1.73 x Z X ISC (3B) =	
The following calculations are based on the "Point-by-Point" method where:       VOLTAGE DROP (3Ø):         ISC (2) = ISC (1) x M(1)       M= 1/(1+f)       Feeder:       f (3Ø) = 1.732 x L x lsc       XFMR:       f (3Ø) = 1P(sca) x Vp x 1.73 x %Z       %VD = ((IR x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x l x 1.73) / E         ISC (1) = short circuit current at fault point 1       C x E       100,000 x KVA       Vs       VOLTAGE DROP (1Ø):         ISC (2) = short circuit current at fault point 2       Feeder:       f (1Ø) = 2 x L x lsc C x E       XFMR:       f (1Ø) = 1P(sca) x Vp x %Z (0000 x KVA       %VD = ((IR x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x l) / E	
ISC (2) = ISC (1) x M(1)M= 1/(1+f)Feeder: $f (3\theta) = \frac{1.732 x L x Isc}{1.732 x L x Isc}$ XFMR: $f (3\theta) = \frac{1P(sca)x Vp x 1.73 x %Z}{100,000 x KVA}$ IS(sca) = Vp x M x IP(sca)%VD = ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x 1 x 1.73) / EISC (1) = short circuit current at fault point 1C x E100,000 x KVAVsVOLTAGE DROP (1\theta):ISC (2) = short circuit current at fault point 2Feeder: $f (1\theta) = \frac{2 x L x Isc}{C x E}$ XFMR: $f (1\theta) = \frac{IP(sca)x Vp x %Z}{I00,000 x KVA}$ %VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / EISC (2) = short circuit current at fault point 2Feeder: $f (1\theta) = \frac{2 x L x Isc}{C x E}$ XFMR: $f (1\theta) = \frac{IP(sca)x Vp x %Z}{I00,000 x KVA}$ %VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E	
ISC (1) = short circuit current at fault point 1C x E100,000 x KVAVsVOLTAGE DROP (1Ø):ISC (2) = short circuit current at fault point 2Feeder: $f (1Ø) = \frac{2 x L x lsc}{C x E}$ XFMR: $f (1Ø) = \frac{1P(sca)x Vp x %Z}{100,000 x KVA}$ %VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x l) / E	
ISC (2) = short circuit current at fault point 2Feeder: $f(1\emptyset) = \frac{2 \times L \times Isc}{C \times E}$ XFMR: $f(1\emptyset) = \frac{IP(sca) \times Vp \times \%Z}{100,000 \times KVA}$ %VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E	
E = Line to line volts	
IP = Primary short circuit current	
Vp = Primary voltage	
S= Secondary short circuit current	,
Vs= Secondary voltage	
L = Length of circuit	
C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot	
Feeder Types: NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer	ľ
System Voltage: 208Y/120V - 3 phase	
Fault Circuit Conductor Transformer Eault Circuit	Fault
Point (F#)         Bus/Feeder Description         Phase         Source Isc (amps)         Conduit Type/TX         Material         Quantity of Parallel Sets and Bus/ Phase & Neutral Size         Conduit Conductor         Conduit Conductor         Conductor         Conductor         Conduit Conductor	Point (F#)
1 Utility Service Point 27,757 at the secondary of the utility transformer	1
Motor Contribution 480 The connected full load motor amps (includes compressors) on the system	
2 DP 1 3 30,637 NM AL 4 Set(s) of 500 kcmil 21391 208 45 0.9 960 0.000043 0.000039 0.451027 1 0.88 27,013 0.88 27,013 -0.50% -0.50%	2
3 L1 CU 1 Set(s) of 4/0 AWG 15082 208 15 0.9 160 0.00063 0.00051 0.451027 U 0.80 24,437 -0.16% -0.16%	3
4 L2 1 3 30,637 M CU 1 Set(s) of 300 kcmil 18177 208 205 0.9 160 0.00045 0.00051 0.451027 U U U 1 Set(s) of 300 kcmil 18177 208 205 0.9 160 0.00045 0.451027 U U U U U U U U U U U U U U U U U U U	4
5 K CU 1 Set(s) of 1/0 AWG 8925 208 180 0.95 80 0.00120 0.00055 0.317560 CU 5.145 0.16 4,985 -1.57% -1.57%	5
6 M CU 1 Set(s) of 4/0 AWG 15082 208 10 0.85 160 0.00051 0.55481 0.55481 0.00051 0.00051 0.55481 0.000510000000000	6
7       RTU-1       1       3       30,637       M       CU       1 Set(s) of 3/0       AWG       12844        208       55       0.85       160       0.00079       0.00052       0.554811       I       I       I       1.092       0.48       14,642      0.69%      0.69%	7
8 RTU-2 1 3 30,637 M CU 1 Set(s) of 3/0 AWG 12844 208 40 0.85 160 0.00079 0.00052 0.554811 [Control or control or cont	8
9 CS-1 1 3 30,637 NM CU 1 Set(s) of 1/0 AWG 9317 208 140 0.9 80 0.000120 0.000044 0.451027 1.19% -1.19%	9
	$\sim$

ractor ta	ceoffs nor biddir	ng - Contract	or shall notify	y Enginee	r of an	y field c	ondition that re	esults in a chan	ge of 10% or gr	eater circuit	distance																		
thod whe	ere:																VOLTAGE	DROP (3Ø):											
M= 1/(1	+f)		Fee	eder:	f (3Ø) =	= 1.732	x L x lsc		XFMR:	f (3Ø) =	IP(sca)x V	p x 1.73 x %Z		IS(sca)=	Vp x M x IP(sc	ca)	%VD =	= ((R x cos(	arccos(pf))	+ X x sin (	(arccos(pf))	) x L/# x I x 1.73	3)/E						
,	,				• •	CxE				· · ·	100,000 x	KVA		(	Vs		VOLTAGE	DROP (1Ø):	(17)		· · · · ·	·	,						
			Fee	eder:	f (1Ø)=	= 2 x L	x lsc		XFMR:	f (1Ø)=	IP(sca)x V	p x %Z					%VD =	= ((R x cos(	arccos(pf))	+ X x sin(a	arccos(pf)))	x 2 x L/# x l) / l	E						
					( )	СхЕ				( )	100,000 x	KVA							(i //	,		,							
																	C	%VD CUM =	Cumulati	ve Voltage	Drop from	Fault Point 1 to	• Fault Point #						
																		R =	resistanc	e in ohms	per LF								
																		X =	reactance	es in ohms	s per LF								
pedance	per linear foot																												
				Feede	•r					L-L	Circuit		<b>a</b>		Conductor					Transfor	rmer			Date of 0	Calculation	s: 10/25/2023 Fault		Cumulative	Fault
Phase	Source Isc	Conduit	Motorial	Quantit	y of Pa	arallel S	Sets and Bus/	Conductor	Busway 'C'	Voltage	Length	Load Power	(Amperade)	Resistance	Reactance	Arccos (pf)	Turne	Degree		New Xfmr	Existing	Secondary	Top Cotting	f	М	Current	Voltage	Voltage Drop	Point
	(ampo)	Type/ TX	Materia	F	hase	& Neutr	ral Size		Taluo	(E)	(L)	r dotor (pr)	(/ importago)	(R)	(X)	(Radians)	Туре	Rise	KVA	Z	Xfmr Z	Voltage	Tap Setting			(amps)	Diop (7010)	(%VD)	(F#)
	27,757	at the secon	dary of the u	tility trans	former																		Source lsc + 6	6X Motor Co	ntribution =	30,637	_		1
	480	The connec	ted full load n	notor amp	s (inclu	udes co	mpressors) on	the system										_										1	
3	30,637	NM	AL	4 Set	(s) of	500	kcmil	21391		208	45	0.9	960	0.000043	0.000039	0.451027								0.134	0.88	27,013	-0.50%	-0.50%	2
3	30,637	М	CU	1 Set	(s) of	4/0	AWG	15082		208	15	0.9	160	0.000063	0.000051	0.451027								0.254	0.80	24,437	-0.16%	-0.16%	3
3	30,637	М	CU	1 Set	(s) of	300	kcmil	18177		208	205	0.9	160	0.000045	0.000051	0.451027								2.877	0.26	7,902	-1.71%	-1.71%	4
3	30,637	М	CU	1 Set	(s) of	1/0	AWG	8925		208	180	0.95	80	0.000120	0.000055	0.317560								5.145	0.16	4,985	-1.57%	-1.57%	5
3	30,637	М	CU	1 Set	(s) of	4/0	AWG	15082		208	10	0.85	160	0.000063	0.000051	0.554811								0.169	0.86	26,204	-0.11%	-0.11%	6
3	30,637	М	CU	1 Set	(s) of	3/0	AWG	12844		208	55	0.85	160	0.000079	0.000052	0.554811								1.092	0.48	14,642	-0.69%	-0.69%	7
3	30,637	М	CU	1 Set	(s) of	3/0	AWG	12844		208	40	0.85	160	0.000079	0.000052	0.554811								0.795	0.56	17,073	-0.50%	-0.50%	8
3	30,637	NM	CU	1 Set	(s) of	1/0	AWG	9317		208	140	0.9	80	0.000120	0.000044	0.451027								3.834	0.21	6,338	-1.19%	-1.19%	9
																			1 1		1 1								

EDER TAG	FEEDER DESCRIPTION
44	(4)#8, (1)#10 G, 3/4" C
104	(4)#3, (1)#8 G, 1-1/4" C
153	(3)#1/0, (1)#6 G, 1-1/2" C
173	(3)#2/0, (1)#6 G, 1-1/2" C
224	(4)#4/0, (1)#4G, 2-1/2" C
AS1204	(4) 3" C, EACH W/ (4)-500 kcmil
DEMO	DEMOLISH EXISTING FEEDERS AND CONDUITS
G30	#3/0 COPPER GROUND, 1" C
MBJ	MAIN BONDING JUMPER, #3/0
V043A	(3)#6, (1)#8 G, 3/4" C
V104C	(4)#1/0, (1)#4 G, 2" C
V224B	(4)300 kcmil, (1)#2 G, 3" C

# ONE-LINE DIAGRAM GENERAL NOTES:

- CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
- 2. REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
- 3. FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
- 4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
- 7. CIRCUIT BREAKERS RATED 1200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY PER CODE. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH OWNER ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
- 8. PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS): **ELECTRICAL UTILITY CONTACT NOTE:**
- UTILITY COMPANY: EVERGY UTILITY CONTACT: RON DEJARNETTE EMAIL: RON.DEJARNETTE@EVERGY.COM

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE): THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF 27,757A IS BASED ON AN INFINITE BUS CALCULATION AT THE UTILITY TRANSFORMER. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:

UTILITY TRANSFORMER SECONDARY VOLTAGE: 208Y/120V, 3Ø, 4W UTILITY TRANSFORMER SIZE: 500KVA, Z=5.0% OVERCURRENT PROTECTIVE DEVICE **COORDINATION STUDY GENERAL NOTE:** 

- 1. CONTRACTOR SHALL PROVIDE AN OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO DETERMINE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS, TO ENSURE SELECTIVE COORDINATION AND TO DOCUMENT ARC-FLASH HAZARDS. CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). PROVIDE ALL NECESSARY AS-BUILT INFORMATION REQUIRED FOR COMPLETION OF THE STUDY TO THE ENGINEER DOING THE STUDY. PROVIDE SUBMITTALS INDICATED WITHIN THE SPECIFICATIONS TO OWNER AND ARCHITECT/ENGINEER TO CONFIRM STUDY HAS BEEN COMPLETED. CONTRACTOR SHALL INCLUDE THE COST FOR THIS WORK IN THEIR BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. THE OWNER SHALL FURNISH INDICATED PORTIONS OF THE ELECTRICAL DISTRIBUTION EQUIPMENT TO THE CONTRACTOR FOR INSTALLATION. THE OWNER WILL ALSO PROVIDE THE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO THE CONTRACTOR. THE OWNER FURNISHED COORDINATION STUDY SHALL INCLUDE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS, ENSURE SELECTIVE COORDINATION AND DOCUMENT ARC-FLASH HAZARDS. CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES, (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). THE CONTRACTOR SHALL PROVIDE NECESSARY AS-BUILT INFORMATION TO COMPLETE THE STUDY.
- **ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:** 1. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT
- SPECIFIED IN THE CONSTRUCTION DOCUMENTS. 2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES.
- BY MANUFACTURER AND AHJ. . PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS
- WITH BUSSING. 4. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH
- RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
- 5. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

1. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP

UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED

ш Z ШО Τú BRIAN OLLIGES NUMBER PE-2022017790 Man Ollyte

**GLMV**Architecture

BRIAN C. OLLIGES LICENSE # PE-2022017790





| PANELBOARD: M (NEW)  |   
   
   | FAULT CURRENT: REFER  | TO ONE-LINE DIAGRAM<br>RATED  | EQUIPMENT GRO   | PANELBOAR   
   | RD: L1 (NEW)  | AIC RA  
  | TED: FULLY RATED   | DIAGRAM   | EQUIPMENT GR  
  |
--
---|---|---|---
---
---
--	--
BUS AMPS: 225A	
   
   | AIC RATING: FCA +10   | 0% MINIMUM  |   | BUS AMPS: 225A  
   |   | AIC RA  
  | TING: FCA +10% MINIMUM   |   |   
  |
| MAIN SIZE/TYPE: MLO  |   
   
   | SERVES: MECHAI  |   |   |   
   | .O<br>//120 V 3P/4W/  | SERVE<br>MOUN   
  | S: BOH & FARMER MAF  | RKET  |   
  |
| SUPPLIED BY: DP  |   
   
   | LOCATION: MECH/E  | ELEC  |   | SUPPLIED BY: DP   
   |   | LOCAT   
  | ION: BOH   |   |   
  |
|  |   
   
   |   |   | LINE-SIDE LUGS: ME  |   
   |   |   
  |  |   |   
  |
| CKT     DESCRIPTION       NO.     1  | LOAD     NOTES     WIRE     BKR     P       TYPE     SIZE     AMP   
   
   | PHASE PHASE<br>A B  | C PHASE P BKR WIRE  | NOTES LOAD DESCRIPTION  | NO.   
   | TYPE  | SIZE AMP A  
  | B C  | AMP SIZE  | TYPE  
  |
| 1 RP-1<br>3 RP-2   | Z 12 15 1<br>Z 12 15 1  
   
   | 100 2392 100 2392   | 2 30 10   | VD C CU-1   | 2 1 RCPT - FARME<br>4 3 RCPT - TV WA  
   | 1ER'S MARKET - 16 R<br>ALL Z  | 12         20         1         1500         1596           12         20         1     
   1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>1920 1500</td><td>1 20 12<br/>1 20 12</td><td>LZ         LTG RMS 111-118           FA         Z         FACP</td></td<>   | 1920 1500  | 1 20 12<br>1 20 12  | LZ         LTG RMS 111-118           FA         Z         FACP  
  |
| 5 WHG-2<br>7 WHG-1   | ZU 12 20 1<br>ZU 12 20 1  
   
   | 700 1872  | 700 1872 2 30 10  | VD C CU-2   | 6<br>5 RCPT - STORA<br>8 7 RCPT - TV RM   
   | RAGE R<br>M 110 - 3 Z   | 12         20         1           12         20         1         1920         960  
  | 1080   | 200 1 20 12<br>1 20 12  | Z DOOR ACCESS BOH<br>FA Z FA-RPS  
  |
| 9 MOTORIZED DAMPERS - 116  | Z 0         12         20         1           Z         12         20         1   
   
   | 50 1456   | 2 25 10   | VD Z CU-3   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  
   | IER'S MARKET - 2 R  | 12 20 1<br>12 20 1  
  | 1500 180   | 1 20 12   | R RCPT - CORR. 112  
  |
| 11 EF-1 & EF-2<br>13 EF-3  | Z         12         15         1           Z         12         15         1         1   
   
   | 372 1152  | 744 1456 2 20 12  | M B.A.F 1   | 12 11 RCPT - FARME<br>14 13 RCPT - FARME  
   | 1ER'S MARKET - 3 R<br>1ER'S MARKET - 4 R  | 12         20         1           12         20         1         1500         2500   
  |  | 360         1         20         12           2         40         8  | L INV1  
  |
| 15 TS-1 FOH<br>17 TS-1 BOH   | Z 12 20 1<br>M 12 20 1  
   
   | 100 1152  |   | M BAE-2   | 16<br>18<br>17 RCPT - FARME   
   | 1ER'S MARKET - 5 R<br>1ER'S MARKET - 6 R  | <u>12 20 1</u><br>12 20 1   
  | 1500 2500 1500   | 360 1 20 12   | B B B BCPT-EXTERIOR-3   
  |
| 19 FCU-1   | M VD 10 20 2  
   
   | 832 1152  |   |   | 20<br>21<br>21<br>21<br>20<br>21<br>20<br>21<br>20<br>21  
   | IER'S MARKET - 7 R  | 12 20 1 1500 180  
  |  | <u> </u>  | CVELLER RCPT-TRASH COMPACTOR  
  |
| 21<br>23 FCU-2   | M VD 10 20 2  
   
   | 832 1560  | 2 20 10<br>1400 1560  |   | 22 21 ROFT-TARME<br>24 23 RCPT-FARME  
   | IER'S MARKET FLOOR - 2 R  | 12 20 1<br>12 20 1  
  | 1500 0 1500  | 0 1 20  | SPARE<br>SPARE  
  |
| 25<br>27 FCU-3   | M 12 20 2   
   
   | <u>400 0 728 0</u>  |   | EQUIPPED SPACE  | 26 25 RCPT - FARME<br>28 27 RCPT - FARME  
   | 1ER'S MARKET FLOOR - 3 R<br>1ER'S MARKET FLOOR - 4 R  | 12 20 1 1500 0<br>12 20 1   
  | 1500 0   | 1 20<br>1 20  | SPARE SPARE   
  |
| 29<br>31 FOLUPPED SPACE  |   
   
   |   | 728 0 1   | EQUIPPED SPACE  | 30<br>32<br>31<br>8<br>29<br>8<br>29<br>8<br>29<br>8<br>29<br>8<br>29<br>8<br>29<br>8<br>29<br>8<br>2   
   | 1ER'S MARKET FLOOR - 5 R<br>1ER'S MARKET FLOOR - 6 R  | 12         20         1           12         20         1         1500         0  
  | 1500   | 0 1 20 1 20   | SPARE SPARE   
  |
| 33 EQUIPPED SPACE  |   
   
   | 0 0   |   | EQUIPPED SPACE  | 34<br>36<br>37<br>36<br>36<br>37<br>37<br>37<br>36<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37  
   | M 110-2 Z   | 12 20 1<br>12 20 1  
  | 1920 0   | 1 20  | SPARE SPARE   
  |
| 35 EQUIPPED SPACE<br>37 EQUIPPED SPACE   |   
   
   | 0 0   |   | EQUIPPED SPACE  | 38 37 RCPT - FARME  
   | IER'S MARKET - 10 R   | 12 20 1<br>12 20 1 1500 0   
  |  |   | SPARE   
  |
| 39     EQUIPPED SPACE       41     EQUIPPED SPACE  |   
   
   | 0 0   | 0 0 1   | EQUIPPED SPACE  | 40 39 RCPT - FARME<br>42 41 RCPT - FARME  
   | 1ER'S MARKET - 11 R<br>1ER'S MARKET - 12 R  | 12 20 1<br>12 20 1  
  | 1500 0 1500  | 0 1 20<br>0 1 20  | SPARE SPARE   
  |
|  | TOTAL LOAD (VA):  
   
   | 9973 VA 8370 VA   | 9712 VA   |   | 43 RCPT - FARME<br>45 RCPT - FARME  
   | 1ER'S MARKET - 13 R<br>1ER'S MARKET - 14 R  | 12 20 1 1500 0<br>12 20 1   
  | 1500 0   | 1 20<br>1 20  | SPARE SPARE   
  |
|  | TOTAL AMPS:   
   
   | 85 A 70 A   | 83 A  |   | 47 RCPT - R.R. LA   
   | AVATORIES 113 R   | 12 20 1<br>12 20 1  
  | 180  | 0 1 20  | SPARE   
  |
| LOAD TYPE CONNECTED  | DEMAND NEC DEMAND   
   
   | PANELBOARD NOTES  |   | PANELBOARD TOTALS   | 51 RCPT - IT RACK   
   | CK RM 118 - 1 Z   | 12 20 1 300 0<br>12 20 1  
  | 1920 0   | 1 20  | SPARE<br>SPARE  
  |
|  | FACTOR  
   
   |   |   |   | 53 RCPT - IT RAC<br>55 EQUIPPED SP  
   | CK RM 118 - 2 Z Z PACE  | 12 20 1<br>1 0 0  
  |  | 0 1 20  | EQUIPPED SPACE  
  |
| COOLING (C) 11648 VA   | 100% 11648 VA   
   
   |   |   |   | 28056 VA         57         EQUIPPED SP           28750 VA         59         FOUIPPED SP   
   | PACE PACE   |   
  | 0 0 0  | 0 1   | EQUIPPED SPACE  
  |
| LIGHTING (L) 0 VA  | 0% 0VA<br>125% 0VA  
   
   |   |   |   | 78 A  
   | TOTAL   | LOAD (VA): 18015 VA   
  | 18940 VA 13100   | VA  |   
  |
| RECEPTACLES (R)0 VAMOTORS (M)7820 VA   | 0% 0 VA<br>100% 7820 VA   
   
   |   |   |   | 80 A  
   | TOTAL   | AMPS: 156 A   
  | 164 A 109 /  | 4   |   
  |
| SUPPLEMENTAL HEAT (U) 200 VA<br>MISC FOUR (Z) 5578 VA  | 100% 200 VA<br>100% 5578 VA   
   
   |   |   |   | LOAD TYPE   
   | CONNECTED DEMAND  |   
  | NOTES  |   | PANELBOARD TOTALS   
  |
| REFRIGERATION (F) 0 VA   | 100% 0 VA   
   
   |   |   |   | EXISTING LOAD (E)   
   | LOAD FACTOR   | 0.\/A   
  |  |   |   
  |
| SIGNAGE (S)0 VAKITCHEN (K)0 VA   | 125% 0 VA<br>100% 0 VA  
   
   |   |   |   | COOLING (C)   
   | 0 VA 0%   |   
  |  |   |   
  |
| LARGEST MOTOR (2HP)2810 VASHOW WINDOW (W)0 VA  | 125% 3513 VA<br>125% 0 VA   
   
   |   |   |   | LIGHTING (L)  
   | 0 VA 100%<br>6581 VA 125%   | 0 VA<br>8226 VA   
  |  |   |   
  |
| TRACK LIGHTING 0 VA  | 100% 0 VA   
   
   |   |   |   | RECEPTACLES (R)   
   | 31200 VA 66%  | 20600 VA<br>0 VA  
  |  |   |   
  |
|  |   
   
   |   |   |   | SUPPLEMENTAL HEA  
   | AT (U) 0 VA 100%  | 0 VA<br>12275 VA  
  |  |   |   
  |
|  |   
   
   |   |   |   | REFRIGERATION (F)   
   | ) 0 VA 100%   |   
  |  |   |   
  |
|  |   
   
   |   |   |   | KITCHEN (K)   
   | 0 VA 125%<br>0 VA 100%  | 0 VA<br>0 VA  
  |  |   |   
  |
| PANELBOARD: K (NEW)  |   
   
   |   | TO ONE-LINE DIAGRAM   | EQUIPMENT GRO   |   
   | 0 VA 125%   |   
  |  |   |   
  |
|  |   
   
   |   |   |   |   
   |   | UVA   
  |  |   |   
  |
| BUS AMPS: 100A   |   
   
   | AIC RATING: FCA +10   | 0% MINIMUM  |   | TRACK LIGHTING  
   | 0 VA 100%   | 0 VA<br>0 VA  
  |  |   |   
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO  |   
   
   | AIC RATING: FCA +10<br>SERVES: CATERII  | 0% MINIMUM<br>ING KITCHEN<br>SED  |   | TRACK LIGHTING  
   | 0 VA 100%   | 0 VA<br>0 VA  
  |  |   |   
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP  |   
   
   | AIC RATING: FCA +10<br>SERVES: CATERII<br>MOUNTING: RECESS<br>LOCATION: CATERII   | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING   |   | TRACK LIGHTING  
   | 0 VA 100%   | 0 VA<br>0 VA  
  |  |   |   
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP  |   
   
   | AIC RATING: FCA +10<br>SERVES: CATERII<br>MOUNTING: RECESS<br>LOCATION: CATERII   | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING   |   |   
   | 0 VA 100%   | 0 VA<br>0 VA  
  |  |   |   
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.  | LOAD NOTES WIRE BKR P<br>TYPE SIZE AMP  
   
   | AIC RATING: FCA +10<br>SERVES: CATERII<br>MOUNTING: RECESS<br>LOCATION: CATERII<br>PHASE PHASE<br>A B   | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>C PBKR SIZE  | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>TYPE  | CHANICAL<br>CKT<br>NO.<br>CKT   
   | RD: L2 (NEW)  | O VA<br>O VA<br>FAULT   
  | CURRENT: REFER TO ONE-LINE   | DIAGRAM   | EQUIPMENT GR  
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5  | LOAD NOTES WIRE BKR P<br>TYPE SIZE AMP<br>R 12 20 1 1<br>R 12 20 1  
   
   | AIC RATING: FCA +10<br>SERVES: CATERII<br>MOUNTING: RECESS<br>LOCATION: CATERII<br>PHASE PHASE<br>A B<br>500 1500<br>1500 1500  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12   | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4  | CHANICAL<br>CKT<br>NO.<br>2<br>4<br>BUS AMPS: 2250  
   | RD: L2 (NEW)  | O VA<br>O VA<br>FAULT<br>AIC RA   
  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED   | DIAGRAM   | EQUIPMENT GR  
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 9  | LOAD NOTES WIRE BKR P<br>TYPE SIZE AMP<br>R 12 20 1 1<br>R 12 20 1<br>R 12 20 1<br>R 12 20 1  
   
   | AIC RATING: FCA +10<br>SERVES: CATERII<br>MOUNTING: RECESS<br>LOCATION: CATERII<br>PHASE PHASE<br>A B<br>500 1500<br>1500 1500  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>1 20 12<br>1 500 180 1 20 12   | LINE-SIDE LUGS: ME<br>NOTES LOAD<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8  | CHANICAL<br>CKT<br>NO.<br>2<br>4<br>6<br>BUS AMPS: 225A<br>MAIN SIZE/TYPE: MLC  
   | <b>RD: L2 (NEW)</b>   | O VA<br>O VA<br>FAULT<br>AIC RA<br>AIC RA<br>SERVE  
  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF  | : DIAGRAM<br>:KET   | EQUIPMENT GR  
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 10  | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1         R       12       20       1       1                                       
   
   | AIC RATING:         FCA +10           SERVES:         CATERII           MOUNTING:         RECESS           LOCATION:         CATERII           PHASE         PHASE           A         B           500         1500           500         1500           1500         1500  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>1 20 12<br>1 20 12<br>1 20 12<br>1 20 12<br>1 20 12  | LINE-SIDE LUGS: ME<br>NOTES LOAD<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB - 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7   | CHANICAL<br>CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>CKT<br>NO.<br>2<br>4<br>CKT<br>NO.<br>2<br>4<br>CKT<br>NO.<br>2<br>4<br>CKT<br>NO.<br>2<br>4<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>NO.<br>CKT<br>CKT<br>NO.<br>CKT<br>CKT<br>NO.<br>CKT<br>CKT<br>CKT<br>CKT<br>CKT<br>CKT<br>CKT<br>CKT  
   | <b>RD: L2 (NEW)</b><br>.0<br>'/120 V 3P/4W  | O VA<br>O VA<br>FAULT<br>AIC RA<br>AIC RA<br>SERVE<br>MOUN  
  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAR<br>FING: SURFACE   | DIAGRAM   | EQUIPMENT GR  
  |
| BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 1013RCPT - CATERING KITCHEN - 2   | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1         R       12       20       1       1                                       
   
   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE<br>C PASE<br>AMP SIZE<br>1 20 12<br>1 20 12   | LINE-SIDE LUGS: ME<br>NOTES LOAD<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 3<br>R RCPT - CATERING KITCHEN - 3<br>R RCPT - CATERING KITCHEN - 1  | SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 208Y/*         SUPPLIED BY: DP   
  | <b>RD: L2 (NEW)</b><br>.0<br>'/120 V 3P/4W  | 0 VA<br>0 VA<br>FAULT<br>AIC RA<br>AIC RA<br>AIC RA<br>SERVE<br>MOUN<br>LOCAT  
   | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF<br>FING: SURFACE<br>ION: MECH/ELEC   | DIAGRAM   | EQUIPMENT GR   
   |
| BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 1013RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREEZER - 2   | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1       1         R       12       20       1       1         R       GF       12   
   20       1       1         R       GF       12       20       1       1   
   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         1500       1500         500       1500  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE<br>C P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>2 30 12   | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 3<br>R RCPT - CATERING KITCHEN - 1<br>GF R RCPT - COFFEE VENDOR   | CHANICAL         CKT         NO.         2         4         6         10         12         14         16         CKT         CKT         CKT         NO.         2         4         6         NO.         2         4         6         NO.         2         4         6         8         VOLTS/PHASE: 208Y/*         SUPPLIED BY: DP         14         16         CKT         DESCRIPTION  
   | O VA         12070           0 VA         100%           RD: L2 (NEW)         .0           //120 V 3P/4W         LOAD NOTES   | OVA<br>OVA<br>FAULT<br>AIC RA<br>AIC RA<br>AIC RA<br>SERVE<br>MOUN<br>LOCAT   
  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF<br>FING: SURFACE<br>ION: MECH/ELEC<br>PHASE PHASE  | E P BKR WIRE  | EQUIPMENT GF  
  |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 2<br>15 RCPT - ICE MAKER<br>17 RCPT - FREEZER - 2<br>19 RCPT - FRIDGE - 1<br>21 RCPT - WARMING CAB - 1  | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1         R       12       20       1       1         R       GF       12       20  
    1       1  
   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500   | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>2 300 1500 1 20 12<br>2 30 12<br>1 500 2400<br>1 20 12  | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>TYPE<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 3<br>R RCPT - CATERING KITCHEN - 1<br>GF R RCPT - COFFEE VENDOR<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 112   | Show window (w)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         1       RCPT - FARME  
  | O VA         12070           0 VA         100%           RD: L2 (NEW)         .0           .0         //120 V 3P/4W           N         LOAD<br>TYPE         NOTES           MER'S MARKET - 20         R  | 0 VA       FAULT         0 VA       FAULT         AIC RA       AIC RA         AIC RA       SERVE         MOUNT       LOCAT         WIRE       BKR       P         SIZE       AMP       A         12       20       1       1500       1920   
   | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF<br>FING: SURFACE<br>ION: MECH/ELEC<br>PHASE PHASE<br>B C   | E P BKR WIRE<br>AMP SIZE  | EQUIPMENT GF   
   |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 2<br>15 RCPT - ICE MAKER<br>17 RCPT - FREEZER - 2<br>19 RCPT - FRIDGE - 1<br>21 RCPT - WARMING CAB 1<br>23 RCPT - WARMING CAB 2  | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1       1         R       12       20       1       1         R       GF       12       20       1         R       GF       12       20       1   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         200       1500   | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12   | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 1<br>GF R RCPT - COFFEE VENDOR<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 112<br>SPARE   | Show window (w)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         21         16         17         18         20         21         16         17         18         20         1         20         1         20         21         22         16         17         20         21         22         1         20         21         22         1         20         1        20         24         25       PCPT - MECH   | O VA         12070           0 VA         100%           RD: L2 (NEW)         .0           .0         //120 V 3P/4W           N         LOAD<br>TYPE         NOTES           IER'S MARKET - 20         R           -CKT 1         L           4//L EC GENERAL         R   | 0 VA         0 VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE BKR P         PHASE           SIZE AMP         A           12         20         1           12         20         1           12         20         1  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAR<br>FING: SURFACE<br>ION: MECH/ELEC<br>PHASE PHASE<br>B C<br>1232 1920  | E P BKR WIRE<br>KET<br>E P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>1 20 12  | EQUIPMENT GF   |
| BUS AMPS: 100A<br>MAIN SIZE/TYPE: MLO<br>VOLTS/PHASE: 208Y/120 V 3P/4W<br>SUPPLIED BY: DP<br>CKT DESCRIPTION<br>NO.<br>1 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 4<br>3 RCPT - CATERING KITCHEN - 5<br>5 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 6<br>7 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 9<br>9 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 10<br>11 RCPT - CATERING KITCHEN - 2<br>15 RCPT - ICE MAKER<br>17 RCPT - FREEZER - 2<br>19 RCPT - FRIDGE - 1<br>21 RCPT - WARMING CAB 1<br>23 RCPT - WARMING CAB 2<br>25 EQUIPPED SPACE<br>27 EQUIPPED SPACE  | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1       1         R       12       20       1       1         R       GF       12   
   20       1         R       GF       12       20       1   
   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         0       0  | 0% MINIMUM         ING KITCHEN         SED         ING         PHASE       P       BKR       WIRE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         360       1500       1       20         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       1       20         1       1       1  | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 1<br>GF R RCPT - COFFEE VENDOR<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 112<br>SPARE<br>EQUIPPED SPACE<br>EQUIPPED SPACE   | Show Window (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         21         14         16         18         20         21         12         14         16         18         20         21         22         24         26         28  
   | O VA         120 //2           0 VA         100%           RD: L2 (NEW)         100%           .O         //120 V 3P/4W           N         LOAD<br>TYPE         NOTES           MER'S MARKET - 20         R           - CKT 1         L           //ELEC GENERAL         R           CH/ELEC (2)         Z   | O VA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE SIZE AMP         PHASE           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         1         1920  
  | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF<br>FING: SURFACE<br>ION: MECH/ELEC<br>PHASE PHASE<br>B C<br>1232 1920<br>360   | E P BKR WIRE<br>KET<br>E P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12<br>180 1 20 12<br>1 20 12   | EQUIPMENT GF  
  |
| BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREZER - 219RCPT - FRIDGE - 121RCPT - WARMING CAB 123RCPT - WARMING CAB 225EQUIPPED SPACE27EQUIPPED SPACE29EQUIPPED SPACE   | LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       12       20       1       1         R       12       20       1       1       1     
 1       1         R       12       20       1   
   | AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         0       0         0       0         0       0  | 0% MINIMUM<br>ING KITCHEN<br>SED<br>ING<br>PHASE P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12  | LINE-SIDE LUGS: ME<br>NOTES LOAD DESCRIPTION<br>GF R RCPT - WARMING CAB - 3<br>GF R RCPT - WARMING CAB - 4<br>R RCPT - CATERING KITCHEN<br>R RCPT - CATERING KITCHEN - 8<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 7<br>R RCPT - CATERING KITCHEN - 1<br>GF R RCPT - COFFEE VENDOR<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 101<br>GF R WATER FOUNTAIN RM 112<br>SPARE<br>EQUIPPED SPACE<br>EQUIPPED SPACE   | Show Window (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         22         14         16         20         22         14         16         20         22         24         3        20         21         22         14         16         20         22         24         26         27         28         30         9        RCPT - IT MECH         28         30  
  | O VA         12070           0 VA         100%           RD: L2 (NEW)         .0           .0         .//120 V 3P/4W           N         LOAD<br>TYPE           IER'S MARKET - 20         R           - CKT 1         L           I/EEC GENERAL         R           CH/ELEC (2)         Z           .CH/ELEC (1)         R  | O VA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1  
   | CURRENT: REFER TO ONE-LINE<br>TED: FULLY RATED<br>TING: FCA +10% MINIMUM<br>S: FOH & FARMER MAF<br>TING: SURFACE<br>ION: MECH/ELEC<br>PHASE PHASE<br>B C<br>1232 1920<br>1920 1664<br>180  | E DIAGRAM<br>EKET<br>E P BKR WIRE<br>AMP SIZE<br>1 20 12<br>1 20 12   | EQUIPMENT GF<br>EQUIPMENT GF<br>LINE-SIDE LUGS: MI<br>NOTES LOAD DESCRIPTION<br>TYPE<br>Z RCPT - TV RM 110 -1<br>Z RCPT - TV RM 110 -4<br>R RCPT - FARMER'S MARKET - 21<br>R RCPT - FARMER'S MARKET - 19<br>POPUL LIGISMENT (FOTORE)   
   |
BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREEZER - 219RCPT - FRIDGE - 121RCPT - WARMING CAB 123RCPT - WARMING CAB 225EQUIPPED SPACE27EQUIPPED SPACE29EQUIPPED SPACE	LOAD TYPE       NOTES SIZE       WIRE AMP       BKR P       P         R       12       20       1       1         R       GF       12       20       1       1         M       I       1	AIC RATING: FCA +10 SERVES: CATERII MOUNTING: RECESS LOCATION: CATERII PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 2400 500 1500 1500 1500 1500 1500 1500 0 1500 10 1500 10 1500 10 1500 10 10 10 10 10 10 10 10 10 10 10 10 10 1	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 2 30 12 1 20 12	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - WARMING CAB 4 R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE	Show window (w)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         10         12         14         16         22         14         16         20         22         24         16         17         18         20         22         24         30         1       RCPT - FARME         30       1         13       MOTORIZED D         13       MOTORIZED D         15       RCPT - R.R. L4	O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         //120 V 3P/4W           N         LOAD TYPE           MER'S MARKET - 20         R           - CKT 1         L           1/EEC GENERAL         R           :CH/ELEC (2)         Z           :CH/ELEC (1)         Z           DAMPERS         Z           AVATORIES         R	OVA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1232 1920 1920 1664 180	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 1 20 10 1 1 20 10 1 1 10 1 1 10 1 1 10 1 1	EQUIPMENT GF EQUIPMENT GF LINE-SIDE LUGS: MI NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE)
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 5 7 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREEZER - 2 19 RCPT - FRIDGE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 29 EQUIPPED SPACE	LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       12       20       1       1         R       12       20       1 <t< td=""><td>AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         100       0         0       0         0       0         12000 VA       12900 VA         104 A       111 A</td><td>0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 2 30 12 1 20 12 1 20</td><td>LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - WARMING CAB - 4 R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE</td><td>Show window (w)         TRACK LIGHTING         CKT       PANELBOAR         2       4         6       8         10       SUPPLIED BY: 225A         10       VOLTS/PHASE: 208Y/         11       SUPPLIED BY: DP         14       16         16       CKT         20       1         22       3         24       3         26       7         28       9         30       9         11       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - R.R. LA         17       RCPT - FAMILY         19       RCPT - MOTHING</td><td>O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         //120 V 3P/4W           N         LOAD TYPE         NOTES           MER'S MARKET - 20         R           -CKT 1         L           1/EEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           DAMPERS         Z           AVATORIES         R           LY         R           HER'S         R</td><td>O VA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1</td><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1664 1920 1664 180 180 180 180 180</td><td>E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10</td><td>EQUIPMENT GF EQUIPMENT GF LINE-SIDE LUGS: MI NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) UD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE)</td></t<>	AIC RATING:       FCA +10         SERVES:       CATERII         MOUNTING:       RECESS         LOCATION:       CATERII         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         100       0         0       0         0       0         12000 VA       12900 VA         104 A       111 A	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 2 30 12 1 20	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - WARMING CAB - 4 R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE	Show window (w)         TRACK LIGHTING         CKT       PANELBOAR         2       4         6       8         10       SUPPLIED BY: 225A         10       VOLTS/PHASE: 208Y/         11       SUPPLIED BY: DP         14       16         16       CKT         20       1         22       3         24       3         26       7         28       9         30       9         11       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - R.R. LA         17       RCPT - FAMILY         19       RCPT - MOTHING	O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         //120 V 3P/4W           N         LOAD TYPE         NOTES           MER'S MARKET - 20         R           -CKT 1         L           1/EEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           DAMPERS         Z           AVATORIES         R           LY         R           HER'S         R	O VA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1664 1920 1664 180 180 180 180 180	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF EQUIPMENT GF LINE-SIDE LUGS: MI NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) UD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE)
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DPCKTDESCRIPTION NO.I1RCPT - CATERING KITCHEN - 4 3RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - GEN13RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FRIDGE - 121RCPT - FRIDGE - 123RCPT - WARMING CAB 225EQUIPPED SPACE27EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE	LOAD       NOTES       WIRE       BKR       P         TYPE       12       20       1       1         R       GF       12       20       1 </td <td>AIC RATING: FCA +10 SERVES: CATERII MOUNTING: RECESS LOCATION: CATERII PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 1500 2400 500 1500 0 0 1500 1500 0 0 1500 1500 0 0 1500 1500 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES</td> <td>0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 2 30 12 1 20 12 1 20</td> <td>LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - WARMING CAB 4 R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE</td> <td>SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.       PANELBOAR         2       4         6       8         10       SUPARELBOAR         8       OUTS/PHASE: 225A         MAIN SIZE/TYPE: MLC       VOLTS/PHASE: 208Y/         12       SUPPLIED BY: DP         14       16         18       CKT         20       1         22       1         24       3         26       5         30       7         7       RCPT - FARME         30       9         7       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - FAMILY         19       RCPT - TV RM         20       1         21       RCPT - TV RM</td> <td>O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .O         //120 V 3P/4W           N         LOAD TYPE         NOTES TYPE           MER'S MARKET - 20         R           - CKT 1         L           -//LEEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           R         DAMPERS           AVATORIES         R           LY         R           HER'S         R           M 100         Z</td> <td>O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1  </td> <td>CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH &amp; FARMER MAR         FING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         I1232       1920         1920       1664         1920       1664         1920       1500</td> <td>E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10 1 20 10 1 20 10 1 20 10</td> <td>EQUIPMENT GF EQUIPMENT GF EQ</td>	AIC RATING: FCA +10 SERVES: CATERII MOUNTING: RECESS LOCATION: CATERII PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 1500 2400 500 1500 0 0 1500 1500 0 0 1500 1500 0 0 1500 1500 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 2 30 12 1 20	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - WARMING CAB 4 R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.       PANELBOAR         2       4         6       8         10       SUPARELBOAR         8       OUTS/PHASE: 225A         MAIN SIZE/TYPE: MLC       VOLTS/PHASE: 208Y/         12       SUPPLIED BY: DP         14       16         18       CKT         20       1         22       1         24       3         26       5         30       7         7       RCPT - FARME         30       9         7       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - FAMILY         19       RCPT - TV RM         20       1         21       RCPT - TV RM	O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .O         //120 V 3P/4W           N         LOAD TYPE         NOTES TYPE           MER'S MARKET - 20         R           - CKT 1         L           -//LEEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           R         DAMPERS           AVATORIES         R           LY         R           HER'S         R           M 100         Z	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH & FARMER MAR         FING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         I1232       1920         1920       1664         1920       1664         1920       1500	E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10 1 20 10 1 20 10 1 20 10	EQUIPMENT GF EQUIPMENT GF EQ
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 5 9 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREEZER - 2 19 RCPT - FREEZER - 2 19 RCPT - FRIDGE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 27 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 21 CONNECTED LOAD TYPE CONNECTED LOAD (E) 0 VA	LOAD       NOTES       WIRE       BKR       P         TYPE       SIZE       AMP       1         R       12       20       1       1         R       GF       12       20       1       1         TOTAL LOAD (VA):       1       1       1       1 <td>AIC RATING:       FCA +10         SERVES:       CATERINATION:         MOUNTING:       RECESS         LOCATION:       CATERINATION         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         1500       1500         1500       1500         1500       1500         0       0         12000 VA       12900 VA         104 A       111 A         PANELBOARD NOTES</td> <td>0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 1 20 12</td> <td>LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE PANELBOARD TOTALS TOTAL CONNECTED LOAD</td> <td>SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         10         112         114         16         18         20         14         16         20         22         14         16         17         18         20         11         12         14         16         17         18         CKT         DESCRIPTION         NO.         11         22         11         24         26         30         9         11         12         13         13         13         19         19         21         23         23         25         25         25</td> <td>O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE         NOTES           MER'S MARKET - 20         R           - CKT 1         L           1/EEC GENERAL         R           - CH/ELEC (2)         Z           - CH/ELEC (1)         Z           - R         R           DAMPERS         Z           _AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR FOH         R</td> <td>O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUN'         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1</td> <td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1664 1920 1664 180 1920 1500 540</td> <td>E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 500 1 20 1 20 10 1 20</td> <td>EQUIPMENT GF LINE-SIDE LUGS: MI EQUIPMENT GF LINE-SIDE LUGS: MI TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE)</td>	AIC RATING:       FCA +10         SERVES:       CATERINATION:         MOUNTING:       RECESS         LOCATION:       CATERINATION         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         1500       1500         1500       1500         1500       1500         0       0         12000 VA       12900 VA         104 A       111 A         PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 30 12 1 20 12	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE PANELBOARD TOTALS TOTAL CONNECTED LOAD	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         10         112         114         16         18         20         14         16         20         22         14         16         17         18         20         11         12         14         16         17         18         CKT         DESCRIPTION         NO.         11         22         11         24         26         30         9         11         12         13         13         13         19         19         21         23         23         25         25         25	O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE         NOTES           MER'S MARKET - 20         R           - CKT 1         L           1/EEC GENERAL         R           - CH/ELEC (2)         Z           - CH/ELEC (1)         Z           - R         R           DAMPERS         Z           _AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR FOH         R	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUN'         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1664 1920 1664 180 1920 1500 540	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 500 1 20 1 20 10 1 20	EQUIPMENT GF LINE-SIDE LUGS: MI EQUIPMENT GF LINE-SIDE LUGS: MI TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE)
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT       DESCRIPTION         NO.         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         13       RCPT - CATERING KITCHEN - 2         15       RCPT - ICE MAKER         17       RCPT - FREEZER - 2         19       RCPT - FRIDGE - 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         29       OVA         COOLING (C)	LOAD       NOTES       WIRE       BKR       P         R       12       20       1       1         R       GF       12       20       1       1         I       I       I       I       1	AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 1500 0 0 1500 1500 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE C P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 300 1500 1 20 12 2 30 12 1 20 12 2 30 12 1 20 1	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - WARMING CAB - 4         R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 1         GF       R         R       RCPT - CATERING KITCHEN - 1         GF       R         R       RCPT - COFFEE VENDOR         GF       R         WATER FOUNTAIN RM 101         GF       R         WATER FOUNTAIN RM 112         SPARE         EQUIPPED SPACE         EQUIPPED SPACE         EQUIPPED SPACE         EQUIPPED SPACE	SHOW WINDOW (W)         TRACK LIGHTING         CKT       PANELBOAR         2       4         4       BUS AMPS: 225A         4       VOLTS/PHASE: 208Y/         10       VOLTS/PHASE: 208Y/         112       SUPPLIED BY: DP         14       CKT         16       CKT         20       1         22       1         24       3         25       CCPT - FARME         30       9         24       5         26       7         30       9         11       RCPT - FARME         30       9         11       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - TV RM         23       RCPT - EXTER         21       RCPT - TV RM         23       RCPT - EXTER         21920 VA       29	O VA         120 //i           0 VA         100%           RD: L2 (NEW)           .0           .0	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUN"         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF FING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1920 1664 1920 1664 180 1920 1500 540 1080 1500	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF EQUIPMENT GF LINE-SIDE LUGS: MI TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 4 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 8 (FUTURE) VD L LTG - SITE - 1 (FUTURE)
BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 215RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREEZER - 219RCPT - FRIDGE - 121RCPT - WARMING CAB 123RCPT - WARMING CAB 225EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE20UIPPED SPACE21O VACOOLING (C)0 VALIGHTING (L)0 VARECEPTACLES (R)33840 VA	LOAD       NOTES       WIRE       BKR       P         TYPE       12       20       1       1         R       GF       12       20       1       1         TOTAL LOAD (VA):       1       1       1	AIC RATING:       FCA +10         SERVES:       CATERINATION:         MOUNTING:       RECESS         LOCATION:       CATERINATION         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         100       1500         100       0         0       0         0       0         104 A       111 A         PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 300 1500 1 20 12 2 30 12 1 20 12 1	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - WARMING CAB - 4         R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - COFFEE VENDOR         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         SPARE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         VOLTS/PHASE: 208Y/7         SUPPLIED BY: DP         14         16         22         14         16         20         22         14         16         20         22         24         26         27         28         9         11         RCPT - IT MEC         13         MOTORIZED D         11         RCPT - TV RM         23         21         22         33840 VA         23         24         25         21         22         23         24         25         26         27         28         29         21         22         23         24<	O VA         120%           0 VA         100%           RD: L2 (NEW)         100%           .0	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUN'         LOCAT           WIRE         BKR         P           PHASE         A           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF FING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE C 1232 1920 360 1920 1664 180 1920 1664 180 1920 1664 180 1920 1500 1696	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF EQUIPMENT GF EQUIPMENT GF EQUIPMENT GF ENDTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE)
BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTION1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 913RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREEZER - 219RCPT - FRIDGE - 121RCPT - WARMING CAB 123RCPT - WARMING CAB 225EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE20O VACOOLING (C)0 VAHEATING (H)0 VALIGHTING (L)0 VARECEPTACLES (R)33840 VAMOTORS (M)0 VASUPPLEMENTAL HEAT (U)0 VA	LOAD         NOTES         WIRE         BKR         P           TYPE         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA	AIC RATING:       FCA +10         SERVES:       CATERINATION:         MOUNTING:       RECESS         LOCATION:       CATERINATION         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         1500       1500         500       1500         100       1500         12000 VA       12900 VA         104 A       111 A         PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - WARMING CAB - 4         R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 3         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - COFFEE VENDOR         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         SPARE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         COTAL CONNECTED LOAD       TOTAL NEC LOAD         TOTAL NEC LOAD       TOTAL NEC LOAD	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         10         11         12         14         16         18         20         14         16         18         20         14         16         18         20         11         RCPT - FARME         3         17         28         9         11         RCPT - IT MEC         13         MOTORIZED D         11         13         13         14         15         17         18         19         11         19         11         12         13         14         15         16         17         18         21         21<	O VA         120 %           0 VA         100%           RD: L2 (NEW)         100%           .0         7120 V 3P/4W           N         LOAD TYPE         NOTES           120 V 3P/4W         TYPE           M         LOAD TYPE         NOTES           14ER'S MARKET - 20         R           - CKT 1         L           1/ELEC GENERAL         R           - CKT 1         L           1/ELEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           CH/ELEC (1)         Z           AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR - 1         R           SS FOH         Z           -106         L Z           SS FOH         Z           - HOLIDAY - 1         R           TDAMOE         L	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUN'         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH & FARMER MAF         FING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         900       720         900       720	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREEZER - 2 19 RCPT - FRIDGE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 27 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 CONNECTED LOAD TYPE CONNECTED LOAD TYPE CONNECTED	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):<	AIC RATING:       FCA +10         SERVES:       CATERINATION:         MOUNTING:       RECESS         LOCATION:       CATERINATION         PHASE       PHASE         A       B         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         500       1500         0       0         0       0         12000 VA       12900 VA         104 A       111 A	0% MINIMUM ING KITCHEN SED ING	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         TYPE	SHOW WINDOW (W)         TRACK LIGHTING         CKT       PANELBOAR         8       BUS AMPS: 225A         4       BUS AMPS: 225A         8       VOLTS/PHASE: 208Y/         10       SUPPLIED BY: DP         14       CKT         16       CKT         20       1         21       CKT         20       1         21       CKT         20       1         21       CKT         22       1         24       3         25       RCPT - FARME         30       9         9       RCPT - IT MECH         7       RCPT - IT MECH         7       RCPT - IT MECH         13       MOTORIZED D         15       RCPT - FAMIL         19       RCPT - NOTHI         21       RCPT - FAMIL         19       RCPT - NOTHI         21       RCPT - EXTER         23       RCPT - EXTER         29       LTG RMS 100-         33       RCPT - ROOF         31       DOOR ACCES         33       RCPT - ROOF	O VA         120 %           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE         NOTES           MER'S MARKET - 20         R           - CKT 1         L           1/ELEC GENERAL         R           CH/ELEC (2)         Z           CH/ELEC (1)         Z           DAMPERS         Z           _AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR - 1         R           RIOR - 2         R           0-106         L Z           SS FOH         Z           F HOLIDAY - 1         R           TRANCE SIGNAGE         L	O VA           0 VA           0 VA           0 VA           0 VA           FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUNT           LOCAT           VIRE         BKR           P         PHASE           MOUNT           LOCAT           12         20           12	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF FING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1232 1920 1920 1664 1920 1664	E DIAGRAM EKET BE P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 1	EQUIPMENT GF LINE-SIDE LUGS: MI NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 5 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 5 (FUTURE) VD R RCPT - SITE - 5 (FUTURE)
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREZER - 2 19 RCPT - FRIDGE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 27 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 CONNECTED LOAD TYPE CONNECTED LOAD TYPE CONNECTED	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):<	AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         TYPE       GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - COFFEE VENDOR         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         SPARE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         Image: State St	SHOW WINDOW (W)         TRACK LIGHTING         CKT       PANELBOAR         4       BUS AMPS: 225A         4       BUS AMPS: 225A         4       VOLTS/PHASE: 208Y/         10       VOLTS/PHASE: 208Y/         112       SUPPLIED BY: DP         14       16         20       1         22       24         24       3         20       1         22       1         24       3         26       5         30       9         7       RCPT - FARME         30       9         7       RCPT - IT MEC         11       RCPT - JAN.         13       MOTORIZED D         15       RCPT - R.R. LA         17       RCPT - FAMILY         19       RCPT - NOTHI         21       RCPT - EXTER         21920 VA       29         94 A       31         61 A       33         30       31         9       LTG - EXT. WA         41       RCPT - FARME         43       RCPT - FARME	O VA         120 %           0 VA         100%           RD: L2 (NEW)           .0           //120 V 3P/4W           N         LOAD TYPE           MER'S MARKET - 20         R           - CKT 1         L           //EEC GENERAL         R           :CH/ELEC (2)         Z           :CH/ELEC (1)         Z           :CH/ELEC (1)         Z           :AVATORIES         R           LY         R           HER'S         R           M 100         Z           SS FOH         R           -106         LZ           SS FOH         Z           :HOLIDAY - 1         R           TRANCE SIGNAGE         L           'ALL SCONCES - 1         L           'ALL SCONCES - 1         R           'ALL SCONCES - 1         R           'ALR'S MARKET - 1         R	O VA         FAULT           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAP TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 1664 1920 1664 1920 1500 540 1080 1500 1696	E DIAGRAM EKET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT DESCRIPTION         NO.         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         15       RCPT - CATERING KITCHEN - 2         15       RCPT - ICE MAKER         17       RCPT - FRIDGE - 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         27       EQUIPPED SPACE         29       O VA         COOLING (C)       0 VA         MOTORS (M)       0 VA         SUPPLEMENTAL HEAT (U)       0 VA	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):<	AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 2400 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 7 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT       NO.         2       4         4       BUS AMPS: 225A         MAIN SIZE/TYPE: MLC       VOLTS/PHASE: 208Y/         10       VOLTS/PHASE: 208Y/         112       SUPPLIED BY: DP         14       16         20       1         21       CKT         20       1         21       CKT         22       3         24       3         24       3         24       3         24       7         26       7         30       9         7       RCPT - IT MEC         11       RCPT - JAN.         13       MOTORIZED D         15       RCPT - R.R. L/         17       RCPT - FAMIL         19       RCPT - WOTHI         21       RCPT - TV RM         23       RCPT - EXTER         21920 VA       29         94 A       31         61 A       33         33840 VA       25         27       RCPT - EXTER         29	O VA         12030           0 VA         100%           RD: L2 (NEW)         .0           .0         .120 V 3P/4W           N         LOAD TYPE           NOTES         .0           .0 V3P/4W         .00           N         LOAD TYPE           IER'S MARKET - 20         R           -CKT 1         L           H/ELEC GENERAL         R           .CH/ELEC (2)         Z           .CH/ELEC (1)         Z           .CH/ELEC (1)         R           DAMPERS         Z           .AVATORIES         R           .Y         R           HER'S         R           .Y         R           .SFOH         Z           .PO106         LZ           SS FOH         Z           .HOLIDAY - 2         R           .HOLIDAY - 1         R           .TRANCE SIGNAGE         L           .ALL SCONCES - 1         L           .HER'S MARKET - 15         R           .MARKET - 15         R           .CKT 2         L	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           VIRE         BKR         P           PHASE         A           12         20         1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF FING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1664 1920 1664 180 1920 1664	E DIAGRAM KET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT DESCRIPTION         NO.         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         15       RCPT - CATERING KITCHEN - 2         15       RCPT - CATERING KITCHEN - 2         16       RCPT - FREEZER - 2         19       RCPT - FREEZER - 2         19       RCPT - WARMING CAB 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         27       EQUIPPED SPACE         29       O VA         RECEPTACLES (R)       33840 VA         MOTORS (M)       O VA         SUPPLEMENTAL HEAT (U)       O VA         SIGNAGE (S)	LOAD TYPE         NOTES SIZE         WIRE SIZE         BKR AMP         P           R         12         20         1         1           R         GF         12         20         1         1 <t< td=""><td>AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE A B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES</td><td>0% MINIMUM NG KITCHEN SED NG PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12</td><td>LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT</td><td>SHOW WINDOW (W)         TRACK LIGHTING         CKT       NO.         2       4         4       6         8       US AMPS: 225A         MAIN SIZE/TYPE: MLC       VOLTS/PHASE: 208Y/         10       UVLTS/PHASE: 208Y/         112       UVLTS/PHASE: 208Y/         12       TCPT.FARME         3       LTG RM 110-0         1       RCPT - FARME         30       1         13       MOTORIZED D         15       RCPT - R. L/L         19       RCPT - TV RM         23       RCPT - EXTER         24       25       RCPT - EXTER         29       LTG RMS 100-</td><td>O VA         12030           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE         NOTES TYPE           MER'S MARKET - 20         R           .0 CKT 1         L           H/ELC GENERAL         R           .0H/ELEC (2)         Z           .0H/ER'S         R           .1         R           .1         R           .100         Z           .0H/ER'S         R           .1         R           .1         R           .1         R           .1         R</td><td>O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           WIRE         BKR         P           12         20         1           12         20           <t< td=""><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 360 1920 1664 1920 1664 180 1920 1664 180 1920 1500 540 1080 1500 624 1440 1500 1080 1232</td><td>E DIAGRAM KET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10</td><td>EQUIPMENT GF</td></t<></td></t<>	AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE A B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM NG KITCHEN SED NG PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - COFFEE VENDOR GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT       NO.         2       4         4       6         8       US AMPS: 225A         MAIN SIZE/TYPE: MLC       VOLTS/PHASE: 208Y/         10       UVLTS/PHASE: 208Y/         112       UVLTS/PHASE: 208Y/         12       TCPT.FARME         3       LTG RM 110-0         1       RCPT - FARME         30       1         13       MOTORIZED D         15       RCPT - R. L/L         19       RCPT - TV RM         23       RCPT - EXTER         24       25       RCPT - EXTER         29       LTG RMS 100-	O VA         12030           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE         NOTES TYPE           MER'S MARKET - 20         R           .0 CKT 1         L           H/ELC GENERAL         R           .0H/ELEC (2)         Z           .0H/ER'S         R           .1         R           .1         R           .100         Z           .0H/ER'S         R           .1         R           .1         R           .1         R           .1         R	O VA         O VA           0 VA         FAULT           AIC RA         AIC RA           AIC RA         SERVE           MOUNT         LOCAT           WIRE         BKR         P           12         20         1           12         20 <t< td=""><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 360 1920 1664 1920 1664 180 1920 1664 180 1920 1500 540 1080 1500 624 1440 1500 1080 1232</td><td>E DIAGRAM KET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10</td><td>EQUIPMENT GF</td></t<>	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B C 1232 1920 360 1920 1664 1920 1664 180 1920 1664 180 1920 1500 540 1080 1500 624 1440 1500 1080 1232	E DIAGRAM KET E P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20 10	EQUIPMENT GF
BUS AMPS: 100AMAIN SIZE/TYPE: MLOVOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: DPCKTDESCRIPTIONNO.1RCPT - CATERING KITCHEN - 43RCPT - CATERING KITCHEN - 55RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 67RCPT - CATERING KITCHEN - 99RCPT - CATERING KITCHEN - 1011RCPT - CATERING KITCHEN - GEN13RCPT - CATERING KITCHEN - 215RCPT - ICE MAKER17RCPT - FREEZER - 219RCPT - FRIDGE - 121RCPT - WARMING CAB 123RCPT - WARMING CAB 225EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE29EQUIPPED SPACE200 VARECEPTACLES (R)33840 VAMOTORS (M)0 VASUPPLEMENTAL HEAT (U)0 VASUPPLEMENTAL HEAT (U)0 VASIGNAGE (S)0 VAKITCHEN (K)0 VALARGEST MOTOR0 VASHOW WINDOW (W)0 VATRACK LIGHTING0 VA	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	AIC RATING: FCA +10 SERVES: CATERIN MOUNTING: RECESS LOCATION: CATERIN PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 500 1500 1500 2400 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM NG KITCHEN SED NG PHASE C P BKR WIRE AMP SIZE 1 20 12 1 20 12	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         TYPE       GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 3         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 3         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         SPARE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         TOTAL CONNECTED LOAD       TOTAL NEC LOAD         TOTAL NEC DEMAND CURRENT       TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W) TRACK LIGHTINGCKT NO.PANELBOAR246810BUS AMPS: 225A MAIN SIZE/TYPE: MLC VOLTS/PHASE: 2087/ SUPPLIED BY: DP11161210121416CKT 12221242625RCPT - FARME 3020121RCPT - FARME 3033840 VA921RCPT - IT MEC 1121RCPT - R. LA 1713MOTORIZED D 15141925RCPT - EXTER 292182121920 VA994 A3131DOOR ACCES 3333RCPT - ROOF 3734RCPT - FARME 4341RCPT - FARME 4342RCPT - FARME 4343RCPT - FARME 4344RCPT - FARME 4345RCPT - FARME 4346RCPT - FARME 4347LTG RM 110 - 0 4949LTG GUTDOO 5353RCPT - RM 100	O         O         I.2039           0         0         VA         100%           RD:         L2 (NEW)         I.2039           .0         (120 V 3P/4W)         NOTES           M         LOAD TYPE         NOTES           IER'S MARKET - 20         R         NOTES           -CKT 1         L         L           1/ELCC GENERAL         R         CH/ELEC (2)         Z           -CH/ELEC (1)         Z         R         DAMPERS         Z           _AVATORIES         R         M         M         M         NO           IRIOR FOH         R         R         M         M         R           SFOH         Z         R         M         M         Z           -106         LZ         S         S         S         M         M           SFOH         Z         R         M         <	O VA           0 VA           FAULT           AIC RA           AIC RA           SERVE           MOUNT           LOCAT           12         20 <td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE B C 1232 1920 1664 1920 1664 180 1920 1664 180</td> <td>EDIAGRAM         EKET       P       BKR AMP SIZE       WIRE AMP SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10</td> <td>EQUIPMENT GF</td>	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE B C 1232 1920 1664 1920 1664 180 1920 1664 180	EDIAGRAM         EKET       P       BKR AMP SIZE       WIRE AMP SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10       10         1       20       10	EQUIPMENT GF
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT       DESCRIPTION         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 9         11       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 2         13       RCPT - CATERING KITCHEN - 2         15       RCPT - FREEZER - 2         19       RCPT - FRIDGE - 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         29       O VA         KECEPTACLES (R)       33840 VA         MOTORS (M)       0 VA         SUPPLEMENTAL HEAT (U)       0 VA         SIGNAGE (S)       0 VA <t< td=""><td>LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):&lt;</td><td>AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE A B 500 1500 500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES</td><td>0% MINIMUM NG KITCHEN SED NG PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 360 1500 1 20 12 1 20 12</td><td>LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 1         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         TOTAL CONNECTED LOAD       TOTAL NEC LOAD         TOTAL NEC DEMAND CURRENT       TOTAL NEC DEMAND CURRENT</td><td>SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         21         14         16         18         20         22         24         26         27         18         20         22         24         26         30         11         RCPT - FARME         3         LTG RM 110 - 0         5         7         28         30         9         11         RCPT - FARME         21         23         24         25         27         RCPT - EXTER         29         21         22         33840 VA         23         21         23      <t< td=""><td>O VA         12070           0 VA         100%           RD: L2 (NEW)           .0           //120 V 3P/4W           N         LOAD         NOTES           TYPE         TYPE           MER'S MARKET - 20         R           - CKT 1         L           H/ELEC GENERAL         R           .CH/ELEC (2)         Z           .CH/ELEC (1)         Z           .CH/ELEC (1)         R           DAMPERS         Z           .AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR - 1         R           RIOR - 2         R           -HOLIDAY - 2         R           HOLIDAY - 1         R           TRANCE SIGNAGE         L           ALL SCONCES - 1         L           MER'S MARKET - 1         R           -CKT 2         L           .CKT 3         L           .CKT 3         L           .CKT 3         L           .CKT 3         L           .CKT 3</td><td>0 VA         0 VA         0 VA         FAULT         AIC RA         AIC RA         SERVE         MOUN'         LOCAT         WIRE       BKR       P         PHASE         SIZE       AMP         12       20       1</td><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF ING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1920 1664 1920 1696 1920 1080 1232</td><td>EDIAGRAM         EKET       P       BKR AMP SIZE       WIRE AMP SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10</td><td>EQUIPMENT GF</td></t<></td></t<>	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):<	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE A B 500 1500 500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM NG KITCHEN SED NG PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 2 360 1500 1 20 12 1 20 12	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 1         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         TOTAL CONNECTED LOAD       TOTAL NEC LOAD         TOTAL NEC DEMAND CURRENT       TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         21         14         16         18         20         22         24         26         27         18         20         22         24         26         30         11         RCPT - FARME         3         LTG RM 110 - 0         5         7         28         30         9         11         RCPT - FARME         21         23         24         25         27         RCPT - EXTER         29         21         22         33840 VA         23         21         23 <t< td=""><td>O VA         12070           0 VA         100%           RD: L2 (NEW)           .0           //120 V 3P/4W           N         LOAD         NOTES           TYPE         TYPE           MER'S MARKET - 20         R           - CKT 1         L           H/ELEC GENERAL         R           .CH/ELEC (2)         Z           .CH/ELEC (1)         Z           .CH/ELEC (1)         R           DAMPERS         Z           .AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR - 1         R           RIOR - 2         R           -HOLIDAY - 2         R           HOLIDAY - 1         R           TRANCE SIGNAGE         L           ALL SCONCES - 1         L           MER'S MARKET - 1         R           -CKT 2         L           .CKT 3         L           .CKT 3         L           .CKT 3         L           .CKT 3         L           .CKT 3</td><td>0 VA         0 VA         0 VA         FAULT         AIC RA         AIC RA         SERVE         MOUN'         LOCAT         WIRE       BKR       P         PHASE         SIZE       AMP         12       20       1</td><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF ING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1920 1664 1920 1696 1920 1080 1232</td><td>EDIAGRAM         EKET       P       BKR AMP SIZE       WIRE AMP SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10</td><td>EQUIPMENT GF</td></t<>	O VA         12070           0 VA         100%           RD: L2 (NEW)           .0           //120 V 3P/4W           N         LOAD         NOTES           TYPE         TYPE           MER'S MARKET - 20         R           - CKT 1         L           H/ELEC GENERAL         R           .CH/ELEC (2)         Z           .CH/ELEC (1)         Z           .CH/ELEC (1)         R           DAMPERS         Z           .AVATORIES         R           LY         R           HER'S         R           M 100         Z           RIOR FOH         R           RIOR - 1         R           RIOR - 2         R           -HOLIDAY - 2         R           HOLIDAY - 1         R           TRANCE SIGNAGE         L           ALL SCONCES - 1         L           MER'S MARKET - 1         R           -CKT 2         L           .CKT 3	0 VA         0 VA         0 VA         FAULT         AIC RA         AIC RA         SERVE         MOUN'         LOCAT         WIRE       BKR       P         PHASE         SIZE       AMP         12       20       1	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF ING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1920 1664 1920 1696 1920 1080 1232	EDIAGRAM         EKET       P       BKR AMP SIZE       WIRE AMP SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10	EQUIPMENT GF
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT       DESCRIPTION         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 9         11       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         15       RCPT - ICE MAKER         17       RCPT - FREEZER - 2         19       RCPT - FRIDGE - 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         27       EQUIPPED SPACE         29       EQUIPPED SPACE         29       EQUIPPED SPACE         20       EVISTING LOAD (E)       0 VA         COOLING (C)       0 VA         KECEPTACLES (R)       33840 VA         MOTORS (M)       0 VA         SUPPLEMENTAL HEAT (U)       0 VA         SIGNAGE (S)       0 VA         SIGNAGE (S)       0 VA         SIGNAGE (S)       0 VA         SIGNAGE (S)       0 VA <td>LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL         LOAD         (VA):         1         1         1</td> <td>AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 500 1500 1500 1500 1500 500 1500 1500 1500 0 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES</td> <td>0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE C 1 20 12 1 2</td> <td>LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 3         R       RCPT - CATERING KITCHEN - 1         GF       R         RF       RCPT - CATERING KITCHEN - 1         GF       R         GF       R         GF       R         GF       R         CPT - CATERING KITCHEN - 1         GF       R         GF       R         GF       R         GF       R         MATER FOUNTAIN RM 101       GF         GF       R         WATER FOUNTAIN RM 112       SPARE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       TOTAL CONNECTED LOAD         TOTAL CONNECTED CURRENT       TOTAL CONNECTED CURRENT         TOTAL NEC DEMAND CURRENT       TOTAL NEC DEMAND CURRENT</td> <td>SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         22         14         16         20         24         31         20         22         24         36         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 2089//         SUPPLIED BY: DP         11         20         21         24         31         26         30         9         11         RCPT - FARME         31         9         13         13         14         15         17         18         29         17         18         29         19         21920 VA         29         21920 VA         29         2</td> <td>O VA         12070           0 VA         100%           RD: L2 (NEW)        </td> <td>O VA           0 VA           0 VA           FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUN           LOCAT           WIRE         BKR         P           PHASE           SIZE         AMP           12         20           12         1           12<!--</td--><td>CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH &amp; FARMER MAF         ING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         11500       1080         1232       1584         1500       1860</td><td>EDIAGRAM         EKET       BKR       WIRE AMP         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       &lt;</td><td>EQUIPMENT GF</td></td>	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL         LOAD         (VA):         1         1         1	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 500 1500 1500 1500 1500 500 1500 1500 1500 0 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE C 1 20 12 1 2	LINE-SIDE LUGS: ME          NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 8         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 3         R       RCPT - CATERING KITCHEN - 1         GF       R         RF       RCPT - CATERING KITCHEN - 1         GF       R         GF       R         GF       R         GF       R         CPT - CATERING KITCHEN - 1         GF       R         GF       R         GF       R         GF       R         MATER FOUNTAIN RM 101       GF         GF       R         WATER FOUNTAIN RM 112       SPARE         EQUIPPED SPACE       EQUIPPED SPACE         EQUIPPED SPACE       TOTAL CONNECTED LOAD         TOTAL CONNECTED CURRENT       TOTAL CONNECTED CURRENT         TOTAL NEC DEMAND CURRENT       TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         22         14         16         20         24         31         20         22         24         36         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 2089//         SUPPLIED BY: DP         11         20         21         24         31         26         30         9         11         RCPT - FARME         31         9         13         13         14         15         17         18         29         17         18         29         19         21920 VA         29         21920 VA         29         2	O VA         12070           0 VA         100%           RD: L2 (NEW)	O VA           0 VA           0 VA           FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUN           LOCAT           WIRE         BKR         P           PHASE           SIZE         AMP           12         20           12         1           12 </td <td>CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH &amp; FARMER MAF         ING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         11500       1080         1232       1584         1500       1860</td> <td>EDIAGRAM         EKET       BKR       WIRE AMP         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       &lt;</td> <td>EQUIPMENT GF</td>	CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH & FARMER MAF         ING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         11500       1080         1232       1584         1500       1860	EDIAGRAM         EKET       BKR       WIRE AMP         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       20       10         1       <	EQUIPMENT GF
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT       DESCRIPTION         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         15       RCPT - ICE MAKER         17       RCPT - FREEZER - 2         19       RCPT - FRIDGE - 1         21       RCPT - WARMING CAB 1         23       RCPT - WARMING CAB 2         25       EQUIPPED SPACE         29       OVA         COOLING (C)       0 VA         KECEPTACLES (R)       33840 VA         MOTORS (M)       0 VA         SUPPLEMENTAL HEAT (U)       0 VA         SIGNAGE	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):<	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 500 1500 1500 1500 500 1500 1500 2400 500 1500 1500 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE C 1 20 12 1 20	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL NEC LOAD	Show WINDOW (W) TRACK LIGHTING         CKT       NO.       PANELBOAR         2       4       BUS AMPS: 225A         4       BUS AMPS: 225A         4       VOLTS/PHASE: 208Y/         10       VOLTS/PHASE: 208Y/         112       SUPPLIED BY: DP         14       16         20       1         21       CKT         26       3         27       12         28       7         30       7         11       RCPT - FARME         30       9         11       RCPT - IT MEC         12       11         24       3         25       RCPT - IT MEC         13       MOTORIZED D         15       RCPT - NOTHI         21       RCPT - NOTHI         23       RCPT - EXTER         29       LTG RMS 100-         94       31         31       DOOR ACCES         33       RCPT - FARME         43       RCPT - FARME         43       RCPT - FARME         43       RCPT - FARME         43       RCPT - FARME <tr< td=""><td>O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE           NOTES         NOTES           -CKT 1         L           HER'S MARKET - 20         R           -CKT 1         L           H/ELEC GENERAL         R           CH/ELEC (1)         Z           CH/ELEC (1)         Z           AVATORIES         R           AVATORIES         R           AVATORIES         R           LY         R           HER'S MARKET - 1         R           RIOR - 1         R           RIOR - 2         R           -106         L Z           SS FOH         Z           FHOLIDAY - 2         R           HOLIDAY - 1         R           TRANCE SIGNAGE         L           'ALL SCONCES - 1         L           'ALL SCONCES - 1         L           'ALL'S' MARKET - 15         R           'CKT 2         L           'CKT 2         L           'CKT 3         -           'CKT 2         L     <!--</td--><td><math>0 \forall A</math> <math>0 \forall A</math> <math>0 \forall A</math> <math>0 \forall A</math>           FAULT           AIC RA           AIC RA           SERVE           MOUN'           LOCAT           WIRE         BKR         P           PHASE           SIZE         AMP           A         12           12         20</td><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE B C 1232 1920 1080 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1080 1696 1080 1232 1584 1500 1860</td><td>EDIAGRAM         SKET         EXET       P       BKR AMP       WIRE SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1664       2       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1<!--</td--><td>EQUIPMENT GF</td></td></td></tr<>	O VA         12070           0 VA         100%           RD: L2 (NEW)         100%           .0         7/120 V 3P/4W           N         LOAD TYPE           NOTES         NOTES           -CKT 1         L           HER'S MARKET - 20         R           -CKT 1         L           H/ELEC GENERAL         R           CH/ELEC (1)         Z           CH/ELEC (1)         Z           AVATORIES         R           AVATORIES         R           AVATORIES         R           LY         R           HER'S MARKET - 1         R           RIOR - 1         R           RIOR - 2         R           -106         L Z           SS FOH         Z           FHOLIDAY - 2         R           HOLIDAY - 1         R           TRANCE SIGNAGE         L           'ALL SCONCES - 1         L           'ALL SCONCES - 1         L           'ALL'S' MARKET - 15         R           'CKT 2         L           'CKT 2         L           'CKT 3         -           'CKT 2         L </td <td><math>0 \forall A</math> <math>0 \forall A</math> <math>0 \forall A</math> <math>0 \forall A</math>           FAULT           AIC RA           AIC RA           SERVE           MOUN'           LOCAT           WIRE         BKR         P           PHASE           SIZE         AMP           A         12           12         20</td> <td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE B C 1232 1920 1080 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1080 1696 1080 1232 1584 1500 1860</td> <td>EDIAGRAM         SKET         EXET       P       BKR AMP       WIRE SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1664       2       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1<!--</td--><td>EQUIPMENT GF</td></td>	$0 \forall A$ $0 \forall A$ $0 \forall A$ $0 \forall A$ FAULT           AIC RA           AIC RA           SERVE           MOUN'           LOCAT           WIRE         BKR         P           PHASE           SIZE         AMP           A         12           12         20	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAR TING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE B C 1232 1920 1080 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1080 1696 1080 1232 1584 1500 1860	EDIAGRAM         SKET         EXET       P       BKR AMP       WIRE SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1664       2       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1 </td <td>EQUIPMENT GF</td>	EQUIPMENT GF
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 9 13 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREIDGE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 VA KECEPTACLES (R) 33840 VA MOTORS (M) 0 VA KITCHEN (K) 10 VA KITCHEN (K) 10 VA KITCHEN (K) 10 VA 10 VA	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         20         1         1           <	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 500 1500 1500 2400 500 1500 1500 0 0 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE C   BKR WIRE AMP SIZE 1 20 12 1 20	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL NEC DEMAND CURRENT	Show Window (W) TRACK LIGHTING         CKT NO.         2       4         4       BUS AMPS: 225A         4       WINDOW (W)         10       VOLTS/PHASE: 208Y/ SUPPLIED BY: DP         11       CKT         20       1         21       CKT         22       1         24       3         25       CCPT - FARME         30       7         22       1         24       3         25       RCPT - IT MEC         26       7         30       9         9       RCPT - IT MEC         11       RCPT - SANL         13       MOTORIZED D         15       RCPT - NOTHI         21       RCPT - NOTHI         21       RCPT - NOTHI         23       RCPT - EXTER         29       LTG RMS 100-         31       DOOR ACCES         33       RCPT - FARME         41       RCPT - FARME         43       RCPT - FARME         44       RCPT - FARME         45       RCPT - FARME         46       RCPT - FARME	Image: constraint of the system     Image: constraint of the system       A     0 VA     100%       A     0 VA     100%       A     0 VA     100%       A     100%     100%       A     0 VA     100%       A     100%     100%       A     100%     100%       A     100%     100%       A     100%     100%       A     100     NOTES       A     1     1       A     1     1       A     1     1       A     1     1       A     1     1       A     100     2       CH/ELEC (1)     Z     1       CH/ELEC (2)     Z     1       CH/ELEC (1)     Z     1       A     A     100       Z     A     1       A     A     1       A     A     1       B     A     1       A     A     1       B     A     1       A     A     1       B     A     1       B     A     1       B     A     1       B     A	$0 \forall A$ $0 \forall A$ $0 \forall A$ $VIRE$ $VIRE$ $IIC$ $IIC$ $IIC$ $IIC$ $IIC$ $IIE$ $IIIC$ $III$	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAP TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1232 1920 1920 1664 1920 1664 1920 1664 1920 1664 1920 1664 1920 1664 1920 1664 1920 1664 1920 1696 1900 720 900 624 1440 1500 1080 1232 1584 1500 1860 1920 500 0 0 0	EDIAGRAM         SKET       BKR AMP       WIRE SIZE         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       12         1       20       10         1664       2       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1500       1       20       10         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10       1         1       20       10 <t< td=""><td>LINE-SIDE LUGS: MI EQUIPMENT GF NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 8 (FUTURE) VD L LTG - SITE - 1 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD Z R</br></br></td></t<>	LINE-SIDE LUGS: MI EQUIPMENT GF NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREZER - 2 19 RCPT - FREZER - 2 19 RCPT - FREZER - 2 19 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 27 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 30 VA HEATING (H) 0 VA LIGHTING (L) 0 VA RECEPTACLES (R) 33840 VA MOTORS (M) 0 VA SUPPLEMENTAL HEAT (U) 0 VA REFRIGERATION (F) 0 VA KITCHEN (K) 0 VA LARGEST MOTOR 0 VA SHOW WINDOW (W) 0 VA	LOAD TYPE         NOTES         WIRE SIZE         BKR AMP         P           R         12         20         1         1           R         GF         12         0         1         1      <	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE TOTAL CONNECTED LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 208Y/         SUPPLIED BY: DP         14         16         16         16         18         20         21         22         24         3         17         20         22         24         3         18         CKT         DESCRIPTION         NO.         21         22         24         3         26         30         9         11         RCPT - RAME         33840 VA         21920 VA         29         13         14         15         27         28         27         29         13         20         21         21	Image: Description of the system         Image: Description of the system           O         0 VA         100%           AD: L2 (NEW)         0 VA         100%           O         7/120 V 3P/4W         NOTES           N         LOAD TYPE         NOTES           IER'S MARKET - 20         R         -           - CKT 1         L         -           //ELC GENERAL         R         -           CH/ELEC (2)         Z         -           CH/ELEC (2)         Z         -           CH/ELEC (1)         Z         -           DAMPERS         Z         -           AVATORIES         R         -           LY         R         -           HER'S         R         -           M 100         Z         -           RIOR FOH         R         -           RIOR - 1         R         -           HOLIDAY - 2         R         -           HOLIDAY - 1         R         -           TRANCE SIGNAGE         L         -           ALL SCONCES - 1         L         -           ALL SCONCES - 1         L         -           ALL SCONCES - 1 <td>0 VA         0 VA         0 VA         0 VA         0 VA         FAULT         AIC RA         AIC RA         AIC RA         SERVE         MOUN'         LOCAT         12       20</td> <td>CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH &amp; FARMER MAR         ING:       SURFACE         ING:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1232         1584       1500         0       0         0       0</td> <td>EDIAGRAM KET EXET P BKR AMP SIZE AMP AMP SIZE AMP AMP AMP AMP AMP AMP AMP AMP</td> <td>EQUIPMENT GF</td>	0 VA         0 VA         0 VA         0 VA         0 VA         FAULT         AIC RA         AIC RA         AIC RA         SERVE         MOUN'         LOCAT         12       20	CURRENT:       REFER TO ONE-LINE         TED:       FULLY RATED         TING:       FCA +10% MINIMUM         S:       FOH & FARMER MAR         ING:       SURFACE         ING:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1232         1584       1500         0       0         0       0	EDIAGRAM KET EXET P BKR AMP SIZE AMP AMP SIZE AMP AMP AMP AMP AMP AMP AMP AMP	EQUIPMENT GF
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 10 13 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREIZER - 2 19 RCPT - FREIZER - 2 19 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 27 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 20 EQUIPPED SPACE 21 O VA COOLING (C) O VA HEATING (L) O VA SUPPLEMENTAL HEAT (U) O VA SUPPLEMENTAL HEAT (U) O VA KITCHEN (K) O VA KITCHEN (K) O VA LARGEST MOTOR O VA KITCHEN (K) O VA	LOAD TYPE         NOTES         WIRE SIZE         BKR AMP         P           R         12         20         1         1           R         GF         12         20         1         1           TOTAL LOAD (VA):         TOTAL AMPS:         TOTAL         1	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 1	LINE-SIDE LUGS: ME         NOTES       LOAD       DESCRIPTION         GF       R       RCPT - WARMING CAB - 3         GF       R       RCPT - CATERING KITCHEN         R       RCPT - CATERING KITCHEN - 63         R       RCPT - CATERING KITCHEN - 7         R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - CATERING KITCHEN - 1         GF       R       RCPT - COFFEE VENDOR         GF       R       WATER FOUNTAIN RM 101         GF       R       WATER FOUNTAIN RM 112         SPARE       EQUIPPED SPACE         EQUIPPED SPACE       EQUIPPED SPACE         DISCUIPPED SPACE       EQUIPPED SPACE	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         8         10         12         14         16         18         20         12         14         16         22         14         16         28         30         1         24         25         24         30         1         RCPT - FARME         30         1         1         10         22         24         25         26         30         1         1         10         24         25         26         27         28         9         10         11         29         217         218         219         23 <tr< td=""><td>Image: constraint of the system     Image: constraint of the system       RD: L2 (NEW)       .0       .0       .0       .120 V 3P/4W       N       LOAD       N       LOAD       TYPE       Market - 20       .0       .0       .0       .0       .0       .0       .120 V 3P/4W       N       LOAD       NOTES       .0</td><td>0  VA <math>0  VA</math> <math>0  VA</math> <math>0  VA</math> <math>0  VA</math> <math>0  VA</math> <math>FAULT</math>           AIC RA           AIC RA           AIC RA           SERVE           MOUN'           LOCAT           VIRE         BKR         P           PHASE           SIZE         AMP           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12</td><td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAR ING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE 1232 1920 360 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1666 180 1696 1080 1500 1696 1080 1500 1696 1080 1232 1584 1500 1232</td><td>EDIAGRAM KET EXET P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20</td><td>LINE-SIDE LUGS: MI EQUIPMENT GF NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 8 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD</td></tr<>	Image: constraint of the system     Image: constraint of the system       RD: L2 (NEW)       .0       .0       .0       .120 V 3P/4W       N       LOAD       N       LOAD       TYPE       Market - 20       .0       .0       .0       .0       .0       .0       .120 V 3P/4W       N       LOAD       NOTES       .0	0  VA $0  VA$ $0  VA$ $0  VA$ $0  VA$ $0  VA$ $FAULT$ AIC RA           AIC RA           AIC RA           SERVE           MOUN'           LOCAT           VIRE         BKR         P           PHASE           SIZE         AMP           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAR ING: SURFACE ION: MECH/ELEC PHASE PHASE B PHASE 1232 1920 360 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1664 180 1920 1666 180 1696 1080 1500 1696 1080 1500 1696 1080 1232 1584 1500 1232	EDIAGRAM KET EXET P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20	LINE-SIDE LUGS: MI EQUIPMENT GF NOTES LOAD DESCRIPTION TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 2 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 6 (FUTURE) VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 8 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 4 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 7 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD
BUS AMPS: 100A         MAIN SIZE/TYPE: MLO         VOLTS/PHASE: 208Y/120 V 3P/4W         SUPPLIED BY: DP         CKT       DESCRIPTION         NO.         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - 2         15       RCPT - CATERING KITCHEN - 2         16       RCPT - CATERING KITCHEN - 2         17       RCPT - CATERING KITCHEN - 2         18       RCPT - FREEZER - 2         19       RCPT - FREDEE - 1         21       RCPT - WARMING CAB 1         23       EQUIPPED SPACE         29       O VA         RECEPTACLES (R)       33840 VA         MOTORS (M)       O VA         MOTORS (M)       O VA         SIGRAGE (S)       O VA<	LOAD         NOTES         WIRE         BKR         P           R         12         20         1         1           R         GF         12         1         1         1 <t< td=""><td>AIC RATING: FCA +10 SERVES: CATERII MOUNTING: RECESS LOCATION: CATERII PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES</td><td>0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12</td><td>LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE COTAL CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT</td><td>SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 2087/         SUPPLIED BY: DP         14         16         17         18         24         26         24         26         24         26         30         7         7         28         9         11         RCPT - FARME         30         9         11         28         30         9         11         28         30         11         12         28         30         11         12         28         13         14         15         21         22         23         24         25         27         28     <td>Image: constraint of the system         Image: constraint of the system           CO         CO         CO           CO         CO         CO           CO         CO         CO           CIDE L2 (NEW)         CO         NOTES           CO         TYPE         NOTES           IER'S MARKET - 20         R         CO           -CKT 1         L         H           HER'S MARKET - 20         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           CH/ELEC (2)         Z         C           CH/ELEC (1)         Z         C           DAMPERS         Z         AVATORIES           LY         R         M           HOR FOH         R         M           RIOR FOH         R         M           NOTES         R         M           HOLIDAY - 1         R         M           TRANCE SIGNAGE         L         M           ALL SCONCES - 1         L         M           CKT 2         L</td><td>0  VA <math>0  VA</math> <math>0  VA</math> <math>0  VA</math> <math>0  VA</math>           FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUN           LOCAT           VIRE         BKR         P           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12<td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1664 1920 1664 1920 1664 180 1920 1500 540 1920 1500 1696 900 720 900 720 900 624 1440 1500 1080 1232 1584 1500 1860 1920 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EDIAGRAM KET EXET P BKR AMP SIZE AMP SIZE 1 20 12 1 20 10 1 20 10</td><td>LINE-SIDE LUGS: MI LINE-SIDE LOAD TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD L LTG - SITE -</td></td></td></t<>	AIC RATING: FCA +10 SERVES: CATERII MOUNTING: RECESS LOCATION: CATERII PHASE PHASE B 500 1500 500 1500 500 1500 500 1500 500 1500 0 0 1500 1500 0 0 12000 VA 12900 VA 104 A 111 A PANELBOARD NOTES	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE COTAL CONNECTED LOAD TOTAL CONNECTED LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT         NO.         2         4         6         MAIN SIZE/TYPE: MLC         VOLTS/PHASE: 2087/         SUPPLIED BY: DP         14         16         17         18         24         26         24         26         24         26         30         7         7         28         9         11         RCPT - FARME         30         9         11         28         30         9         11         28         30         11         12         28         30         11         12         28         13         14         15         21         22         23         24         25         27         28 <td>Image: constraint of the system         Image: constraint of the system           CO         CO         CO           CO         CO         CO           CO         CO         CO           CIDE L2 (NEW)         CO         NOTES           CO         TYPE         NOTES           IER'S MARKET - 20         R         CO           -CKT 1         L         H           HER'S MARKET - 20         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           CH/ELEC (2)         Z         C           CH/ELEC (1)         Z         C           DAMPERS         Z         AVATORIES           LY         R         M           HOR FOH         R         M           RIOR FOH         R         M           NOTES         R         M           HOLIDAY - 1         R         M           TRANCE SIGNAGE         L         M           ALL SCONCES - 1         L         M           CKT 2         L</td> <td>0  VA <math>0  VA</math> <math>0  VA</math> <math>0  VA</math> <math>0  VA</math>           FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUN           LOCAT           VIRE         BKR         P           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12<td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1664 1920 1664 1920 1664 180 1920 1500 540 1920 1500 1696 900 720 900 720 900 624 1440 1500 1080 1232 1584 1500 1860 1920 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>EDIAGRAM KET EXET P BKR AMP SIZE AMP SIZE 1 20 12 1 20 10 1 20 10</td><td>LINE-SIDE LUGS: MI LINE-SIDE LOAD TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD L LTG - SITE -</td></td>	Image: constraint of the system         Image: constraint of the system           CO         CO         CO           CO         CO         CO           CO         CO         CO           CIDE L2 (NEW)         CO         NOTES           CO         TYPE         NOTES           IER'S MARKET - 20         R         CO           -CKT 1         L         H           HER'S MARKET - 20         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           -CKT 1         L         H           HELC GENERAL         R         CO           CH/ELEC (2)         Z         C           CH/ELEC (1)         Z         C           DAMPERS         Z         AVATORIES           LY         R         M           HOR FOH         R         M           RIOR FOH         R         M           NOTES         R         M           HOLIDAY - 1         R         M           TRANCE SIGNAGE         L         M           ALL SCONCES - 1         L         M           CKT 2         L	0  VA $0  VA$ $0  VA$ $0  VA$ $0  VA$ FAULT           AIC RA           AIC RA           AIC RA           SERVE           MOUN           LOCAT           VIRE         BKR         P           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12         20         1           12 <td>CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH &amp; FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1664 1920 1664 1920 1664 180 1920 1500 540 1920 1500 1696 900 720 900 720 900 624 1440 1500 1080 1232 1584 1500 1860 1920 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>EDIAGRAM KET EXET P BKR AMP SIZE AMP SIZE 1 20 12 1 20 10 1 20 10</td> <td>LINE-SIDE LUGS: MI LINE-SIDE LOAD TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD L LTG - SITE -</td>	CURRENT: REFER TO ONE-LINE TED: FULLY RATED TING: FCA +10% MINIMUM S: FOH & FARMER MAF TING: SURFACE ION: MECH/ELEC PHASE PHASE B CC 1232 1920 1664 1920 1664 1920 1664 180 1920 1500 540 1920 1500 1696 900 720 900 720 900 624 1440 1500 1080 1232 1584 1500 1860 1920 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EDIAGRAM KET EXET P BKR AMP SIZE AMP SIZE 1 20 12 1 20 10 1 20 10	LINE-SIDE LUGS: MI LINE-SIDE LOAD TYPE Z RCPT - TV RM 110 -1 Z RCPT - TV RM 110 -4 R RCPT - FARMER'S MARKET - 21 R RCPT - FARMER'S MARKET - 19 VD L LTG - SITE - 7 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD L LTG - SITE - 3 (FUTURE) VD R RCPT - SITE - 1 (FUTURE) VD R RCPT - SITE - 3 (FUTURE) VD R RCPT - SITE - 6 (FUTURE) VD R RCPT - SITE - 10 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 9 (FUTURE) VD L LTG - SITE - 10 (FUTURE) VD L LTG - SITE -
BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP CKT DESCRIPTION NO. 1 RCPT - CATERING KITCHEN - 4 3 RCPT - CATERING KITCHEN - 5 5 RCPT - CATERING KITCHEN - 6 7 RCPT - CATERING KITCHEN - 9 9 RCPT - CATERING KITCHEN - 10 11 RCPT - CATERING KITCHEN - 2 15 RCPT - ICE MAKER 17 RCPT - FREEZER - 2 19 RCPT - FREIDEE - 1 21 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 1 23 RCPT - WARMING CAB 2 25 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 29 EQUIPPED SPACE 20 COLING (C) 0 VA HEATING (H) 0 VA LIGHTING (L) 0 VA SUPPLEMENTAL HEAT (U) 0 VA SUPPLEMENTAL HEAT (U) 0 VA SIGNAGE (S) 0 VA KITCHEN (K) 0 VA	LOAD       NOTES       WIRE       BKR       P         R       12       20       1       1         R       GF       12       20       1       1         TOTAL LOAD (VA):       TOTAL AMPS:       1       1         100%       0 VA       0       0       <	AIC RATING: FCA +10 SERVES: CATERI MOUNTING: RECESS LOCATION: CATERI PHASE PHASE B 500 1500 1500 1500 1500 500 1500 1500 1	0% MINIMUM ING KITCHEN SED ING PHASE P BKR WIRE AMP SIZE 1 20 12 1 20 12 1 20 12 1 20 12 1 20 12 1 20 12 2 30 12 1 20 1	LINE-SIDE LUGS: ME NOTES LOAD DESCRIPTION TYPE GF R RCPT - WARMING CAB - 3 GF R RCPT - CATERING KITCHEN R RCPT - CATERING KITCHEN - 8 R RCPT - CATERING KITCHEN - 3 R RCPT - CATERING KITCHEN - 1 GF R RCPT - CATERING KITCHEN - 1 GF R WATER FOUNTAIN RM 101 GF R WATER FOUNTAIN RM 112 SPARE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE I COTAL NEC DOAD TOTAL NEC LOAD TOTAL NEC DEMAND CURRENT TOTAL NEC DEMAND CURRENT	SHOW WINDOW (W)         TRACK LIGHTING         CKT         2         4         6         8         10         12         14         16         12         14         16         20         22         14         16         20         22         24         16         17         20         21         22         24         26         7         7         7         7         7         7         18         7         19         11         19         11         19         21         19         21         20 VA         94 A         31         32         94 A         31         32         94 A         31         32	Image: constraint of the second se	0  VA $0  VA$ $0  VA$ $0  VA$ $0  VA$ $FAULT$ AIC RA           AIC RA           AIC RA           SIZE         AMP           12         20           12 <t< td=""><td>CURRENT:       REFER TO ONE-LINE         TING:       FCA +10% MINIMUM         S:       FOH &amp; FARMER MARE         FING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1696         900       720         900       1232         1584       1500         1920       500         0       0         0       0         0       0         0       0         0       0         0       0</td><td>EDIAGRAM KET EKET P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20</td><td>EQUIPMENT GF         LINE-SIDE LUGS: MI         INOTES         DADA         DESCRIPTION         TYPE         Z         COLSPANE TO TV RM 110 -1         Z         Z         RCPT - TV RM 110 -4         R CPT - FARMER'S MARKET - 21         R         VD         VD         VD         VD         VD         L LTG - SITE - 2 (FUTURE)         VD         VD         L LTG - SITE - 3 (FUTURE)         VD         VD         L LTG - SITE - 3 (FUTURE)         VD       L       LTG - SITE - 3 (FUTURE)         VD       L       LTG - SITE - 3 (FUTURE)         VD       R       RCPT - SITE - 3 (FUTURE)         VD       R       RCPT - SITE - 4 (FUTURE)         VD       R       RCPT - SITE - 6 (FUTURE)         VD       R       RCPT - SITE - 6 (FUTURE)         VD       R       RCPT - S</td></t<>	CURRENT:       REFER TO ONE-LINE         TING:       FCA +10% MINIMUM         S:       FOH & FARMER MARE         FING:       SURFACE         ION:       MECH/ELEC         PHASE       PHASE         1232       1920         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1664         1920       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1500         1080       1696         900       720         900       1232         1584       1500         1920       500         0       0         0       0         0       0         0       0         0       0         0       0	EDIAGRAM KET EKET P BKR WIRE AMP SIZE 1 20 12 1 20 10 1 20	EQUIPMENT GF         LINE-SIDE LUGS: MI         INOTES         DADA         DESCRIPTION         TYPE         Z         COLSPANE TO TV RM 110 -1         Z         Z         RCPT - TV RM 110 -4         R CPT - FARMER'S MARKET - 21         R         VD         VD         VD         VD         VD         L LTG - SITE - 2 (FUTURE)         VD         VD         L LTG - SITE - 3 (FUTURE)         VD         VD         L LTG - SITE - 3 (FUTURE)         VD       L       LTG - SITE - 3 (FUTURE)         VD       L       LTG - SITE - 3 (FUTURE)         VD       R       RCPT - SITE - 3 (FUTURE)         VD       R       RCPT - SITE - 4 (FUTURE)         VD       R       RCPT - SITE - 6 (FUTURE)         VD       R       RCPT - SITE - 6 (FUTURE)         VD       R       RCPT - S

PANELBOARD: M (NEW) BUS AMPS: 225A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP			FAULT CUR AIC RATED: AIC RATING SERVES: MOUNTING LOCATION:	RRENT: REFE : FULL G: FCA + MECH : SURF MECH	R TO ONE-LINE DIAG Y RATED -10% MINIMUM IANICAL ACE I/ELEC	RAM		EQUIPMENT G	ROUND BUS	PANELBOARD: L1 (NEW) BUS AMPS: 225A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP		FAULT CURREN AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:	IT: REFER TO ONE-LINE DIAG FULLY RATED FCA +10% MINIMUM BOH & FARMER MARKET SURFACE BOH	GRAM			EQUIPMENT GR
CKT DESCRIPTION	LOAD NOT	ES WIRE BKR	P PHASE	PHASE	PHASE			LINE-SIDE LUGS: M DESCRIPTION	1ECHANICAL CKT	CKT DESCRIPTION	LOAD NOTES WIRE BKR P	PHASE	PHASE PHASE	P BKR WIRE	NOTES	LI LOAD DESC	NE-SIDE LUGS: ME CRIPTION
NO. <u>1</u> RP-1 <u>2</u> RD-2	TYPE Z	SIZE AMP 12 15	A 1 100 2392	B	C	AMP SIZE 2 30 10	VD C	CU-1	NO. 2	NO. 1 RCPT - FARMER'S MARKET - 16 3 PCPT TV/WALL	TYPE         SIZE         AMP           R         12         20         1           7         12         20         1	A 1500 1596 192	B C	AMP SIZE 1 20 12 1 20 12	E۸	TYPE LZ LTG RMS 111-118	
3 RP-2 5 WHG-2 7 WHG-1		12 15 12 20 12 20	1 1 1 700 1872	100   2392	2 700 1872	2 30 10	VD C	CU-2	<u> </u>	5 RCPT - TV WALL 5 RCPT - STORAGE 7 RCPT - TV RM 110 -3	Z         12         20         1           R         12         20         1           Z         12         20         1	1920 960	1080 200	1 20 12 1 20 12 1 20 12	FA	Z DOOR ACCESS BC Z FA-RPS	ОН
9         MOTORIZED DAMPERS - 116           11         EF-1 & EF-2	Z Z Z	12 20 12 20 12 15	1 1	50 1456	5 744 1456	2 25 10	VD Z	CU-3	10 12	9RCPT - FARMER'S MARKET - 211RCPT - FARMER'S MARKET - 3	R         12         20         1           R         12         20         1	150	) 180 1500 360	1         20         12           1         20         12		R RCPT - CORR. 112 R RCPT - IT GENERA	2 AL
13         EF-3           15         TS-1 FOH	Z Z	12 15 12 20	1 372 1152 1	100 1152	2	2 20 12	M	B.A.F 1	14 16	13     RCPT - FARMER'S MARKET - 4       15     RCPT - FARMER'S MARKET - 5       13     DOPT - FARMER'S MARKET - 5	R         12         20         1           R         12         20         1	1500 2500 150	2500	2 40 8		L INV1	
17 TS-1 BOH 19 FCU-1	M V	12         20           D         10         20	1 2 832 1152	000 4500	100 1152	2 20 12	M	B.A.F 2	18 20	17 RCPT - FARMER'S MARKET - 6 19 RCPT - FARMER'S MARKET - 7 21 RCPT - FARMER'S MARKET FLOOR - 1	R         12         20         1           R         12         20         1           R         12         20         1	1500 180 150		(120-12)		R RCPL-EXTEBUB R RCPT-TRASH CO	MPACIOR
23 FCU-2	MV	D 10 20	2 1400 0	832 1560	1400 1560		C		22	23 RCPT - FARMER'S MARKET FLOOR - 2 25 RCPT - FARMER'S MARKET FLOOR - 3	R         12         20         1           R         12         20         1           R         12         20         1	1500 0	1500 0	1 20 1 20 1 20		SPARE SPARE	
27 FCU-3 29	M	12 20	2	728 0	728 0	1		EQUIPPED SPACE EQUIPPED SPACE	28 30	27RCPT - FARMER'S MARKET FLOOR - 429RCPT - FARMER'S MARKET FLOOR - 5	R         12         20         1           R         12         20         1	150	) 0 1500 0	1 20 1 20		SPARE SPARE	
31EQUIPPED SPACE33EQUIPPED SPACE			1 0 0 1	0 0		1 1		EQUIPPED SPACE EQUIPPED SPACE	32 34	31     RCPT - FARMER'S MARKET FLOOR - 6       33     RCPT - TV RM 110 -2	R         12         20         1           Z         12         20         1	1500 0 192	) 0 1500 0	1 20 1 20		SPARE SPARE	
35     EQUIPPED SPACE       37     EQUIPPED SPACE       30     EQUIPPED SPACE			1 1 0 0	0 0		1		EQUIPPED SPACE EQUIPPED SPACE	36 38	35 RCPT - FARMER'S MARKET - 9 37 RCPT - FARMER'S MARKET - 10 39 RCPT - FARMER'S MARKET - 11	R         12         20         1           R         12         20         1           R         12         20         1	1500 0 150		1 20		SPARE SPARE SPARE	
41 EQUIPPED SPACE					0 0			EQUIPPED SPACE	40	41RCPT - FARMER'S MARKET - 1243RCPT - FARMER'S MARKET - 13	R         12         20         1           R         12         20         1           R         12         20         1	1500 0	1500 0	1 20 1 20 1 20		SPARE SPARE	
	ТО	TAL LOAD (VA):	9973 VA 85 A	8370 VA 70 A	9712 VA 83 A					45RCPT - FARMER'S MARKET - 1447RCPT - R.R. LAVATORIES 113	R         12         20         1           R         12         20         1	150	) 0 180 0	1 20 1 20		SPARE SPARE	
LOAD TYPE CONNECT	TED DEMAN	D NEC DEMA		ΞS				PANELBOARD TOTALS		49 RCPT - BACK OF HOUSE 51 RCPT - IT RACK RM 118 - 1 52 RCPT - IT RACK RM 118 - 2	R         12         20         1           Z         12         20         1	360 0 192	) 0	1 20 1 20 1 20		SPARE SPARE	
EXISTING LOAD (E) 0 VA	P FACTO 100%	R 0 VA						TOTAL CONNECTED LOAD	28056 VA	55 EQUIPPED SPACE 57 EQUIPPED SPACE		0 0 0				EQUIPPED SPACE	
HEATING (H) 0 VA	/A 100% 0% 125%	0 VA						TOTAL NEC LOAD	28759 VA	59 EQUIPPED SPACE						EQUIPPED SPACE	
RECEPTACLES (R) 0 VA MOTORS (M) 7820 VA	A 100%	0 VA 7820 VA						TOTAL CONNECTED CURRENT	78 A 80 A		TOTAL LOAD (VA).	156 A	164 A 109 A				
SUPPLEMENTAL HEAT (U)200 VAMISC EQUIP (Z)5578 VA	A 100% A 100%	200 VA 5578 VA								LOAD TYPE CONNECTED	D DEMAND NEC DEMAND	PANELBOARD NOTES				PANELBOARD T	OTALS
REFRIGERATION (F)     0 VA       SIGNAGE (S)     0 VA	100% 125%	0 VA 0 VA								EXISTING LOAD (E) 0 VA	100% 0 VA					TOTAL CON	NNECTED LOAD
LARGEST MOTOR (2HP)         2810 V/           SHOW WINDOW (M)         0 V/A	A 125%	3513 VA								HEATING (H)         0 VA           LIGHTING (L)         6581 VA	100% 0 VA 125% 8226 VA					тс	OTAL NEC LOAD
PANELBOARD: K (NEW) BUS AMPS: 100A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP			FAULT CUR AIC RATED: AIC RATING SERVES: MOUNTING LOCATION:	RRENT: REFE : FULL G: FCA + CATE : RECE CATE	R TO ONE-LINE DIAG Y RATED -10% MINIMUM RING KITCHEN SSED RING	RAM		EQUIPMENT G	ROUND BUS	SIGNAGE (3)0 VAKITCHEN (K)0 VALARGEST MOTOR0 VASHOW WINDOW (W)0 VATRACK LIGHTING0 VA	125%         0 VA           100%         0 VA           125%         0 VA           125%         0 VA           125%         0 VA           100%         0 VA						
CKT DESCRIPTION	LOAD NOT	ES WIRE BKR	P PHASE	PHASE	PHASE	P BKR WIRE		LINE-SIDE LUGS: M									
NO.         1       RCPT - CATERING KITCHEN - 4         3       RCPT - CATERING KITCHEN - 5         5       RCPT - CATERING KITCHEN - 6         7       RCPT - CATERING KITCHEN - 9         9       RCPT - CATERING KITCHEN - 10         11       RCPT - CATERING KITCHEN - GEN         13       RCPT - CATERING KITCHEN - 2         15       RCPT - CATERING KITCHEN - 2	IYPE           R           R           R           R           R           R           R           R           R           R           R           R           R           R	SIZE         AMP           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20           12         20	A       1     1500       1     1500       1     1500       1     1500       1     1500       1     1500       1     1500	B 1500   1500 1500   1500	0 1500 180 0 360 1500	AMP         SIZE           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           1         20         12           2         30         12	GF R GF R GF R R R R R R R	RCPT - WARMING CAB - 3 RCPT - WARMING CAB - 4 RCPT - CATERING KITCHEN RCPT - CATERING KITCHEN - 8 RCPT - CATERING KITCHEN - 7 RCPT - CATERING KITCHEN - 3 RCPT - CATERING KITCHEN - 1 RCPT - COFFEE VENDOR	NO. 2 4 6 8 10 12 14	PANELBOARD: L2 (NEW) BUS AMPS: 225A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: DP		AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:	FULLY RATED FOA +10% MINIMUM FOH & FARMER MARKET SURFACE MECH/ELEC	JKAIM			NE-SIDE LUGS: ME
10         ROFT - FREEZER - 2           17         RCPT - FREEZER - 2           19         RCPT - FRIDGE - 1	R G R G	F 12 20 F 12 20 F 12 20	1 1 1 1500 1500		1500 2400	1 20 12	GF R	WATER FOUNTAIN RM 101	18	CKT DESCRIPTION NO.	LOAD NOTES WIRE BKR P TYPE SIZE AMP	PHASE A	PHASE PHASE B C	P BKR WIRE AMP SIZE	NOTES	LOAD DESC TYPE	
21RCPT - WARMING CAB 123RCPT - WARMING CAB 2	R G R G	F 12 20 F 12 20		1500 1500	) 1500 0	1 20 12 1 20	GF R	WATER FOUNTAIN RM 112 SPARE	22 24	1 RCPT - FARMER'S MARKET - 20 3 LTG RM 110 - CKT 1	R         12         20         1           L         12         20         1	1500 1920 123	2 1920 260 180	1 20 12 1 20 12 1 20 12		Z RCPT - TV RM 110 Z RCPT - TV RM 110	) -1 ) -4
25     EQUIPPED SPACE       27     EQUIPPED SPACE       20     EQUIPPED SPACE				0 0		1		EQUIPPED SPACE EQUIPPED SPACE	26 28 30	7 RCPT - IT MECH/ELEC GENERAL 9 RCPT - IT MECH/ELEC (2)	R         12         20         1           Z         12         20         1           7         12         20         1	1920 1500 192	360 180		ᡔᢧᡣᠵ	R RCPT - FARMER'S	MARKET - 21 MARKET - 19
	TO	TAL LOAD (VA):	12000 VA	12900 VA	8940 VA					11RCPT - JAN.13MOTORIZED DAMPERS	R         12         20         1           Z         12         20         1	100 1664	180 1664	2 20 10	VD	L LTG - SITE - 2 (FUT	TURE)
	TO	TAL AMPS:	104 A	111 A	75 A					15 RCPT - R.R. LAVATORIES 17 RCPT - FAMILY	R         12         20         1           R         12         20         1		1664 180 1500			L LTG - SITE - 3 (FUT	
LOAD TYPE CONNEC LOAD	TED DEMAN FACTO	D NEC DEMAN	ND PANELBOARD NOTE	ES				PANELBOARD TOTALS		19     RCPT - MOTHER'S       21     RCPT - TV RM 100       23     PCPT - EXTERIOR FOR	R         12         20         1           Z         12         20         1           H         12         20         1	180 1500 192	) 1500	1 20 10 1 20 10 1 20 10		L LTG - SITE -4 (FUT L LTG - SITE - 5 (FUT	
EXISTING LOAD (E)         0 VA           COOLING (C)         0 VA	100% 0%	0 VA 0 VA							33840 VA	23 RCPT - EXTERIOR FOR 25 RCPT - EXTERIOR - 1 27 RCPT - EXTERIOR - 2	R         12         20         1           R         12         20         1           R         12         20         1	540 1500 108	540 1500	1 20 10 1 20 10 1 20 10		L LTG - SITE - 8 (FUT L LTG - SITE - 7 (FUT	TURE)
HEATING (H)     0 VA       LIGHTING (L)     0 VA       RECEPTACIES (R)     33840 VA	100% 125%	0 VA 0 VA						TOTAL NEC LOAD	21920 VA 94 A	29 LTG RMS 100-106 31 DOOR ACCESS FOH	LZ         12         20         1           Z         12         20         1	260 720	1696 720	1 20 10 1 20 10 1 20 10	VD VD	R RCPT - SITE - 1 (FU R RCPT - SITE - 2 (FU	UTURE) UTURE)
MOTORS (M) 0 VA	100%	0 VA						TOTAL NEC DEMAND CURRENT	61 A	33RCPT - ROOF HOLIDAY - 235RCPT - ROOF HOLIDAY - 1	R         12         20         1           R         12         20         1	900	720 900 900	1         20         10           1         20         10	VD VD	R RCPT - SITE - 3 (FU R RCPT - SITE - 4 (FU	UTURE) UTURE)
MISC EQUIP (Z) 0 VA REFRIGERATION (F) 0 VA	100%	0 VA 0 VA								37 BACK-LIT ENTRANCE SIGNAGE 39 LTG - EXT. WALL SCONCES - 1	L 12 20 1 L 12 20 1	50 720 624	1440	1 20 10 1 20 10	VD VD	R RCPT - SITE - 5 (F R RCPT - SITE - 6 (F	UTURE) UTURE)
SIGNAGE (S)0 VAKITCHEN (K)0 VA	125% 100%	0 VA 0 VA								41 RCPT - FARMER'S MARKET - 1 43 RCPT - FARMER'S MARKET - 15 45 RCPT - FARMER'S MARKET - 8	R         12         20         1           R         12         20         1	1500 720		1 20 10 1 20 10 1 20 10		R RCPT - SITE - 7 (F R RCPT - SITE - 8 (F	UTURE) UTURE)
LARGEST MOTOR 0 VA SHOW WINDOW (W) 0 VA	125% 125%	0 VA 0 VA								40 ROPT - FARMER S MARKET - 8 47 LTG RM 110 - CKT 2 49 LTG RM 110 - CKT 3	L 12 20 1 L 12 20 1	880 1500	1232 1080	1 20 10 1 20 10 1 20 10		R         RCPT - SITE - 9 (F           R         RCPT - SITE - 10 (F           L         LTG - SITE - 9 (F	(FUTURE) TURE)
TRACK LIGHTING 0 VA	100%	0 VA								51 LTG OUTDOOR VENUE CANOPY 53 RCPT - RM 100-101	L         10         20         1           R         12         20         1		4 1500 1860 1500	1         20         10           1         20         10           1         20         10	VD VD	L LTG - SITE - 10 (FU L LTG - SITE - 10 (FU L LTG - SITE - 11 (FI	JTURE) JTURE)
										55         RCPT - ROOF MAINT.           57         RCPT - TV RM 101	R         12         20         1           Z         12         20         1	540 1500 192	0 500	1 20 10 1 20 10	VD VD	L LTG - SITE - 12 (FU Z IRRIGATION CONT	JTURE) TROLLER (FUTURE
										59 SPARE 61 SPARE	20 1 20 1	0 0	0 0	1 20 12 1		L LCP (BY OTHERS) EQUIPPED SPACE	)
										63     SPARE       65     SPARE       67     SPARE	20 1 20 1		0 0			EQUIPPED SPACE	
													0	1			

СКТ	DESCRIPTION	
10		

NO.	
1	RCPT - CATERING KITCHEN - 4
3	RCPT - CATERING KITCHEN - 5
5	RCPT - CATERING KITCHEN - 6
7	RCPT - CATERING KITCHEN - 9
9	RCPT - CATERING KITCHEN - 10
11	RCPT - CATERING KITCHEN - GEN
13	RCPT - CATERING KITCHEN - 2
15	RCPT - ICE MAKER
17	RCPT - FREEZER - 2
19	RCPT - FRIDGE - 1
21	RCPT - WARMING CAB 1
23	RCPT - WARMING CAB 2
25	EQUIPPED SPACE
27	EQUIPPED SPACE
29	EQUIPPED SPACE

LUAD ITE	
	LOAD
EXISTING LOAD (E)	0 VA
COOLING (C)	0 VA
HEATING (H)	0 VA
LIGHTING (L)	0 VA
RECEPTACLES (R)	33840 VA
MOTORS (M)	0 VA
SUPPLEMENTAL HEAT (U)	0 VA
MISC EQUIP (Z)	0 VA
REFRIGERATION (F)	0 VA
SIGNAGE (S)	0 VA
KITCHEN (K)	0 VA
LARGEST MOTOR	0 VA
SHOW WINDOW (W)	0 VA
	0.1/4

71SPARE73SPARE75SPARE77SPARE79EQUIPPED SPACE81EQUIPPED SPACE83EQUIPPED SPACE LOAD TYPE

83 EQUIPPED SPACE					1	0 0	EQUIPPED SPACE	8
		TOTAL	LOAD (VA):	20714 VA	26348 VA	18572 VA		
		TOTAL	AMPS:	175 A	222 A	155 A		
LOAD TYPE	CONNECTED	DEMAND	NEC DEMAND	PANELBOARD N	OTES		PANELBOARD TOTALS	
	LOAD	FACTOR						_
EXISTING LOAD (E)	0 VA	100%	0 VA					65624
COOLING (C)	0 VA	0%	0 VA				TOTAL CONNECTED LOAD	00004
HEATING (H)	0 VA	100%	0 VA				TOTAL NEC LOAD	65721
LIGHTING (L)	28949 VA	125%	36186 VA					400 /
RECEPTACLES (R)	24300 VA	71%	17150 VA				TOTAL CONNECTED CURRENT	182 F
MOTORS (M)	0 VA	100%	0 VA				TOTAL NEC DEMAND CURRENT	182 /
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA					
MISC EQUIP (Z)	12385 VA	100%	12385 VA					
REFRIGERATION (F)	0 VA	100%	0 VA					
SIGNAGE (S)	0 VA	125%	0 VA					
KITCHEN (K)	0 VA	100%	0 VA					
LARGEST MOTOR	0 VA	125%	0 VA					
SHOW WINDOW (W)	0 VA	125%	0 VA					
TRACK LIGHTING	0 VA	100%	0 VA					











					ОПІ Г	IXIUK					
TYPE	MANUFACTURER	SERIES / MODEL	TYPE		TOO			VOLTAGE		INPUT	DESCRIPTION
11		CLX-I 48-5000LM-SEE-WDL-MVOLT-E71-35K-80CBL		80	3500K	LUMENS 5.000	0-10V	120/277	31.8	25 VA	
	LIGHTING					0,000		120/211			INTENDED CEILING TYPE INDICATED ON PLANS. COORDINATE INSTALLATION WITH OTHER DISCIPLINES. MH: 10FT AFF
L1E	LITHONIA LIGHTING	CLX-L48-5000LM-SEF-WDL-MVOLT-EZ1-35K-80CRI- E10WLP	LED	80	3500K	5,000	0-10V	120/277	31.8	35	SAME AS TYPE L1, EXCEPT WITH INTEGRAL 1400 LUMENS EMERGENCY BATTERY PACK.
L2	MARK ARCHITECTURAL LIGHTING	MCV504-LCB-MSL4-80CRI-35K-400LMF-ASYM-MIN1- MVOLT-SGW-ZT	LED	80	3500K	400/FT	0-10V	120/277	3.6/FT	4/FT	CONTINOUS RUN LED COVE FIXTURE. MOUNT IN ARCHITECTURAL COVE WITH MARKCOVE EXTRUSION FOR INDIRECT LIGHTING. COORDINATE WITH ARCHITECTURAL COVE CEILING CONSTRUCTION.
L3	LITHONIA LIGHTING	2TL4-40L-FW-A19-EZ1-LP840	LED	80	4000K	3,918	0-10V	120/277	32	35	RECESSED LED TROFFER SUITABLE FOR DAMP LOCATIONS.
L3E	LITHONIA LIGHTING	2TL4-40L-FW-A19-EZ1-LP840-EL14L	LED	80	4000K	3,918	0-10V	120/277	32	35	SAME AS TYPE L3, EXCEPT WITH INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK.
L4	LITHONIA LIGHTING	LDN6-35/20-L06-WR-LSS-TRW-MVOLT-EZ1	LED	80	3500K	2,006	0-10V	120/277	22.5	25	6" RECESSED LED DOWNLIGHT WITH WHITE OPEN TRIM AND DIFFUSING OPTICAL LENS.
L4E	LITHONIA LIGHTING	LDN6-35/20-L06-WR-LSS-TRW-MVOLT-EZ1-EL	LED	80	3500K	2,006	0-10V	120/277	22.5	25	SAME AS TYPE L4, EXCEPT WITH INTEGRAL 10W EMERGENCY BATTERY PACK.
L5	METEOR	DSM10-80-358-UNV-STV-WD-BLK-ST2-NO-OUT	LED	85	3500K	10,320	0-10V	120/277	80	88	10.7" HIGH BAY LED LUMINARE WITH IP65 OUTDOOR RATING. PENDANT MOUNT TO STRUCTURAL CEILNG. COORDINATE CONDUIT ROUTING STRUCTURAL FRAMING AND ARCHITECT PRIOR TO ROUGH-IN.
L6	METEOR	DSM10-80-358-UNV-STV-WD-BLK-BRK-NO-OUT	LED	85	3500K	10,320	0-10V	120/277	80	88	10.7" HIGH BAY LED LUMINARE WITH IP65 OUTDOOR RATING.SURFACE MOUNT TO CANOPY STRUCTURE FRAMING. COORDINATE CONDUIT ROUTING WITH CANOPY MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN. MH: 41FT AFF
L7	LUMENS	MXH2074443	LED A-19	90	3000K	1,000	NON-DIM	120	20	22	LARGE 5"W X 22"H X 6.25" DEEP DECORATIVE EXTERIOR WALL SCONCE. COORDINATE MOUNTED HEIGHT WITH ARACHITECTURAL ELEVATIONS.
L8	BEGA	24 374	LED	80	3000K	1,077	0-10V	120/277	12.3	14	EXTERIOR LED WALL PACK WITH INTEGRAL PHOTOCELL. PROVIDE PRODUCT FINISH AS DIRECTED BY ARCHITECT. MOUNT BOTTOM OF FIXTURE 12" ABOVE DOOR.
L9	MARK ARCHITECTURAL LIGHTING	SL6L-LOP-6'8"-FLP-GB-80CRI-35K-600LMF-MIN1-120- BLKT-ZT	LED	80	3500K	600/FT	0-10V	120/277	6/FT	7/FT	FLUSH MOUNTED 6" LED SLOT FIXTURE. MOUNT IN ARCHITECURAL PLANK CEILING. COORDINATE INSTALLATION REQUIREMENTS WITH CEILING MANUFACTURER. PROVIDE FLANGELESS MOUNTING ACCESSORY.
L9E	MARK ARCHITECTURAL LIGHTING	SL6L-LOP-6'8"-FLP-GB-80CRI-35K-600LMF-MIN1-120- BLKT-1E10WLCP-ZT	LED	80	3500K	600/FT	0-10V	120/277	6/FT	7/FT	SAME AS TYPE L9, EXCEPT (4') WITH INTEGRAL 700 LUMENS EMERGENCY BATTER PACK.
L10	INDY ACUITY BRANDS	LC8P-40LM-32K-MVOLT-B-G4-80CRI-ZT-HW- PSTEM-PHBR	LED	80	3500K	4,199	0-10V	120/277	40	44	DAMP RATED PENDANT MOUNT LED CYLINDER DOWNLIGHT. MOUNT BOTTOM OF BELOW OVERHEAD GARAGE DOOR IN OPEN OPOSITION. FINISH BY ARCHITECT.
L10E	INDY ACUITY BRANDS	LC8P-40LM-32K-MVOLT-B-G4-80CRI-ZT-HW- PSTEM-PHBR	LED	80	3500K	4,199	0-10V	120/277	40	44	SAME AS TYPE L10, EXCEPT (4') WITH INTEGRAL 1000 LUMENS EMERGENCY BATTE PACK.
×××	LITHONIA LIGHTING	EDGR-G-EL		<u>hu</u> un	<u>m</u> m	<u>un</u> n	mm	120/277	<del>hyn</del>	<del>~~</del>	EDGE-LIT RECESSED LED EXIT SIGN. PROVIDE MOUNTING ACCESSORIES, DIRECTIONAL CHEVRONS, AND NUMBER OF FACES AS INDICATED ON FLOOR PLANS.

### LIGHTING CONTRO NETWORK LIGH NETWORK ( SYMBOL MANUFACTURER ALTERNATE MANUFACTURER DEVICE DESCRIPTION TAG MODEL/SERIES ACUITY, CRESTRON CEILING MOUNT DUAL TECHNO OS LEGRAND LMDC-100 ETC, HUBBELL 360 DEGREE COVERAGE. DIGI PORTS, IR TRANSCEIVER FOR NETWORK ROOM SYMBOL MANUFACTURER ALTERNATE MANUFACTURER TAG MODEL/SERIES DEVICE DESCRIPTION R00 LEGRAND ACUITY, CRESTRON DIGITAL ROOM CONTROLLER I LMRC-101 ETC, HUBBELL (1) 20A LOAD INPUT, (1) RELAY (NON-DIM) R01 ACUITY, CRESTRON DIGITAL ROOM CONTROLLER I LEGRAND ETC, HUBBELL (1) 20A LOAD INPUT, (1) RELAY LMRC-211 (0-10V) AND AUTO-ON MODES. R02 ACUITY, CRESTRON DIGITAL ROOM CONTROLLER I LEGRAND LMRC-212 ETC, HUBBELL (1) 20A LOAD INPUT, (2) RELAY (0-10V) AND AUTO-ON MODES. R03 LEGRAND ACUITY, CRESTRON DIGITAL ROOM CONTROLLER I LMRC-213 ETC, HUBBELL (1) 20A LOAD INPUT, (3) RELAY AND AUTO-ON MODES. (0-10V) NETWORK MANUFACTURER ALTERNATE SYMBOL MANUFACTURER TAG MODEL/SERIES DEVICE DESCRIPTION ACUITY, CRESTRON DIGITAL MULTI-BUTTON SWIT LV1 LEGRAND LMSW-100 ETC, HUBBELL HAS INTEGRAL LED THAT ILLU SERIES FOR WIRELESS SETUP. SWITC PLANS AND/OR SWITCH SCHE LEGRAND ACUITY, CRESTRON DIGITAL SWITCH FOR MANUA LV LMDM-101 ETC, HUBBELL WHEN LOAD IS ON. (2) RJ45 PC VS LEGRAND ACUITY, CRESTRON WALL MOUNT DUAL TECHNOLO DW-100-24 ETC, HUBBELL INTEGRAL MANUAL OVERRIDE NETWORK AUX MANUFACTURER ALTERNATE SYMBOL TAG MANUFACTURER MODEL/SERIES DEVICE DESCRIPTION NONE LEGRAND ACUITY, CRESTRON WIRELESS CONFIGURATION TO LMCT-100 ETC, HUBBELL DOWNLOAD, CONFIRMATION, SYSTEM AND LEAVE WITH OW NONE LEGRAND ACUITY, CRESTRON INPUT/OUTPUT (I/O) DEVICE FC INTERFACE ETC, HUBBELL PARTY DEVICE/SYSTEM. (2) RJ REQUIRED TO CONNECT TO SY ACUITY, CRESTRON DIGITAL INPUT MODULE FOR NONE LEGRAND LMIO-201 HUBBELL CHANNEL TO DIGITAL, COMM MULTIPLE SENSORS WIRED T SHOWN, LOW-VOLTAGE SENS ACUITY, CRESTRON ZONE CONTROLLER. ASTRON LEGRAND LMZC-301 ETC, HUBBELL COMPATIBLE. (2) RJ45 PORTS. POWER BOOSTERS AS REQUI

# ENERAL NOTES:

A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SI 3. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODU MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHO INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE

CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLIC . LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE ). VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.

E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGI SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO C

B. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREME I. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.

. CONTRACTOR SHALL COORDINATE MARKET BUILDING INTERIOR BUILDING LIGHTING CONTR \_IN SITE DEVELOPMENT PACKAGE TO ENSURE LIGHTING CONTROLS ARE COMPATIBLE AND

ING CONTROL SYSTEMS			
CCUPANCY SENSORS			
	COVERAGE		
	(W X D )	VOLTAGE	NOTES
LOGY OCCUPANCY SENSOR.	PIR MAJOR 32' Ø	24	
AL. (2) RJ45	PIR MINOR 15' Ø		
WIRELESS SETUP.	ULT MAJOR 25' x 25'		
NTROLLERS (POWER PACK)			
			NOTES
		120/	NOTEC
		277	
		211	
OR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LC	DADS.	120/	
OUTPUT. 100mA SINK PER RELAY. MANUAL-, PARTIAL-	,	277	
OR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LC	DADS.	120/	
OUTPUTS. 100mA SINK PER RELAY. MANUAL-, PARTIA	L-,	277	
	ADS.	120/	
OUTPUTS 100ma SINK PER RELAY MANUAL - PARTIA		277	
OUTFUTS. TOUTIA SINK FER NELAT. MANUAL, FARTIA	∟-,	211	
		VULTAGE	NOTES
H FOR MANUAL UN/OFF AND SCENE CONTROL. EACH		24	
MINATES WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANS			
	HTING		
DULE FOR PROGRAMMING.	<b>T</b> E0	0.1	
ON/OFF/DIMMING CONTROL. INTEGRAL LED ILLUMINA	TES	24	
RTS. IR TRANSCEIVER FOR WIRELESS SETUP.			
OGY OCCUPANCY SENSOR, AUTO ON/OFF CONTROL W	/ITH	24	
SWITCH. SINGLE RELAY. LOW-VOLTAGE.			
ARY LIGHTING EQUIPMENT			
			NOTES
		BATTERY	NOTEC
ND STORAGE OF ED SCREEN PROVIDE ONE TOOL PE	ER	DATTERT	
NER (3) AAA BATTERIES INCLUDED	_1X		
NER. (3) AAA BATTERIES INCLUDED.			
R INTERFACE WITH SECURITY, FIRE ALARM, OR OTHE	ER THIRD	24	
45 PORTS, MANUFACTURER SHALL PROVIDE DEVICE A	AS		
STEM(S) AS SPECIFIED ON LIGHTING CONTROL DIAGE	RAM.		
DW-VOLTAGE SENSORS. (2) RJ45 PORTS. CONVERTS	A SINGLE	24	
NICATES SINGLE STATE OF OCCUPANCY BUT MAY BE	DRIVEN BY		
GETHER. PROVIDE QUANTITY AS REQUIRED TO MEET	DESIGN		
DR(S) WILL STILL REQUIRE LOW-VOLTAGE POWER PA	CK(S).		
MIC TIMECLOCK. 99 LIGHTING GROUPS. BACNET MS/1	ГР	120/	
SURFACE MOUNTED. PLENUM RATED. PROVIDE DLM 2	24V	277	
RED PER SYSTEM DESIGN.			
ACING CRITERIA.			
CT CUTSHEETS AND PROJECT-SPECIFIC   AYOUTS   A	YOUTS		
W COORDINATION WITH ALL OTHER CEILING DEVICES	6		
FIXTURES, AND OTHER OWNER-PROVIDED CEILING M	OUNTED		
ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO C	OTHER		
ABLE.			
RICING.			
	н		
- 0- 0-30 MINN, UNO. CONFIRM SENSOR SETTINGS WIT			
WNER.			
NTS.			
	ROIS SPECIFIED		
OMMUNICATE AS A COMPLETE SYSTEM.			
			VERSION: 4.0



NOTES: 1. OPERATION: EMERGENCY AND NORMAL LIGHT FIXTURES ARE CONTROLLED TOGETHER. UPON NORMAL POWER LOSS, EMERGENCY LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO FULL OUTPUT

2. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PROVIDE SUBMITTAL FOR ENGINEER'S **REVIEW PRIOR TO PURCHASE.** 

3. LOCATE ALC WHERE ACCESSIBLE. REFER TO LIGHTING PLANS FOR MORE INFORMATION. 4. WIRING DETAIL IS DIAGRAMMATIC ONLY AND BASED ON LVS CONTROLS DEVICE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC WIRING DIAGRAM.

PER NEC 700.24, LUMINAIRES WITH 0-10V DIMMING USED IN CONJUNCTION WITH AN INVERTER OR GENERATOR FOR EMERGENCY LIGHTING PURPOSES SHALL INCLUDE DRIVERS BUILT TO IEC 60929 ANNEX E, ANSI C82.11, OR ANSI C137. WHEN THE CONTROL SIGNAL IS NOT CONNECTED, THE DRIVER SHALL PROVIDE THE MAXIMUM VALUE OF OUTPUT POWER.

(LOADS CONTROLLED TOGETHER) 0-10V AUTOMATIC LOAD CONTROL RELAY DETAIL



# ------ LINE VOLTAGE WIRING — – – — 0-10V DIMMING WIRING



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

- Business Hours: Mon-Fri 6:00 AM 10:00 PM, Sat-Sun 6:00 AM 11:59 PM
- GENERAL REQUIREMENTS Emergency Lighting: Unless otherwise noted, emergency egress lighting is powered from emergency battery backup units integral to fixtures.
- EXTERIOR Timeclock: Space is networked to a central timeclock via room controller.
- Manual Control: Occupant can manually control lights via remotely local switch(es). Switch(es) can override timeclock setting for 2 hours maximum. Occupancy: All controlled loads shall automatically turn on based on photocell and timeclock schedule Vacancy: Lights shall turn off automatically based on photocell and timeclock schedule.
- LOBBY, CORRIDOR, VESTIBULE
- Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum. Occupancy: All controlled loads shall automatically turn on based on timeclock schedule. Vacancy: Lights shall turn off automatically based on timeclock schedule. Lights shall flickerwarn 5 minutes prior to turning off.

# PUBLIC RESTROOMS

- Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Employees can manually control lights via remotely located switch. Occupancy: All controlled loads shall automatically turn on via occupancy sensor. Vacancy: After 20 minutes, all controlled loads shall turn off.
- FAMILY RESTROOM, MOTHERS ROOM, JANITOR'S CLOSET Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es).
- Occupancy: All controlled loads shall automatically turn on via occupancy sensor. Vacancy: After 20 minutes, all controlled loads shall turn off.
- MECHANICAL/ELECTRICAL ROOM Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es).
- Occupancy: Occupant must manually turn on lights. Vacancy: Occupant must manually turn off lights.
- STORAGE SPACE, BACK OF HOUSE SPACE, IT ROOM Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Occupancy: Occupant must manually turn on lights. Vacancy: After 20 minutes, all controlled loads shall turn off.

# CATERING KITCHEN

- Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum. Occupancy: Occupant must manually turn on lights.
- Vacancy: After 20 minutes, all controlled loads shall turn off.
- FARMER'S MARKET
- Timeclock: Space is networked to a central timeclock via room controller. Manual Control: Occupant can manually control lights via local switch(es). Switch(es) can override timeclock setting for 2 hours maximum.
- Occupancy: All controlled loads shall automatically turn on based on timeclock schedule. Vacancy: Lights shall turn off automatically based on timeclock schedule. Lights shall flicker-
- warn 5 minutes prior to turning off. Emergency: Emergency lighting shall be powered via central lighting inverter.

LIGHTING GENERAL NOTES:

- 1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
- 2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
- 3. SUSPEND BACK OF HOUSE, RECEIVING AND STOCKROOM AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE DURING STOCKING, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
- 4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS, COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- 5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 6. PER 2017 NEC 700.2 AND 700.24. ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.
- 7. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THEN FIELD LISTING OF EQUIPMENT IS ACCEPTABLE (AT CONTRACTOR'S COST), IF APPROVED BY THE AHJ. ALTERNATIVELY, AS ALLOWED PER 2017 NEC 90.4, THE CONTRACTOR MAY OBTAIN SPECIAL PERMISSION FROM THE AHJ AND SUBMIT SAID PERMISSION IN WRITING TO THE ENGINEER FOR REVIEW. IF USING NON-LISTED EQUIPMENT FOR APPLICABLE EMERGENCY SYSTEMS. THE ALTERNATIVE METHOD MUST BE FIELD TESTED AND ACHIEVE EQUIVALENT OBJECTIVES TO CODE INTENT. IN ADDITION, ALTERNATE METHOD AND EQUIPMENT USED MUST BE DEEMED SAFE AND ACCEPTABLE TO BOTH THE AHJ AND THE

# LIGHTING SUPPLEMENTAL SPECIFICATIONS:

ENGINEER.

- 1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
- 2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
- 3. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING, ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.
- 4. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
- 5. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
- 6. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



<u>NOTES:</u>

- 1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- 2. QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER. 3. DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN
- RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
- 4. CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
- 5. PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

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Addendum 1 12/22/23 DESCRIPTION DATE PROJECT NO: 18225R21006 STATUS: PERMIT SET DATE: 11/01/2023 DRAWN BY: TJL CHECKED BY: JS © GLMV Architecture, Inc. All work herein is the property of GLMV Architectur Inc. and is not to be copied or used in any way without the express written consent of GLMV Architecture, Inc. ELECTRICAL DETAILS AND LIGHTING **SCHEDULES** 

SE	ENERAL NOTES	WIR	E TYPE A	ND ABBRE
SPI	ECIFICATION REFERENCES: REFER TO DIVISION 27 SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" AND RELATED DOCUMENTS AND SECTIONS FOR PRODUCT INFORMATION	(NOTE 1 AB AEC	) ABBREVIATION I AUDIO TRANSPORT C ACOUSTIC ECHO CAN	DEFINITION OR SIGNA VER MANUF. PROPRIETARY ICELING SIGNAL
	AND ADDITIONAL REQUIREMENTS. CATEGORY AND FIBER CABLING SHALL BE INSTALLED, TERMINATED, AND	AES AN	DIGITAL AUDIO OVER UNBALANCED AUDIO TRANSPORT C	AES FORMAT - BALANCED
GE	TESTED PER DIVISION 27 SECTION "TELECOMMUNICATIONS REQUIREMENTS FOR AUDIO-VIDEO SYSTEMS".	CC Com	RELAY OR CONTACT CONTROL SIGNAL (RS LOW CAPACITANCE C	CLOSURE CONTROL SIGNAL 5232, RS422, RS485) CONTROL CABLE FOR LONG
	ALL BUILDING INFRASTRUCTURE, CONDUIT, AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, RACEWAYS, CABLE TRAYS, PEDESTALS, BACK	Ctl D	CONTROL SIGNAL OV DVI VIDEO SIGNAL	ER MANUF. PROPRIETARY F
	BOXES, JUNCTION BOXES, FLOOR BOXES, DOORS, LIDS, AND COVERS ARE PER DIVISION 27 SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS" UNLESS OTHERWISE NOTED WITHIN THIS DRAWING SERIES SET.	DP FW	DISPLAY PORT SIGNA FIREWIRE IEEE 1394	L
	REFER TO "MINIMUM SEPARATION REQUIREMENTS" ON THIS SHEET FOR CONDUIT SPACING INFORMATION.	GPIO H HDSDI	GPI/GPO/GPIO - GENE HDMI VIDEO/AUDIO S HD-SDI PER SMPTE 2	RAL PURPOSE INPUT AND/C GNAL 92M
	PROVIDE CONTINUOUS UNOBSTRUCTED CABLE PATH FOR ENTIRE LENGTH OF CABLE RUN. EXPOSED CABLING MAY REQUIRE CONDUIT TRANSITION(S) TO	10		
	ACHIEVE A COMPLETE PATHWAY, REFER TO "CIRCUIT ROUTING" ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.	IR I/O	INTERCOM (PRODUC INFRARED CONTROL VARIABLE VOLTAGE (	SIGNAL CONTROL SIGNAL
	REFER TO LIFE SAFETY PLANS FOR LOCATION OF FIRE-RATED AND SMOKE-	L LAN LS	LINE LEVEL AUDIO SIG ETHERNET LOUDSPEAKER LEVE	GNAL
	PENETRATIONS PER DIVISION 27 SPECIFICATION SECTION "COMMON WORK RESULTS FOR COMMUNICATIONS".	LS70 M	LOUDSPEAKER LEVE MICROPHONE LEVEL	L AUDIO SIGNAL 70V AUDIO SIGNAL
0	X SCHEDULE NOTES: VERIFY QUANTITIES, LOCATIONS, AND MOUNTING WITH PLAN, DETAIL, AND	MIDI	MIDI CONTROL SIGNA	L
	ALL BOXES SHOWN IN SCHEDULE ARE PER DIVISION 27 SECTION "COMMON	MMF Mono Phone	MULTI-MODE FIBER MONO AUDIO SIGNAL TELEPHONE SIGNAL	
	WITHIN THIS DRAWING SERIES SET.	R Ref	RGBHV VIDEO SIGNA REFERENCE/SYNC/BI	_ .ACK - BLACK BURST OR TRI
	INSTALLATION.	RF.	RF WIRELESS MIC AN	TENNA (-5dB @ 800MHz NO / TENNA (-5dB @ 800MHz NO /
	HEIGHT SHALL MATCH MOUNTING HEIGHT OF ADJACENT BOXES ON WALL UNLESS OTHERWISE NOTED.	SAT IF	RF WIRELESS MIC AN SATELLITE INTERMED	TENNA (-5dB @ 800MHz NO / DIATE FREQUENCY SIGNAL ( <sup>-</sup>
	WALL MOUNTED TERMINATION GANG BOXES SHALL BE MOUNTED 18" A.F.F. TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.	SDI	SERIAL DIGITAL INTER	RFACE PER SMPTE 259M
	WALL MOUNTED TERMINATION NEMA AND MANUFACTURER SPECIFIC BOXES SHALL BE MOUNTED 16" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED.	SMF	SINGLE-MODE FIBER	
	SURFACE MOUNTED BOXES SHALL BE PAINTED TO MATCH SURROUNDING FINISH.	SPDIF St	DIGITAL AUDIO OVER STEREO AUDIO SIGN	S/PDIF AL
;F	COORDINATE ANY CONFLICTS WITH APPROPRIATE DISCIPLINES.	TLY TB TC	TALLY THUNDERBOLT SIGN/ TIMECODF	
<u>ب</u>	CUSTOM TERMINATION COVER PANELS AND PLATES SHALL BE PROVIDED PER SPECIFICATION SECTION "AUDIO-VIDEO SYSTEMS" REQUIREMENTS	TIE LINES	MICROPHONE LEVEL	
	AND SHALL BE SIZED TO APPROPRIATELY SELF-TRIM THEIR CORRESPONDING BACK BOX.	ТРА	LOUDSPEAKER LEVE VIDEO AUDIO SIGNAL OVER	L TWISTED PAIR
	ALL PANELS AND PLATES SHALL BE 1/8" THICK (MINIMUM) BLACK ANODIZED ALUMINUM WITH ENGRAVED OR LASER ETCHED LETTERING OF A CONTRASTING COLOR. DEFAULT ENGRAVED TEXT COLOR SHALL BE WHITE.	TPC TPT TPV	CONTROL SIGNAL OV TELEVISION SIGNAL OVER	ER TWISTED PAIR DVER TWISTED PAIR
	UTILIZE 3/16" UPPER CASE LETTERING, SANS-SERIF FONT. VERIFY PLATE COLOR WITH ARCHITECT.	TRIAX	TRIAX VIDEO CAMER/	A CABLE
	REINFORCE PLATE AND/OR INCREASE PLATE THICKNESS TO MINIMIZE DEFLECTION.	TV	CABLE TELEVISION D	ISTRIBUTION SIGNAL
	UTILIZE COUNTERSUNK SCREW HEADS. SCREWS HEADS SHALL MATCH PLATE COLOR.	USB	UNIVERSAL SERIAL B	US SIGNAL
	ANY PANEL AND PLATE DETAILS OR INFORMATION RELATED TO TERMINATION PLATING CONTAINED IN THIS SET ARE INCLUDED FOR COMMUNICATION OF FABRICATION REQUIREMENTS AND ARE FOR CONCEPT	USB2 USB3	USB VERSION 1.0 USB VERSION 2.0 USB VERSION 3.0	
	PROJECT UNLESS SPECIFICALLY STATED AS SUCH. VERIFY SIZES OF ALL COMPONENTS AND BOXES PRIOR TO SUBMITTAL OF SHOP DRAWINGS.	V	COMPOSITE VIDEO S	GNAL
	FIELD VERIFY THE SIZE OF ALL COMPONENTS AND BOXES PRIOR TO INSTALLATION. MODIFY PLATE SIZES IN THE CASE OF ALTERATIONS TO FIELD CONDITIONS	Y	COMPONENT VIDEO S	SIGNAL
	REFER TO SPECIFICATIONS FOR SUBMITTAL AND ADDITIONAL PANEL AND PLATE REQUIREMENTS.	36501	3G-SDIPER SMPTE 42	241VI
1	BLE TERMINATION NOTES:	6GSDI * NOTES	6G-SDI DENOTES PORTION C COMPLY WITH ALL M	OF ITEM
<u> </u>	ALL AUDIO TERMINATIONS SHOULD COMPLY WITH RANE CORPORATION RANENOTE 110 REFERENCE FOR SOUND SYSTEM INTERCONNECTION.		1 SIGNAL FLOW SIGNAL 2 CABLE DISTANCE LIM	TYPE ABBREVIATION. ITATION. CONTACT CONSUL
<u>s</u>	REFER TO SPECIFICATIONS FOR RACK LAYOUT SUBMITTAL REQUIREMENTS.		4       REFER TO SIGNAL FL         5       REFER TO SCHEDULE	OWS FOR WIRE TYPE. S FOR WIRE TYPE.
	ANY RACK LAYOUTS OR INFORMATION RELATED TO EQUIPMENT RACKING CONTAINED IN THIS SET ARE FOR CONCEPT ONLY. VERIFY RACK LAYOUT FOR EQUIPMENT FURNISHED PRIOR TO SUBMITTAL OF SHOP DRAWINGS.	SIG	NAL FLOV	V BLOCK LE
	IF THERE ARE DIFFERENCES IN EQUIPMENT RACKING INFORMATION TO			Block Description 🚽
<u></u>	PRECEDENCE.	_		Y/S/V 1 Y/S/V 1/2
	ANY STRUCTURAL DETAILS, STRUCTURAL MEMBER TYPES, SIZES, AND ATTACHMENT METHODS CONTAINED IN THIS SET ARE SHOWN FOR			M/L 1 St 1 Y/S/V 2 Y/S/V 3
	CONCEPT ONLY. FINAL DESIGN, INCLUDING DOCUMENTATION STAMPED BY STRUCTURAL ENGINEER (PROVIDED AS PORTION OF SHOP DRAWING REQUIREMENTS), SHALL BE MADE BY THE CONTRACTOR AND SHALL BE			M/L 2 St 2 R/Y 3 R/Y/S/V 4
	VERIFIED BY THE OWNER AND AV CONSULTANT. REFER TO SPECIFICATIONS FOR ALL MOUNTING, INSTALLATION, ACCESS,		EVICE	St 1         St 3           R/Y 4         DM 5
	AND SHOP DRAWING REQUIREMENTS. EXPOSED LOUDSPEAKER CIRCUITS UTILIZING STRUCTURAL STEEL		PER DE	St 2 DM 6 R/Y 5 DM 7
	PATHWAYS SHALL BE ROUTED HIGH WITHIN TRUSS SPACE OR WHERE OTHERWISE PROTECTED FROM DAMAGE. ROUTING SHALL MINIMIZE CIRCUIT LENGTH BETWEEN LOUDSPEAKER AND EQUIPMENT RACK WHERE		/ARIES	St 3 Cont Net
	FEASIBLE. NEATLY BUNDLE CIRCUITS AND FASTEN SECURELY TO STRUCTURE TO ENSURE PROPER SUPPORT AND PROTECTION. TO MINIMIZE DAMAGE FROM TEMPORARY RIGGING ACTIVITIES ASSOCIATED			DM 2 LS R
	WITH SPECIAL EVENT SUPPORT, AVOID ROUTING CIRCUITS IN AREAS PRONE TO THIS USE, I.E. BOTTOM CHORDS OF TRUSSES. AVOID CONTACT OR CONFLICT WITH OTHER BUILDING ELEMENTS SUCH AS LIGHTING FIXTURES &			USB Com A IR In Com B
	BALLASTS, DUCTS, RIGGING, AND SHARP EDGES. CABLE COLOR SHALL MATCH SURROUNDING ELEMENTS.			IO IR A IO IR B
_			_ ▼	LAN CC 1 Product Name/Model#
		REFE	LOCATION BOX" IN PLAN LOCATION "Q1738" RENCE BOX SCHEDULE	
			CONDUIT BETWEEN "A" AND "J"	J:Q1738:01 M:Q1738:0
		ONE (1) 0. FOR LIN	75" CONDUIT SPECIFIEE E LEVEL SIGNALS ONLY	.75
			ED FLOOR BOX IN PLAN N "Q1738". NUMBER "01" RENCE BOX SOULD !!	
			ONDUIT FROM BOX "A"	A:Q1738:02
		НО	IMERUNS TO INDICATED LOCATION ONE (1) 0.75" COND	
		SPEC	IFIED FOR VIDEO LEVEL SIGNALS ONLY	TRAY
		TRAY DE CO LOCATIO	STINATION. TERMINATE NDUIT AT TRAY DIVIDER ON INDICATED FOR USE	
		1000		

ATH: Autodesk Docs://18225B21006 LeesSummitMarket/LSMO-MEP

REVIATIONS					=0 SY	MBOLS			OT ALL SYMBOLS,	CONDU	IT/CIRCUIT GROUP DIV	/ISIONS	v1.00
	WIRE TYPE	(NOTE 2)	AUDIO					INS, ETC. ARE NECES	SARILY USED ON THE DRAWINGS.	GROUP DES			BANDWIDTH
ICED	- 22 AWG	90m 100m	SIGNAL FL	_OW PANEL/PI	PLATE	DESCRIPTION	SIGNAL FLOW	PANEL/PLATE	DESCRIPTION	DATA	CIRCUITS CIRCUITS CIRCUITS	2 VOLT PEAK-TO-PEAK INTO 1	00 OHMS 0 Hz TO 500 MHz
ROTOCOL REQUIRING STP	RG-6 CAT6 STP	1000m 90m	<sup>®</sup> F3		F	EMALE 3-PIN XLR PANEL	<b></b>			L LINE I M MICR	EVEL AUDIO CIRCUITS OPHONE LEVEL AUDIO CIRCUITS	-30dBU TO +24dBu BELOW -30dBu	20 Hz TO 20kHz 20 Hz TO 20kHz 20 Hz TO 20kHz
LONG RUNS	22 AWG (NOTE 3)		F						CONNECTOR	S SPEA	KER LEVEL AUDIO CIRCUITS INCLUDING BOTH LOW DANCE AND HIGH IMPEDANCE (70 VOLT) TYPES	GREATER THAN +24dBu	20 Hz TO 20kHz
FARY PROTOCOL	(NOTE 3) PREMADE CAT6 STP	25' 90m	® <mark>M3</mark>			IALE 3-PIN XLR PANEL MOUNT CONNECTOR			CABLE END BNC CONNECTOR	V VIDEO W RF LE ANTE	) CIRCUITS VEL CIRCUITS INCLUDING WIRELESS MICROPHONE, NNA CABLE, SATELLITE, ASSISTED LISTENING	1 VOLT PEAK-TO-PEAK INTO 7 GREATER THAN +24dBu	25 OHMS 0 Hz TO 250 MHz 5 MHz TO 3GHz
	PREMADE PREMADE	3m 4.5m	® <del>C3</del>		F	EMALE COMBO 3-PIN XLR AND			75 OHM BNC TERMINATOR	SYST			
AND/OR OUTPUT	(NOTE 4) (NOTE 3) RG-59	300'	(			CONNECTOR			RGBHV HD-15 PANEL MOUNT CONNECTOR	GROUP	A L M P	s v	W POWER*
	RG-6 RG-11 22 AWG	370' 580'	ଞ <mark></mark> F4		F	EMALE 4-PIN XLR PANEL IOUNT CONNECTOR			RGBHV HD-15 CABLE MOUNT	A N L AD M	O SEPADJACENT4"2"JACENTNO SEPADJACENT4"4"ADJACENTNO SEP4"	ADJACENT     ADJACENT       2"     ADJACENT       4"     ADJACENT	ADJACENT         2"           2"         4"           4"         12"
	PREMADE 22 AWG		ŀ					a	DVI PANEL MOUNT	P S AD	2"         4"         4"         NO SEP           JACENT         2"         4"         4"           JACENT         2"         4"         4"	4" 4" NO SEP 2"	4" 4" ADJACENT 2" 2" 2"
160HM	22 AWG CAT6 (NOTE 5)	90m	<sup>©</sup> М4 М	л4 <sup>©</sup>		IALE 4-PIN XLR PANEL MOUNT ONNECTOR			CONNECTOR	W AD. POWER*	JACENT         ADJACENT         ADJACENT         4           JACENT         2"         4"         4"           2"         4"         12"         4"	ADJACENT 2" 2" 2"	ZZNO SEP2"2"PER NEC
	(NOTE 5) 22 AWG		ଞ <mark></mark> F5		F	EMALE 5-PIN XLR PANEL			DVI CABLE MOUNT CONNECTOR	*POWER MULTI CIRCUIT	PLIERS FOR "MINIMUM SEPARATION REQUI	REMENTS" TABLE ABOV	/E UNSCREEN BOTH
	SMF PREMADE	40km	F	F5 <sup>©</sup>		IOUNT CONNECTOR	<u>D</u>		HDMI PANEL MOUNT CONNECTOR	ENVIRONME 120/230\ 120/230\	INTAL CLASS E1         IABLE         2X TABLE           /AC 20A 1PH         30         60           /AC 32A 1PH         9         19	6X TABLE         12X TABLE           91         -           29         -	POWERSCREENED2X TABLE0.5X TABLE2X TABLE0.5X TABLE
	(NOTE 3) 22 AWG CAT3		®		M C	IALE 5-PIN XLR PANEL MOUNT CONNECTOR			HDMI CABLE MOUNT CONNECTOR	120/230V 120/230V	/AC 63A 1PH         3         8           AC 100A 1PH         1         2           2 100A 3PH         0         0	15 - 4 - 1 2	2X TABLE0.5X TABLE2X TABLE0.5X TABLE1X TABLE0.5X TABLE
OR TRI-LEVEL SYNCHRONIZATION	PREMADE RG-59	25'			F C	EMALE XLR CABLE MOUNT			DISPLAYPORT PANEL MOUNT	GENERAL NOTES: 1. POWER SEP	ARATION ASSUMES REASONABLE CONDITIONS, REFER T	O TIA-569 FOR SPECIFIC REQUI	
Iz NO AMP) Iz NO AMP)	RG-58 RG-8X RG-213	IN RACK 40' 65'	≻ <mark>F3</mark>		1) 1) 1	NUMBER BELOW SYMBOL NDICATES NUMBER OF PINS)		C <u>(</u> )9		2. APPLY LISTE 3. TABLE VALU KEYED NOTES:	D FACTORS FOR UNSCREENED POWER CABLES, INCLUE ES MAY BE HALVED WHEN BOTH POWER AND LV CABLIN	DING UNDERGROUND ROUTING G IS IN METAL PATHWAYS PER	IN PVC OR SIMILAR TIA-569
Iz NO AMP) GNAL (TYPICALLY L-BAND)	RG-8/U RG-59	120' IN RACK	N		M C L ()	IALE XLR CABLE MOUNT ONNECTOR NUMBER BELOW SYMBOL			CONNECTOR		TROUTING	UITS WITH NO LOW VOLTAGE C.	ABLE PROTECTION
ЭМ	RG-11 PREMADE	DISTRO 950'	`M3	07	л́ Ф	NDICATES NUMBER OF PINS)	Ø		F-STYLE RF PANEL MOUNT CONNECTOR		CONDUIT J-HOOK	(	DIVIDED CABLE TRAY
	RG-6 RG-11 (NOTE 3)	1150' 1850' 2.5Km	$\checkmark$		) 1/ M	/4" 3-CONDUCTOR PANEL IOUNT CONNECTOR			F-STYLE RF CABLE MOUNT CONNECTOR	A L	HOME RUN         STUB         FROM STU           ALLOWED         ALLOWED         ALLOWED           ALLOWED         ALLOWED         ALLOWED	UBDATA SEGMENTDALLOWEDDPROHIBITED	SPEAKER SEGMENTAV SEGMENTPROHIBITEDALLOWEDPROHIBITEDALLOWED
	PREMADE PREMADE	10m 5m							VIDEO PATCH PANEL JACK	M P	REQUIRED         PROHIBITED         PROHIBIT           ALLOWED         ALLOWED         ALLOWED	ED PROHIBITED D PROHIBITED	PROHIBITED PROHIBITED PROHIBITED PROHIBITED
	22 AWG 24 AWG PREMADE	3m			- 10	IOUNT CONNECTOR				V W	ALLOWED         ALLOWED         ALLOWED           ALLOWED         ALLOWED         ALLOWED           ALLOWED         ALLOWED         ALLOWED           REQUIRED         PROHIBITED         PROHIBIT	D PROHIBITED D PROHIBITED ED PROHIBITED	ALLOWEDPROHIBITEDPROHIBITEDALLOWEDPROHIBITEDPROHIBITED
	RG-59 22 AWG		0		1/ M	/8" 3-CONDUCTOR MINI PANEL IOUNT CONNECTOR	M		TRIAX MALE	LIFE SAFETY CIRCUIT REQUIREM	REQUIRED     PROHIBITED     PROHIBIT       ENTS:     ICATIONS AND NEC FOR CARLE CLASSIFICATION DECUIRED	ED PROHIBITED	PROHIBITED PROHIBITED
	(NOTE 4) (NOTE 4)				1/ M	/8" 3-CONDUCTOR MINI CABLE 10UNT CONNECTOR				2. ALL FIBER CIRCUI 3. LIFE SAFETY CIRC	TS NOT IN HOME RUN CONDUIT SHALL BE ARMOR JACKE	REMENTS TED RE THE SYSTEM OR CABLE IS SI	ERVING AN EMERGENCY OR LIFE SAFETY
	CAT6 CAT6 CAT6	90m 90m 90m			s	PEAKON JACK,	F			4. REFER TO SPECIF HOME RUN CONDUI	ICATIONS FOR REQUIREMENTS RELATED TO CABLING W	/ITHIN UNDERGROUND CONDUI	ITS
	CAT6 RG-59/U	90m IN ROOM	4			-CONDUCTOR BLANK, -CONDUCTOR SHOWN	M		SMPTE 304 SOCKET (MALE)	1. WHERE LISTED DI ROOM FOR CABLE 2. CIRCUITS OF LIKE	ESTINATION IS AN EQUIPMENT ROOM OR RACK WITHIN A E TO CONTINUE TO EQUIPMENT RACK VIA LADDER RACK GROUPS MAY BE CONSOLIDATED ALONG PATH WITH CO	N EQUIPMENT ROOM (E.G. R:17 OR SIMILAR DNDUITS UPSIZED PER NEC	38), CONDUITS SHALL TERMINATE WITHIN
	RG-11/0 RG-59 RG-6	IN RACK	4		S S	EPEAKON PLUG, IMILAR TO ABOVE				CONDUIT STUB & J-H 1. PROVIDE WALL PE 2. REFER TO SPECIE	HOOK REQUIREMENTS: ENETRATIONS AS NECESSARY. ALL PENETRATIONS MUS FICATIONS FOR FIRE STOPPING REQUIREMENTS	T CONSIST OF CONDUIT WITH B	BUSHINGS OR EZ-PATH PER SPECIFICATIONS
	RG-11 1/2" HARDLINE PREMADE	DISTRO TRUNK	6	0	Ň		© F		SMPTE 304 PLUG (FEMALE)	3. OPEN CABLING IS EXPOSED AREA A	NOT PERMITTED IN AREAS EXPOSED TO STRUCTURE. W	HERE CABLE TRAY IS NOT PRO	OVIDED, ROUTE IN CONDUIT UNTIL OUT OF
	PREMADE PREMADE	5m 5m			Č	CONNECTOR				CABLE TRAY REQUI 1. REQUIREMENTS I 2. "DIVIDER" INDICAT	REMENTS NDICATE THE ACCEPTABLE CABLE TRAY ALLOCATION OF TES A CABLE TRAY DIVIDER EQUAL TO THE HEIGHT OF TH	SIGNALS BETWEEN CABLE TRATE IE TRAY AND SUFFICIENT TO PF	AY DIVIDERS ROVIDE AN EMI BARRIER. REFER TO
	PREMADE RG-59 RG-6	5m 750' 900'			F C	EMALE DT12 PANEL MOUNT	SIGNAL FLOW	PANEL/PLATE	DESCRIPTION		-OR ADDITIONAL REQUIREMENTS		
	RG-11 RG-59 RG-6	1200' 125' 200'	DATA		<u></u>		- 0 0 0 0 0 0	Ø)Ø	COM (DB-9) PANEL MOUNT				
	RG-59 RG-6	200' 250'	SIGNAL FL	_OW PANEL/PI	PLATE	DESCRIPTION			CONNECTOR	PLAN LE	EGEND	PATHWAY LEGEND	
	RG-11 (NOTE 4)	390'	¢		S C	T FIBER PANEL MOUNT ONNECTOR			CONNECTOR	BOX AND PLAN	SYMBOLS         WALL BOX. "X" INDICATES FUNCTION OF BOX		IT PATH.
REMENTS.					S C	T FIBER CABLE MOUNT			IR EMITTER	→ → → → → → → → → → → → → → → → → → →	(REFER TO BOX LABEL LEGEND). "##" INDICATES BOX DESIGNATION.		
	IDE PARAMETER	<u>.                                    </u>			• Lo C	C FIBER PANEL MOUNT CONNECTOR			USB TYPE A PANEL MOUNT CONNECTOR	X##	POKE THRU. SIMILAR TO ABOVE.		BUSH CONDUIT ENDS.
				<u> </u>	C	C FIBER CABLE MOUNT CONNECTOR			USB TYPE A CABLE MOUNT		CEILING MOUNTED BOX. SIMILAR TO ABOVE.	IF PRES SLAB. BI	ENT, OTHERWISE BELOW FLOOR USH CONDUIT ENDS.
					н С	IYBRID FIBER PANEL MOUNT CONNECTOR			CONNECTOR	(s) —	FLUSH MOUNTED CEILING LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER	CONDUI CONSTR	IT IN/UNDER FLOOR/GROUND RUCTION
SPECIFICATION REFERENCE     DEVICE IDENTIFICATION AI	CE ND LABEL			C PBH	H C	IYBRID FIBER CABLE MOUNT			USB TYPE B PANEL MOUNT CONNECTOR	S##	IDENTIFICATION INFORMATION. PENDANT MOUNTED LOUDSPEAKER. "S##" DESIGNATOR INDICATES LOUDSPEAKER	EXPOSE	ED CABLE PATH. NO CONDUIT.
					U C	ITP PANEL MOUNT CONNECTOR	<b>_</b>		USB TYPE B CABLE MOUNT CONNECTOR	S##	IDENTIFICATION INFORMATION. CEILING MOUNTED MICROPHONE. SIMILAR TO	CABLE T	TRAY. SIZE AS INDICATED ON PLANS.
SIGNAL TYPE (TYPICAL) SEE WIRE TYPE AND ABBR	REVIATIONS		[		U D C	ITP CABLE MOUNT				C x##	CEILING MOUNTED CAMERA. SIMILAR TO ABOVE. NO BACK BOX.		
					R	J-45 STANDARD PANEL			CONNECTOR	TYPICAL BOX S	SYMBOLS		END
					j M	IOUNT CONNECTOR			USB TYPE C CABLE MOUNT CONNECTOR		WALL BOX. "YY" INDICATES TYPE. REFER TO TYPICAL BOX SCHEDULE FOR ADDITIONAL INFORMATION AND AS INDICATED ON PLANS AND KEY NOTES.	A ASSORT	TED
					M 1 R	OUNT CONNECTOR	DEVICES AND	CONNECTIONS		YY-F# (ŶŶ) —	FLOOR BOX. CEILING BOX. SIMILAR TO ABOVE. "YY" INDICATES SYMBOL TYPE. "-F#" INDICATES UNIQUE	C CONTRO D DSS SAT	DL TELLITE
					C B	ONNECTOR	SIGNAL FLOW		DESCRIPTION		IDENTIFIER. S ON TYPICAL BOX SCHEDULE INDICATE INFORMATION	F FUTURE G GAME C	C / BY OTHERS CLOCK
					C	ONNECTOR			CONNECTION TO CHASSIS		ND	K CAMERA L LINE-LEY M MICROP	A VEL AUDIO PHONE-LEVEL AUDIO
			<u>NOTE</u> : REFER REQUIREMEN <sup>-</sup> INFORMATION	TO DIVISION 27 S TS FOR AUDIO-V	SECTION "TELE VIDEO SYSTEM	ECOMMUNICATIONS S" FOR ADDITIONAL		-	GROUND	$\left \begin{array}{c} \left\langle \begin{array}{c} \# \\ A \end{array}\right\rangle - \cdots \\ \overline{\left\langle \begin{array}{c} \# \end{array}\right\rangle} \end{array}\right\rangle$	INDICATES ASSORTED SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.	P PRODUC R EQUIPM S LOUDSF	CTION INTERCOM IENT RACK PEAKER-LEVEL AUDIO
		-	AUDIO-VID	EO					RUBBER JACKETED	$\left \begin{array}{c} \left\langle \begin{array}{c} \# \\ L \end{array}\right\rangle - \cdots \\ \left\langle \begin{array}{c} \# \\ \end{array}\right\rangle$	INDICATES LINE LEVEL SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.	T TELEVIS V VIDEO W WIRELE	SION DISTRIBUTION
PRODUCT REFLECTING BA	SIS OF DESIGN		SIGNAL FL	_OW PANEL/PI		DESCRIPTION			EXTENSION CABLE	$\left \begin{array}{c} \left\langle \begin{array}{c} \# \\ M \end{array} \right\rangle \\ \left\langle \begin{array}{c} \# \\ H \\ \\ H \end{array} \right\rangle $	"#" SPECIFIES SIZE OF CONDUIT.	DS DIGITAL DV DIRECT	. SIGNAGE VIEW LED
ΓEXAMPLE			9		F C	EMALE RCA PANEL MOUNT	•		PARALLEL CONNECTION OR CHANGE IN WIRE TYPE	$\left \begin{array}{c} \left\langle \begin{array}{c} \# \\ P \end{array}\right\rangle \\ \left\langle \begin{array}{c} \# \\ \end{array}\right\rangle \\ \left\langle \begin{array}{c} \# \\ \end{array}\right\rangle \end{array}\right\rangle$	SIGNALS ONLY. "#" SPECIFIES SIZE OF CONDUIT.	FP FLAT PA LS LOUDSF PR PROJEC	ANEL DISPLAY PEAKER CTOR
CON HOM	DUIT FROM BOX ' ERUNS TO INDIC	A" ATED	<)		M C	IALE RCA CABLE MOUNT		7		$\left \begin{array}{c} \langle \ddot{\mathbf{S}} \rangle \\ \mathbf{f} \rangle \\ \mathbf{f} \rangle \end{array}\right $	"#" SPECIFIES SIZE OF CONDUIT. INDICATES VIDEO SIGNALS ONLY.	PS PROJEC TV TELEVIS VW VIDEO V	CTION SCREEN BION VALL
738:01 LOC/	ATION. (1) 2" CONDUIT S	PECIFIED							ANTENNA PATCH POINT. CONNECT TO		"#" SPECIFIES SIZE OF CONDUIT. INDICATES WIRELESS/RF SIGNALS ONLY. "#"	LABEL STAN	NDARD
FOR SIGN BOX	MICROPHONE LE IALS ONLY. TERM "M".	VEL INATES AT				EMALE PANEL MOUNT IULTIPIN CONNECTOR	- <del>-</del>		PATCH PANEL PER SPECIFICATION REQUIREMENTS		SPECIFIES SIZE OF CONDUIT.		
2.0 M MUL				( LE Z	F	EMALE CABLE MOUNT			CONNECTION BUBBLE UPPER DESIGNATION REFERS	$\left  \begin{array}{c} \left< .75 \\ X \end{array} \right\rangle $ ———	0.75" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.		J:Q1738:01
1.25" LOUI ONL	SPEAKER LEVEL SPEAKER LEVEL (, TWO (2) 0.75" C	SIGNALS ONDUIT			M	IULTIPIN CONNECTOR		A1 700	TO CONNECTION LABEL. LOWER DESIGNATION REFERS TO THE SHEET NUMBER ON	$\begin{vmatrix} \langle 1.0 \\ X \end{vmatrix}$ — —	1" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.	DEVICE TYPE LABEL PLAN LOCATION UNIQUE IDENTIFIER	
1.2 S L L V S S S S S S S S S S S S S S S S	ALS ONLY, AND CONDUIT SPECIE	DNE (1) IED FOR			M	IALE CABLE MOUNT MULTIPIN ONNECTOR			WHICH THE CONNECTION IS CONTINUED.	$\left \begin{array}{c} \left\langle 1.2 \\ X \end{array}\right\rangle - \frac{1}{2} \right\rangle$	1.25" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.		
VIDE	UNLY			( -	-) P.	ATCH JACK PLUG			EQUIPMENT / TERMINATIONS WITHIN A COMMON LOCATION AS LABELED.	$\left \begin{array}{c} \left\langle 1.5 \\ X \\ \end{array}\right\rangle - \frac{1}{20} \right\rangle$	1.5" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.	HATCHING LEGEND	<del>K { { { { { { { { { { { { { { { { { { {</del>
CON	DUIT FROM BOX	A" STUB		$\bigvee$	/					2.5 2.5	2" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.	ENLARGED PLAN	
TO A	BOVE ACCESSIB	E CEILING.							ALTERNATE OUTLINE	$\begin{array}{c c} & \overbrace{\mathbf{X}}^{-\cdots} \\ & \overbrace{3.0}^{-\cdots} \end{array}$	2.5" CONDUIT. X INDICATES SIGNAL TYPE, SEE ABOVE.	NOT IN SCOPE (NIS)	
SCHEDULE FOR ADDITIONAL INSTRUND ANY ADDITIONAL NOTES AS INDI	JCTIONS. FOLLO	V 5.	<u>NOTE</u> : PANEL	& PLATE CONN	IECTORS ARE 1	NOT SHOWN TO SCALE.	-			<u> </u>	J CONDUIT. A INDICATES SIGNAL TYPE, SEE ABOVE.	· · · · /	







$\triangle$	DESCRIPTION	DATE
PROJECT	NO:	18225R21006
STATUS:		PERMIT SET
DATE:		11/01/2023
DRAWN B	Y:	JFR
CHECKED	BY:	JG
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AL GEN AN	JDIO-VII IERAL N ND LEGI	DEO IOTES END







FOR 12" x 12" NEMA BACK BOX

FOR 8" x 8" NEMA BACK BOX

v1.00

- GENERAL NOTES: 1. THIS SHEET IS PROVIDED TO CONVEY PANEL AND PLATE REQUIREMENTS IN A GENERAL FASHION. IT SHALL BE USED AS A GUIDELINE FOR THE CREATION OF SHOP DRAWINGS. ALL DETAILS CONTAINED ON THIS SHEET ARE CONCEPTUAL IN NATURE AND DO NOT REFLECT SPECIFIC LAYOUTS RELATED TO THIS PROJECT.
  2. DETAIL 1 DESCRIBES PLATE FABRICATION REQUIREMENTS RELATED TO PLATE LAYOUT AND CONNECTOR SPACING AND SEPERATION.
- 3. DETAIL 2 PROVIDES EXAMPLE PLATE LAYOUTS WITH LABELING REQUIREMENTS. 4. REFER TO LEGEND SHEET FOR GENERAL PANEL AND PLATE NOTES.







LICENSE # PE-2022017790

MARKET SUMMIT SUMMIT LEE'S MO SUMMIT, ЦО လ LEE'S Ш CIT



JS: JS:	EXT:01 / EXT:01 /	ASSORTED CONI	NECTION WALL BOX	RACO	674 674	166" 166"	FLUSH FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
JS: JS:	EXT:01 / EXT:01 /	ASSORTED CONI ASSORTED CONI	NECTION WALL BOX NECTION WALL BOX	RACO RACO	674 674 674	166" 166" 168"	FLUSH FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN PER PLAN PER PLAN	
JS:	EXT:01	ASSORTED CON	NECTION WALL BOX	RACO	674	166"	FLUSH	BLANK	1-GANG MUD RING	PER PLAN	PER PLAN	
SCH •	IEDULED POWEF	PARAMETER DE R DRAW = DESIG	FINITIONS: GNED LOAD ON CIRCU			CHANNEL SIZING F	ACTOR (CONT	INUOUS P	OWER RATING)			
•	• F • F WIRE A MAY RE	OR LOW IMPEDA OR 70V: VALUES AWG# = ANTICIPA	ANCE: VALUES INDICATED ARE MAX S INDICATED ARE MAX ATED WIRE GAUGE R MENTS BY THE CONT	ATED ARE R XIMUM CIRC EQUIRED FO	ms UIT Load Dr Maximum	ALLOWABLE LINE I	LOSS OF [1.0dl	B]; INSTAL	LATION FACTORS			
	• N • •	/INIMUM ALLOW/ 70V LOUDS LOW IMP LO	ABLE WIRE GAUGE: PEAKERS: 16AWG DUDSPEAKERS: 12AW	VG								
•	• HEIGH <sup>-</sup> YAW =	SUBWOOFE T = MEASURED T HORIZONTAL OF	ERS: 12AWG O CENTER OF LOUD RIENTATION IN RELAT	SPEAKER FA FION TO PLA	ACE IN NORTH							
•	ROLL = ROLL E ROTAT	= VERTICAL ORI ROTATIONAL OI ENCLOSURE 90 = E HORN 90 = ST/	RIENTATION AROUNE STARTING POSITION ARTING POSTION OF	D LOUDSPEA N OF LOUDSP HORN IS RC	AKER AXIS PEAKER IS R DTATED 90 DI	OLLED 90 DEGREES	S CLOSURE					
	,						,		<i>,</i>			
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	/		LS:EXT:08							$\bigcirc$		/
			A1 144" AFF. 150 W									
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	AUDIO-VIDEO LOUDSPEAKER SCHEDULE - AMP1													
	CIRCUIT PRO	PERTIES		LOUDSPEAK	ER PROPERTIES		LOUDSPEAKER MOUN	TING	OR	RIENTATIO	NC	ENCLOSU	RE/HORN	
		WIRE	SPEC			70V TAP						ROLL	ROTATE	
ID	LOAD TYPE	AWG#	NAME	B.O.D. MANUF.	B.O.D. MODEL	(WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ENCL. 90	HORN 90	NOTES
5														
5 LS:EXT:01	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:02	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:03	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:04	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:05	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
LS:EXT:06	70 V	12	TYPE 4	BIAMP	DESONO MASK4CT	20	SUSPENDED STRUCTURE	163"	0.00°	-45.00°	0.00°	Yes	No	
6		1	1		1	1			1		1			
LS:EXT:07	LOW IMP	12	TYPE 6	BIAMP	DESONO ENT206	150	POLE STRUCTURE	144"	90.00°	-14.00°	0.00°	No	No	
7														
		10				4.50			070.000	44.000	0.000			
LS:EXT:08	LOW IMP	12	TYPE 6	BIAMP	DESONO ENT206	150	POLE STRUCTURE	144"	270.00°	-14.00°	0.00°	No	No	

TO ORIENT LOUDSPEAKERS: 1. VERIFY "ROLL ENCLOSURE 90" AND "ROTATE HORN 90" PRIOR TO PROCEEDING

2. VIEW LOUDSPEAKERS FROM REAR (FROM PLAN SOUTH VIEWING NORTH) 3.

TILT LOUDSPEAKER TO SCHEDULED PITCH ORIENTATION 4.

FINAL ORIENTATION OF LOUDSPEAKERS: 1. SHALL BE AT THE DISCRETION OF THE CONSULTANT DURING COMMISSIONING CONTRACTOR SHALL PROVIDE MEANS OF ACCESS TO ALL LOUDSPEAKER POSITIONS FOR TESTING, VERIFICATION, REORIENTATION, ETC. 2.

3.



ROTATE LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO THE SCHEDULED YAW ORIENTATION

5. ROLL LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO SCHEDULED ROLL ORIENTATION

MEANS OF ACCESS SHALL INCLUDE MOTORIZED LIFTS, SCAFFOLDING OR OTHER METHOD TO ALLOW FOR SAFE AND TIMELY OBSERVATION AND ADJUSTMENT









	I DATE
PROJECT NO:	18225R21006
STATUS:	PERMIT SET
DATE:	11/01/2023
DRAWN BY:	JFR
CHECKED BY:	JG
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AUDIO-VIDE PLAN	O SITE

TA-100

	AUDIO-VIDEO BOX SCHEDULE												
	BOX FUNCTION		BOX PF	ROPERTIES		BOX ACCE	ESSORIES		CONDUIT REQUIREMENTS				
ID	DESCRIPTION	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS	SIZE	ROUTING	NOTES			
A:110:01	ASSORTED CONNECTION WALL BOX	FSR	WB-X1-PLT	46"	FLUSH	WB-X1-SMCVR-BLK	CUSTOM PLATE	1.00"	STUB HIGH CLOSE TO CEILING DECK				
A:110:02	ASSORTED CONNECTION WALL BOX	RACO	260 W/ 818	18"	FLUSH	N/A	2-GANG MUD RING	0.75"	STUB HIGH CLOSE TO CEILING DECK				
A:110:03	ASSORTED CONNECTION WALL BOX	RACO	942	46"	FLUSH	N/A	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
A:110:04	ASSORTED CONNECTION WALL BOX	FSR	WB-X1-PLT	46"	FLUSH	WB-X1-SMCVR-BLK	CUSTOM PLATE	1.00"	STUB HIGH CLOSE TO CEILING DECK				
A:110:05	ASSORTED CONNECTION WALL BOX	RACO	260 W/ 818	18"	FLUSH	N/A	2-GANG MUD RING	0.75"	STUB HIGH CLOSE TO CEILING DECK				
A:110:06	ASSORTED CONNECTION WALL BOX	RACO	942	46"	FLUSH	N/A	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
C:108:01	ASSORTED CONNECTION WALL BOX	RACO	260 W/ 843	46"	FLUSH	N/A	1-GANG MUD RING	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:100:01	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:100:02	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:110:01	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:110:02	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:110:03	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:110:04	TELEVISION CONNECTION BOX	FSR	PWB-250	72"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
V:110:05	TELEVISION CONNECTION BOX	FSR	PWB-250	96"	FLUSH	PWB-250-BLK-C	N/A	0.75"	STUB HIGH CLOSE TO CEILING DECK				
W:110:01	WIRELESS MIC ANTENNA CONNECTION WALL BOX	HOFFMAN	ASG4X4X4	220"	FLUSH	PROVIDE	N/A	1.25"	HOME RUN TO EQUIPMENT RACK				
W:110:02	ALS ANTENNA CONNECTION WALL BOX	HOFFMAN	ASG4X4X4	220"	FLUSH	PROVIDE	N/A	1.25"	HOME RUN TO EQUIPMENT RACK				
W:110:03	WIRELESS MIC ANTENNA CONNECTION WALL BOX	HOFFMAN	ASG4X4X4	220"	FLUSH	PROVIDE	N/A	1.25"	HOME RUN TO EQUIPMENT RACK				

	AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE													
	DISPL	AY PROPERTIES			MOUNTING REQUIR	EMENTS	DISPLAY RES	PONSIBILITY						
				INSTALL HEIGHT AFF. (CENTER O	Г F									
ID	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY	NOTES					
FP:100:01	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
FP:100:02	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
FP:110:01	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
FP:110:02	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
FP:110:03	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
FP:110:04	FPD-98"/UHD	NEC	M861	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						
VW:110:01	PRIMEVIEW-PRVLEDFSNM220	PRIMEVIEW	PRVLEDFSNM220	72"	WALL - FIXED	CONTRACTOR	CONTRACTOR	CONTRACTOR						





$\triangle$	DESCRIPTION	DATE
PROJE	CT NO:	18225R21006
STATU	S:	PERMIT SET
DATE:		11/01/2023
DRAWN	NBY:	JFR
CHECK	ED BY:	JG
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AUC	OIO-VIDE	O PLAN





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					AUDIO-VIDEO L		ER SCHEDULE - AMP1										
	CIRCUIT PRO	PERTIES	5	LOUDSPEAK	ER PROPERTIES		LOUDSPEAKER MOUN	ITING	OR	RIENTATION	ENCLOSURE/HORN			CIRCUIT PRO	PERTIES		LOU
ID	LOAD TYPE	WIRE AWG#	SPEC NAME	B.O.D. MANUF.	B.O.D. MODEL	70V TAP (WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH ROLL	ROLLROTATEENCL. 90HORN 90	NOTES	ID	LOAD TYPE	WIRE AWG#	SPEC NAME	B.O.D.
118IAMP1																	
													3				
S:100:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:01	70 V	14	TYPE 3	BIAMP
S:100:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:02	70 V	14	TYPE 3	BIAMP
S:100:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:03	70 V	14	TYPE 3	BIAMP
S:101:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:04	70 V	14	TYPE 3	BIAMP
S:101:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:05	70 V	14	TYPE 3	BIAMP
S:102:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:06	70 V	14	TYPE 3	BIAMP
S:103:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:07	70 V	14	TYPE 3	BIAMP
S:104:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:08	70 V	14	TYPE 3	BIAMP
S:104:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:09	70 V	14	TYPE 3	BIAMP
S:104:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"									
S:104:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					4				
S:111:01	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"					LS:110:10	70 V	14	TYPE 2	BIAMP
S:111:02	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"					LS:110:11	70 V	14	TYPE 2	BIAMP
S:111:03	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"					LS:110:12	70 V	14	TYPE 2	BIAMP
S:111:04	70 V	14	TYPE 5	BIAMP	DESONO P30DT	3.75	SUSPENDED	108"					LS:110:13	70 V	14	TYPE 2	BIAMP
S:112:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:14	70 V	14	TYPE 2	BIAMP
S:113:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:15	70 V	14	TYPE 2	BIAMP
S:113:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:16	70 V	14	TYPE 2	BIAMP
S:113:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:17	70 V	14	TYPE 2	BIAMP
S:113:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					LS:110:18	70 V	14	TYPE 2	BIAMP
S:108:01	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					SCHEDUL	ED PARAMETER		DNS:	
S:108:02	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					• PO\	VER DRAW = DE	SIGNED LC	DAD ON C	CIRCUIT W
S:108:03	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					•	FOR LOW IMP	EDANCE: V	ALUES IN	NDICATED
S:108:04	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					•	FOR 70V: VALU			
S:108:05	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						LE AVIG# – ANTIC		IRE GAU	GE REQU
S:108:08	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"					•	MINIMUM ALLO	OWABLE W	IRE GAU	GE:
S:109:06	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						• 70V LOU	DSPEAKER	RS: 16AW	/G
S:109:07	70 V	14	TYPE 1	COMMUNITY	DESONO DX-IC4	3.75	CEILING FLUSH	108"						LOW IMF	P LOUDSPE	EAKERS:	12AWG
													• HEI	• SUBWO	DFERS: 12/	AWG TER OF L	
													• YAV	V = HORIZONTAL		TION IN R	
													• PIT	CH = VERTICAL C	RIENTATI	ON	
													• ROL	L = ROTATIONAL		TION ARC	OUND LOU
													• ROI	L ENCLOSURE 9	$\theta U = START$	ING POS	I ION OF



- 12AWG
- RELATION TO PLAN NORTH
- OUND LOUDSPEAKER AXIS
- TO ORIENT LOUDSPEAKERS: VERIFY "ROLL ENCLOSURE 90" AND "ROTATE HORN 90" PRIOR TO PROCEEDING VIEW LOUDSPEAKERS FROM REAR (FROM PLAN SOUTH VIEWING NORTH) TILT LOUDSPEAKER TO SCHEDULED PITCH ORIENTATION

FINAL ORIENTATION OF LOUDSPEAKERS: SHALL BE AT THE DISCRETION OF THE CONSULTANT DURING COMMISSIONING

	AUDIO-VIDEO LOUDSPEAKER SCHEDULE - AMP1												
LOUDSPEAKE	R PROPERTIES		LOUDSPEAKER MOUN	OR	IENTATIO	NC	ENCLOSU						
		70V TAP						ROLL	ROTATE				
B.O.D. MANUF.	B.O.D. MODEL	(WATTS)	MOUNTING CONDITION	HEIGHT	YAW	PITCH	ROLL	ENCL. 90	HORN 90	NOTES			

DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	
DESONO DX-S8	40	SUSPENDED STRUCTURE	252"	0.00°	-90.00°	0.00°	No	No	

BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	
BIAMP	DESONO DX-S5	7.5	SUSPENDED STRUCTURE	163"	0.00°	-90.00°	0.00°	No	No	

CIRCUIT WITHOUT AMPLIFIER CHANNEL SIZING FACTOR (CONTINUOUS POWER RATING)

IDICATED ARE RMS E MAXIMUM CIRCUIT LOAD

GE REQUIRED FOR MAXIMUM ALLOWABLE LINE LOSS OF [1.0dB]; INSTALLATION FACTORS MAY REQUIRE ADJUSTMENTS BY THE

OUDSPEAKER FACE

ITION OF LOUDSPEAKER IS ROLLED 90 DEGREES N OF HORN IS ROTATED 90 DEGREES IN THE ENCLOSURE

ROTATE LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO THE SCHEDULED YAW ORIENTATION

ROLL LOUDSPEAKER COUNTER CLOCKWISE (POSITIVE DEGREE) OR CLOCKWISE (NEGATIVE DEGREE) TO SCHEDULED ROLL ORIENTATION

CONTRACTOR SHALL PROVIDE MEANS OF ACCESS TO ALL LOUDSPEAKER POSITIONS FOR TESTING, VERIFICATION, REORIENTATION, ETC. MEANS OF ACCESS SHALL INCLUDE MOTORIZED LIFTS, SCAFFOLDING OR OTHER METHOD TO ALLOW FOR SAFE AND TIMELY OBSERVATION AND ADJUSTMENT









TA-201

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# $1 \frac{\text{AUDIO-VIDEO LONGITUDINAL SECTION - FARMERS MARKET}}{1/8" = 1'-0"}$



2 AUDIO-VIDEO CROSS SECTION - FARMERS MARKET 1/8" = 1'-0"



10:07 E 3 AFF. V		LS:110:09 TYPE 3 252" AFF. 40 W LS:110:14		
LS:110:13 TYPE 2 163" AFF. 7.5 W	FP:110:03 FPD-98"/UHD- 72" AFF	V:110:03 FSR PWB-25 72" AFF	A:110:01 FSR WB-X1-PLT 46" AFF A:110:02 0 RACO 260 W/818- 18" AFF	A:110:03 RACO 94 /46" AFF
				· · · · · · · · · · · · · · · · · · ·





BRIAN C. OLLIGES LICENSE # PE-2022017790



	ON DATE				
PROJECT NO:	18225R21006				
STATUS:	PERMIT SET				
DATE:	11/01/2023				
DRAWN BY:	JFR				
CHECKED BY:	JG				
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AUDIO-VIDEO					
SECTION	ONS				
TA-401					



5 AUDIO-VIDEO ELEVATION - EQUIPMENT RACK NTS





INSTALL ALL SAFETY CABLES WHERE APPLICABLE PER INSTRUCTIONS.

3. FOR LOUDSPEAKERS MOUNTED TO WALL SURFACES, CEILINGS, OR

4. FOR LOUDSPEAKERS MOUNTED TO OPEN STRUCTURAL ELEMENTS (E.G. EXPOSED PORTIONS OF EXPO HALL), ALL PATHWAYS SHALL BE ROUTED TIGHT AND PARALLEL TO STRUCTURE.

A FLUSH MOUNT JUNCTION BOX BEHIND THE LOUDSPEAKER.

KEYED NOTES:

- (1) PROVIDE CONDUIT AS SHOWN ON PLANS TO BACK BOX AT LOUDSPEAKER LOCATION. PROVIDE FLUSH BACK BOX MOUNTED ADJACENT TO, AND CONCEALED BY LOUDSPEAKER AND/OR LOUDSPEAKER MOUNT. PROVIDE PULL STRING.
- FOR LOUDSPEAKERS MOUNTED TO WALL SURFACES, CEILINGS, OR COLUMN WRAPS, ALL PATHWAYS SHALL BE ROUTED CONCEALED WITH CONNECTION POINT.

2 SURFACE LOUDSPEAKER CONCEPTUAL MOUNTING DETAIL NTS

v1.00







STRUCTURE



v1.00

![](_page_85_Picture_16.jpeg)

![](_page_85_Figure_17.jpeg)

BRIAN C. OLLIGES LICENSE # PE-2022017790

![](_page_85_Figure_19.jpeg)

	DN DATE				
PROJECT NO:	18225R21006				
STATUS:	PERMIT SET				
DATE:	11/01/2023				
DRAWN BY:	JFR				
CHECKED BY:	JG				
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AUDIO-VIDEO DETAILS					
TA-501					

Writes Mergahoo         Writes Mergahoo         Writes Mergahoo         Fee           Writes Mergahoo         Writes Mergahoo         Hergahoo         Hergahoo           Writes Mergahoo         Writes Mergahoo         Hergahoo         Hergahoo <th></th> <th></th> <th></th> <th></th> <th>II RACK</th> <th>(11 118)</th> <th></th> <th></th>					II RACK	(11 118)		
8         101         0         NS A         L           Shan Lod         PE B         LS         LAN         AN           Mileter Million         8         EP I         0         State DDOID         0           Shan Lod         T-COLITY LAN         Shan DDOID         0         0         0           Mileter Million         T-COLITY LAN         T-COLITY LAN         0         0         0           Mileter Million         T-COLITY LAN         T-COLITY LAN         0         0         0         0           Mileter Million         T-COLITY LAN         T-COLITY LAN         0 <td< th=""><th>Wireless Microphone Antenna</th><th></th><th>W:110:01</th><th></th><th></th><th>Wireless Mic I 2-C⊢</th><th>Receiver - I</th><th>Flex 8</th></td<>	Wireless Microphone Antenna		W:110:01			Wireless Mic I 2-C⊢	Receiver - I	Flex 8
Where Subservices         Will Subservices         Will Subservices         Shure ULGOLD           Will Subservices         Tool Subservices         Gene Subservices         Gene Subservices           Will Subservices         Tool Subservices         Gene Subservices         Gene Subservices           Cost Tool Subservices         Tool Subservices         Gene Subservices         Gene Subservices           Cost Tool Subservices         Gene Subservices         Gene Subservices         Gene Subservices           State Units Part Multible         Tool Subservices         Gene Subservices         Gene Subservices           R Subservices         Gene Subservices         Gene Subservices         Gene Subservices         Gene Subservices           R Subservices         Gene Subservices         GeneSubservices         Gene Subser	RF		<b></b>			RF A	L 1	E
Windtack Account         Windtack         State LLX200           Windtack Account         Windtack         State LLX200           State LLX4         *ACCUTY LAX*         USA           Touchesen Windtack         Windtack         USA           LASEL         Windtack         USA           Windtack         ANA         USA           State Nick         USA         USA           LASEL         USA         U	Shure UA8		L			— RFB — LAN	AN -	 OUTPL
Image: State UAS         FACULTY UAN         Good In           Total Transmission         FACULTY UAN         Use In           Total Transmission         FACULTY UAN         Use In           ULOBL:         CONNECTION TO FREE UARX         Use In           ULOBL:         USE In         Use In           ULOBL:         Connection To FREE UARX         USE In           UNITATION State: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION State: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION State: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION State: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION State: - CONNECTION TO FREE UARX         USE In         USE In           State: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION STATE: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION STATE: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION STATE: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION STATE: - CONNECTION TO FREE UARX         USE In         USE In           UNITATION STATE: - CONNECTION TO FREE UARX         USE In         USE In           UNITAT	Wireless Microphone	]	W:110:03			Shure UL	XD4D	T OR (
Shine UAA     FACILITY LAP     GPD 16       13001     CONNECTION TO HIE ALARY     UBB       LABSE     CONNECTION TO HIE ALARY     GGC 06       UBBACKED D'S South     GGC 06     GGC 06       Stin     AN     GGC 06       Stin     GGC 06     GGC 06       Normal Control     GGC 06     GGC 06       Normal Control </td <td>RF</td> <td></td> <td><b></b></td> <td></td> <td></td> <td></td> <td></td> <td>(INPU</td>	RF		<b></b>					(INPU
1900     *FACILITY LAW     CONNECTION TO THE PLANM     USB       1000     CONNECTION TO THE PLANM     AG       1000     CONNECTION TO THE PLANM     AG       1000     CONNECTION TO THE PLANM     B       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     CONNECTION TO THE PLANM     CONNECTION TO THE PLANM       1000     <	Shure UA8	-						FLEX
UCUNINGEN - M9.5°         UCUNINGENTO TO FIRE ALARM         UUE           0260 19C-00-01         0260 19C-00-02         0260 19C-00-02           Meanward MD Insel 38 m         0260 19C-00-02         0260 19C-00-02           Meanward MD Insel 38 m         0260 19C-00-02         0260 19C-00-02           Meanward MD Insel 38 m         0260 19C-00-02         0260 19C-00-02           St In         0260 19C-00-02         0260 19C-00-02           112 32         0270 19C-00-02         0260 19C-00-02           112 32         0270 19C-00-02         0270 19C-00-02           112 32         0270 19C-00-02         0270 19C-00-02           112 32         0260 19C-00-02         0270 19C-00-02           115 32         0260 19C-00-02         0270 19C-00-02           115 32         0280 19C-00-02         0270 19C-00-02           115 32         0280 19C-00-02         0280 19C-00-02           115 32         0280 1	110.01			"FACILITY LAN"				GPIO 1-8 (
IABE     A0       G8C 750-86-03     Control (Control (Contro (Contro) (Control (Contro) (Control (Control (Control (Control (C	Touchscreen - W5.5"	]	"CONNECT	ION TO FIRE ALARM"				USB Com
CASC TSC-SO-C3         CASC TSC-SO-C3           Macroact MYS food Will Bucket-Seen-201         Control MyS food Control MyS food Will Bucket-Seen-201         Control MyS food Control MyS food Will Bucket-Seen-201           Movered PW-Wild buck Front MyS food Will Bucket-Seen-201         MV F-MARKAT         MV F-MARKAT           Mile Seen-201         MV F-MARKAT <t< td=""><td>LABEL LAN-PoE</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>AB</td></t<>	LABEL LAN-PoE	-						AB
Heaveded MPS Input         Bit metal           WBB00001 SWB02 - 26         Sit metal           Sit metal         Automatic mDBCOT           Automatic mDBCOT         Avenue in mDBCOT           H         USB           Avore PR Wubbate         Avvio           LINE N         IR GUT           Rin Mic Corr         Avvio           VS EXP Encoder         Crucities           UO22         Newschell Brag Staten           UO24         FACILITY LAN*           UO25         FACILITY LAN*           UO26         FACILITY LAN*           UO26         FACILITY LAN*           UO27         Site Mic MDBCOT           UO28         FACILITY LAN*           Webstore Strate         Crucities           UO36         FACILITY LAN*           UU38         Crucities           Newschell Brag Staten         UU38           Reameter Alf29 Input         Weba Affer           UU38         Cont         UU38           Newschell Brag Staten         UU38           Cont         US8         US8           Cont         US8         US8           Cont         US8         US8           Cont         US8 </td <td>QSC TSC-50-G3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>QSC I/O-</td>	QSC TSC-50-G3							QSC I/O-
Willichth-Sarrez-A3 St. AN St. AN S	Networked MP3 Input	]						Ethernet Sv
St         AN           Sth         Sth           Advector         Sth           St         Sth           H         US8           Corn         US8           UNE IN IS GUT         Sth           INS EXIP Encodor         Sth           ID52         Sth           Nebeckid Page Station         Sth           L         L         Grow           GPO         LAN-PCE         Sth           OSC Fig00H         Sth         Sth           Modertur JIPS Neutrice         Sth           Note Atoms         Sth         Sth           St         N         Sth           St         Sth         Sth	W/ Bluetooth - Stereo - 2G							
81m         Altervachu u2900-67           Altervachu u2900-67         AV.           1052         AV. or (P. Walkates Encoder)           11         U.S.           110         D.S.           110         D.S.           110         D.S.           110         D.S.           111         U.S.           112         U.S.           113         St.           114         U.S.           115         St.           116         St.           117         U.S.           118         U.S.           119         U.S.           110	St AN							_
AV over IP Walkelies H USB Com Code	St In							_
11052       Arcon thr Wuldible Ecolor       ArVi         H       USB       USB         Com       USB       USB         Com       USB       USB         Com       USB       USB         UNE IN IRVUIT       UN-RE       USB         VS EMP Encoder       USA-RE       USE         10.62       UAN-RE       USE         UNARCE       USE       FACILITY         USC PS-1600H       FACILITY       ISI         10.62       USA-RE       USE         USB Station       UN-RE       ISI         10.64       USA-RE       USE         VS EMP Encoded       FACILITY LAN"       ISI         USC PS-1600H       FACILITY LAN"       ISI         USA TSC-SALG3       "FACILITY LAN"       UI         VS EMP Encoder       UI       ISI         10.05       AV core IP Waltplate       ISI         IN       USB       USB       ISI         10.05       USB       USB       ISI         10.05       USB       USB       ISI         10.05       USB       USB       ISI         100.05       UAN-RE       USB       ISI     <								 _
MY over PP Weldeloo       AV V         H       USB         Com       USB         LINE IN URE OUT       INSE OUT         R N       LINE OUT         UNA-hole       Com         VS EWP Encoder       Com         11052       INA-hole         VS EWP Encoder       Com         11052       INA-hole         VS EWP Encoder       Com         11062       INA-hole         VS EWP Encoder       FACILITY LAN*         GSC PS-1600H       FACILITY LAN*         TIMO4       SI         TOUCHSCHORE - MS-57       SI         GSC TSC-50-G3       "FACILITY LAN*         W Blackoff- Sinew - 200       SI         SI       AN         SI       AN         SI       AN         SI       AN         SI       AN         SI       AN         Com       USB         Com	110:02							_
H       USB         Com       USB         LINE N       IBOUT         IR N       LINE OUT         LAN-POE       UAN-POE         VS E-WP Encoder       OTL         110:02       Important Station         L       L         OSC PS-1000H       OTL         UAN-POE       OTL         OSC PS-1000H       Important Station         UAN-POE       Important Station         GSC TSC-50-G3       "FACILITY LAN"         INdexolad MP3 Input       Important Station         Midbordiad MP3 Input       Important Station         St       AN         Stin       AN         Stin       AN         USB       AN         Midbordiad InDEIO-BT       Important Station         It 036       AN         Mixenolad Proje Station       Important Station         It 036       AN         It 108       It 108         Networked Proje Station       Important Station         It 100       It 108         Networked Proje Station       Important Station         It 100       It 108         Networked Proje Station       Important Station <t< td=""><td>AV over IP Wallplate Encoder</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	AV over IP Wallplate Encoder							
Com         USB         AV 1           LINE IN         IRK OUT         AV 1           IR N         LINE OUT         IAN POE           V3 E-WP Encoder         IAN POE         IAN POE           10022         IAN POE         IAN POE           IAN POE         IAN POE         IAN POE           IASC TSC-SGAG3         "FACILITY LAN"         IAN           IAN BIN         IAN POE         IAN POE           IASC TSC-SGAG3         "FACILITY LAN"         IAN           IAN BIN         IAN POE         IAN POE           IAN BIN         IAN POE         IAN POE           IAN BIN         IAN POE         IAN           IAN BIN         IAN POE         IAN POE           IAN BIN         IAN POE	H USB							
IR N       LINE OUT         UAN-POE       Image: Constraint of the second of the	Com USB							AV VL
LARPOE								
110.02         Intervorted Page Station         CTL           L         L         C         CTL           GPIO         LAN-POE         CTL         CTL           GSC PS-1600H         FACILITY LAN         SI           Touchscreen - W5.5"         LABEL         FACILITY LAN           GSC TSC-50-G3         "FACILITY LAN"         SI           Networked MP3 Input         UI         With Buddoth - Sitro - 2G         SI           SI         AN         SI         Middle Attention           Atterduch unDBIO-BT         Intel CUT         Intel CUT         Intel CUT           IR N         LINE OUT         ILINE OUT         Intel CUT         Intel CUT           III: N         LINE OUT         Intel CUT         Intel CUT         Intel CUT           III: N         LINE OUT         Intel CUT         Intel CUT         Intel CUT           III: N         LINE OUT         Intel CUT         Intel CUT         Intel CUT         Intel CUT           III: N         LINE OUT         Intel CUT         Intel CUT         Intel CUT         Intel CUT           III: N         LINE OUT         Intel CUT         Intel CUT         Intel CUT         Intel CUT         Intel CUT         Intel CUT <t< td=""><td>LAN-PoE VS E-WP Encoder</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	LAN-PoE VS E-WP Encoder							
110:02       Networkez Page Station       CTL         L       L       CTL         GPIO       LAN-PoE       CTL         QSC PS-1600H       PACILITY LAN*       SI         Touchscreen - W5,5'       LABEL       PER 274'         UABEL       CAL       PER 274'         Metworked MP3 Input       U       With Buildinghows         VB Buildinghows       SI       AN         Stin       Stin       Mode Attention         Stin       Attentech unDBIO-BT       Mode Attention         110:05       VS E-WP Encoder       Mode Attention         110:06       Networked Page Station       C         Line IN ILINE OUT       LAN-PoE       C         VS E-WP Encoder       C       C         110:06       CAN-PoE       C         Networked Page Station       C       C         L       C       C       C         COD       LAN-PoE       C       C         VS E-WP Encoder       C       C       C         COD       LAN-PoE       C       C         QSC PS-1600H       C       C       C								
Networked Page Station         CTL           CPIO         LAN-PoE         CTL           QSC PS-1600H         FACILITY         St           Touchscreen - W5,5"         St         PPR 274           Touchscreen - W5,5"         St         PPR 274           COSC TSC-50-G3         "FACILITY LAN"         U           Networked MP3 input Wi Bleeton - Stereo - 2G         "FACILITY LAN"         U           Networked MP3 input Microsofter unD6IO-BT         Wi Bleeton - Stereo - 2G         U           Networked MP3 input Wi Bleeton - Stereo - 2G         "FACILITY LAN"         U           Networked MP3 input Wi Bleeton - Stereo - 2G         U         U           Networked MP3 input Wi Bleeton - Stereo - 2G         "U         U           Networked MP3 input Wi Bleeton - Stereo - 2G         U         U           St in St in St in Atteroleto unD6IO-BT         Mode Atlentic           110:05         Com         USB         U           Line IN Is R OUT IR IN LINE OUT LAN-POE         I         I           U         CH         C         C           U         CH         C         C           U         C         C         C           U         C         C         C	110:02							
L         L           GPIO         LAN-POE           LAN-POE         CTL           GSC PS-1600H         FACILITY           Touchscreen - W5.5"         SI           LABEL         FACILITY LAN"           OSC TSC-50-G3         "FACILITY LAN"           Withundom - Starco - 2G         SI           SI In         SI In           SI In         SI In           SI In         Middle Atlante           IOL05         Face PW alignate           H         USB           Com         USB           LINE IN IR OUT         LINE OUT           LAN-POE         VS E-WP Encoder           10:05         Com           AN-POE         Com           USB         Com           Com         USB           Com         USB           LINE IN IR OUT         LAN-POE           VS E-WP Encoder         C           U         C           U         C           U         C           U         C           U         C           U         C           USB         C           COC         C	Networked Page Station							
GPI0       DAN-POE       CTL         UAN-POE       FACILITY         100-04       SI         Touchscreen - W5.5"       SI         LABEL       PER 274'         GSC TSC-50-G3       "FACILITY LAN"         Networked MP3 Input       UI         Wit Buckoth - Stereo - 2G       SI         St       AN         St In       AN         Atterotech unD6IO-BT       Middle Attention         100-05       Com         Atterotech unD6IO-BT       Niddle Attention         110:05       Com       USB         Com       USB         LINE IN       IR OUT         IR IN       LAN-POE         VS E-WP Encoder       Com         110:06       Com         Networked Page Station       Com         LAN-POE       CAN-POE         UCAN-POE       CAN-POE         COSC FS-1600H       CosC FS-1600H					1			
OSC PS-1600H         FACILI           110:04         SI           Touchscreen - W5,5"         SI           LABEL         PER 274'           OSC TSC-50-G3         "FACILITY LAN"           OSC TSC-50-G3         "FACILITY LAN"           Withworker MP3 Input         UI           Networked MP3 Input         UI           Mitodie Atlantic         SI           St         AN           St in         AN           Atterotech unD60-48T         Mitodie Atlantic           110:05         Com         USB           Com         USB         LINE IN IR OUT           IR IN LINE OUT         LAN-POE         VS E-WP Encoder           110:06         Networked Page Station         LAN-POE           QSC PS-1600H         QSC PS-1600H         LAN-POE	GPIO LAN-PoE LAN-PoE							CTL VL
110:04       FACILI         Touchscreen - W5.5"       JaBel         LABEL       LAN-POE         OSC TSC-50-G3       "FACILITY LAN"         Networked MP3 Input       U         Middle Atlantic       Middle Atlantic         St       AN         St In       Atlantic         Middle Atlantic       Middle Atlantic         110:05       AV over IP Wallplate         Encoder       I         H       USB         Com       USB         LINE IN       IR OUT         IR IN       LINPOE         VS E-WP Encoder       I         Itio:06       Networked Page Station         L       L         GPIO       LAN-POE         USC PS-1600H       I	QSC PS-1600H							
110:04       Si         Touchscreen - W5.5"       LAREL         LAREL       LAN-PoE         QSC TSC-50-G3       "FACILITY LAN"         Networked MP3 Input       U         Networked MP3 Input       U         VB Bluetooth - Stereo - 2Q       Si         St In       Si         St In       Middle Atlantit         St In       Middle Atlantit         Middle Atlantit       Si         AV over IP Wallplate       Middle Atlantit         Encoder       U         H       USB         LINE IN       IR OUT         IR IN       LINE OUT         LAN-PoE       USE         VS E-WP Encoder       U         110:06       Middle Atlantit	·							FACILITY
LABEL         PER 274           QSC TSC-50-G3         "FACILITY LAN"           Networked MP3 Input         UU           Networked MP3 Input         UU           St         AN           St         AN           St In         St In           Atterotech unD6IO-BT         Middle Atlantic           10.05         Com           AV over IP Wallplate Encoder         Middle Atlantic           III.05         Com           VS E-WP Encoder         Interview           10.06         Networked Page Station           L         L           GPIO         LAN-POE           QSC PS-1600H         US	110:04 Touchscreen - W5.5"	]						SFF
UI       "FACILITY LAN"         Wetworked MP3 Input       UI         W/ Bluetooth - Stereo - 2G	LABEL LAN-PoE							PER 27410
Networked MP3 Input         W/ Buetooth - Stereo - 2G         St       AN         St In	QSC TSC-50-G3			"FACILITY LAN"				
Networked Page Station           L           GPIO           LAN-PoE           UAN-PoE								UPS
St         AN           St In	W/ Bluetooth - Stereo - 2G							
St In   Atterotech unD6IO-BT     110:05     AV over IP Wallplate   Encoder     H   USB   LINE IN   IR OUT   IR IN   LINE OUT   LAN-POE   VS E-WP Encoder     110:06   Networked Page Station   L   L   QSC PS-1600H	St AN St In							Middle Atlantic L
Atterotech di Doro-BT       110:05       AV over IP Wallplate Encoder       H     USB       Com     USB       LINE IN     IR OUT       IR N     LINE OUT       LAN-POE       VS E-WP Encoder	St In							
110:05 AV over IP Wallplate Encoder H USB Com USB LINE IN IR OUT IR IN LINE OUT LAN-POE VS E-WP Encoder 110:06 Networked Page Station L L GPIO LAN-POE LAN-POE QSC PS-1600H								
AV over IP Wallplate         Encoder         H       USB         Com       USB         LINE IN       IR OUT         IR IN       LINE OUT         LAN-POE         VS E-WP Encoder	110:05							
H USB Com USB LINE IN IR OUT IR IN LINE OUT LAN-POE VS E-WP Encoder 110:06 Networked Page Station L L GPIO LAN-POE LAN-POE QSC PS-1600H	AV over IP Wallplate Encoder							
Com USB LINE IN IR OUT IR IN LINE OUT LAN-POE VS E-WP Encoder 110:06 Networked Page Station L L GPIO LAN-POE LAN-POE QSC PS-1600H	H USB							
IR IN LINE OUT LAN-POE VS E-WP Encoder	Com USB				1			
LAN-PoE         VS E-WP Encoder         110:06         Networked Page Station         L       L         GPIO       LAN-PoE         LAN-PoE         QSC PS-1600H								
110:06 Networked Page Station L L GPIO LAN-PoE LAN-PoE QSC PS-1600H	LAN-PoE VS E-WP Encoder							
110:06         Networked Page Station         L         GPIO       LAN-PoE         LAN-PoE         QSC PS-1600H								
Networked Page Station         L       L         GPIO       LAN-PoE         LAN-PoE         QSC PS-1600H	110:06				T 			
L L GPIO LAN-PoE LAN-PoE QSC PS-1600H	Networked Page Station							
GPIO     LAIN-POE       LAN-PoE       QSC PS-1600H								
QSC PS-1600H	GPIU LAN-PoE							
	QSC PS-1600H							
	L L GPIO LAN-PoE LAN-PoE QSC PS-1600H							

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![](_page_86_Figure_3.jpeg)

![](_page_86_Picture_4.jpeg)

![](_page_86_Figure_5.jpeg)

BRIAN C. OLLIGES

LICENSE # PE-2022017790

![](_page_86_Figure_6.jpeg)

![](_page_86_Picture_7.jpeg)

NDARD MOUNTING HEIGHTS	PATHWAYS		ROUGH-I	N OUTL	ETS			
COM BACKBOARD (BOTTOM OF BACKBOARD)4"DER RACK IN TELECOM ROOMS (BOTTOM OF DEVICE)90"LE TRAX (CONDULT AFC (BOTTOM OF DATH)/MAX)2"(MIN)	WIRE MESH CABLE TRAY W"xH (W"=WIDTH, "H"=HEIGHT)				ROL	JGH-IN	ONLY SCHEE	
T FIXTURE IN TELECOM ROOMS (BOTTOM OF DEVICE) 108"(MIN) PHONE WALL OUTLET (CENTERLINE) 48"	VERTICAL CABLE TRAY		R DAS CEL ROL	LULAR D	AS, WALL	BOX	2-GANG BACK 2" GROMM	ACKBOX WITH (1) 2" PVC IET
VISION OUTLET SAME AS ADJACENT DEVICE, UNO VISION OUTLET REFER TO ARCH DRAWINGS B/TGB (CENTERLINE) 84"	(#) D" ("#"=QUANTITY, "D"=CONDUIT DIAMETER)							
CLOCK (CENTERLINE)84"COM (CENTERLINE)48"	(#) D" ("#"=QUANTITY, "D"=CONDUIT DIAMETER)							
IE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE RUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE	CABLE SUPPORTS OR J-HOOKS							
IED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO BOTTOM OF ET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH ENT ADA AND LOCAL REQUIREMENTS.	(#) D" ("#"=QUANTITY, "D"=CONDUIT DIAMETER)							
EVIATIONS	PB L"XW"XH" PULL BOX							
MPERES     LAN     LOCAL AREA NETWORK       MERICANS WITH     LCC     LIMITED COMBUSTIBLE CABLE	("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT) SC SPLICE							
ABOVE FINISHED CEILING LED LIGHT-EMITTING DIODE ABOVE FINISHED FLOOR LF LINEAR FEET								
ABOVE FINISHED GRADE   MAN METROPOLITAN AREA AUTHORITY HAVING NETWORK JURISDICTION MATV MASTER ANTENNA								
AMERICAN NATIONAL TELEVISION STANDARDS INSTITUTE MC MAIN CROSS-CONNECT ACCESS POINT MDE MAIN DISTRIBUTION FRAME								
AUDIO-VIDEO MFR MANUFACTURER AMERICAN WIRE GAUGE MH MAINTENANCE HOLE	P 110-TYPE PROTECTOR BLOCK							
BUILDING AUTOMATION     MM     MULTIMODE       SYSTEM     MPOE     MAIN POINT OF ENTRANCE       BACKBONE BONDING     MPOP     MAIN POINT OF PRESENCE	PATCH PANEL PATCH PANEL							
CONDUCTOR MTD MOUNTED BUILDING DISTRIBUTOR N/A NOT APPLICABLE BUILDING DISTRIBUTION NEC NATIONAL ELECTRICAL CODE	SBB SECONDARY BONDING BUSBAR (SBB)							
FRAME NFPA NATIONAL ELECTRICAL CODE BELOW FINISHED CEILING ASSOCIATION	PBB PRIMARY BONDING BUSBAR (PBB)							
CONDULTNICNOT IN CONTRACTCATEGORYnmNANOMETERCOMMUNITY ANTENNANRTLNATIONALLY RECOGNIZED								
TELEVISION TESTING LAB CLOSED CIRCUIT OC ON CENTER TELEVISION OSHA OCCURATIONAL SAFETY AND	TELECOMMUNICATIONS ROOM							
CAMPUS DISTRIBUTOR COMMUNICATIONS PLENUM COMMUNICATIONS PLENUM COMUNICATIONS PLENUM COMMUNICATIONS PLENUM COMUNICATIONS PLENUM COMUNICATIONS PLENUM COMUNI	LADDER RACK							
JACKET PBB PRIMARY BONDING BUSBAR COMMUNICATIONS RISER PBX PRIVATE BRANCH EXCHANGE JACKET POE POWER OVER ETHERNET	PRIMARY BONDING BUSBAR (PBB) - WALL ELEVATION							
DISTRIBUTED ANTENNA PON PASSIVE OPTICAL NETWORK SYSTEM POTS PLAIN OLD TELEPHONE DECIBELS SERVICE	SBB SECONDARY BONDING BUSBAR (SBB) - WALL							
DEMOLITION PSTN PUBLIC SWITCHED EXISTING TELEPHONE NETWORK								
LECTRICAL CONTRACTOR QTY QUANTITY LECTRONIC COMPONENTS RCDD REGISTERED NDUSTRY ASSOCIATION COMMUNICATIONS								
ELECTROMAGNETIC DISTRIBUTION DESIGNER INTERFERENCE RMC RIGID METAL CONDUIT ENERGY MANAGEMENT RU RACK UNIT								
SYSTEM SBB SECONDARY BONDING ELECTRICAL METALLIC BUSBAR	TWO-POST EQUIPMENT RACK							
EQUIPMENT ROOM SYSTEM EXISTING TO REMAIN SF SQUARE FEET	FOUR-POST EQUIPMENT RACK							
FIRE ALARM ANNUNCIATOR     SM     SINGLEMODE       PANEL     SPECS SPECIFICATIONS       FIRE ALARM CONTROL     TBB     TELECOMMUNICATIONS								
PANEL BONDING BACKBONE FLOOR DISTRIBUTOR TBD TO BE DETERMINED	ENLARGED PLANS FOR MORE INFORMATION)							
FLEXIBLE METAL CONDULTTIATELECOMMUNICATIONSFIRE STOP SYSTEMINDUSTRY ASSOCIATIONFLOORTRTELECOMMUNICATIONS ROOM								
SCREEN TWISTED PAIRTYPTYPICAL(SHIELDED)UNOUNLESS NOTED OTHERWISEGENERAL CONTRACTORUIUNDERWRITER								
GYPSUM BOARD       LABORATORIES, INC.         HORIZONTAL CROSS-       UPS         UPS       UNINTERRUPTIBLE POWER         SUPPLY       SUPPLY	TELECOMMUNICATIONS OUTLETS		Furnie	hod	lr.	netallo	d	
HORIZONTAL CABLE     U/UTP     UNSHIELDED TWISTED PAIR       MANAGER     V     VOLT(S)	CABLE(S)       SYMBOL     DESCRIPTION       A     B       C     DETAIL					istanc		
AND HOLE VCM VERTICAL CABLE MANAGER ERTZ W WIRE ITERMEDIATE METAL WAN WIDE AREA NETWORK	$\bigvee$ 1VANALOG/VOICE WALL OUTLET100NA $\bigvee$ W,1VTELEPHONE, ANALOG WALL OUTLET100NA		R Bid	ĸ	gid	R	ĸ	
CONDUIT     WAO     WORK AREA OUTLET       NTERNET PROTOCOL     WAP     WIRELESS ACCESS POINT	$\nabla$ W,1DTELEPHONE, VoIP WALL OUTLET0103/TN501	Description	Int of B	ENDO	irt of B	WNE	ENDO	Comments
VRENTER VERTHER RESISTANT VSIDE PLANT CABLE WT WATHER RESISTANT	$\bigtriangledown$ 1DDATA WALL OUTLET0101/TN501 $\bigtriangledown$ 10DATA WALL OUTLET0201/TN501		e O	>	Ъ,	0	>	
JUNCTION BOX XP EXPLOSION-PROOF JUNCTION BOX	$- \bigtriangledown 2D$ DATA WALL COTLET 0 2 0 1/TN501 $- \bigtriangledown 2D, WAP$ DATA WALL OUTLET 0 2 0 1/TN501							
	□         □	Telecom Room Buildout						
TECHNOLOGY PLAN CALLOUT	$\bigtriangledown$ 2D,INTDATA WALL OUTLET0201/TN501 $\square$ 2	Packa Patch papela Cable management					1	
EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)		Patch cables and fiber cords						PTI
CONNECTION POINT OF NEW WORK TO EXISTING	$\frac{1}{\sqrt{4D}}  DATA WALL OUTLET, ABOVE COUNTER 4 0 0 1/TN501$	Network equipment (switches, routers, gateways, etc.)						ITS
NUMBER. LOWER NUMBER INDICATES SHEET NUMBER	SMF     SINGLE MODE FIBER, WALL OUTLET     0     0     0	Entrance Protection for exterior cables Uninterruptible power supplies and power strips	$\langle \gamma \gamma \rangle$			$\sim$		ITS
SECTION CUT DESIGNATION	$ \bigcirc 1D \qquad \text{SYSTEMS FURNITURE DATA OUTLET} \qquad 1 \qquad 0 \qquad 0 \qquad \text{NA} $	Structured Cabling and Network Devices Power and rough-in requirements	(m	m	uu	w		
DEDICATED EQUIPMENT ACCESS TILE	Image: Second	Structured Cabling (faceplates, patch panels, Category 6A cables, fiber backbone)						
ACCESS PANEL	Image: Ward with the service of th	cabinets, etc.) Station cables						ITS
	AND POWER OUTLETS, REFER TO SPECS FOR FLOOR BOX TYPE	IT&S Wireless Data Networks Power and rough-in requirements						
HOUT THE DRAWINGS DIFFERENT LINE-TYPES ARE USED IN	4D, TYPE "X"     MULTI-SERVICE FLOOR BOX WITH DATA     4     0     0     NA       TYPE "X"     AND POWER OUTLETS, REFER TO SPECS FOR FLOOR BOX TYPE     0     0     NA	Structured Cabling (faceplates, patch panels, Category 6A cables, patch cords) Wireless survey after doors and ceilings are installed						ITS
IATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS	6D, TYPE "X" AND POWER OUTLETS, REFER TO	Relocating cables and installing access points following wireless survey           Wireless Access Points, mounting accessories	<u>}</u>	$\sim$		$\sim$	3	ITS
G, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK	BD,       MULTI-SERVICE FLOOR BOX WITH DATA       8       0       0       NA         TYPE INT       AND POWER OUTLETS. REFER TO       0       0       NA	Network equipment (switches, wireless controller, etc.)     Z       Distributed Antenna System (DAS)	1 2	in		m	<u>}</u>	ITS
REAL AND ALL AND AND ALL AND A		Rough-in requirements for wall mounted antenna						
AND AN ANT ANT ANT ANT ANT ANT ANT ANT ANT	2D,     MULTI-SERVICE POKE THROUGH WITH     2     0     0     NA	Low voltage cables and associated pathways	I					
NG, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK R ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. ATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW CH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED LY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS MINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. JCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE CAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE SCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON	2D, TYPE "X"       MULTI-SERVICE POKE THROUGH WITH 2 0 0 NA         O TYPE "X"       DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE         MULTI-SERVICE POKE THROUGH WITH 4 0 0 NA	Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers						
AG, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK TIEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. ATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED LY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS MINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. CH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE AL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE CRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON VICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.	Image: Specs for floor box type       MULTI-SERVICE POKE THROUGH WITH       2       0       0       NA         Image: Specs for floor box type       DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       0       0       NA         Image: Specs for floor box type       MULTI-SERVICE POKE THROUGH WITH       4       0       0       NA         Image: Specs for floor box type       MULTI-SERVICE POKE THROUGH WITH       4       0       0       NA         Image: Specs for floor box type       MULTI-SERVICE POKE THROUGH TYPE       MULTI-SERVICE POKE THROUGH TYPE       0       NA	Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers         OSP cabling         Fiber ontic pathways, Bough in conduits, membelos, headholes, Coordination with IOD						
AG, TO BE DEMIOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK R ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. ATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW CH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED LY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS WINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. CH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE AL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE CRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON VICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC. 3	Image: Product of the second secon	Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers         OSP cabling         Fiber optic pathways, Rough-in conduits, manholes, handholes, Coordination with ISP Provider.         Fiber Optic cables from City hall						
NG, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK         R ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.         ATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW         CH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED         LY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS         MINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES.         ICH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE         AL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE         ICRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON         VICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.         G	Image: Product of the system of the syste	Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers         OSP cabling         Fiber optic pathways, Rough-in conduits, manholes, handholes, Coordination with ISP Provider.         Fiber Optic cables from City hall         Fiber Optic Cable from ISP Provider         Notes; Filled black cell on table mean scope in that row is to be						By ISP Provider
G, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF THE NEW WORK         ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.         ATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW         H THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED         AY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS         MINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES.         CH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE         AL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE         CRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON         VICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.         G         MEW         FUTURE         TYPES         TEGORY 6 CABLE	Image: Specs for floor box type       Image: Specs for floor box type         Image: Specs for floor box type "X"       MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       2       0       0       NA         Image: Specs for poke through type "X"       MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       4       0       0       NA         Image: Specs for poke through type "X"       MULTI-SERVICE POKE THROUGH TYPE       0       0       NA         Image: Specs for poke through type "X"       MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       0       0       NA         Image: Spece for poke through type "X"       MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       0       0       NA         Image: Spece for poke through type "X"       DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       0       0       NA         Image: Spece for poke through type "X"       DATA AND POWER OUTLETS, REFER TO SPECS FOR POKE THROUGH TYPE       0       1       0       NA         Image: Spece for poke through type       0       1       0       NA       0       0       NA         Image: Spece for poke through type       0       1       0       NA       0       0       0 <td>Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers         OSP cabling         Fiber optic pathways, Rough-in conduits, manholes, handholes, Coordination with ISP Provider.         Fiber Optic cables from City hall         Fiber Optic Cable from ISP Provider         Notes: Filled black cell on table mean scope in that row is to be completed by entity indicated on column header.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>By ISP Provider</td>	Low voltage cables and associated pathways         Wall mounted antennas and support stands         Active equipment for all cellular carriers         OSP cabling         Fiber optic pathways, Rough-in conduits, manholes, handholes, Coordination with ISP Provider.         Fiber Optic cables from City hall         Fiber Optic Cable from ISP Provider         Notes: Filled black cell on table mean scope in that row is to be completed by entity indicated on column header.						By ISP Provider

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# RAL NEW WORK NOTES

READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS.

ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS; SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION THROUGH THE RFI PROCESS.

FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES

ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE FELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.

ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED WITH THE APPROVED FIRE STOP SYSTEMS (F/S). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.

BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS.

ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.

TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)

ILOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS FOR WIRELESS ACCESS POINTS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO BE USED TO ESTIMATE COST OF INSTALLATION OF SYSTEM. PER SPECIFICATION SECTION 272233 WIRELESS NETWORK EQUIPMENT, CONTRACTOR SHALL PERFORM SIGNAL TEST ONCE BUILDING IS ENCLOSED AND IN 'CLEAN' STATE TO DETERMINE EXACT PLACEMENT OF DEVICES. LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS FOR DISTRIBUTED ANTENNA

SYSTEMS ARE DIAGRAMMATIC IN NATURE AND INTENDED TO BE USED TO ESTIMATE COST OF INSTALLATION OF SYSTEM. PER SPECIFICATION SECTION 275319 DISTRIBUTED ANTENNA SYSTEM, CONTRACTOR SHALL PERFORM SIGNAL TEST ONCE BUILDING IS ENCLOSED AND IN CLEAN' STATE TO DETERMINE EXACT PLACEMENT OF DEVICES. RAL DEMOLITION NOTES

PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY, INCLUDING PATHWAY LOCATIONS AND ELEVATIONS. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS, INCLUDING ALL DEMOLITION AND NEW WORK DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES.

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO OWNER. REMOVE ALL PATHWAYS, CABLING AND ASSOCIATED DEVICES FOR ALL ITEMS INTENDED TO BE REMOVED. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.

REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE THE GENERAL DEMOLITION SCOPE. ANY SYSTEMS PASSING THROUGH THE SPACE INTENDED TO REMAIN IN SERVICE SHALL BE PROTECTED, OR RELOCATED AS REQUIRED TO MAINTAIN SERVICE AND ACCOMMODATE THE GENERAL DEMOLITION AND NEW SCOPE OF WORK.

REFER TO ARCHITECTURAL PLANS FOR SCOPE OF AREAS THAT ARE TO BE DEMOLISHED UNDER THIS PHASE OF CONSTRUCTION. NOTE THAT IN SOME CASES, MEPFT DEMOLITION WORK EXTENDS BEYOND SCOPE OF AREA IDENTIFIED DUE TO EXISTING SYSTEM DESIGN. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO STARTING WORK.

COORDINATE THE INTERMEDIATE STORAGE, REMOVAL AND FINAL DISPOSITION OF ELECOMMUNICATIONS SCS COMPONENTS (PATHWAYS, CABLE, TERMINATION COMPONENTS, ETC.) AND THE REQUIRED PROTECTION OF EXISTING SPECIAL SYSTEMS EQUIPMENT WITH OWNER PRIOR TO IMPLEMENTATION THAT ARE TO BE REMOVED AS A RESULT OF THE DEMOLITION / RENOVATION WORK.

EXISTING TELECOMMUNICATIONS CABLES AND COMPONENTS THAT PASS THROUGH THE CONSTRUCTION ZONE SHALL BE PROTECTED AND REMAIN IN PLACE SO AS TO MAINTAIN SERVICE WHILE ALSO ACCOMMODATING THE GENERAL DEMOLITION AND NEW SCOPE OF WORK. CONTRACTOR SHALL COORDINATE ALL SUCH EFFORTS WITH THE CLIENT PRIOR TO IMPLEMENTATION. DAMAGE TO EXISTING AND TO REMAIN IN PLACE TELECOMMUNICATIONS CABLES AND COMPONENTS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IN A TIMELY MANNER AND TO THE WRITTEN SATISFACTION OF THE CLIENT AND AT NO ADDITIONAL COST TO THE CLIENT. CONTRACTOR SHALL PROVIDE CABLE SUPPORTS FOR ANY EXISTING CABLES THAT ARE NOT PROPERLY SUPPORTED.

WAY COMMUNICATIONS GENERAL NOTES AND LEGEND

TWO-WAY COMMUNICATION SYSTEM SHALL PROVIDE COMMUNICATION AT EACH LOCATION AND A CENTRAL CONTROL POINT LOCATION APPROVED BY THE FIRE DEPARTMENT. WHERE THE CENTRAL CONTROL POINT IS NOT A CONSTANTLY ATTENDED LOCATION, THE TWO-WAY COMMUNICATION SYSTEM SHALL HAVE A TIMED AUTOMATIC TELEPHONE DIAL-OUT CAPABILITY TO A MONITORING LOCATION OR 9-1-1. (PER IBC 1009.8.1)

DIRECTIONS FOR USE OF THE TWO-WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM. SIGNAGE SHALL COMPLY WITH THE ICC A117.1 REQUIRMENTS FOR VISUAL CHARACTERS. (PER IBC 1009.8.2)

THE TWO-WAY COMMUNICATION SHALL BE HANDS-FREE DEVICE AND SHALL PROVIDE BOTH AUDIBLE AND VISIBLE SIGNALS TO INDICATE COMMUNICATION HAS OCCURRED, AND INDICATE TO THE RECIEVER THE LOCATION SENDING THE SIGNAL. (PER IBC 1009.8.1 AND NFPA 72, 24.10.7)

TWO-WAY COMMUNICATION DEVICE. PROVIDE CABLE FROM CALL BOX TO COMMAND CENTER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION.

# CHING LEGEND

I SCOPE (NIS)

![](_page_87_Picture_31.jpeg)

# Sheet List - Technology

Sheet Number	Sheet Name	Sheet Order
TN000	TECHNOLOGY GENERAL NOTES AND LEGEND	
TN001	TECHNOLOGY SITE PLAN	
TN101	TECHNOLOGY PLAN	
TN201	TECHNOLOGY - MDF ROOM ENLARGED PLAN AND ELEVATION	
TN401	TECHNOLOGY RISER DIAGRAM	
TN501	TECHNOLOGY DETAILS - 1	
TN502	TECHNOLOGY DETAILS - 2	
TN503	TECHNOLOGY DETAILS - 3	
Grand total: 8		

![](_page_87_Picture_34.jpeg)

![](_page_87_Figure_35.jpeg)

![](_page_87_Picture_36.jpeg)

![](_page_87_Figure_37.jpeg)

![](_page_87_Picture_38.jpeg)

![](_page_88_Figure_3.jpeg)

# **TECHNOLOGY PLAN NOTES:**

- T1 FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH VENDOR.
- T2 FOR SECURITY CAMERA. COORDINATE EXACT LOCATION WITH SECURITY SYSTEM VENDOR.
- WITH SECURITY SYSTEM VENDOR. T12 PROVIDE 4X'4X'4' COMMUNICATION MAINTENANCE HOLE FOR
- ISP ENTRY CABLING AS PER DETAIL 1 ON SHEET TN503.FOR SPECIFICATION REFER TO DIV 27 SECTION 270543.
- T13 PROVIDE 2X'2X'2' COMMUNICATION HAND HOLE FOR FIBER CONNECTION WITH CITY HALL AND EXTERIOR WAP AND CAMERAS DATA CABLING AS PER DETAIL 3 ON SHEET TN503.FOR SPECIFICATION REFER TO DIV 27 SECTION 270543.
- T14 RUN DATA CABLES FOR WAP AND CAMERAS TO THE IDF THROUGH THE NEAREST HANDHOLE / MAINTENANCE HOLE. PROVIDE MIN (1) 1" CONDUIT FOR (2) DATA CABLES AND 1-1/4" CONDUIT FOR (4) DATA CABLÉS.
- T15 COORDINATE FINAL LOCATION OF HANDHOLE AND ROUTING OF FIBER CABLE CONNECTED TO THE CITY HALL WITH OWNER (ITS).
- T16 (1) 24 STRANDS SINGLE MODE FIBER CABLE FOR CONNECTION WITH CITY HALL , (1) 4" CONDUIT FOR DATA CABLES SERVING WAP AND CAMERAS AND (1) 4" SPARE CONDUIT.
- T17 COORDINATE FINAL ROUTING OF (3)4" CONDUITS FOR ISP FIBER CABLES WITH ISP PROVIDER. T18 FOR OSP UNDERGROUND CONDUIT INSTALLATION REFER
- TO DETAIL 2 ON SHEET TN503. T26 SEAL ALL TELECOM PATHWAY PENETRATIONS OF CEILING AND WALLS, BOTH BELOW AND ABOVE CEILING, AIRTIGHT. COORDINATE WITH OTHER TRADES TO ENSURE ALL
- DETAIL 1 & 3 ON SHEET TN502. T27 SPACE RESERVED FOR FUTURE DAS SYSTEM. PROVIDE PULL BOX FOR 2" CONDUITS FOR DAS ANTENNAS SHOWN
- ON PLAN TN001. T28 PROVIDE 2" CONDUIT FOR FUTURE DAS ANTENNA FROM PULL BOX AT MECH/ELEC ROOM # 109.
- T29 LIMIT OF MDF ROOM. T30 LOCATION OF DEMARCATION POINT IN MECH/ELEC ROOM
- 109... T31 PROVIDE 2X'2X'2' COMMUNICATION HAND HOLE FOR EXTERIOR WAP AND CAMERAS DATA CABLING AS PER DETAIL 3 ON SHEET TN503.FOR SPECIFICATION REFER TO DIV 27 SECTION 270543.
- T32 PROVIDE PULL BOX AT HIGH LEVEL. REFER TO DETAIL 6 ON SHEET TN502. CONDUIT PATH SHOULD NOT EXCEED 285 FEET.
- T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER DETAIL 6 ON SHEET TN501. T35 FOR CAMERA MOUNTED ON CANOPY. COORDINATE EXACT LOCATION WITH CANOPY DESIGN DRAWINGS.
- T36 ROUTE CONDUIT PARALLEL TO CANOPY STRUCTURAL ELEMENT. CONDUIT T0 STUB IN IT 118 ROOM munumun

KEYPLAN

PLAN NORTH

T3 FOR SECURITY INTERCOM. COORDINATE EXACT LOCATION PENETRATIONS OF WALLS AND CEILINGS ARE SEALED. SEE

![](_page_88_Picture_24.jpeg)

FIGURE FILLER SON FILLER SON FILLER SON PARKWAY, SUITE 210 PLANO, TX 75024 TEL 972.386.6888 FAX 972.386.6887	WWW.HENDERSONENGINEERS.COM 2450003007	MO. CORPORATE NO: E-556D EXPIRES 10/31/2024
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![](_page_88_Picture_26.jpeg)

![](_page_88_Figure_27.jpeg)

1	Addendum 1	12/22/23			
$\wedge$	DESCRIPTION	DATE			
PROJEC	CT NO:	18225R21006			
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TECHNOLOGY SITE					

TN001

# FILE PATH:

![](_page_89_Figure_3.jpeg)

# **TECHNOLOGY PLAN NOTES:**

- T1 FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH VENDOR.
- T2 FOR SECURITY CAMERA. COORDINATE EXACT LOCATION WITH SECURITY SYSTEM VENDOR. T5 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C
- 3/4" PLYWOOD BACKBOARD FIRE RATED STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS SPECS FOR FURTHER DETAILS.
- T8 PROVIDE TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB) MOUNTED AT 7'-0" AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS, DETAIL 4 ON SHEET TN502 AND GROUNDING AND BONDING
- T9 SPACE RESERVED FOR ACCESS CONTROL EQUIPMENT. COORDINATE OUTLET LOCATION WITH SECURITY EQUIPMENT PRIOR TO ROUGH-IN. SEE TY-SERIES SHEETS FOR FURTHER DETAILS.
- T10 PROVIDE WALL MOUNTED PIVOT CABINET TO SERVE PLAZA AREA DATA OUTLETS . FOR SPECIFICATION REFER TO SECTION 271100. T11 SPACE RESERVED FOR EQUIPMENT BY INTERNET SERVICE
- PROVIDER. T19 (1)4",(1) 3" AND (1) 2" EMT CONDUITS RUN ABOVE FALSE CEILING . REFER TO TELECOMMUNICATIONS BACKBONE
- DIAGRAM ON SHEET TN401. COORDINATE WITH OTHER SERVICES. T27 SPACE RESERVED FOR FUTURE DAS SYSTEM. PROVIDE PULL BOX FOR 2" CONDUITS FOR DAS ANTENNAS SHOWN
- ON PLAN TN001. T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER DETAIL 6 ON SHEET TN501.
- T34 FOR CEILING COMMUNICATION OUTLET INSTALLATION REFER TO DETAIL 4 & 8 ON SHEET TN501.

RISER DIAGRAM ON SHEET TN401 FOR FURTHER DETAILS.

![](_page_89_Picture_22.jpeg)

![](_page_89_Picture_23.jpeg)

![](_page_89_Picture_24.jpeg)

![](_page_89_Figure_25.jpeg)

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TECHNOLOGY PLAN						
TN101						

Device - Ceiling - Data: 2D, WAP	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,CAMERA	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Ceiling - Data: 2D, CAM	IDF	0	2
Device - Ceiling - Data: 2D, CAM	IDF	0	2
Device - Wall - Data: 2D,INT	IDF	0	2
Device - Wall - Data: 2D,CAM	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D,WAP	IDF	0	2
Device - Wall - Data: 2D	IDF	0	2
IDF: 21		0	42
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Ceiling - Data: 2D, WAP	MDF	0	2
Device - Wall - Data: 2D	MDF	0	2
Device - Wall - Data: 2D	MDF	0	2
Device - Wall - Data: 2D,WAP	MDF	0	2
Device - Wall - Data: 2D,WAP	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Wall - Data: 2D.CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Wall - Data: 2D INT	MDF	0	2
Device - Wall - Data: 4D	MDF	0	4
Device - Wall - Data: 2D	MDF	0	2
Device - Ceiling - Data: 2D CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
Device - Ceiling - Data: 2D, CAM	MDF	0	2
MDE: 25			
		Ŭ V	لمربته للم
			/1\

Data Device Schedule

TELECOMMUNICATIONS ZONE NUMBER OF CABLE A NUMBER OF CABLE B

# 2 TECHNOLOGY - MDF ROOM ENLARGED PLAN 1/4" = 1'-0"

Family and Type

![](_page_90_Figure_5.jpeg)

S

![](_page_90_Figure_6.jpeg)

![](_page_90_Figure_7.jpeg)

![](_page_90_Figure_8.jpeg)

![](_page_90_Figure_9.jpeg)

- **<u>TECHNOLOGY PLAN NOTES:</u>** T5 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C
- 3/4" PLYWOOD BACKBOARD FIRE RATED STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS
- SPECS FOR FURTHER DETAILS. T8 PROVIDE TELECOMMUNICATIONS SECONDARY BONDING BUSBAR (SBB) MOUNTED AT 7'-0" AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS, DETAIL 4 ON SHEET TN502 AND GROUNDING AND BONDING RISER DIAGRAM ON SHEET TN401 FOR FURTHER DETAILS.
- T9 SPACE RESERVED FOR ACCESS CONTROL EQUIPMENT. COORDINATE OUTLET LOCATION WITH SECURITY EQUIPMENT PRIOR TO ROUGH-IN. SEE TY-SERIES SHEETS FOR FURTHER DETAILS.
- T19 (1)4",(1) 3" AND (1) 2" EMT CONDUITS RUN ABOVE FALSE CEILING . REFER TO TELECOMMUNICATIONS BACKBONE DIAGRAM ON SHEET TN401. COORDINATE WITH OTHER SERVICES.
- T20 SLIDING RACK MOUNTED ENCLOSURE FOR FIBER CABLE ORGANIZING TO CROSSCONECT BETWEEN BACKBONE CABLE AND ACTIVE EQUIPMENT. REFER TO SECTION 271100 AND DETAIL 2 ON SHEET TN502.
- T21 2RU 48 PORT PATCH PANEL. REFER TO SECTION 271100 AND DETAIL 5 ON SHEET TN501.. T22 2RU HORIZONTAL CABLE MANAGER BETWEEN PATCH PANEL
- AND ACTIVE EQUIPMENT. T23 PROVIDE 18" WIDE HORIZONTAL LADDER RACK WITH 9" RUNG SPACING. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS AND DETAIL 7 ON SHEET TN502 FOR FURTHER DETAILS.
- T24 PROVIDE 18" WIDE LADDER VERTICAL RACK WITH 9" RUNG SPACING. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR FURTHER DETAILS. T26 SEAL ALL TELECOM PATHWAY PENETRATIONS OF CEILING AND WALLS, BOTH BELOW AND ABOVE CEILING, AIRTIGHT.
- COORDINATE WITH OTHER TRADES TO ENSURE ALL PENETRATIONS OF WALLS AND CEILINGS ARE SEALED. SEE DETAIL 1 & 3 ON SHEET TN502. T33 PROVIDE LABELING FOR STRUCTURED CABLING AS PER DETAIL 6 ON SHEET TN501.

![](_page_90_Picture_21.jpeg)

PLAN NORTH

![](_page_90_Picture_30.jpeg)

![](_page_90_Picture_31.jpeg)

![](_page_90_Picture_32.jpeg)

![](_page_90_Figure_33.jpeg)

1 Addendum 1	12/22/23		
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TECHNOL	DGY -		
MDF RO	OM		
ENLARGED	PLAN		
AND ELEVA	ATION		
TN201			

![](_page_91_Figure_0.jpeg)

PATH: Autodesk Docs://18225R21006 LeesSummitMarket/LSMO-MEPF

![](_page_91_Figure_3.jpeg)

![](_page_91_Figure_4.jpeg)

![](_page_91_Picture_6.jpeg)

\_\_\_\_

![](_page_91_Figure_7.jpeg)

\_\_\_\_\_

![](_page_91_Picture_8.jpeg)

![](_page_91_Figure_9.jpeg)

![](_page_91_Picture_10.jpeg)

![](_page_92_Figure_3.jpeg)

![](_page_92_Figure_4.jpeg)

SINGLE GANG COMM OUTLET FOR DISPLAY
 NTS

PROVIDE MODULE AND TYPE INDICATED IN

LABEL OR SCHEDULE.

FOR COMMUNICATIONS

OUTLETS WITH 4 OR LESS

JACKS/MODULES

PROVIDE CONDUIT

TO ACCESSIBLE CEILING SPACE

PROVIDE DUAL

GANG BACK BOX

PROVIDE SINGLE

GANG TRIM RING

- LABEL CABLE

FILL REMAINING PORTS WITH

BLANKS

![](_page_92_Picture_6.jpeg)

2 DUAL GANG COMM OUTLET NTS

![](_page_92_Figure_7.jpeg)

![](_page_92_Picture_11.jpeg)

![](_page_92_Picture_12.jpeg)

![](_page_92_Figure_13.jpeg)

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TECHNOLOGY DETAILS - 1		
TN501		

∧ DESCRIPTION DATE

![](_page_93_Figure_2.jpeg)

![](_page_93_Figure_3.jpeg)

![](_page_93_Figure_4.jpeg)

![](_page_93_Figure_5.jpeg)

![](_page_93_Figure_6.jpeg)

![](_page_93_Figure_7.jpeg)

# USE APPROPRIATE BONDING STRAPS OR FITTINGS LISTED FOR APPROPRIATE USE BETWEEN SECTIONS AND JUNCTIONS IN TECHNOLOGY RACEWAY

- LADDER RACK

\_\_\_\_\_

![](_page_93_Picture_13.jpeg)

![](_page_93_Figure_14.jpeg)

BRIAN C. OLLIGES LICENSE # PE-2022017790

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![](_page_93_Picture_16.jpeg)

![](_page_94_Figure_0.jpeg)

![](_page_94_Figure_2.jpeg)

![](_page_94_Figure_3.jpeg)

### <u>GENERAL NOTES:</u>

- 1. WITHIN VAULT, PROVIDE OPTICAL FIBER ALLOWED 25'-0" OF SLACK IN THE FIGURE-8 SERVICE LOOP. THIS IS TO FACILITATE FUTURE MAINTENANCE. DO NOT LOOP CABLE IN A CIRCULAR FORMAT AS THE CABLE CANNOT BE LIFTED BY INSTALLER IF CIRCULAR PATTERN WITHOUT POSSIBLE KINKING.
- 2. TELECOMMUNICATIONS VAULTS SHALL NOT BE SHARED WITH ELECTRICAL INSTALLATIONS
- 3. EACH NEW VAULT SHALL BE EQUIPPED WITH A LID, PULL IRONS, CABLE RACKS, AND HOOKS DESIGNED FOR USE IN TELECOMMUNICATIONS SYSTEMS. CABLE HOOKS SHALL BE PLACED TO SUPPORT THE WEIGHT OF THE CABLE.

## PLAN NOTES:

- (1) PROVIDE CAST IRON COVER AND RING. ADJUST STUDS WITH SLOTTED HEAD FOR INSTALLING INTO COVER COLLAR. PROVIDE MAINTENANCE HOLE COVER COLLAR FOR H-20 BRIDGE LOAD. PROVIDE MINIMUM 6" PRECAST CONCRETE GRADE RING. PROVIDE LOCKDOWN SECURITY DEVICE OR EQUIVALENT.
- 2 PROVIDE LIFTING ANCHORS.
- (3) NOTCH ON UNDERSIDE OF TOP SLAB TO ACCEPT BASE
- SECTION.
- PROVIDE 12" X 4" DEEP SUMP AT MAINTENANCE HOLE BOTTOM.
- 5 PROVIDE PULLING EYE. PULLING EYE SHALL BE RATED FOR A MINIMUM OF 10,000 LBS.
- (6) TELECOMMUNICATIONS CONDUIT DUCTS SHALL ENTER HAND HOLE FROM SIDE WALL AS INDICATED. SEAL ALL CONDUIT/DUCT ENTRANCES WITH CONDUIT/DUCT MANUFACTURER RECOMMENDED TERMINATION FITTINGS. GROUT INSIDE AND OUTSIDE OF MAINTENANCE HOLE TO SEAL DUCT/HANDHOLE GAP.
- 7 PROVIDE SOLID BOTTOM.

![](_page_94_Figure_18.jpeg)

OSP UNDERGROUND CONDUIT NTS

TABLE OF DIMENSIONS		
x	HAND HOLE WIDTH - PER PLANS	
Y	HAND HOLE LENGTH - PER PLANS	
Z	HAND HOLE HEIGHT - PER PLANS	

GENERAL TELECOMMUNICATIONS HAND HOLE NOTES:

- REFER TO PLANS FOR HAND HOLE (HH) LOCATIONS AND PATHWAY 1.
- REQUIREMENTS.
- TELECOMMUNICATIONS HH SHALL NOT BE SHARED WITH ELECTRICAL
- INSTALLATIONS.
- REFER TO DUCT BANK DETAILS FOR RELATIONSHIP OF CONDUITS TO HH
- INGRESS.
- HH SHALL BE EQUIPPED WITH A LID, PULL IRONS, CABLE RACKS, AND HOOKS DESIGNED FOR USE INTELECOMMUNICATIONS SYSTEMS. LID SHALL BE RATED FOR THE INSTALLATION LOCATION (MEDIUM DUTY OR TRAFFIC) AND SHALL BE MARKED IN THE MANUFACTURER'S DESIGNATED LOCATION WITH THE TERM "TELECOMMUNICATIONS". CABLE HOOKS SHALL BE PLACED TO SUPPORT THE WEIGHT OF THE CABLE.
- CONDUIT INGRESS/EGRESS LOCATIONS AND QUANTITIES SHOWN ON THIS DETAIL ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONDUIT SIZE AND QUANTITY AS PER PLANS AND DUCT BANK DETAILS.
- 6. HH ENTRANCE SHALL BE INSTALLED FLUSH WITH FINISHED GRADE. SHOWN HH IS FOR ILLUSTRATIVE PURPOSES ONLY. FOR ADDITIONAL DETAILS CONCERNING REQUIREMENTS, REFER TO SPECIFICATION SECTION 7.
- 270443 UNDERGROUND DUCTS AND RACEWAYS.
- WHEN SPLICING IN HH, PROVIDE 3/4" DIAMETER GROUND ROD 9'-0" IN 8. LENGTH, BONDING RIBBON, AND BOND CABLE RACKS TO GROUND.
- PROVIDE CONDUIT SEPARATION OF 2" BETWEEN ALL CONDUITS. MAXIMUM 9. OF (3) 4" CONDUITS IN HH.
- 10. INSTEAD OF USING HH BOTTOM, PROVIDE 1 2' OF PEA GRAVEL BELOW BASE FOR PROPER DRAINAGE.

![](_page_94_Figure_36.jpeg)

- 1. ALL DIMENSIONS APPLY TO BOTH PAVED AND UNPAVED AREAS, BUT ARE ONLY SHOWN FOR CLARITY.
- 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFIRM TO THE TECHNICAL SPECIFICATIONS THAT HAVE BEEN PROVIDED. 3. PROVIDE WARNING TAPE. TAPE SHALL BE POLYETHYLENE PLASTIC TAPE WITH A MINIMUM WIDTH OF 6 INCHES. IT SHALL BE IMPRINTED WITH THE WORDS "WARNING-TELECOMMUNICATIONS CABLE BELOW". THE TEXT SHALL BE AT NOT MORE THAN 48 INCH
- INTERVALS. TAPE MUST BE EASILY DETECTABLE BY A METAL DETECTOR. IT SHALL BE INSTALLED 12 INCHES TO 18 INCHES ABOVE THE HIGHEST INSTALLED DUCT.
- 4. PROVIDE PERMANENT TRACER WIRE. THE TRACER WIRE SHALL BE PLACED CENTRALLY OVER THE CONDUIT FORMATION.
- 5. CONDUITS SHALL BE PLACED IN CARLON SNAP-LOC SPACERS TO MANUFACTURER'S STANDARD SPECIFICATIONS. MAXIMUM SPACER INTERVAL SHALL NOT EXCEED 10 FEET.
- 6. ALL CONDUITS SHALL BE MANDRELLED FOLLOWING INSTALLATION.
- 7. PROVIDE A PULL ROPE/TAPE WITHIN EACH CONDUIT AND INNER-DUCT. THE ROPE/TAPE SHALL HAVE A MINIMUM TENSILE STRENGTH OF 890 NEWTONS.
- 8. ALL CONDUITS SHALL BE PLUGGED WITH UNIVERSAL PLUGS.
- 9. ONE (1) 4" CONDUIT SHALL BE FULLY POPULATED WITH FOUR (4) 1 INCH INNER-DUCTS.
- 10. GRANULAR FILL TO BE CRUSHED STONE OF PEA GRAVEL WITH NOT LESS THAN 95 PERCENT PASSING 1/2 INCHES AND NOT LESS
- THAN 95 PERCENT TO BE RETAINED ON A NUMBER 8 SIEVE AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 6 INCH DEPTH.
- 11. CONDUITS UNDER PAVED AREA SHALL BE ENCASED IN CONCRETE. ALL ENCASEMENT CONCRETE SHALL BE A MINIMUM 4,000 PSI. 12. THE AREA BETWEEN THE ENTRANCE CONDUITS AND BUILDING STRUCTURE SHALL BE SEALED TO BE WATER AND PEST PROOF.
- 13. WHERE CONDUITS TURN UP INTO BUILDING ENTRANCE, THE CONDUIT SHALL BE TRANSITIONED TO RMC BEFORE THE SWEEP BEGINS.
- $\frac{\text{DIMENSIONS:}}{\text{W}} = 24" \text{ MIN.}$ D = 4"

L1

L1 = 6" MIN. L2 = 2" MIN.

![](_page_94_Picture_52.jpeg)

![](_page_94_Figure_53.jpeg)

BRIAN C. OLLIGES LICENSE # PE-2022017790

![](_page_94_Figure_55.jpeg)

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TECHNOLOGY			
DETAILS - 3			

	ITS	SECURITY SYMBOLS		SECURITY RESPONSIBILITY MATRIX	
INTERCOM (OPERABLE PART)		AREA OF REFUGE CALL BOX			
PARTS EXIST)	REOPERABLE 48				Fur
EMERGENCY LOCK RELEASE	48" ₹TS) 48"				
DEFAULT MOUNTING HEIGHTS SHOW		X (AC) ACCESS CONTR	OL		
OR ABOVE FINISHED GRADE (AFG). AL	L DEVICES SHALL BE INSTALLED IN	(SM) SECURITY MANA (TS) TOUCHSCREEN	AGEMENT CONTROL		Bid
COMPLIANCE WITH CURRENT ADÁ AN	D LOCAL REQUIREMENTS.	(VS) VIDEO SURVEILL	ANCE	Description	t of
ABBREVIATIONS		DA DOOR ANNUCATOR			Par
AMPERS CP ACCESS CONTROL PANEL	KVM KEYBOARD VIDEO MOUSE SWITCH	DOOR BELL			
DA AMERICANS WITH		(PB) PUSH BUTTON (CH) CHIME			
FC ABOVE FINISHED CEILING	LF LINEAR FEET	DOOR POSITION SWITCH ON	LY	Access Control System	
FF ABOVE FINISHED FLOOR FG ABOVE FINISHED GRADE	SWITCH	SEE ARCHITECTURAL	- DOOR HARDWARE SCHEDULE	Power and Data requirements	
HJ AUTHORITY HAVING JURISDICTION	MDF MAIN DISTRIBUTION FRAME MFR MANUFACTURER			Access control wining and pathways, coordination with vendor Access control headend system equipment , cabinets, UPS, switches	
NSI AMERICAN NATIONAL STANDARDS INSTITUTE	MH MAINTENANCE HOLE MM MULTIMODE			Access control devices (Card Readers, Panic Buttons, etc.)	
		POSITION SWITCH, A	ND LATCH BOLT MONITOR	Security Camera Networks	
AS BUILDING AUTOMATION	MTD MOUNTED	SEE ARCHITECTURAL	- DOOR HARDWARE SCHEDULE	Faceplates, patch panels, Cat 6A cables, and associated pathways, patch cables	
D BUILDING DISTRIBUTOR	N/A NOT APPLICABLE NEC NATIONAL ELECTRICAL CODE			Security Cameras and mounting accessories	
DF BUILDING DISTRIBUTION FRAME	NFPA NATIONAL FIRE PROTECTION ASSOCATION			Security camera systems equipment (NVR, licenses, etc)	
FC BELOW FINISHED CEILING R BIOMETRIC READER	NIC NOT IN CONTRACT nm NANOMETER			Intercom /Emergency Phone System	
		GB GLASS BREAK DETECTOR		Power requirements, Coordination with Vendor	
C CENTRAL CONTROL	NVR NETWORK VIDEO	(CR) WITH CARD REA	DER	Faceplates, patch panels, category 6A cables, and associated pathways	
TELEVISION	OC ON CENTER	(DS) DOOR STATION		Intercom system devices	
D CAMPUS DISTRIBUTOR	OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	(KS) RECEIVING (MAS (VS) VIDEO STATION	TEN STATION		
		$\langle IP \rangle$ INMATE PHONE		Notes: Filled black cell on table mean scope in that row is to be completed by e	əntity
	PON PASSIVE OPTICAL NETWORK	KEYPAD			
ר) REMOTE DEVICE AS DISTRIBUTED ANTENNA	(R) RELOCATED EXISTING DEVICE		CTION SYSTEM		
SYSTEM B DECIBELS	(RE) REMOVE EXISTING DEVICE AND INSTALL AT ANOTHER		JL		
CS DOOR CONTROL SYSTEM					
SP DIGITAL SIGNAL	RMS REMOTE MONITORING				
PROCESSOR VR DIGITAL VIDEO RECORDER	STATION RU RACK UNIT	PANIC ALARM THREE-COLOF	NDICATOR LIGHT		
E) EXISTING DEVICE C ELECTRICAL CONTRACTOR	SCS STRUCTURED CABLING SYSTEM	(PB) PANIC/DURESS BUTTON			
CIA ELECTRONIC OMPONENTS	SF SQUARE FEET	REQUEST-TO-EXIT PUSH PAL	)		
	SP SCRAMBLE PAD		TON		
IN LERFERENCE MS ENERGY MANAGEMENT	TIA TELECOMMUNICATIONS				
SYSTEM MT ELECTRICAL METALLIC	INDUSTRY ASSOCIATION TGB TELECOMMUNICATIONS		, TONEL WOUNT		
ETR) EXISTING TO REMAIN			ATED SWITCH		
DOOR FRAME MOUNTED	TR TELECOMMUNICATIONS	(S) SPEAKER (DOOR BELL)			
AAP FIRE ALARM ANNUNCIATOR PANEL	ROOM TYP TYPICAL	SP PAGING SPEAKER			
D FLOOR DISTRIBUTOR					
OR FIBER OPTIC RACK	UNINI EKKUPTIBLE POWER SUPPLY	VALVE BY DIVISION 2	2, CONTROL BY DIVISION 28		
S FIRE STOP SYSTEM LR FLOOR	UPSDP UNINTERRUPTIBLE POWER SUPPLY DISTRIBUTION	WT WATCH TOUR			
	PANEL V VOLT(S)				
SYP GYPSUM BOARD					
n HAND HOLE					
IC INTERMEDIATE METAL CONDUIT	WAO WORK AREA OUTLET WP WEATHER PROOF	SECURITY CAMERAS			
CS INTERCOM CONTROL	WR WEATHER RESISTANT WT WATERTIGHT				
	XP EXPLOSION-PROOF				
BOX JUNCTION BOX					
() ELECTRICALLY OPERATED BY KEY		360 CAMERA			
P KEY PAD					
) - INDICATES MODIFIER FOR SPECIAL	OPERATION IN LABELING SCHEME			_	
ANNOTATION					
SECURITY PLAN CALLOUT		CEILING MOUNT			
CONNECTION POINT OF NEW WORK TO EXISTING					
(1) DETAIL REFERENCE UPPER NUMBER. LOWER NUMBER	NUMBER INDICATES DETAIL				
(TY1) SECTION CUT DESIGNATION	٨	WALL MOUNT PENDANT AF	۲M		
				_	
DEDICATED EQUIPMENT ACCESS TILE				_	
		XX: MODIF	IER FOR SPECIAL JN IF APPLICABLE		
THROUGHOUT THE DRAWINGS DIFFE	RENT LINE-TYPES ARE USED IN	YY: DEVIC	E TYPE		
EXISTING, TO BE DEMOLISHED, TO BE	EINCLUDED AS PART OF THE NEW				
WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO			CHEDULES ON THIS SHEET (IF APPLICABL	.E)	
THE VIEW IN WHICH THEY APPEAR. P	HASING SHOWN IN DRAWINGS IS NOT	SECURITY CAMERAS (TYPICA	\L)		_
IN LENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR		XX: CAME	RANUMBER		_
INTENDED TO FULLY DESCRIBE ALL N WHICH IS DETERMINED BY THE CONT RESPONSIBILITIES ANY SUCH DUACE		C-XX <sup>→</sup> AA: CAME	RA TYPE (SEE CAMERA		
INTENDED TO FULLY DESCRIBE ALL N WHICH IS DETERMINED BY THE CONT RESPONSIBILITIES. ANY SUCH PHASE DOCUMENTS ARE GENERAL AND ONI		##'AFF SCHEDULE ON THIS PAGE)		$  ENLARGED PLAN \qquad \qquad$	
INTENDED TO FULLY DESCRIBE ALL N WHICH IS DETERMINED BY THE CONT RESPONSIBILITIES. ANY SUCH PHASE DOCUMENTS ARE GENERAL AND ONI ORDER FOR THE SAKE OF DESCRIBIN LINETYPES MAY BE USED ON ANY DE	IG THE PROJECT. THE FOLLOWING VICE, EQUIPMENT, NOTE, LINE, SHAPE,	##' AFF SCHEDUL	E ON THIS PAGE)		
INTENDED TO FULLY DESCRIBE ALL N WHICH IS DETERMINED BY THE CONT RESPONSIBILITIES. ANY SUCH PHASE DOCUMENTS ARE GENERAL AND ONI ORDER FOR THE SAKE OF DESCRIBIN LINETYPES MAY BE USED ON ANY DE ETC.	INDICATE A BROAD IG THE PROJECT. THE FOLLOWING VICE, EQUIPMENT, NOTE, LINE, SHAPE,	##' AFF SCHEDUL FOR WALL ABOVE FIN	E ON THIS PAGE) . MOUNTED CAMERAS, HEIGHT JISHED FLOOR		

SECURITY SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

![](_page_95_Figure_2.jpeg)

![](_page_95_Picture_3.jpeg)

\_\_\_\_\_

![](_page_95_Figure_4.jpeg)

![](_page_95_Picture_5.jpeg)

![](_page_95_Picture_6.jpeg)

# PLOT D/ FILE PA

1/8" = 1'-0"

![](_page_96_Figure_1.jpeg)

![](_page_96_Picture_41.jpeg)

♦ SECURITY PLAN NOTES:

VENDOR.

- S1 FOR DOUBLE DOOR INSTALLATION DETAIL REFER TO DETAIL 1 ON SHEET TY501.
- S2 FOR SINGLE DOOR INSTALLATION DETAIL REFER TO DETAIL 2 ON SHEET TY501 S3 LOCATION OF SECURITY AND CARD ACCESS CONTROL PANEL. COORDINATE FINAL LOCATION WITH SECURITY

![](_page_96_Picture_46.jpeg)

![](_page_96_Figure_47.jpeg)

![](_page_96_Picture_48.jpeg)

![](_page_96_Figure_49.jpeg)

1	Addendum 1 DESCRIPTION	12/22/23 DATE	
PROJEC	T NO:	18225R21006	
STATUS	:	PERMIT SET	
DATE:		11/01/2023	
DRAWN	BY:	O.B	
CHECKED BY:		B.W	
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SECURITY PLAN			

TY101

![](_page_96_Picture_51.jpeg)

![](_page_97_Figure_0.jpeg)

![](_page_97_Figure_2.jpeg)

![](_page_97_Picture_4.jpeg)

$\triangle$	DESCRIPTION	DATE
PROJEC	ΓNO:	18225R21006
STATUS:		PERMIT SET
DATE:		11/01/2023
DRAWN	BY:	O.B
CHECKE	D BY:	B.W
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SECI	JRITY D	ETAILS

![](_page_97_Figure_6.jpeg)

![](_page_97_Picture_7.jpeg)

![](_page_97_Picture_8.jpeg)

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HENDI ENGINEE LENEXA DRIVE, LENEXA, KS 6 LENEXA, KS 6 742.5000 FAX