COLD SUMMIT WILMINGTON

ELECTRICAL PLANS

187 RALEIGH STREET

WILMINGTON, NORTH CAROLINA

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	FIXTURE INFORMATION		ELECTRIC INFORMATION		MISCELLANEOUS INFORMATION	
	A	LED HIGHBAY, CLEAR LENS AND OCCUPANCY SENSOR	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED
	QUANTITY 120	36,000 LUMEN 5000K, 70CRI	MODEL	HBLED-LD5-36SE-N-UNV-L750-CD-2-MS	LAMP QTY	-	HEIGHT	50' IN RACKS
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	232W		
	A,NL	LED HIGHBAY, CLEAR LENS	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED
	QUANTITY 48	36,000 LUMEN 5000K, 70CRI	MODEL	HBLED-LD5-36SE-N-UNV-L750-CD-2	LAMP QTY	-	HEIGHT	50' IN RACKS
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	232W		
	B	LED HIGHBAY, CLEAR LENS AND OCCUPANCY SENSOR	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED
	QUANTITY 84	36,000 LUMEN 5000K, 70CRI	MODEL	HBLED-LD5-36SE-W-UNV-L750-CD-2-MS	LAMP QTY	-	HEIGHT	30' ON DOCK/BATT
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	232W		
	B,NL	LED HIGHBAY, CLEAR LENS	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED
	QUANTITY 28	36,000 LUMEN 5000K, 70CRI	MODEL	HBLED-LD5-36SE-W-UNV-L750-SD-2	LAMP QTY	-	HEIGHT	50' IN RACKS
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	232W		
	C	2X4 LED TROFFER	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	RECESSED
	QUANTITY 28	5,000 LUMEN 4000K, 70CRI	MODEL	24CZ2-50-UNV-L840-CD1-U	LAMP QTY	-	HEIGHT	CEILING HEIGHT
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	HATCHING INDICATES WIRED AS A NIGHT LIGHT
			OTHER		WATTS	40W		
	F	4' PENDANT FIXTURE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	PENDANT
	QUANTITY 26	6,536 LUMEN 4000K, 70CRI	MODEL	4WSL-LD2-65-SPS-UNV-L840-CD-1-WAA	LAMP QTY	-	HEIGHT	10' A.F.F.
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	HATCHING INDICATES WIRED AS A NIGHT LIGHT
			OTHER		WATTS	62W		
	D	LED DOWNLIGHT	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	RECESSED
	QUANTITY 102		MODEL	PR4-FS12-D010	LAMP QTY	-	HEIGHT	CEILING HEIGHT
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	HATCHING INDICATES WIRED AS A NIGHT LIGHT
			OTHER		WATTS	11W		
	EMEX	EMERGENCY/EXIT LIGHT COMBO REMOTE CAPABLE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	PER DRAWINGS
	QUANTITY 1		MODEL	LPXC25R3	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	DIRECTIONAL ARROWS PER DRAWINGS
			OTHER		WATTS	19W		
	EX1	EXIT LIGHT, WHITE WITH RED LETTERS SINGLE FACE	MAKE	BEGHELLI	VOLTAGE	277/120V	MOUNTING	PER DRAWINGS
	QUANTITY 30		MODEL	FTZ-HT-LR-U-U-PLUS	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	DIRECTIONAL ARROWS PER DRAWINGS
			OTHER		WATTS	19W		
	EX2	EXIT LIGHT, WHITE WITH RED LETTERS DOUBLE FACE	MAKE	BEGHELLI	VOLTAGE	277/120V	MOUNTING	PER DRAWINGS
	QUANTITY 6		MODEL	FTZ-HT-LR-U-U-PLUS	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	DIRECTIONAL ARROWS PER DRAWINGS
			OTHER		WATTS	19W		
	EX3	EXIT LIGHT, WHITE WITH RED LETTERS UNIVERSAL FACE	MAKE	COOPER	VOLTAGE	277/120V	MOUNTING	PER DRAWINGS
	QUANTITY 14		MODEL	APX6R	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	DIRECTIONAL ARROWS PER DRAWINGS
			OTHER		WATTS	2W		
	RH	REMOTE HEADS	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	WALL
	QUANTITY 1		MODEL	SRP250GY	LAMP QTY	-	HEIGHT	MOUNT ABOVE MAN DOOR
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	2.5W		
	FL2	GROUND MOUNTED FLOOD LIGHT	MAKE	COOPER LIGHTING	VOLTAGE	277V	MOUNTING	GROUND
	QUANTITY 4	10,500 LUMENS, 5000K 6X6, BRONZE	MODEL	NFFLD-C25-D-UNV-66-T-CB-7050	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	MOUNT ON 12" CONCRETE BASE
			OTHER		WATTS	85W		
	FPL	GROUND MOUNTED FLOOD LIGHT	MAKE	COOPER LIGHTING	VOLTAGE	277V	MOUNTING	GROUND
	QUANTITY 4	2,835 LUMENS, 5000K 3X3, BRONZE	MODEL	NFFLD-S-C70-D-UNV-33-T-CB-7050	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	MOUNT ON 12" CONCRETE BASE
			OTHER		WATTS	26W		
	W1	LED WALL PACK WALL MOUNTED	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	WALL
	QUANTITY 6	28,333 LUMENS, 5000K HOUSE SIDE SHIELD, BRONZE	MODEL	GLEON-SA4C-750-U-T4W-WM-BZ-HSS	LAMP QTY	-	HEIGHT	33'-0"
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	
			OTHER		WATTS	258W		
	P1	LED SINGLE HEAD POLE LIGHT, 30' POLE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	POLE
	QUANTITY 10	28,333 LUMENS, 5000K BRONZE	MODEL	GLEON-SA4C-750-U-T4W-BZ-HSS	LAMP QTY	-	HEIGHT	33'-0"
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	PROVIDE 30' SSS POLE (BRONZE)
			OTHER		WATTS	258W		
	P2	LED TWIN HEAD POLE LIGHT, 30' POLE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	POLE
	QUANTITY 2	28,703 LUMENS, 5000K (EACH), BRONZE	MODEL	2 X GALN-SA4C-750-U-T4FT-BZ-HSS	LAMP QTY	-	HEIGHT	33'-0"
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	PROVIDE 30' SSS POLE (BRONZE)
			OTHER		WATTS	516		
	P3	LED SINGLE HEAD POLE LIGHT, 30' POLE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	POLE
	QUANTITY 5	28,703 LUMENS, 5000K HOUSE SIDE SHIELD, BRONZE	MODEL	GLEON-SA4C-750-U-T4FT-BZ-HSS	LAMP QTY	-	HEIGHT	33'-0"
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	PROVIDE 30' SSS POLE (BRONZE)
			OTHER		WATTS	258W		
	P4	LED SINGLE HEAD POLE LIGHT, 30' POLE	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	POLE
	QUANTITY 3	28,703 LUMENS, 5000K BRONZE	MODEL	GLEON-SA4C-750-U-T2-BZ-HSS	LAMP QTY	-	HEIGHT	33'-0"
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	PROVIDE 30' SSS POLE (BRONZE)
			OTHER		WATTS	258W		
	S40C	4' LED STRIP LIGHT WITH LENS, AND INTEGRAL OCCUPANCY SENSOR	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED/SURFACE
	QUANTITY 9	6100 LUMEN, 5000K	MODEL	4SRL-LD5-61SL-LC-UNV-L850-CD1-U-SVPD2	LAMP QTY	-	HEIGHT	10'-0" RISER ROOMS
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	SURFACE MOUNT IN RACK TUNNELS
			OTHER		WATTS	47W		
	S80C	8' LED STRIP LIGHT WITH OCCUPANCY SENSOR	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	SUSPENDED/SURFACE
	QUANTITY 4	10000 LUMEN, 5000K	MODEL	8TSNLED-LD5-104SL-UNV-LBERMS360-L850-CD-1-U	LAMP QTY	-	HEIGHT	
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	COORDINATE PLACEMENT WITH FIRE PROTECTION
			OTHER		WATTS	75W		
	WP1	LED WALLPACK WITH INTEGRAL PHOTOCELL	MAKE	COOPER LIGHTING	VOLTAGE	277/120V	MOUNTING	WALL
	QUANTITY 61	1800 LUMEN, 5000K BRONZE	MODEL	AXCS1A-C-PC	LAMP QTY	-	HEIGHT	9' AT MAN DOORS
			ALTERNATE	OR EQUAL	LAMP TYPE	LED	NOTES	COORDINATE BETWEEN DOCK SHELTERS
			OTHER		WATTS	14W		

NOTES:
1. FIXTURES WITH THE SUFFIX "-EM", "-EX", "-NL" ARE TO BE WIRED TO THE SAME CIRCUIT AS THE LIGHTING IN THAT AREA, AHEAD OF ANY LOCAL SWITCHING. UNLESS OTHERWISE NOTED.
2. NOT ALL SYMBOLS MAY BE USED

DESIGNATIONS
-N NEW
-E EXISTING
-D DEMO
-R RELOCATED

LIGHTING SYMBOL LEGEND

$	277/120V, 20A SINGLE POLE SWITCH MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
$3	277/120V, 20A 3-WAY SWITCH MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
$D	277/120V, 20A 0-10V DIMMER MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
$OC	277/120V, 20A OCCUPANCY SENSOR SWITCH, DUAL TECH MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
$OCD	277/120V, 20A OCCUPANCY SENSOR SWITCH, DUAL TECH/0-10V DIMMER MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
$OCD2	277/120V, 20A OCCUPANCY SENSOR SWITCH, DUAL TECH/LINE VOLTAGE DIMMER MOUNT AT +48" A.F.F. UNLESS OTHERWISE NOTED
OC1	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR DUAL TECH, STANDARD RANGE, 360° REQUIRES POWER PACK
OC2	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR DUAL TECH, EXTENDED RANGE, 360° REQUIRES POWER PACK
OC3	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR ULTRASONIC, HALLWAY APPLICATION REQUIRES POWER PACK
PC	277V PHOTOCELL TORK - 2000-2 OR EQUAL

NOTES: NOT ALL SYMBOLS MAY BE USED.
DEVICE COLOR - VERIFY WITH OWNER

SHEET INDEX

GENERAL ELECTRICAL NOTES

ELECTRICAL DRAWINGS DESIGNED PER NATIONAL ELECTRIC CODE - 2020

USE NO WIRE SMALLER THAN #12 AWG CU. FOR POWER AND LIGHTING CIRCUITS ON 20A BREAKERS. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP.

120V		277V	
0-75 FT	#12 AWG	0-175 FT	#12 AWG
75-150 FT	#10 AWG	175-280 FT	#10 AWG
150-250 FT	#8 AWG	280-450 FT	#8 AWG
250-350 FT	#6 AWG	450-700 FT	#6 AWG

30A, 40A AND ALL OTHER CIRCUITS SHOULD INCREASE CONDUCTOR SIZES RESPECTIVELY

VERIFY ALL CONDITIONS IN FIELD INCLUDING VOLTAGE DROP

ELECTRICAL ABBREVIATIONS:

ATS - AUTOMATIC TRANSFER SWITCH
AWG - AMERICAN WIRE GAUGE
C - CONDUIT
CB - CIRCUIT BREAKER
CU - COPPER
EC - ELECTRICAL CONTRACTOR
EM - EMERGENCY
EMT - ELECTRICAL METALIC TUBING
F - FUSE
FA - FIRE ALARM
FACP - FIRE ALARM CONTROL PANEL
FLA - FULL LOAD AMPS
FMC - FLEXIBLE METAL CONDUIT
GND - GROUND
GFI - GROUND FAULT CIRCUIT INTERRUPTER
KCMIL - THOUSAND CIRCULAR MILS
MC - METAL CLAD CABLE
MCB - MAIN CIRCUIT BREAKER
MLO - MAIN LUG ONLY
NF - NON FUSED
NL - NIGHT LIGHT
P - POLE
PNL - PANEL
PWR - POWER
QTY - QUANTITY
RMC - RIGID METAL CONDUIT
RTU - ROOF TOP UNIT
SP - SPARE
ST - SHUNT TRIP
TEL - TELEPHONE
TYP - TYPICAL
UG - UNDERGROUND
WP - WEATHER PROOF
XFMR - TRANSFORMER

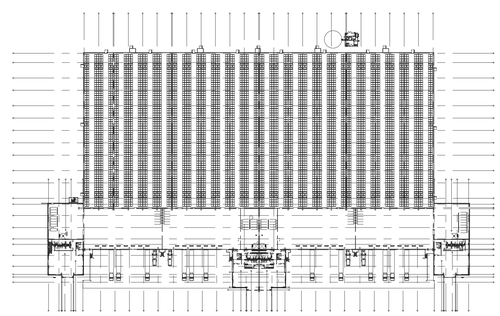
POWER SYMBOL LEGEND

	120V, 20A DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	120V, 20A DEDICATED DUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	120V, 20A QUADRUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	120V, 20A DEDICATED QUADRUPLEX RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	120V, 20A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	120V, 20A DEDICATED GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT AT +18" A.F.F. UNLESS OTHERWISE NOTED		
	MODULAR OFFICE FURNITURE CONNECTION		POWER/DATA POKE-THRU
	SPECIAL RECEPTACLE SEE DRAWING FOR VOLTAGE, AND AMPERAGE	$M	MOTOR RATED SWITCH
J	JUNCTION BOX		DISCONNECT SWITCH SIZE NOTED ON DRAWING
	480/277V ELECTRICAL PANEL		208/120V ELECTRICAL PANEL
	MOTOR SIZE AND VOLTAGE NOTED ON DRAWING		ELECTRICAL TRANSFORMER
	AUXILIARY OUTLET, LOW VOLTAGE RING, WITH STRING	CR	ACCESS CONTROL POINT, +48" 1" CONDUIT TO BAR JOIST/ ACCESSIBLE CEILING
DC	480V, 3ø DOCK CONTROLLER	$T	120V TAMPER SWITCH PROVIDED BY OTHERS
	120V FIRE BELL PROVIDED BY OTHERS		POWER/DATA FLOOR BOX

NOTES: NOT ALL SYMBOLS MAY BE USED

"WP" WEATEHR PROOF DUPLEX, WITH IN-USE COVER
"WD" WEATEHR PROOF SIMPLEX OUTLET, WITH NEMA 4X BOX, AND COVER

DEVICE COLOR - VERIFY WITH OWNER



1 EG0.00 **OVERALL BUILDING PLAN**
SCALE: NOT TO SCALE

NORTH

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Cold Summit Wilmington

COLD SUMMIT DEVELOPMENT
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187 RALEIGH STREET
WILMINGTON, NC

date	description
12/12/2022	ISSUED FOR PERMIT
12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

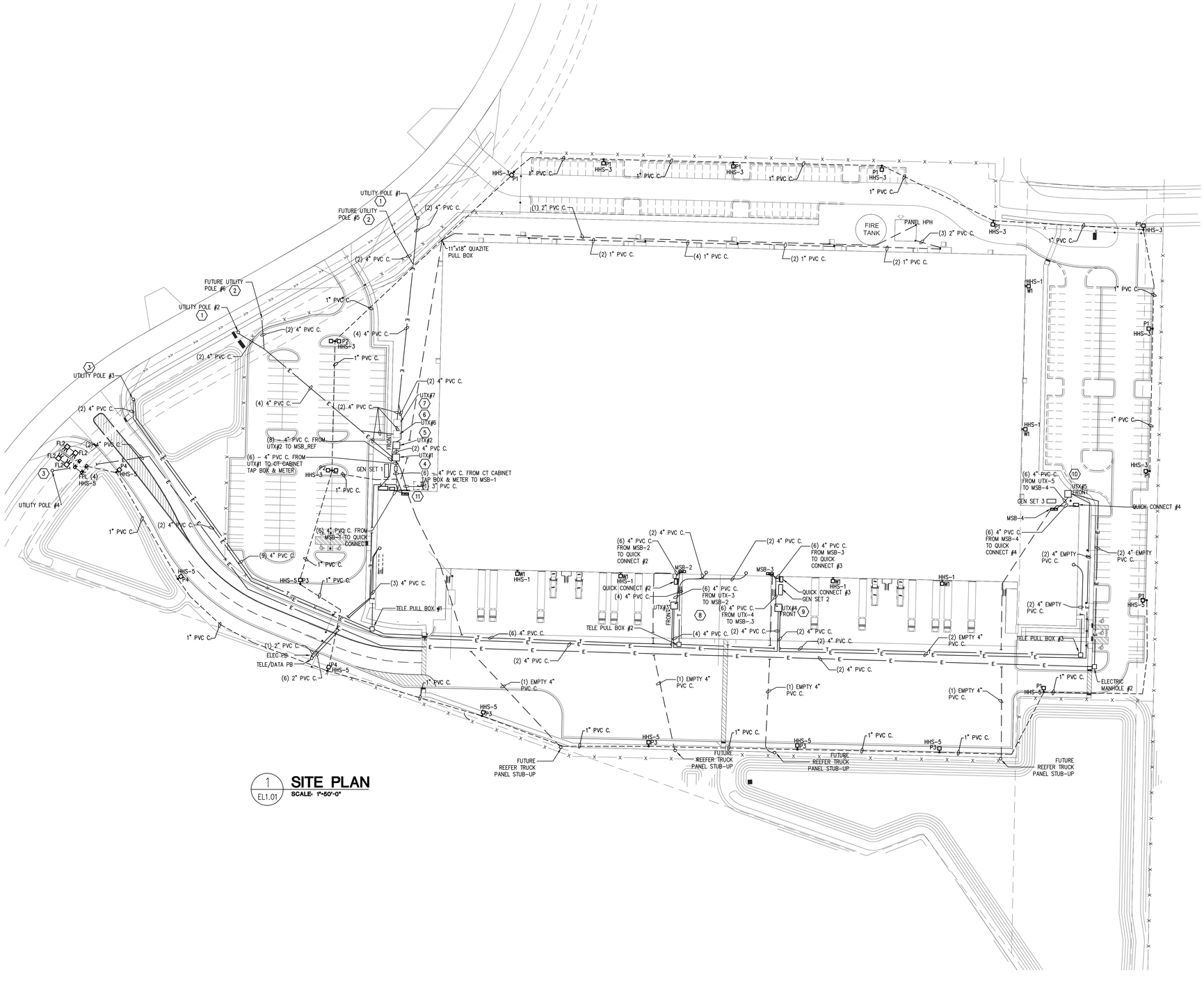
drawing status

project no. 2022-1106.00

seal

title
ELECTRICAL COVER SHEET

sheet EG0.00



1 EL1.01 **SITE PLAN**
SCALE: 1"=50'-0"

GENERAL NOTES:

1. BURY PRIMARY CONDUITS 36" TO THE TOP OF THE CONDUITS FOR PRIMARY ELECTRIC TRENCHES
2. MAINTAIN 10' SPACING BETWEEN PRIMARY ELECTRIC TRENCHES.
3. EACH PRIMARY ELECTRIC CONDUIT 90 DEGREE BEND AND STUB UP SHALL HAVE 3-80LB BAGS OF CONCRETE INSTALLED.
4. SITE POLE LIGHTING INCLUDING BASES, FIXTURES AND WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

CODED NOTES:

1. UTILITY POLE #1 & #2 FEEDS TENANT #1, REFRIGERATION SERVICE & HOUSE SERVICE.
2. FUTURE UTILITY POLE #5 & #6 FEEDS FUTURE BLAST CELL SERVICES.
3. UTILITY POLE #3 & #4 FEEDS TENANT #2, TENANT #3 & TENANT #4 MAIN SERVICES.
4. UTILITY TRANSFORMER #1 FOR TENANT #1 MAIN SERVICE – 2000A, 480/277V, 3PH, 4-WIRE.
5. UTILITY TRANSFORMER #2 FOR REFRIGERATION MAIN SERVICE – 2500A, 480/277V, 3PH, 4-WIRE.
6. UTILITY TRANSFORMER PAD #6. PROVIDE (2)-EMPTY 4" PVC SCH. 40 CONDUITS FROM FUTURE UTILITY POLE #6 AND FUTURE UTILITY TRANSFORMER #7. PROVIDE (11)-EMPTY 4" PVC SCH. 40 CONDUITS STUBBED 10' TOWARDS BUILDING FOR FUTURE 4000A, 480/277V, 3PH, 4-WIRE BLAST CELL #1 MAIN SERVICE.
7. UTILITY TRANSFORMER PAD #7. PROVIDE (2)-EMPTY 4" PVC SCH. 40 CONDUITS FROM FUTURE UTILITY POLE #5 AND FUTURE UTILITY TRANSFORMER #6. PROVIDE (11)-EMPTY 4" PVC SCH. 40 CONDUITS STUBBED 10' TOWARDS BUILDING FOR FUTURE 4000A, 480/277V, 3PH, 4-WIRE BLAST CELL #2 MAIN SERVICE.
8. UTILITY TRANSFORMER #3 FOR TENANT #2 MAIN SERVICE 2000A, 480/277V, 3PH, 4-WIRE.
9. UTILITY TRANSFORMER #4 FOR TENANT #3 MAIN SERVICE – 2000A, 480/277V, 3PH, 4-WIRE.
10. UTILITY TRANSFORMER #5 FOR TENANT #4 MAIN SERVICE – 2000A, 480/277V, 3PH, 4-WIRE.
11. SEE DETAIL 1 ON SHEET EP3.01.

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d r a w i n g s t a t u s

project no. 2022-1106.00

seal

title
ELECTRICAL SITE PLAN

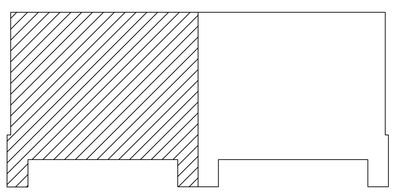
sheet
ELP1.00

1 EL2.01 **PARTIAL BUILDING LIGHTING PLAN**
SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET E0.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01–.04 FOR SINGLE–LINE DIAGRAM, AND 6.01–.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"–12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.



KEYPLAN

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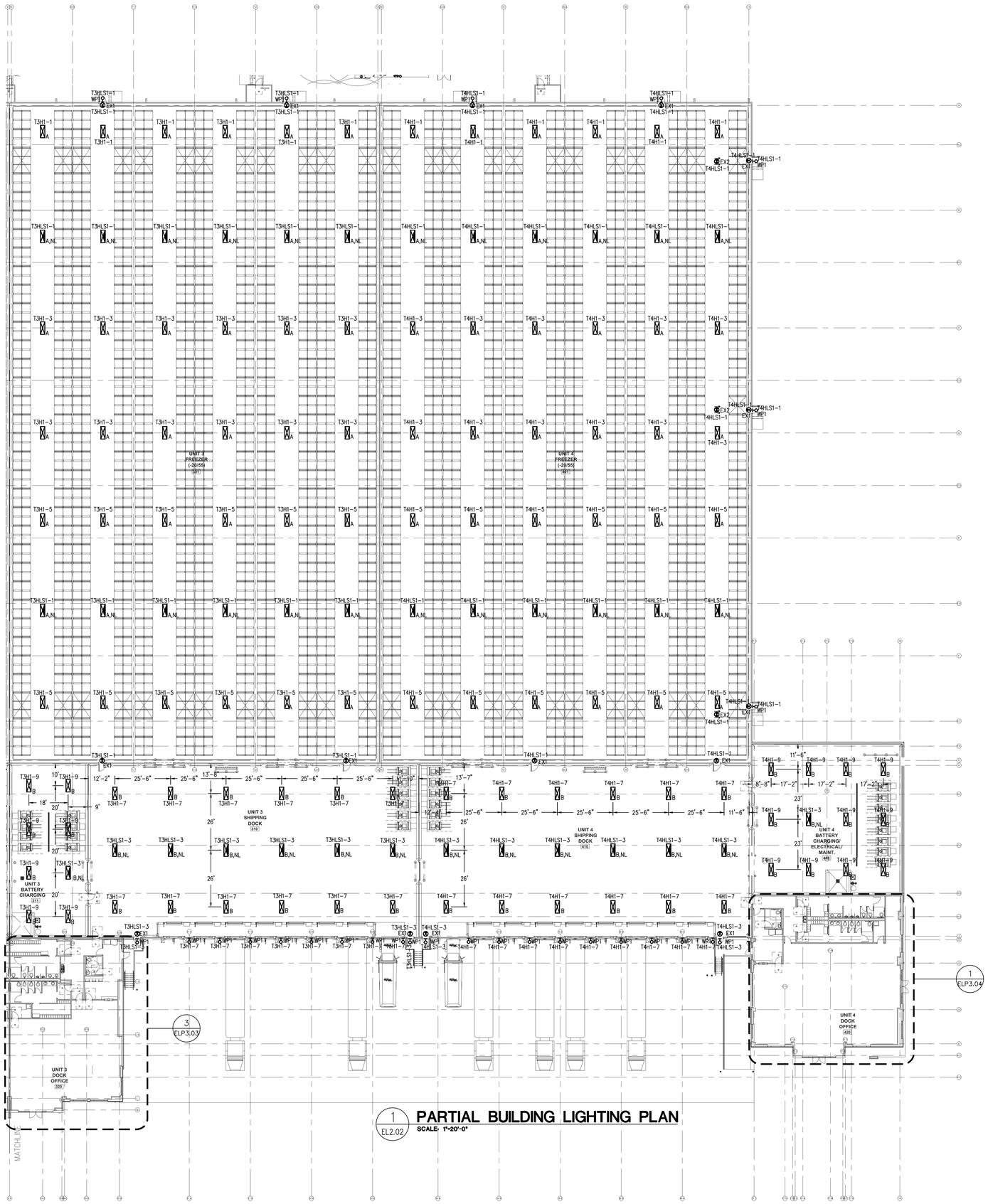
project no. 2022-1106.00

seal

NORTH CAROLINA PROFESSIONAL SEAL No. 16019 ENGINEER CRAIG L. MOLNAR 12/12/2022

title
PARTIAL ELECTRICAL BUILDING LIGHTING PLAN

sheet
EL2.01

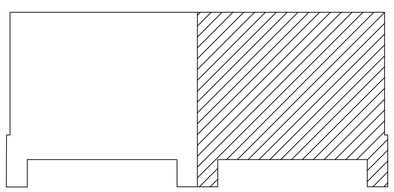


1 EL2.02 **PARTIAL BUILDING LIGHTING PLAN**
SCALE: 1"=20'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET E00.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01–.04 FOR SINGLE-LINE DIAGRAM, AND 6.01–.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.



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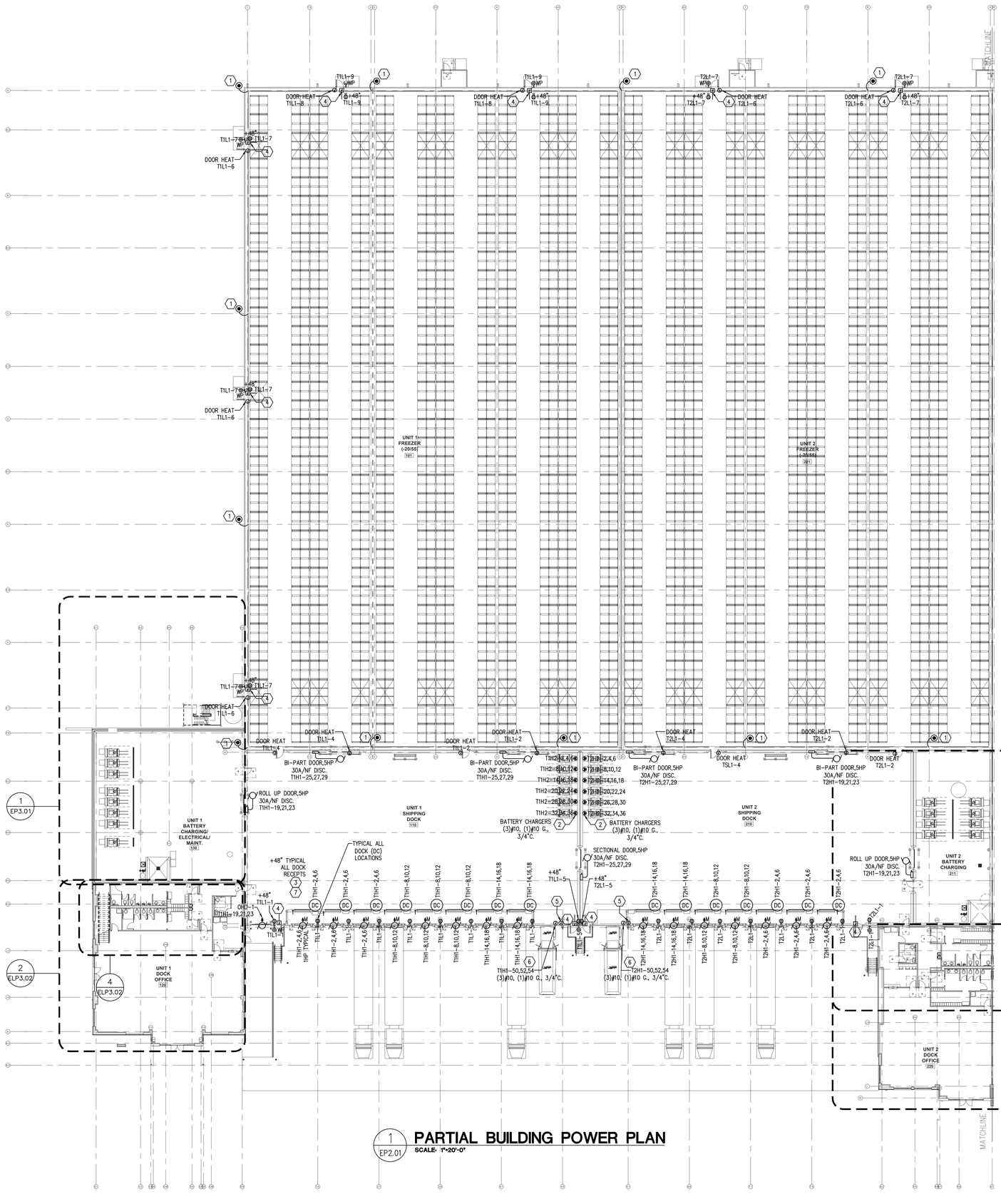
seal

title
PARTIAL ELECTRICAL BUILDING LIGHTING PLAN

sheet EL2.02



1 EP2.01 PARTIAL BUILDING POWER PLAN

SCALE: 1"=20'-0"

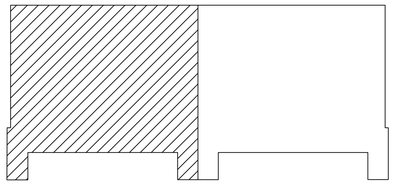
NORTH

GENERAL NOTES:

1. REFER TO SHEET E00.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01–.04 FOR SINGLE-LINE DIAGRAM, AND 6.01–.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"–12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.

CODED NOTES:

1. FURNISH AND INSTALL 3/4" X 10'–0" COPPER CLAD GROUND ROD. CONNECT #4/0 BARE COPPER GROUNDING CONDUCTOR TO BUILDING COLUMN. CONNECTION TO GROUND ROD AND BUILDING SHALL BE EXOTHERMIC WELD.
2. PROVIDE A 30A, 480V 3-PHASE CIRCUIT TO JUNCTION BOX FOR FUTURE BATTERY CHARGER. TYPICAL OF ALL BATTERY CHARGER LOCATIONS.
3. PROVIDE 480V 3-PHASE CIRCUIT FOR DOCK COMMANDER. MAKE CONNECTION TO DOCK LEVELER, DOCK DOOR, TRUCK RESTRAINT,AND RED/GREEN LIGHTING. ALL POWERED THROUGH DOCK COMMANDER.
4. PROVIDE A 4" BACK BOX, AND 3/4" EMT CONDUIT TO CEILING SPACE FOR SECURITY.
5. PROVIDE FULL DOCK CONDUIT ROUGH-IN, AND 4" SQUARE JUNCTION BOX WITH CIRCUIT (AS SHOWN) ON INTERIOR WALL FOR FUTURE DOCK DOOR/LEVELER.
6. PROVIDE A 4" SQUARE JUNCTION BOX WITH CIRCUIT (AS SHOWN) ON INTERIOR WALL FOR FUTURE TRASH COMPACTOR.
7. PROVIDE 1" PVC CONDUIT STUBBED AT EACH DOCK DOOR LOCATION FROM CORRESPONDING FUTURE REEFER PANEL LOCATION FOR FUTURE REEFER OUTLET. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.



KEYPLAN

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12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

drawing status

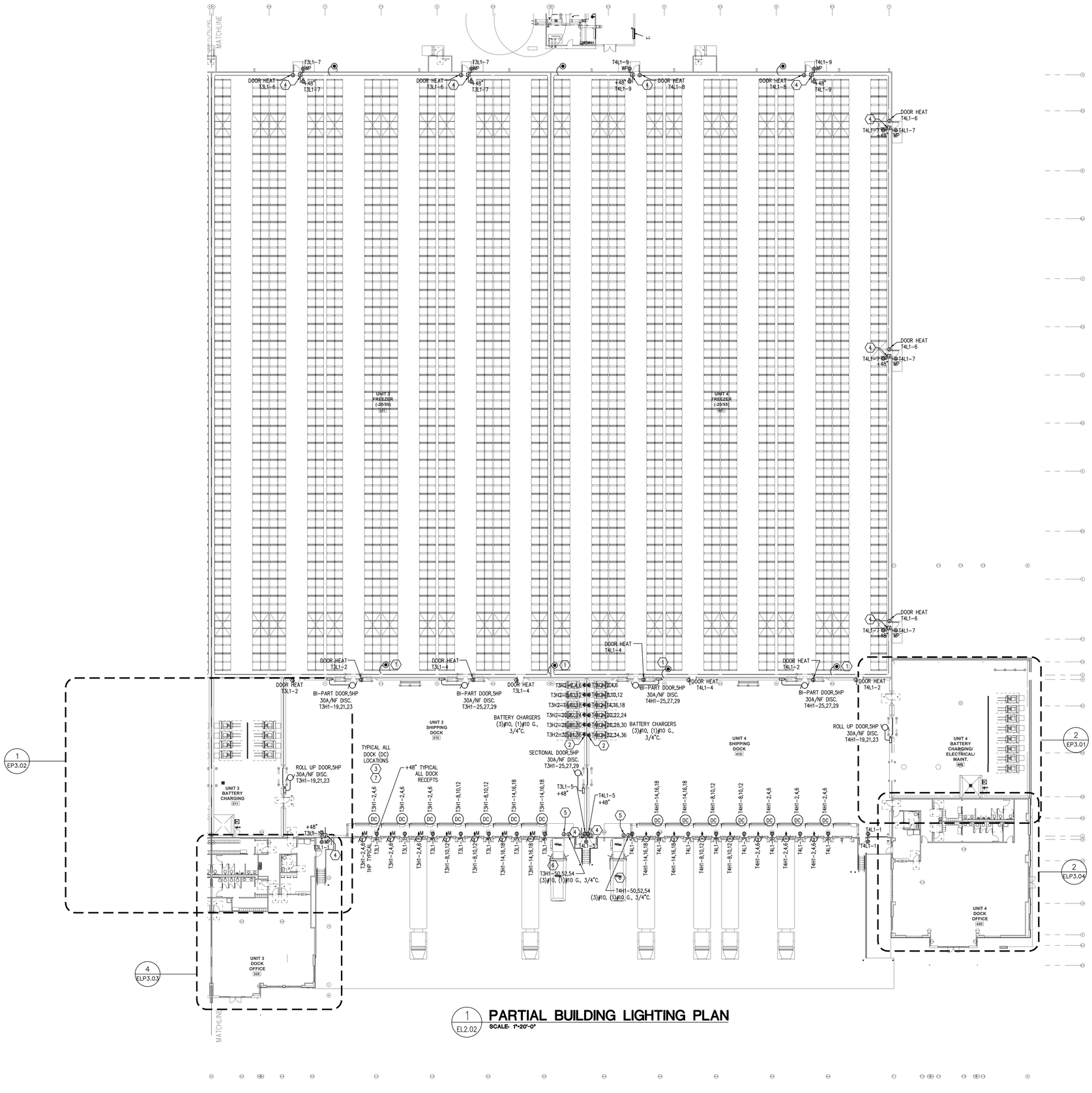
project no. 2022-1106.00

seal

NORTH CAROLINA PROFESSIONAL SEAL No. 18019 ENGINEER CRAIG L. MOLNAR 12/12/2022

title
PARTIAL ELECTRICAL BUILDING LIGHTING PLAN

sheet
EP2.01



1 EL2.02 **PARTIAL BUILDING LIGHTING PLAN**

SCALE: 1"=20'-0"

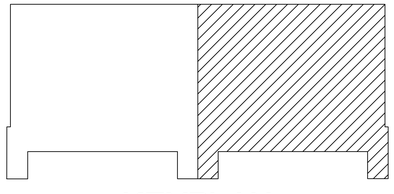
NORTH

GENERAL NOTES:

1. REFER TO SHEET EG0.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01–.04 FOR SINGLE–LINE DIAGRAM, AND 6.01–.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"–12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.

CODED NOTES:

1. FURNISH AND INSTALL 3/4" X 10'–0" COPPER CLAD GROUND ROD. CONNECT #4/0 BARE COPPER GROUNDING CONDUCTOR TO BUILDING COLUMN. CONNECTION TO GROUND ROD AND BUILDING SHALL BE EXOTHERMIC WELD.
2. PROVIDE A 30A, 480V 3–PHASE CIRCUIT TO JUNCTION BOX FOR FUTURE BATTERY CHARGER. TYPICAL OF ALL BATTERY CHARGER LOCATIONS.
3. PROVIDE 480V 3–PHASE CIRCUIT FOR DOCK COMMANDER. MAKE CONNECTION TO DOCK LEVELER, DOCK DOOR, TRUCK RESTRAINT,AND RED/GREEN LIGHTING. ALL POWERED THROUGH DOCK COMMANDER.
4. PROVIDE A 4" BACK BOX, AND 3/4" EMT CONDUIT TO CEILING SPACE FOR SECURITY.
5. PROVIDE FULL DOCK CONDUIT ROUGH–IN, AND 4" SQUARE JUNCTION BOX WITH CIRCUIT (AS SHOWN) ON INTERIOR WALL FOR FUTURE DOCK DOOR/LEVELER.
6. PROVIDE A 4" SQUARE JUNCTION BOX WITH CIRCUIT (AS SHOWN) ON INTERIOR WALL FOR FUTURE TRASH COMPACTOR.
7. PROVIDE 1" PVC CONDUIT STUBBED AT EACH DOCK DOOR LOCATION FROM CORRESPONDING FUTURE REEFER PANEL LOCATION FOR FUTURE REEFER OUTLET. VERIFY EXACT LOCATION PRIOR TO ROUGH–IN.



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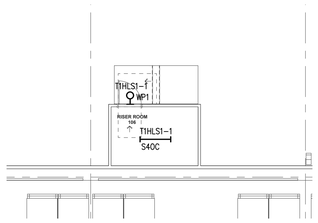
NORTH CAROLINA PROFESSIONAL SEAL No. 18019 ENGINEER CRAIG L. MOLNA 12/12/2022

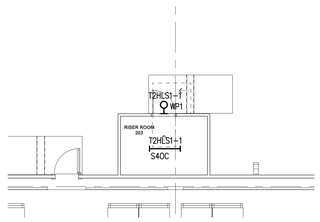
title

PARTIAL ELECTRICAL BUILDING POWER PLAN

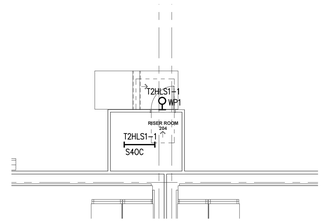
sheet EL2.02



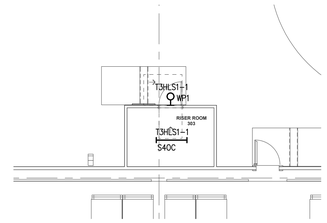
1 EL3.01 **RISER RM 106 LTG PLAN**
SCALE: 1/8"=1'-0"



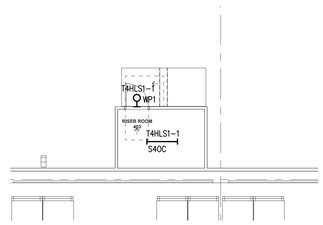
2 EL3.01 **RISER RM 203 LTG PLAN**
SCALE: 1/8"=1'-0"



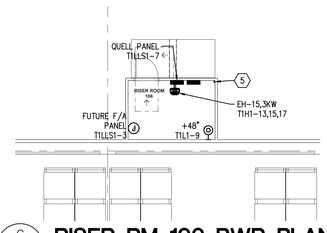
3 EL3.01 **RISER RM 204 LTG PLAN**
SCALE: 1/8"=1'-0"



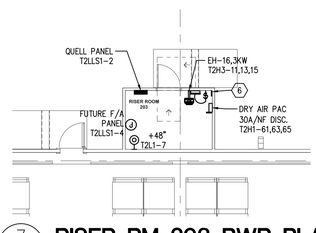
4 EL3.01 **RISER RM 303 LTG PLAN**
SCALE: 1/8"=1'-0"



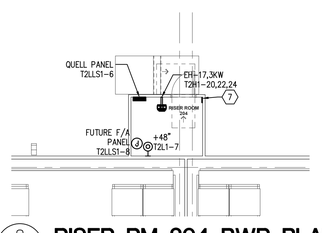
5 EL3.01 **RISER RM 403 LTG PLAN**
SCALE: 1/8"=1'-0"



6 EP3.01 **RISER RM 106 PWR PLAN**
SCALE: 1/8"=1'-0"



7 EP3.01 **RISER RM 203 PWR PLAN**
SCALE: 1/8"=1'-0"



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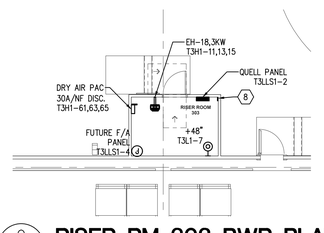

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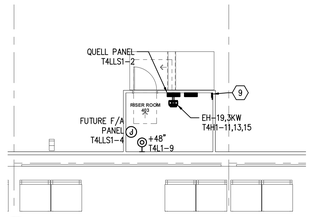
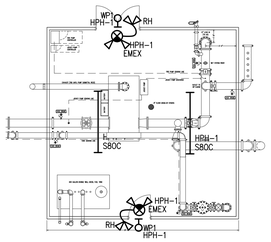
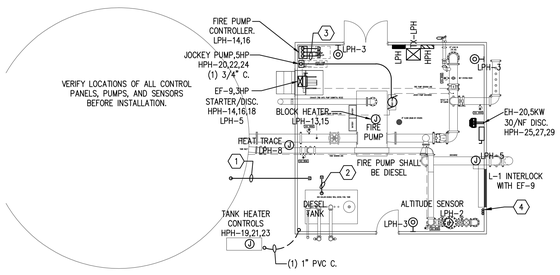
SCALE: 1/8"=1'-0"



10 EP3.01 **RISER RM 403 PWR PLAN**
SCALE: 1/8"=1'-0"



11 EL3.01 **FIRE PUMP ROOM LIGHTING PLAN**
SCALE: 1/8"=1'-0"



12 EL3.01 **FIRE PUMP ROOM POWER PLAN**
SCALE: 1/8"=1'-0"

NORTH

GENERAL NOTES:

1. REFER TO SHEET EG0.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01-.04 FOR SINGLE-LINE DIAGRAM, AND 6.01-.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. COMPRESSION CONNECTORS WITH SEALING LOCK NUTS SHALL BE USED ON PUMPS, AND PUMP CONTROLLERS

CODED NOTES:

1. PROVIDE (3) 1" CONDUITS TO TANK FOR FIRE ALARM, 120V, AND SPARE. KEEP ALL CONDUITS MIN. 5" FROM TANK. STUB INTO BUILDING AT BAR JOIST LEVEL. UTILIZE TANK LADDER FOR CONDUIT SUPPORT. VERIFY LOCATIONS BEFORE INSTALLATION.
2. PROVIDE A 3/4" CONDUIT FROM DIESEL TANK TO FIRE PUMP CONTROLLER. (2) #14 AWG TO LOW FUEL, (2) #14 AWG TO HIGH FUEL.
3. PROVIDE (2) 3/4" CONDUITS FROM FIRE PUMP CONTROLLER TO FIRE PUMP. (1) 3/4" CONDUIT (8) #14 AWG., (1) 3/4" CONDUIT (7) #10 AWG.
4. PROVIDE (3)-2" PVC CONDUITS STUBBED UP TO BAR JOIST FROM RISER ROOM 403.
5. PROVIDE (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 203.
6. PROVIDE (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 106 & (4)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 204.
7. PROVIDE (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 203 & (4)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 303.
8. PROVIDE (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 204 & (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 403.
9. PROVIDE (2)-1" PVC CONDUITS STUBBED UP FROM FIRE RISER ROOM 303 & (3)-2" PVC CONDUITS STUBBED UP FROM FIRE PUMP ROOM.

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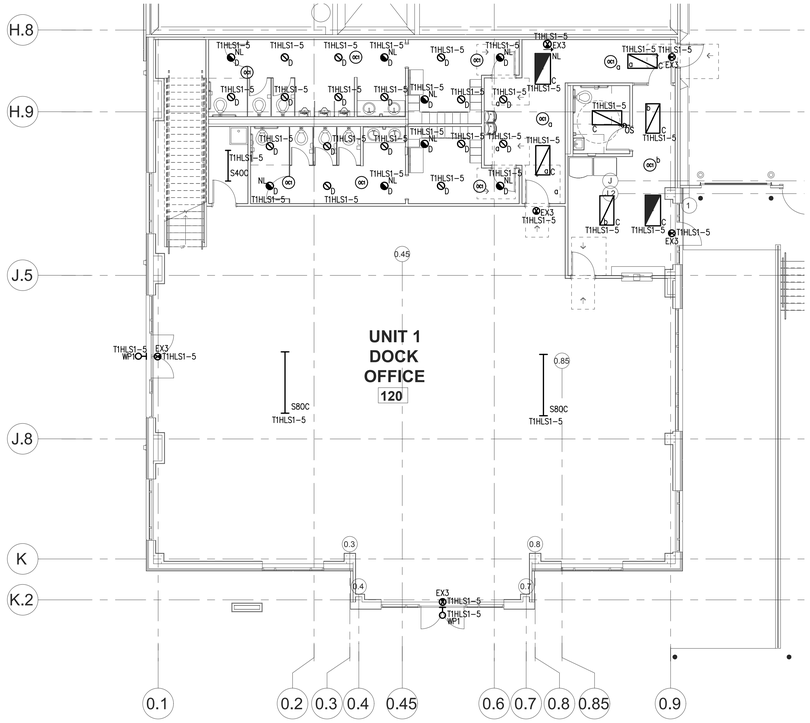
drawing status

project no. 2022-1106.00

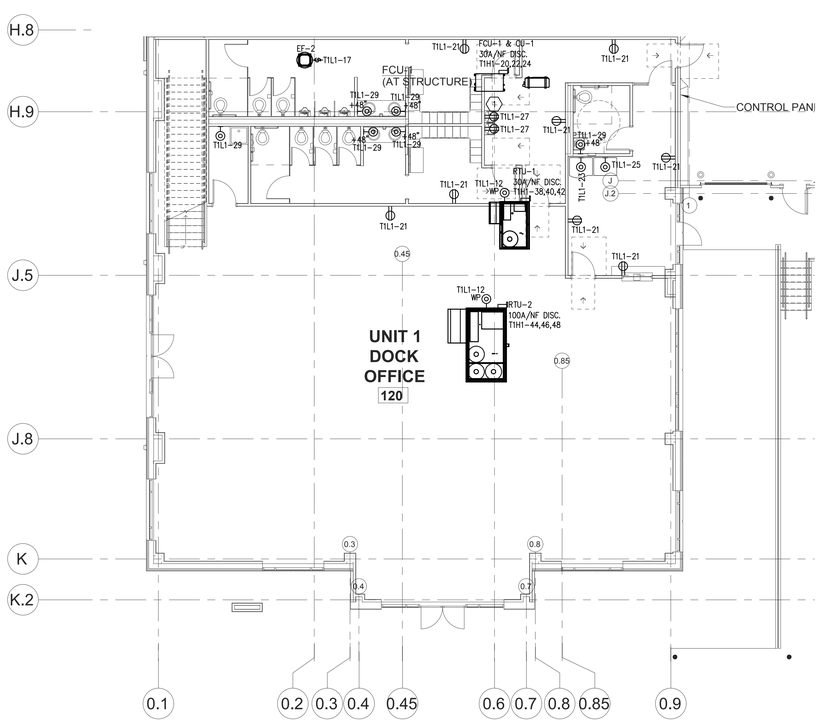
seal

title
ENLARGED ELECTRICAL LIGHTING & POWER PLANS

sheet
ELP3.01



1 ELP3.02 **TENANT #1 OFFICE LIGHTING PLAN**
SCALE: 1/8"=1'-0"



NORTH

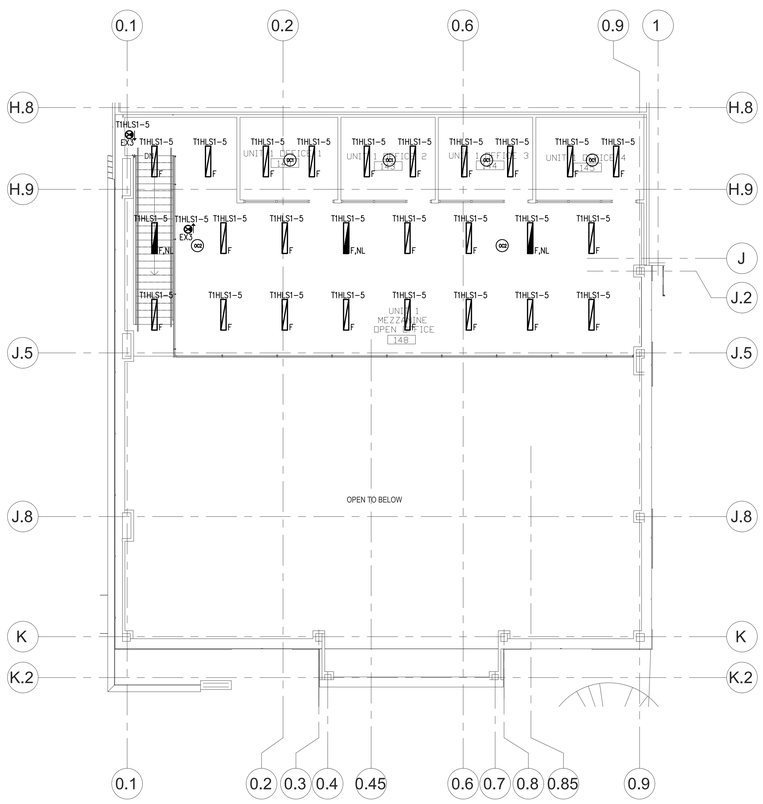
GENERAL NOTES:

1. REFER TO SHEET E00.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01-.04 FOR SINGLE-LINE DIAGRAM, AND 6.01-.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. COMPRESSION CONNECTORS WITH SEALING LOCK NUTS SHALL BE USED ON PUMPS, AND PUMP CONTROLLERS

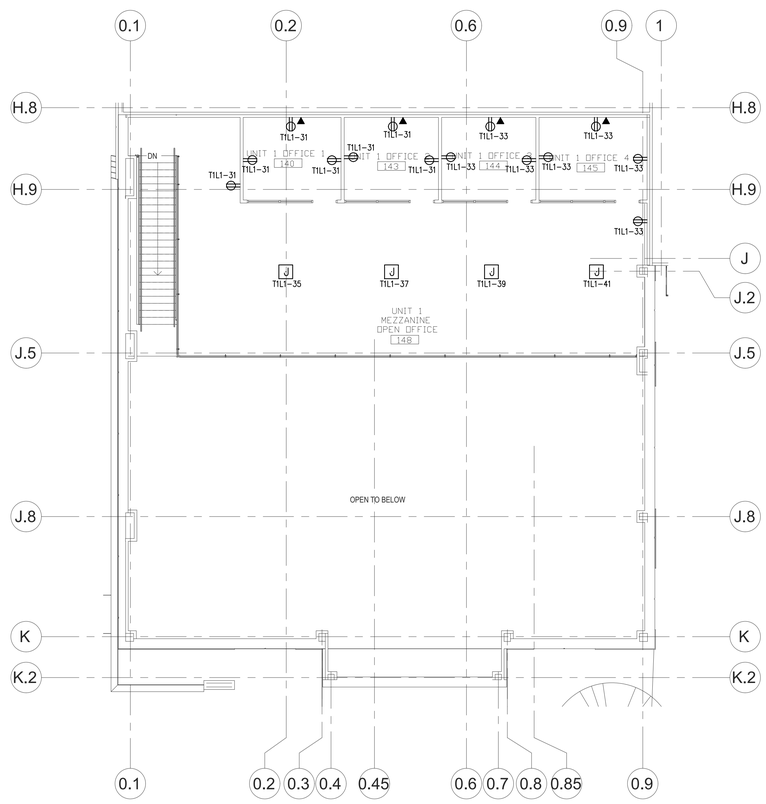
CODED NOTES:

1. PROVIDE RECEPTACLE FOR WATER COOLER CONNECTED TO GFCI BREAKER IN PANEL. VERIFY EXACT MOUNTING LOCATION WITH WATER COOLER INSTALLATION REQUIREMENTS.

2 ELP3.02 **TENANT #1 OFFICE POWER PLAN**
SCALE: 1/8"=1'-0"



3 ELP3.02 **TENANT #1 OFFICE MEZZANINE LIGHTING PLAN**
SCALE: 1/8"=1'-0"



4 ELP3.02 **TENANT #1 OFFICE MEZZANINE POWER PLAN**
SCALE: 1/8"=1'-0"

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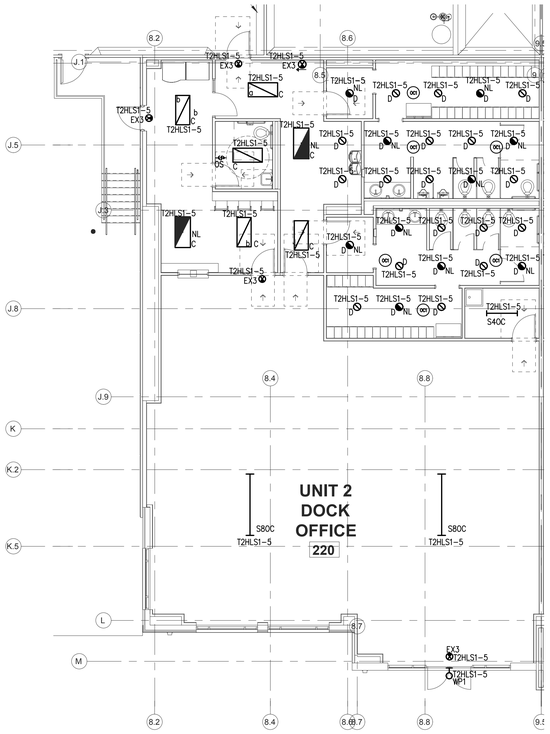
seal

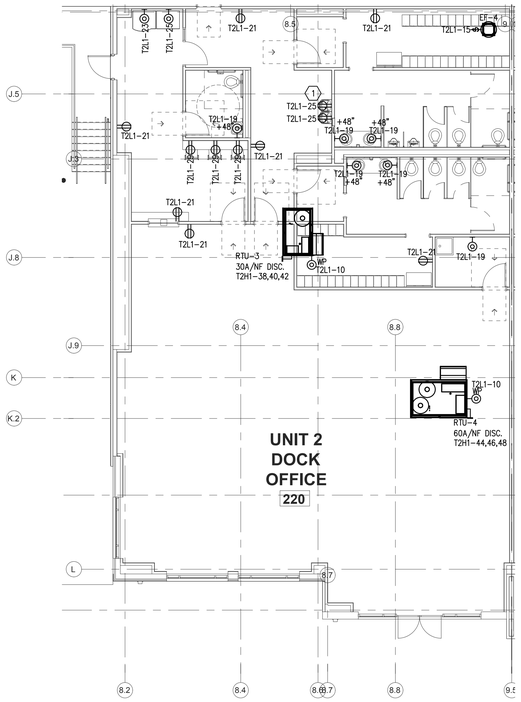
NORTH CAROLINA PROFESSIONAL SEAL No. 16019 ENGINEER CRAIG L. MOLNAR 12/12/2022

title
ENLARGED OFFICE ELECTRICAL LIGHTING & POWER PLANS

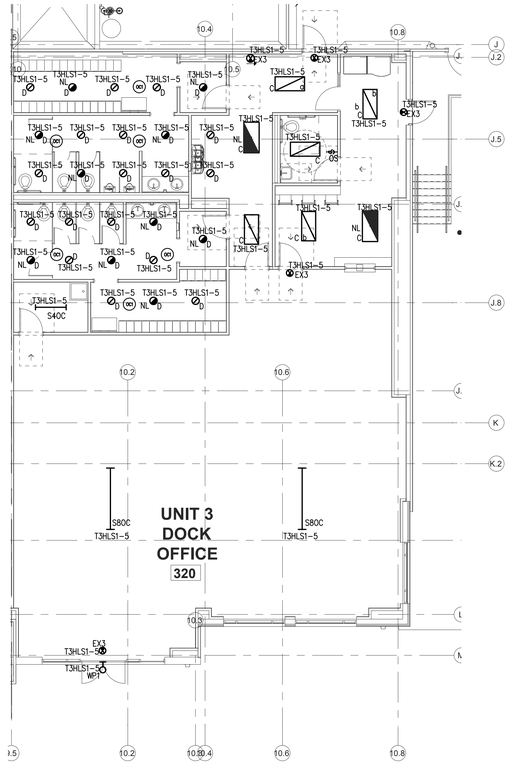
sheet
ELP3.02



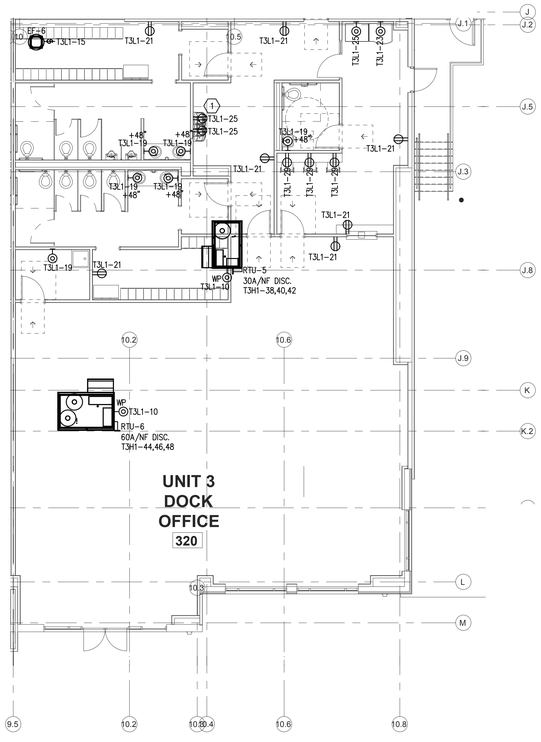
1 ELP3.03 **TENANT #2 OFFICE LIGHTING PLAN**
SCALE: 1/8"=1'-0"



2 ELP3.03 **TENANT #2 OFFICE POWER PLAN**
SCALE: 1/8"=1'-0"



3 ELP3.03 **TENANT #3 OFFICE LIGHTING PLAN**
SCALE: 1/8"=1'-0"



4 ELP3.03 **TENANT #3 OFFICE POWER PLAN**
SCALE: 1/8"=1'-0"

NORTH

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1. REFER TO SHEET E00.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
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3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. COMPRESSION CONNECTORS WITH SEALING LOCK NUTS SHALL BE USED ON PUMPS, AND PUMP CONTROLLERS

CODED NOTES:

1. PROVIDE RECEPTACLE FOR WATER COOLER CONNECTED TO GFCI BREAKER IN PANEL. VERIFY EXACT MOUNTING LOCATION WITH WATER COOLER INSTALLATION REQUIREMENTS.

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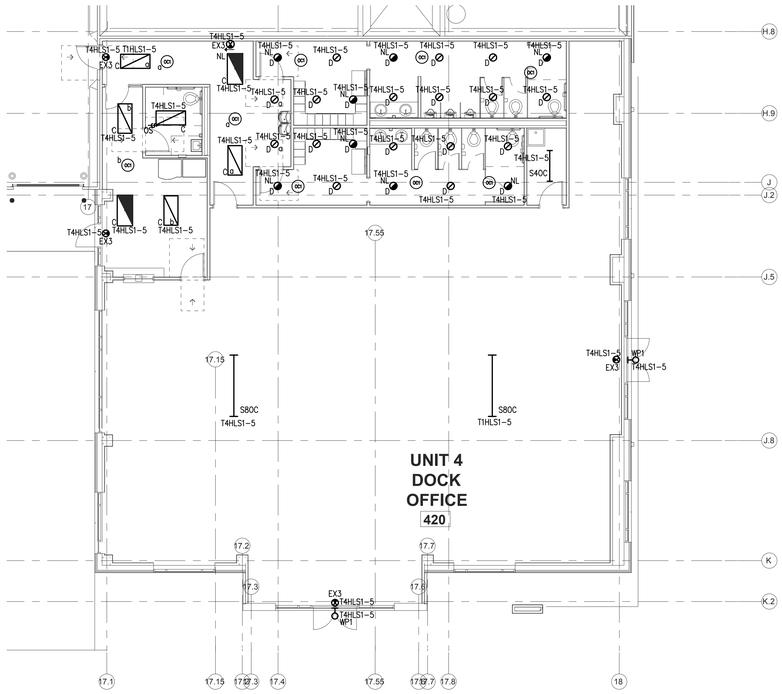
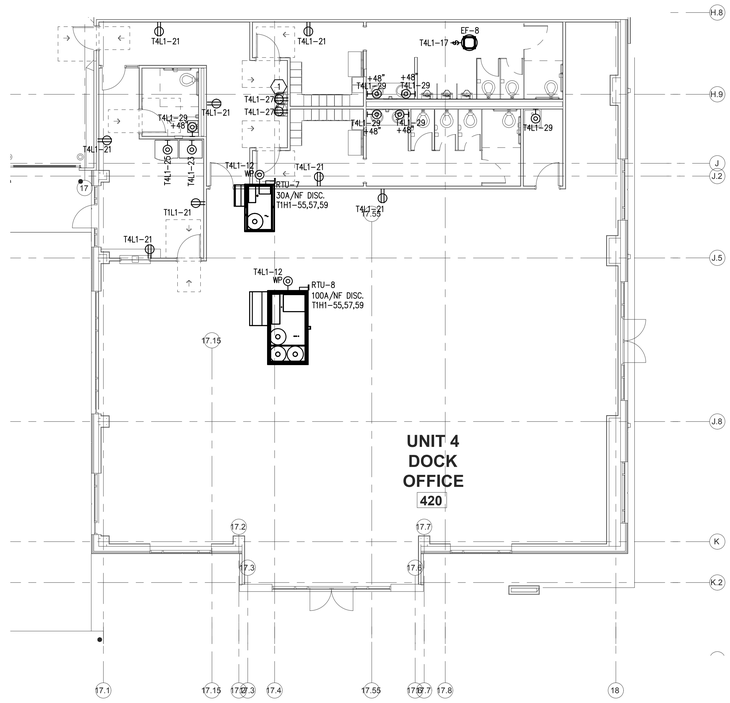
sheet
ELP3.03



1 ELP3.04 **TENANT #4 OFFICE LIGHTING PLAN**

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



2 ELP3.04 **TENANT #4 OFFICE POWER PLAN**

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

NORTH

GENERAL NOTES:

1. REFER TO SHEET E00.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01-.04 FOR SINGLE-LINE DIAGRAM, AND 6.01-.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. COMPRESSION CONNECTORS WITH SEALING LOCK NUTS SHALL BE USED ON PUMPS, AND PUMP CONTROLLERS

CODED NOTES:

1. PROVIDE RECEPTACLE FOR WATER COOLER CONNECTED TO GFCI BREAKER IN PANEL. VERIFY EXACT MOUNTING LOCATION WITH WATER COOLER INSTALLATION REQUIREMENTS.

TOTAL CUSTOMER SATISFACTION

EDGEWOOD ELECTRIC INC.

E-MAIL: info@edgewoodusa.com

CINCINNATI, OHIO OFFICE
939 DUDLEY ROAD
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OFFICE: 859.341.4433
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187 RALEIGH STREET
WILMINGTON, NC

date	description
12/12/2022	ISSUED FOR PERMIT
12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

drawing status

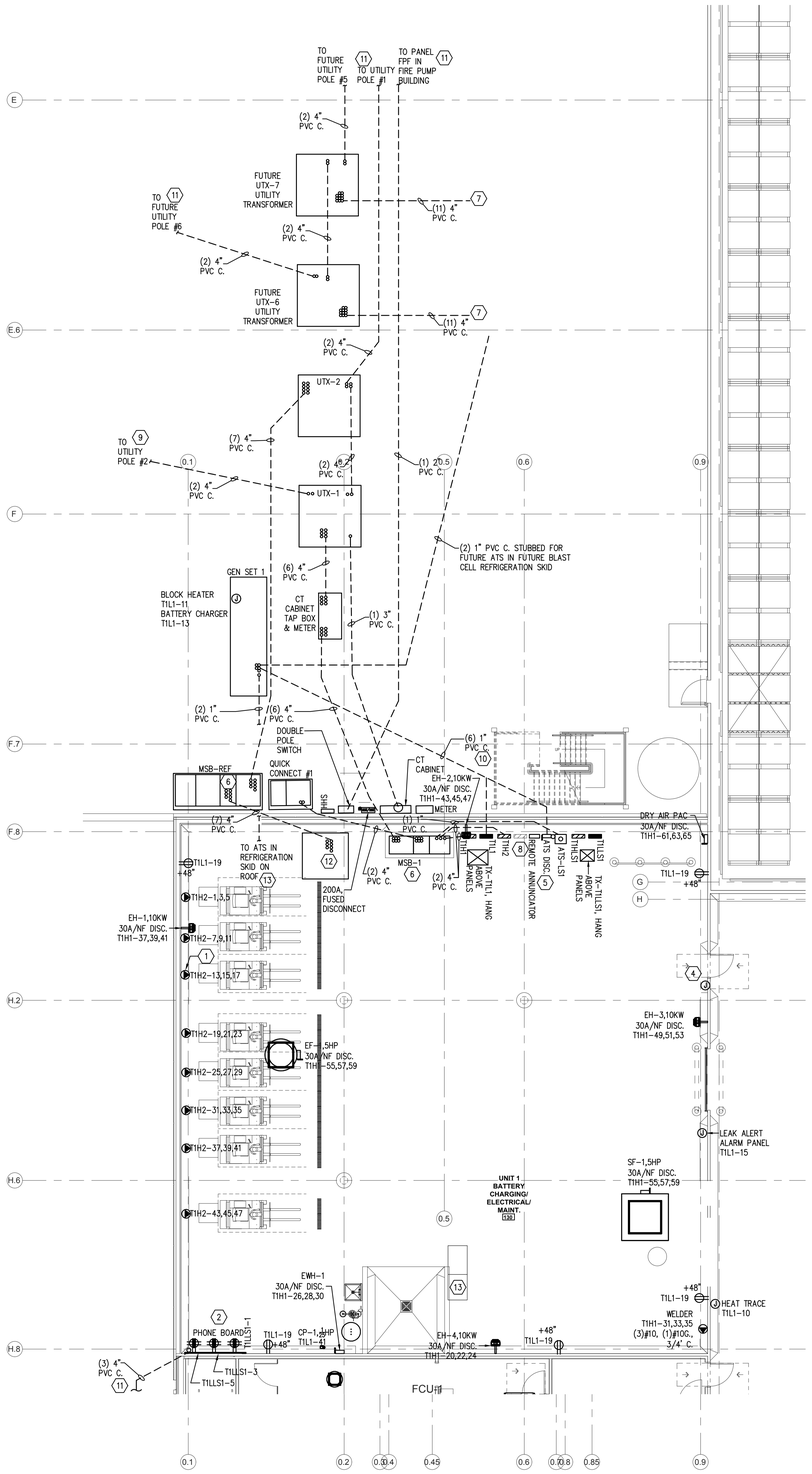
project no. 2022-1106.00

seal

title

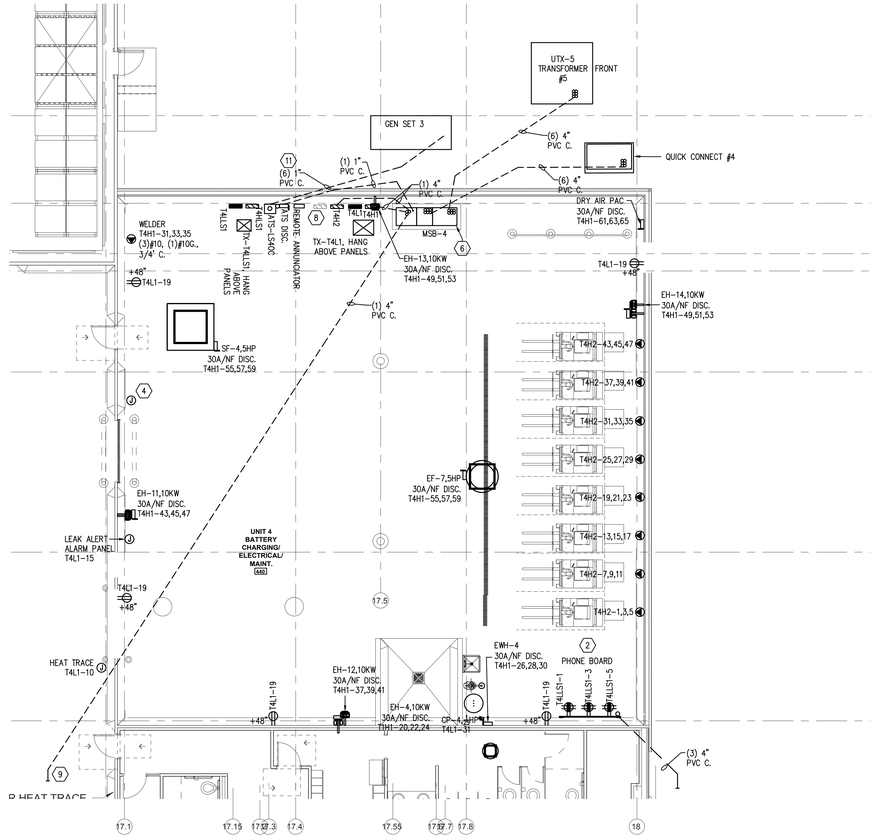
ENLARGED OFFICE ELECTRICAL LIGHTING & POWER PLANS

sheet ELP3.02



1 EP3.01 **BATTERY CHARGING ROOM #1 POWER PLAN**

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



2 EP3.01 **BATTERY CHARGING ROOM #4 POWER PLAN**

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

GENERAL NOTES:

1. REFER TO SHEET EG0.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01-.05 FOR SINGLE-LINE DIAGRAM, AND 6.01-.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. G.C. TO PROVIDE BOLLARD PROTECTION FOR TRANSFORMERS.
8. G.C. TO PROVIDE PHYSICAL PROTECTION FOR ELECTRICAL EQUIPMENT. 48" MIN. CLEARANCE REQUIRED.

CODED NOTES:

1. PROVIDE A 30A, 480V 3-PHASE CIRCUIT TO JUNCTION BOX FOR FUTURE BATTERY CHARGER.TYPICAL OF ALL BATTERY CHARGER LOCATIONS.
2. PROVIDE A GROUND BAR BONDED TO BUILDING STEEL WITH #6 AWG CU. MIN. AT PHONE BOARD.
3. PROVIDE FREE STANDING UNI-STRUT RACK FOR PANELS, AND DISCONNECTS. NO ELECTRICAL EQUIPMENT TO BE ATTACHED TO CONVERTIBLE ROOM WALL.
4. PROVIDE A 4" SQUARE BACKBOX ON WALL AT 48" A.F.F., AND 3/4" EMT CONDUIT TO HVLS FAN (DF-#) FOR FAN CONTROLS. CONTROL WIRING BY OTHERS.
5. COORDINATE LOCATION OF PHYSICAL PROTECTION FOR ELECTRICAL EQUIPMENT. 7'-0" WORKING CLEARANCE REQUIRED.
6. PROVIDE A 1" CONDUIT STUB FROM ELECTRICAL EQUIPMENT TO BAR JOIST FOR CONNECTION TO BMS SYSTEM.
7. STUB CONDUITS OUT 10'-0" FOR FUTURE USE.
8. STUB (8)-1" PVC CONDUITS UP AT LOCATION OF FUTURE REEFER PANEL FROM EACH DOCK DOOR. LEAVE AT LEAST 24" OF SPACE AT THIS LOCATION FOR FUTURE PANEL.
9. SEE SHEET ELP1.00 FOR CONTINUATION OF CONDUITS.
10. (6) 1" PVC CONDUITS FROM GEN SET 1. (2) ROUTED TO BAR JOIST INSIDE BUILDING FOR FIRE ALARM & BMS USE, (1) TO ATS DISCONNECT, (1) TO ATS, (1) TO REMOTE ANNUNCIATOR AND (1) TO PANEL T1L1.
11. (6) 1" PVC CONDUITS FROM GEN SET 3. (2) ROUTED TO BAR JOIST INSIDE BUILDING FOR FIRE ALARM & BMS USE, (1) TO ATS DISCONNECT, (1) TO ATS, (1) TO REMOTE ANNUNCIATOR AND (1) TO PANEL T4L1.
12. EXTEND CONDUITS UP INTO REFRIGERATION SWITCHBOARDS LOCATED IN ROOF TOP PENTHOUSE (PROVIDED BY OTHERS). COORDINATE LOCATION WITH REFRIGERATION CONTRACTOR.
13. EXTEND CONDUITS UP INTO ATS-LSS LOCATED IN ROOF TOP PENTHOUSE. COORDINATE LOCATION WITH REFRIGERATION CONTRACTOR.

NORTH

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11/29/2022	60% PROGRESS DRAWINGS

drawing status

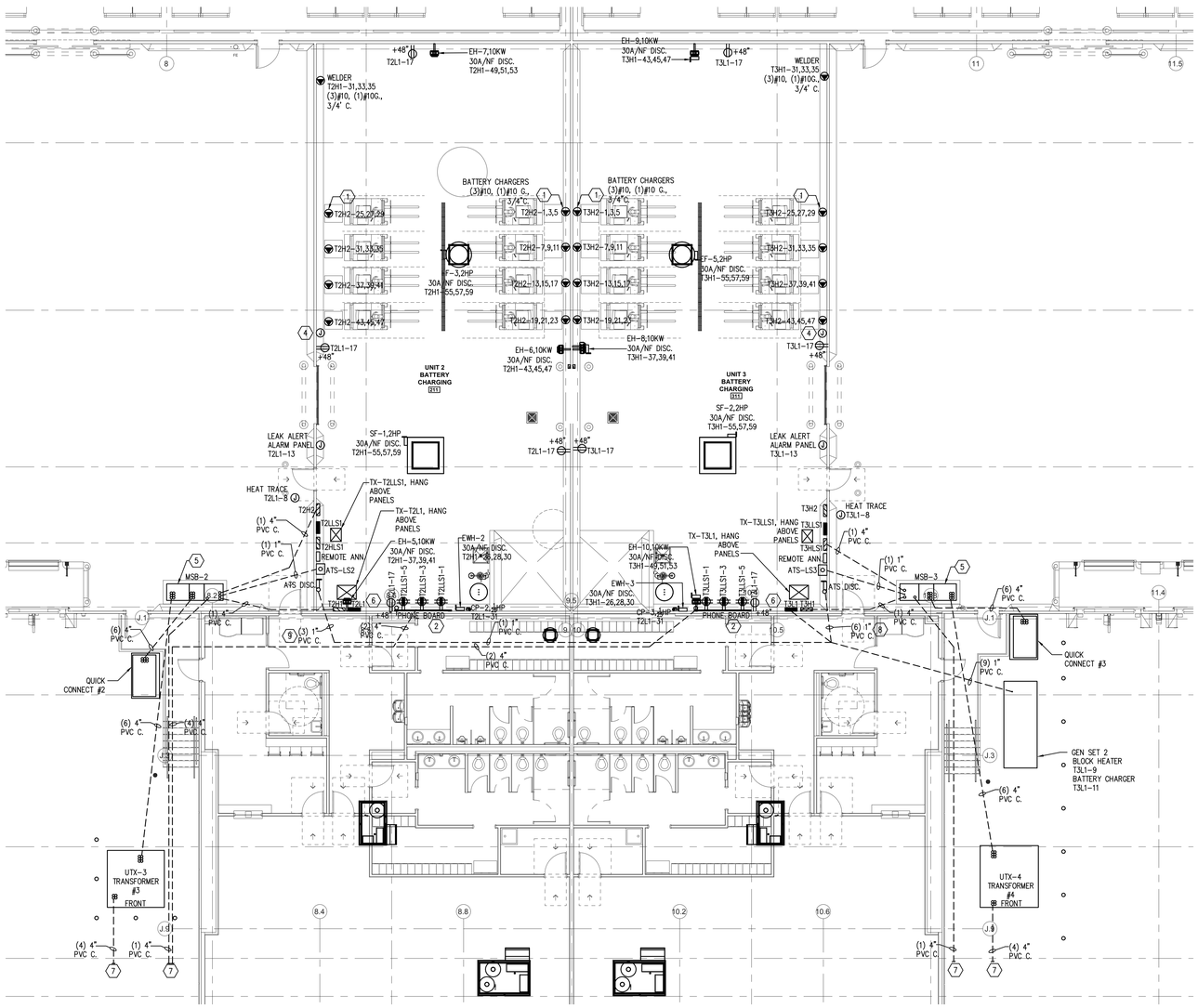
project no. 2022-1106.00

seal

NORTH CAROLINA PROFESSIONAL SEAL No. 16019 ENGINEER CRAIG L. MOLNAR 12/12/2022

title
ENLARGED ELECTRICAL POWER PLANS

sheet
EP3.01



1 EP3.02 **BATTERY CHARGING ROOM #2, #3 POWER PLAN**

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

GENERAL NOTES:

1. REFER TO SHEET EG0.00 FOR LIGHTING AND POWER SYMBOL LEGENDS, AND FIXTURE SCHEDULE.
2. REFER TO SHEET EP5.01-.05 FOR SINGLE-LINE DIAGRAM, AND 6.01-.03 FOR PANELBOARD SCHEDULES.
3. MECHANICAL EQUIPMENT FURNISHED WITH FACTORY DISCONNECT UNLESS SHOWN OTHERWISE.
4. AVOID THE USE OF IN GROUND JUNCTION BOXES WHERE EVER POSSIBLE. IF YOU MUST USE A JUNCTION BOX IN THE GROUND IT IS MANDATORY THAT WATERTIGHT SPLICES BE USED, WITH 10"-12" OF STONE UNDER BOX FOR DRAINAGE.
5. REFER TO SHEET EP4.00 FOR EXTERIOR LIGHTING CONTROL, AND POLE BASE DETAILS.
6. PROVIDE SWEEPING 90'S ON TELEPHONE CONDUITS.
7. G.C. TO PROVIDE BOLLARD PROTECTION FOR TRANSFORMERS.
8. G.C. TO PROVIDE PHYSICAL PROTECTION FOR ELECTRICAL EQUIPMENT. 48" MIN. CLEARANCE REQUIRED.

NORTH

CODED NOTES:

1. PROVIDE A 30A, 480V 3-PHASE CIRCUIT FOR BATTERY CHARGER. VERIFY FINAL EQUIPMENT CONNECTION TYPE (RECEPTACLE OR DISCONNECT), AND MOUNTING HEIGHT BEFORE INSTALLATION.TYPICAL OF ALL BATTERY CHARGER LOCATIONS.
2. PROVIDE A GROUND BAR BONDED TO BUILDING STEEL WITH #6 AWG CU. MIN. AT PHONE BOARD.
3. PROVIDE FREE STANDING UNI-STRUT RACK FOR PANELS, AND DISCONNECTS. NO ELECTRICAL EQUIPMENT TO BE ATTACHED TO CONVERTIBLE ROOM WALL.
4. PROVIDE A 4" SQUARE BACKBOX ON WALL AT 48" A.F.F., AND 3/4" EMT CONDUIT TO H.V.LS FAN (DF-#) FOR FAN CONTROLS. CONTROL WIRING BY OTHERS.
5. PROVIDE A 1" CONDUIT STUB FROM ELECTRICAL EQUIPMENT TO BAR JOIST FOR CONNECTION TO BMS SYSTEM.
6. STUB (8)-1" PVC CONDUITS UP AT LOCATION OF FUTURE REEFER PANEL FROM EACH DOCK DOOR. LEAVE AT LEAST 24" OF SPACE AT THIS LOCATION FOR FUTURE PANEL.
7. SEE SHEET ELP1.00 FOR CONTINUATION OF CONDUITS.
8. (6) 1" PVC CONDUITS FROM GEN SET 2. (2) ROUTED TO BAR JOIST INSIDE BUILDING FOR FIRE ALARM & BMS USE, (1) TO ATS DISCONNECT, (1) TO ATS, (1) TO REMOTE ANNUNCIATOR AND (1) TO PANEL T3L1.
9. (3) 1" PVC CONDUITS FROM GEN SET 2. (1) TO ATS DISCONNECT, (1) TO ATS, (1) TO REMOTE ANNUNCIATOR..

TOTAL CUSTOMER SATISFACTION

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12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

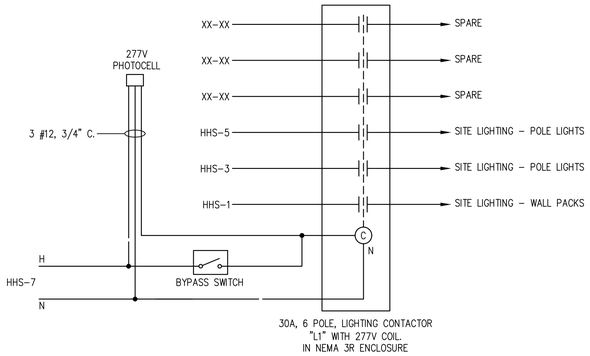
drawing status

project no. 2022-1106.00

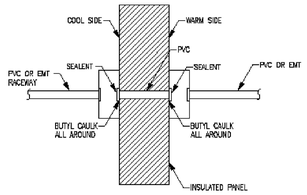
seal

title
ENLARGED
ELECTRICAL
POWER PLANS

sheet EP3.02



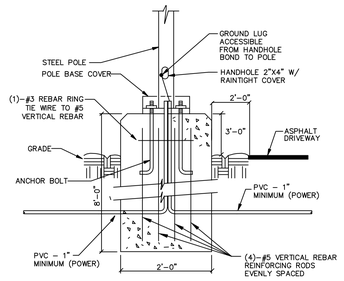
1 EP4.00 **EXTERIOR LIGHTING CONTROL DETAILS**
SCALE: NONE



NOTES:

1. HOLES THROUGH IMP SHALL BE OVERSIZED BY APPROXIMATELY 1/2" GREATER THAN THE FINAL ASSEMBLY OF THE MATERIAL PASSING THROUGH THE IMP. BREAK CONDUIT AT THE PENETRATION WITH A PVC NIPPLE AND A JUNCTION BOX ON THE WARMER OR BOTH SIDES OF THE WALL. JUNCTION BOX SHALL BE SEALED TO THE SURFACE OF THE WALL USING NP-1 OR APPROVED EQUAL CAULKING. AFTER INSTALLATION OF THE CONDUIT AND BOX ON THE WARM SIDE OF THE WALL, THE VOID BETWEEN PVC NIPPLE AND IMP WALL SHALL BE FILLED WITH EXPANSIVE FOAM. FOAM SHALL BE TRIMMED FLUSH WITH WALL, AND THE ASSEMBLY CAULKED TO THE WALL WITH NP-1 OR APPROVED EQUAL CAULKING. AN ESCUTCHEON SHALL BE INSTALLED ON THE PENETRATION ON THE COLD SIDE OF THE WALL IF A JUNCTION BOX IS NOT INSTALLED. AFTER WIRE PULLS ARE COMPLETE THE INSIDE OF THE NIPPLE PENETRATING THE WALL SHALL BE FILLED WITH EXPANSIVE FOAM ENSURING COMPLETE COVERAGE AROUND THE WIRE PULL.
2. PENETRATIONS THROUGH CMU OR OTHER MATERIALS MUST BE FOAM FILLED.
3. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH FIRE STOP EXPANSIVE FOAM IN ACCORDANCE WITH APPLICABLE CODE.

2 EP4.00 **COOLER/FREEZER PENETRATION DETAIL**
SCALE: NONE



3 EP4.00 **LIGHTPOLE BASE DETAIL**
SCALE: NONE

COMcheck Software Version 4.1.5.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Cold Storage Wilmington
Project Type: New Construction

Construction Site:
187 Raleigh Street
Wilmington, NC

Owner/Agent:
Cold Summit Development
333 South N Main St
Ketchum, ID 83340

Designer/Contractor:
Rick Strasemeier
Edgewood Electric
535 Dudley Pike
Edgewood, KY 41017
859-801-3433

Additional Efficiency Package(s)

Unspecified

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-FREEZER (Warehouse)	50541	0.66	33357
2-FREEZER (Warehouse)	50541	0.66	33357
3-FREEZER (Warehouse)	50541	0.66	33357
4-FREEZER (Warehouse)	50067	0.66	33044
5-DOCK AREA (Warehouse)	12198	0.66	8051
6-DOCK AREA (Warehouse)	12123	0.66	8001
7-DOCK AREA (Warehouse)	12057	0.66	7958
8-DOCK AREA (Warehouse)	12130	0.66	8006
9-DOCK AREA (Warehouse)	12130	0.66	8006
10-BATT. CH. RM (Workshop)	4736	1.19	5636
11-BATT. CH. RM (Workshop)	2841	1.19	3381
12-BATT. CH. RM (Workshop)	2841	1.19	3381
13-BATT. CH. RM (Workshop)	4736	1.19	5636
14-OFFICE 1 (Office)	6601	0.82	5413
15-OFFICE 2 (Office)	3799	0.82	3115
16-OFFICE 3 (Office)	3799	0.82	3115
17-OFFICE 4 (Office)	4680	0.82	3838
		Total Allowed Watts =	208655

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-FREEZER (Warehouse)				
LED 1: Other:	1	42	232	9744
2-FREEZER (Warehouse)				
LED 2: Other:	1	42	232	9744
3-FREEZER (Warehouse)				
LED 3: Other:	1	42	232	9744
4-FREEZER (Warehouse)				
LED 4: Other:	1	42	232	9744
5-DOCK AREA (Warehouse)				
LED 5: Other:	1	18	232	4176
6-DOCK AREA (Warehouse)				
LED 6: Other:	1	18	232	4176
7-DOCK AREA (Warehouse)				
LED 7: Other:	1	18	232	4176
8-DOCK AREA (Warehouse)				
LED 8: Other:	1	18	232	4176
9-DOCK AREA (Warehouse)				
LED 9: Other:	1	18	232	4176
10-BATT. CH. RM (Workshop)				
LED 10: Other:	1	12	232	2784
11-BATT. CH. RM (Workshop)				
LED 11: Other:	1	8	232	1856
12-BATT. CH. RM (Workshop)				
LED 12: Other:	1	8	232	1856
13-BATT. CH. RM (Workshop)				
LED 13: Other:	1	12	232	2784
14-OFFICE 1 (Office)				
LED 14: Other:	1	7	40	280
LED 16: Other:	1	2	75	150
LED 17: Other:	1	24	11	264
LED 18: Other:	1	1	47	47
LED 18: Other:	1	26	62	1612
15-OFFICE 2 (Office)				
LED 20: Other:	1	7	40	280
LED 21: Other:	1	27	11	297
LED 22: Other:	1	1	47	47
16-OFFICE 3 (Office)				
LED 23: Other:	1	7	40	280
LED 23: Other:	1	27	11	297
LED 24: Other:	1	1	47	47
17-OFFICE 4 (Office)				
LED 25: Other:	1	7	40	280
LED 26: Other:	1	24	11	264
LED 27: Other:	1	1	47	47
			Total Proposed Watts =	73328

Interior Lighting PASSES: Design 65% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Rick Strasemeier — Name - Title
Rick Strasemeier — Signature
12/08/2022 — Date

Project Title: Cold Storage Wilmington — Report date: 12/08/22
Data filename: \\eserver\drawings\COMMON\DOCUMENT\FCL\GE Dayton\ComCheck\CSD Wilmington.cck — Page 1 of 9

Project Title: Cold Storage Wilmington — Report date: 12/08/22
Data filename: \\eserver\drawings\COMMON\DOCUMENT\FCL\GE Dayton\ComCheck\CSD Wilmington.cck — Page 2 of 9

COMcheck Software Version 4.1.5.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Cold Storage Wilmington
Project Type: New Construction
Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use)

Construction Site:
187 Raleigh Street
Wilmington, NC

Owner/Agent:
Cold Summit Development
333 South N Main St
Ketchum, ID 83340

Designer/Contractor:
Rick Strasemeier
Edgewood Electric
535 Dudley Pike
Edgewood, KY 41017
859-801-3433

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Tenant 1 Parking (Parking area)	50000 ft2	0.06	Yes	3000
Tenant 4 Parking (Parking area)	40000 ft2	0.06	Yes	2400
Rear Parking Lot (Parking area)	25000 ft2	0.06	Yes	1500
Dock Areas (Parking area)	115785 ft2	0.06	Yes	6947
Entry Drive (Driveway)	21000 ft2	0.06	Yes	1260
			Total Tradable Watts (a) =	15107
			Total Allowed Watts =	15107
			Total Allowed Supplemental Watts (b) =	600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Tenant 1 Parking (Parking area 50000 ft2): Tradable Wattage				
LED 1: LED Roadway-Parking Unit 110W:	4	5	113	565
Tenant 4 Parking (Parking area 40000 ft2): Tradable Wattage				
LED 2: LED Roadway-Parking Unit 110W:	4	6	113	678
Rear Parking Lot (Parking area 25000 ft2): Tradable Wattage				
LED 3: LED Roadway-Parking Unit 110W:	4	5	113	565
Dock Areas (Parking area 115785 ft2): Tradable Wattage				
LED 4: LED Roadway-Parking Unit 110W:	4	9	113	1017
Entry Drive (Driveway 21000 ft2): Tradable Wattage				
LED 5: LED Roadway-Parking Unit 110W:	4	3	113	339
			Total Tradable Proposed Watts =	3164

Exterior Lighting PASSES: Design 80% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Rick Strasemeier — Name - Title
Rick Strasemeier — Signature
12/08/2022 — Date

Project Title: Cold Storage Wilmington — Report date: 12/08/22
Data filename: \\eserver\drawings\COMMON\DOCUMENT\FCL\GE Dayton\ComCheck\CSD Wilmington.cck — Page 3 of 9

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12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

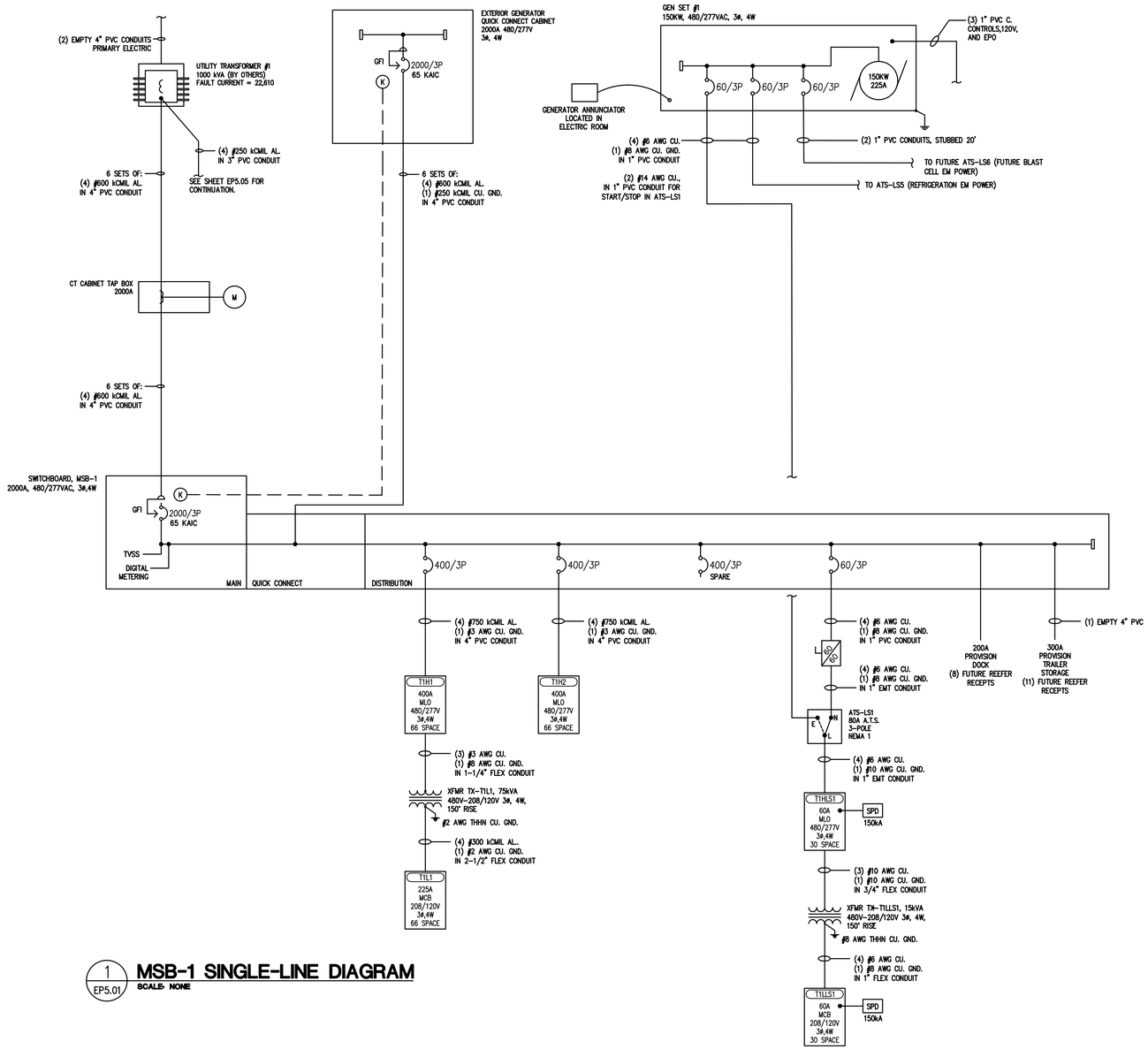
drawing status

project no. 2022-1106.00

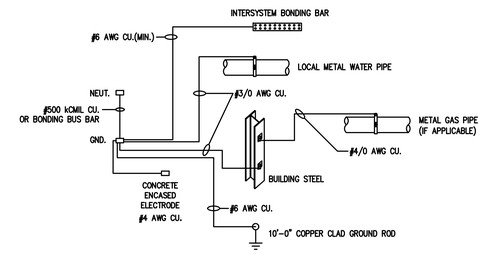
seal

title
ELECTRICAL DETAILS

sheet
EP4.00



1 EP5.01 **MSB-1 SINGLE-LINE DIAGRAM**
SCALE: NONE



2 EP5.01 **MSB-1 GROUNDING DETAIL**
SCALE: NONE

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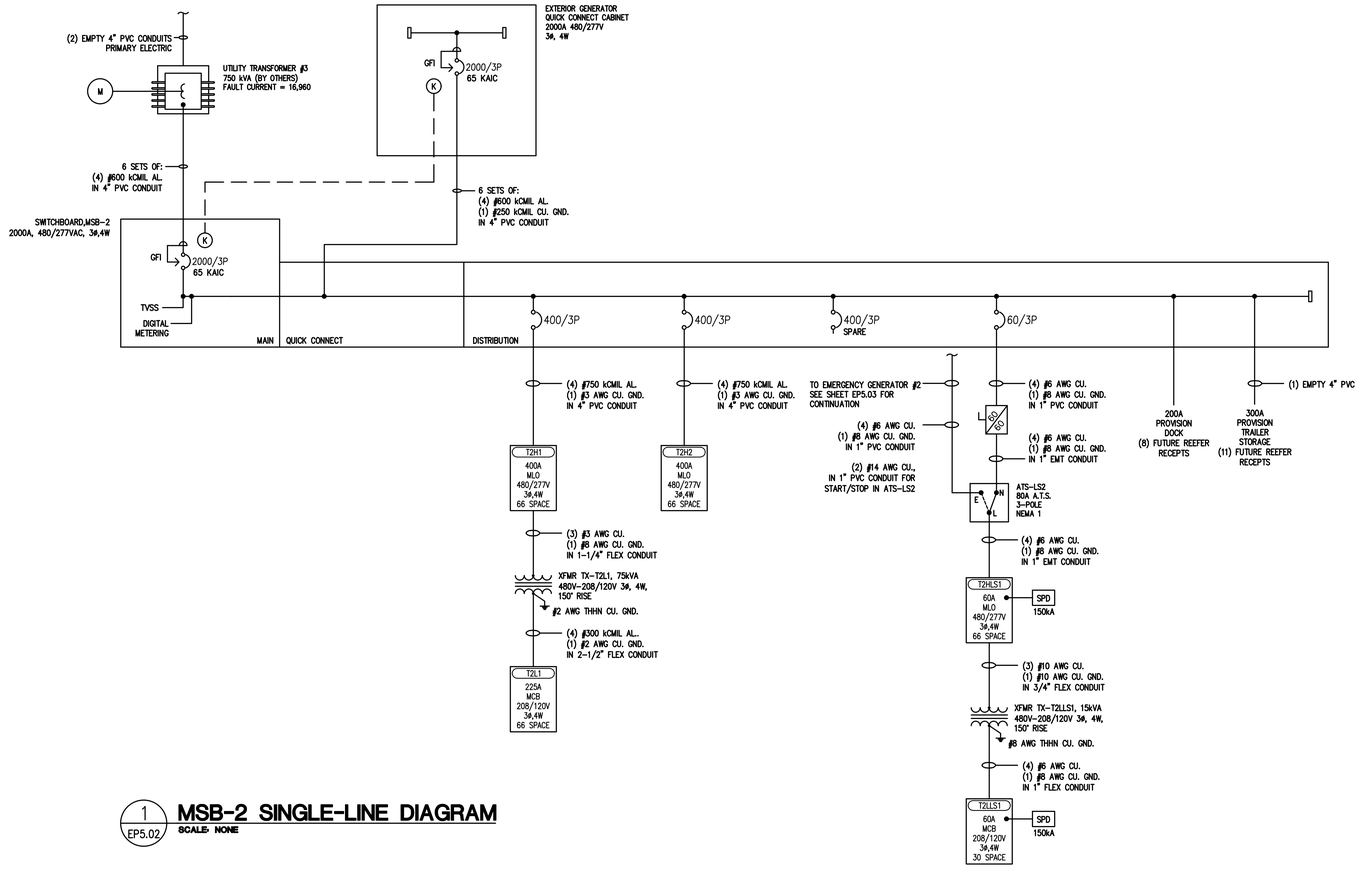
d r a w i n g s t a t u s

project no. 2022-1106.00

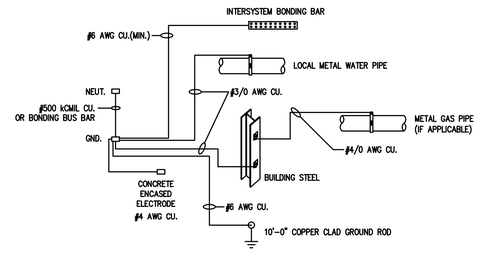
seal

title
ELECTRICAL SINGLE-LINE DIAGRAM SERVICE #1 (MSB-1)

sheet
EP5.01



1 EP5.02 **MSB-2 SINGLE-LINE DIAGRAM**
SCALE: NONE



2 EP5.02 **MSB-2 GROUNDING DETAIL**
SCALE: NONE

EDGEWOOD ELECTRIC INC.
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12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

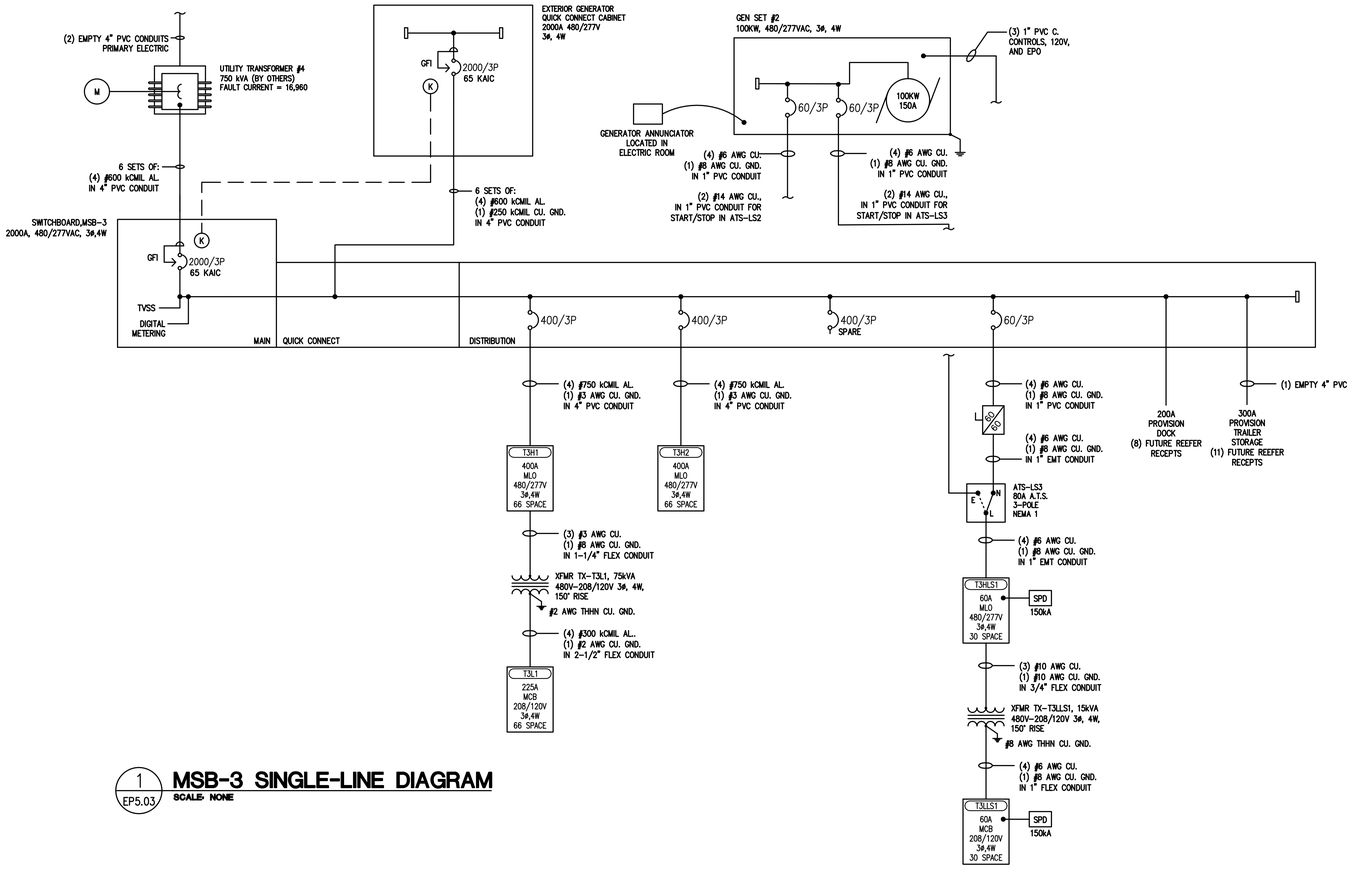
drawing status

project no. 2022-1106.00

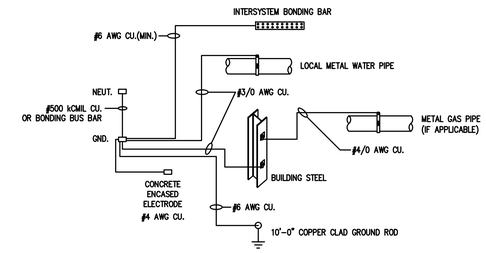
seal

title
ELECTRICAL SINGLE-LINE DIAGRAM SERVICE #2 (MSB-2)

sheet
EP5.02



1 EP5.03 **MSB-3 SINGLE-LINE DIAGRAM**
SCALE: NONE



2 EP5.0 **MSB-3 GROUNDING DETAIL**
SCALE: 3

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11/29/2022	60% PROGRESS DRAWINGS

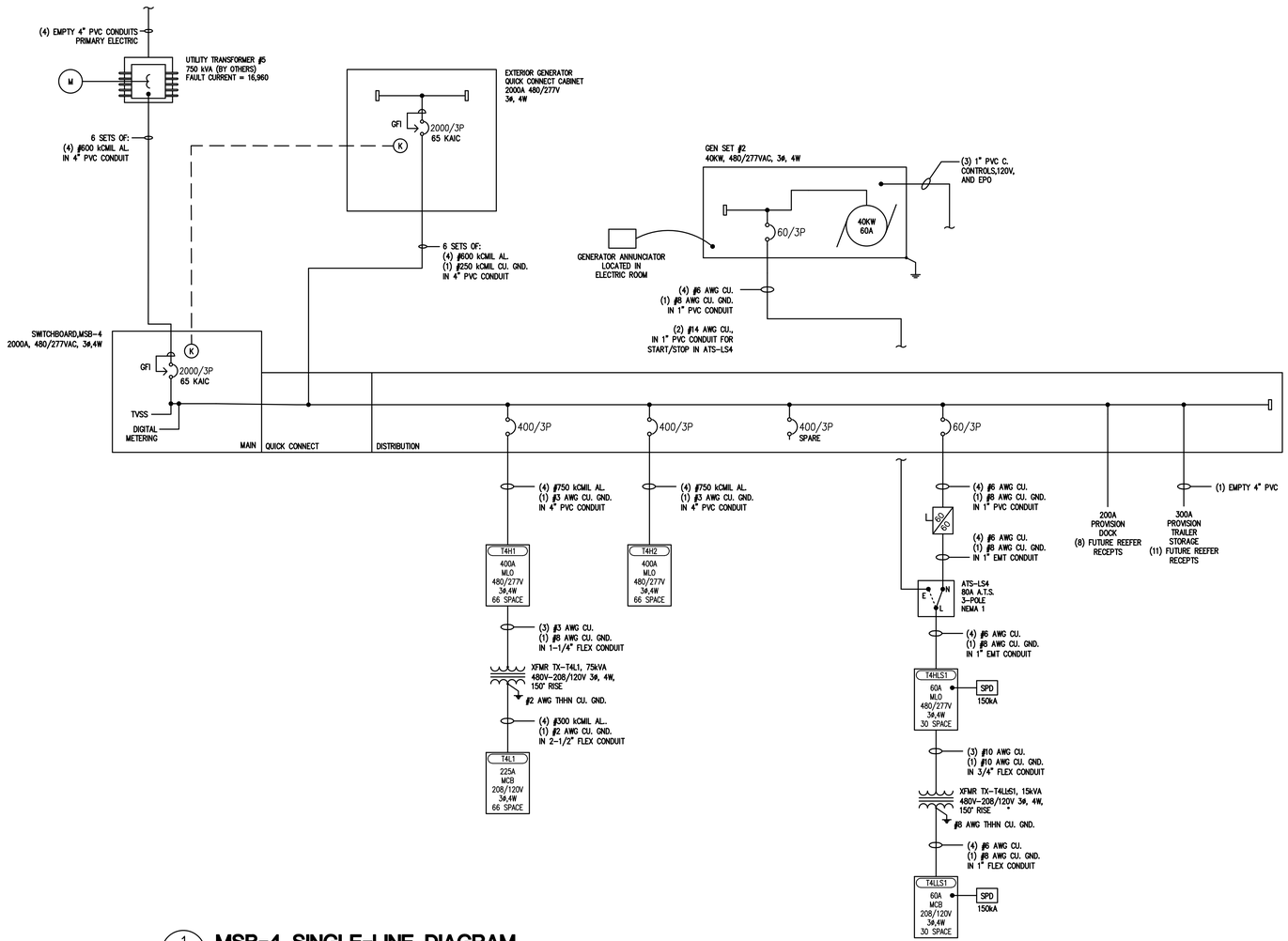
drawing status

project no. 2022-1106.00

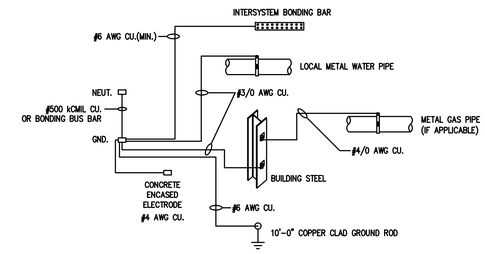
seal

title
ELECTRICAL SINGLE-LINE DIAGRAM SERVICE #4 (MSB-3)

sheet EP5.03



1 EP5.04 **MSB-4 SINGLE-LINE DIAGRAM**
SCALE: NONE



2 EP5.04 **MSB-4 GROUNDING DETAIL**
SCALE: NONE

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date	description
12/12/2022	ISSUED FOR PERMIT
12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

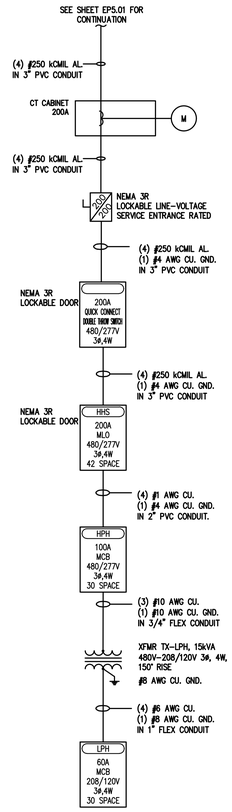
d r a w i n g s t a t u s

project no. 2022-1106.00

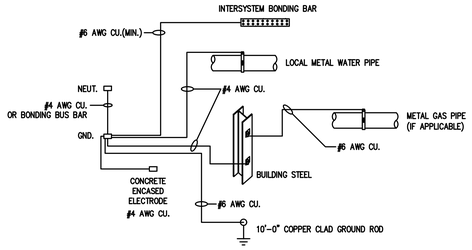
seal

title
ELECTRICAL SINGLE-LINE DIAGRAM SERVICE #4 (MSB-4)

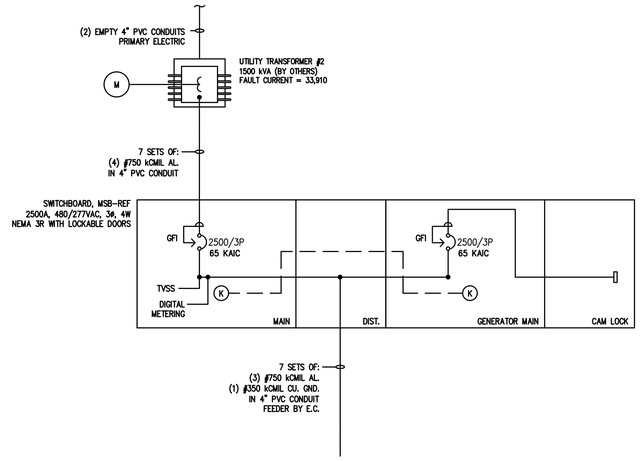
sheet
EP5.04



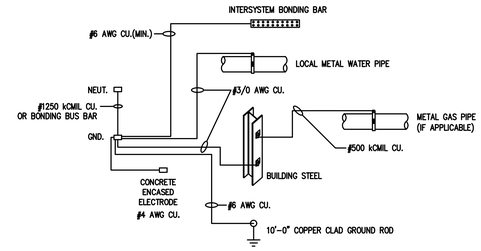
1 EP5.05 **HHS SINGLE-LINE DIAGRAM**
SCALE: NONE



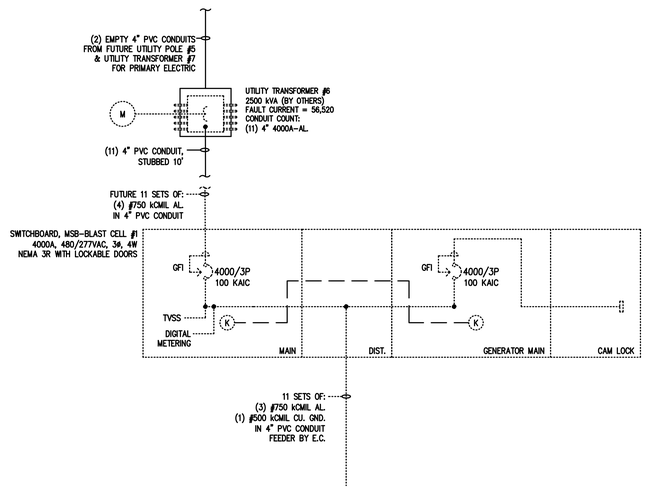
2 EP5.05 **HHS GROUNDING DETAIL**
SCALE: NONE



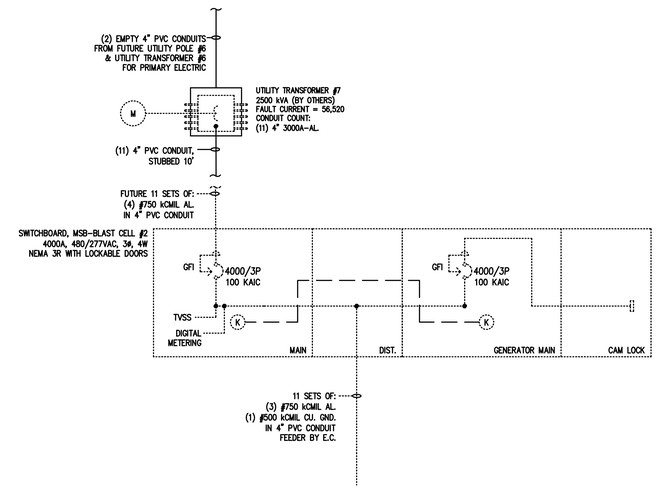
3 EP5.05 **MSB-REF SINGLE-LINE DIAGRAM**
SCALE: NONE



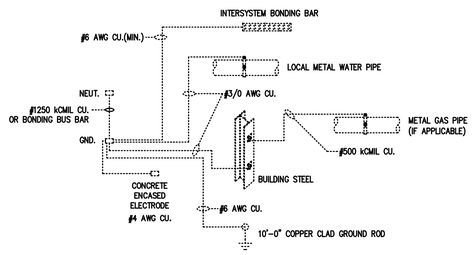
4 EP5.05 **MSB-REF GROUNDING DETAIL**
SCALE: NONE



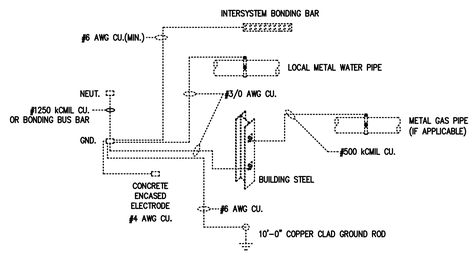
5 EP5.05 **FUTURE MSB-BLAST CELL #1 SINGLE-LINE DIAGRAM**
SCALE: NONE



7 EP5.05 **FUTURE MSB-BLAST CELL #2 SINGLE-LINE DIAGRAM**
SCALE: NONE



6 EP5.05 **FUTURE MSB-BLAST #1 CELL GROUNDING DETAIL**
SCALE: NONE



8 EP5.05 **FUTURE MSB-BLAST #2 CELL GROUNDING DETAIL**
SCALE: NONE

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date	description
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12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

drawing status

project no. 2022-1106.00

seal

title
ELECTRICAL SINGLE-LINE DIAGRAM HOUSE & MSB-REF SERVICES

sheet EP5.05

PANELBOARD SCHEDULE MSB-1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Circuit Breaker	2,000 Amps	Surface		UTIL.

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	400	3	PANEL T1H1	99,326			5,005			PANEL T1HLS1	3	60	2
3					97,044			3,590					4
5						96,039			3,297				6
7	400	3	PANEL T1H2	58,170			27,920			200A PROVISION (FUTURE)			8
9					58,170			27,920					10
11						58,170			27,920				12
13	400	3	SPARE	---			38,390			300A PROVISION (FUTURE)			14
15					---			38,390					16
17						---			38,390				18
19				---			---						20
21					---			---					22
23						---			---				24

Connected Load Phase A	228,811 Watts
Connected Load Phase B	225,114 Watts
Connected Load Phase C	223,816 Watts
Total Connected Load	677,741 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	677,741	89%	606,072
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			606,072
Total Connected Ampacity:			729
Total Connected Load %:			36%
Ampacity Provided:			2000

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	2000
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE MSB-2

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Circuit Breaker	2,000 Amps	Surface		UTIL.

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	400	3	PANEL T2H1	76,669			5,810			PANEL T2HLS1	3	60	2
3					71,246			3,590					4
5						69,085			2,695				6
7	400	3	PANEL T2H2	58,170			27,920			200A PROVISION (FUTURE)			8
9					58,170			27,920					10
11						58,170			27,920				12
13	400	3	SPARE	---			38,390			300A PROVISION (FUTURE)			14
15					---			38,390					16
17						---			38,390				18
19				---			---						20
21					---			---					22
23						---			---				24

Connected Load Phase A	206,959 Watts
Connected Load Phase B	199,316 Watts
Connected Load Phase C	196,260 Watts
Total Connected Load	602,535 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	602,535	91%	546,374
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			546,374
Total Connected Ampacity:			657
Total Connected Load %:			33%
Ampacity Provided:			2000

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	2000A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE T2HLS1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	60 Amps	Surface		MSB-2

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	EM/EX/NL – FREEZER #2 *	3,010			---			SPARE	3	20	2
3	20	1	EM/EX/NL – DOCK #2 *		1,690			---					4
5	20	1	LIGHTING OFFICE			795			---				6
7	20	1	SPARE	---			---						8
9	20	1	SPARE		---			---					10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19	30	3	SURGE SUPPRESSION	---			2,800			XFMR TX-T2LLS1 15KVA	3	25	20
21					---			1,900					22
23						---			1,900				24
25				---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	5,810 Watts
Connected Load Phase B	3,590 Watts
Connected Load Phase C	2,695 Watts
Total Connected Load	12,095 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	5,495	125%	6,869
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	6,600	100%	6,600
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			13,469
Total Connected Ampacity:			16
Total Connected Load %:			27%
Ampacity Provided:			60

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Mains	60A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	TOP

PANELBOARD SCHEDULE T2LLS1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker	60 Amps	Surface		T2HLS1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	PHONE BOARD – 211	1,000			900			QUELL PANELS RISER RM 203	1	20	2
3	20	1	SECURITY RECEPT – 211		1,000			900		FA PANELS RISER RM 203	1	20	4
5	20	1	SECURITY RECEPT – 211			1,000			900	QUELL PANELS RISER RM 204	1	20	6
7	20	1	SPARE	---			900			FA PANELS RISER RM 204	1	20	8
9	20	1	SPARE		---			---		SPARE	1	20	10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			---						20
21					---			---					22
23						---			---				24
25				---			---			SURGE SUPPRESSION	3	30	26
27					---			---					28
29						---			---				30

Connected Load Phase A	2,800 Watts
Connected Load Phase B	1,900 Watts
Connected Load Phase C	1,900 Watts
Total Connected Load	6,600 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	6,600	100%	6,600
Sub-Total:			6,600
Total Connected Ampacity:			18
Total Connected Load %:			31%
Ampacity Provided:			60

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Mains	60A
Short Circuit Rating	10 KAIC
Enclosure	NEMA 1
Feed From	TOP

PANELBOARD SCHEDULE T1H1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	400 Amps	Surface		MSB-1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – FREEZER #1	1,392			4,434			DOCK CONTROLLERS – 110	3	20	2
3	20	1	LIGHTING – FREEZER #1		2,784			4,434					4
5	20	1	LIGHTING – FREEZER #1			2,784			4,434				6
7	20	1	LIGHTING – DOCK #1	2,896			4,434			DOCK CONTROLLERS – 110	3	20	8
9	20	1	LIGHTING BATT. CH. RM. 130		2,552			4,434					10
11	20	1	SPARE			---			4,434				12
13	20	1	EH-15 RISER ROOM 106	1,000			2,956			DOCK CONTROLLERS – 110	3	20	14
15					1,000			2,956					16
17						1,000			2,956				18
19	20	3	ROLL/OHD DOORS – 110	3,407			3,333			EH-4 – 130	3	20	20
21					3,407			3,333					22
23						3,407			3,333				24
25	20	3	BI-PART DOORS – 110	4,155			6,000			EWH-1	3	20	26
27					4,155			3,000					28
29						4,155			3,000				30
31	30	3	WELDER -130	6,094			5,706			FCU-1 & CU-1	1	25	32
33					6,094			5,706					34
35						9,064			5,706				36
37	20	3	EH-1 – 130	3,333			16,667			OFFICE RTU-1	3	90	38
39					3,333			16,667					40
41						3,333			16,667				42
43	20	3	EH-2 – 130	3,333			6,648			OFFICE RTU-2	3	30	44
45					3,333			6,648					46
47						3,333			6,648				48
49	20	3	EH-3 – 130	3,333			3,878			SPARE (FUTURE COMPACT.)	3	30	50
51					3,333			3,878					52
53						3,333			3,878				54
55	20	3	EF-1/SF-1	4,210			10,400			XFMR TX-T1L1 75KVA	3	100	56
57					4,210			10,070					58
59						4,210			8,647				60
61	20	3	DRY AIR PAK – 130	1,717			---						62
63					1,717			---					64
65						1,717			---				66

Connected Load Phase A	99,326 Watts
Connected Load Phase B	97,044 Watts
Connected Load Phase C	96,039 Watts
Total Connected Load	292,409 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	12,408	125%	15,510
Existing Demand	0	100%	0
Motor Loads	16,785	100%	16,785
Largest Motor	12,630	125%	15,788
Heating Loads	120,060	100%	120,060
Cooling Loads	0	70%	0
Equipment Loads	89,409	50%	44,705
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	29,117	100%	29,117
Continuous Power	0	125%	0
Non-Continuous Power	12,000	100%	12,000
Sub-Total:			253,964
Total Connected Ampacity:			305
Total Connected Load %:			76%
Ampacity Provided:			400

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	400A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE T1L1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker	225 Amps	Surface		T1H1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	DOCK RECEPTS – 110	1,080			1,080			DOOR HEAT – TENANT 1 ****	1	20	2
3	20	1	DOCK RECEPTS – 110		1,080			1,080		DOOR HEAT – TENANT 1 ****	1	20	4
5	20	1	DOCK RECEPTS – 110			1,440			1,080	DOOR HEAT – TENANT 1 ****	1	20	6
7	20	1	FREEZER RECEPTS – 111	1,080			1,080			DOOR HEAT – TENANT 1 ****	1	20	8
9	20	1	FREEZER RECEPTS – 111		900			1,300		HEAT TRACE – TENANT 1 ****	1	20	10
11	20	1	BLOCK HEATER GEN #1			1,200			360	RTU RECEPTACLES ****	1	20	12
13	20	1	BATTERY CHARGER GEN #1	1,200			---			SPARE ****	1	20	14
15	20	1	LEAK ALERT ALARM PANEL		600			---		SPARE ****	1	20	16
17	20	1	OFFICE RR EF-2			667			---	SPARE ****	1	20	18
19	20	1	RECEPTS – 130	900			---			SPARE	1	20	20
21	20	1	OFFICE G.P. RECEPTACLES		1,440			---		SPARE	1	20	22
23	20	1	OFFICE VENDING			1,000			---	SPARE	1	20	24
25	20	1	OFFICE VENDING	1,000			---			SPARE	1	20	26
27	20	1	OFF. WATER COOLERS ****		690			---		SPARE	1	20	28
29	20	1	OFFICE RR GFCI'S			1,080			---	SPARE	1	20	30
31	20	1	MEZZANINE OFFICE RECEPTS	1,260			---			SPARE	1	20	32
33	20	1	MEZZANINE OFFICE RECEPTS		1,260			---		SPARE	1	20	34
35	20	1	FUTURE MEZZ. FURNITURE			1,720			---	SPARE	1	20	36
37	20	1	FUTURE MEZZ. FURNITURE	1,720			---			SPARE	1	20	38
39	20	1	FUTURE MEZZ. FURNITURE		1,720			---		SPARE	1	20	40
41	20	1	CP-1			100			---	SPARE	1	20	42
43				---			---						44
45					---			---					46
47						---			---				48
49				---			---						50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	10,400 Watts
Connected Load Phase B	10,070 Watts
Connected Load Phase C	8,647 Watts
Total Connected Load	29,117 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	10,000	100%	10,000
Receptacles > 10,000	1,880	50%	940
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	100	100%	100
Largest Motor	667	125%	834
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	690	50%	345
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	5,620	125%	7,025
Non-Continuous Power	10,160	100%	10,160
Sub-Total:			29,404
Total Connected Ampacity:			82
Total Connected Load %:			36%
Ampacity Provided:			225

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	225A
Short Circuit Rating	10 KAIC
Enclosure	NEMA 1
Feed From	TOP

PANELBOARD SCHEDULE T2H1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	400 Amps	Surface		MSB-2

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – FREEZER #2	1,392			4,434			DOCK CONTROLLERS – 210	3	20	2
3	20	1	LIGHTING – FREEZER #2		2,784			4,434					4
5	20	1	LIGHTING – FREEZER #2			2,784			4,434				6
7	20	1	LIGHTING – DOCK #2	2,896			2,956			DOCK CONTROLLERS – 210	3	20	8
9	20	1	LIGHTING – BATT. CH. RM. 220		1,624			2,956					10
11	20	1	EH-16 RISER ROOM 203			1,000			2,956				12
13				1,000			2,956			DOCK CONTROLLERS – 210	3	20	14
15					1,000			2,956					16
17	20	1	SPARE			---			2,956				18
19	20	3	ROLL/BI-PART DOORS – 210	4,155			1,000			EH-17 RISER ROOM 204	3	20	20
21					4,155			1,000					22
23						4,155			1,000				24
25	20	3	ROLL/BI-PART DOORS – 210	4,155			6,000			EWH-2	3	20	26
27					4,155			3,000					28
29						4,155			3,000				30
31	30	3	WELDER	6,094			---			SPARE	1	20	32
33					6,094			---		SPARE	1	20	34
35						6,094			---				36
37	20	3	EH-5	3,333			3,833			OFFICE RTU-3	3	20	38
39					3,333			3,833					40
41						3,333			3,833				42
43	20	3	EH-6	3,333			11,000			OFFICE RTU-4	3	60	44
45					3,333			11,000					46
47						3,333			11,000				48
49	20	3	EH-7	3,333			3,878			SPARE (FUTURE COMPACT.)	3	30	50
51					3,333			3,878					52
53						3,333			3,878				54
55	20	3	EF-2/SF-2	1,884			7,320			XFMR TX-T2L1 75KVA	3	100	56
57					1,884			4,777					58
59						1,884			4,240				60
61	20	3	DRY AIR PACK RISER ROOM 203	1,717			---			SPARE	3	20	62
63					1,717			---					64
65						1,717			---				66

Connected Load Phase A	76,669 Watts
Connected Load Phase B	71,246 Watts
Connected Load Phase C	69,085 Watts
Total Connected Load	217,000 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	11,480	125%	14,350
Existing Demand	0	100%	0
Motor Loads	10,803	100%	10,803
Largest Motor	11,634	125%	14,543
Heating Loads	35,997	100%	35,997
Cooling Loads	44,499	70%	31,149
Equipment Loads	74,250	50%	37,125
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	16,337	100%	16,337
Continuous Power	0	125%	0
Non-Continuous Power	12,000	100%	12,000
Sub-Total:			172,304
Total Connected Ampacity:			207
Total Connected Load %:			52%
Ampacity Provided:			400

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	400A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE T1H2

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	400 Amps	Surface		MSB-1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	2
3					4,155			4,155					4
5						4,155			4,155				6
7	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	8
9					4,155			4,155					10
11						4,155			4,155				12
13	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	14
15					4,155			4,155					16
17						4,155			4,155				18
19	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	20
21					4,155			4,155					22
23						4,155			4,155				24
25	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	26
27					4,155			4,155					28
29						4,155			4,155				30
31	30	3	BATTERY CHARGER – 130	4,155			4,155			BATTERY CHARGER – 110	3	30	32
33					4,155			4,155					34
35						4,155			4,155				36
37	30	3	BATTERY CHARGER – 130	4,155			---			SPARE	3	30	38
39					4,155			---					40
41						4,155			---				42
43	30	3	BATTERY CHARGER – 130	4,155			---			SPARE	3	30	44
45					4,155			---					46
47						4,155			---				48
49	30	3	SPARE	---			---			SPARE	3	30	50
51					---			---					52
53						---			---				54
55	20	3	SPARE	---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	58,170 Watts
Connected Load Phase B	58,170 Watts
Connected Load Phase C	58,170 Watts
Total Connected Load	174,510 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Battery Chargers	0	70%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	174,510	100%	174,510
Sub-Total:			174,510
Total Connected Ampacity:			210
Total Connected Load %:			52%
Ampacity Provided:			400

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	400A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE T1HLS1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	60 Amps	Surface		MSB-1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	EM/EX/NL – FREEZER #1 *	3,105			---			SPARE	3	20	2
3	20	1	EM/EX/NL – DOCK #1 *		1,690			---					4
5	20	1	OFFICE LIGHTING			2,297			---				6
7	20	1	SPARE	---			---						8
9	20	1	SPARE		---			---					10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19	30	3	SURGE SUPPRESSION	---			1,900			XFMR TX-T1LLS1 15KVA	3	25	20
21					---			1,900					22
23						---			1,000				24
25				---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	5,005 Watts
Connected Load Phase B	3,590 Watts
Connected Load Phase C	3,297 Watts
Total Connected Load	11,892 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	7,092	125%	8,865
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	4,800	100%	4,800
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			13,665
Total Connected Ampacity:			16
Total Connected Load %:			27%
Ampacity Provided:			60

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Mains	60A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	TOP

PANELBOARD SCHEDULE T1LLS1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker	60 Amps	Surface		T1HLS1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	PHONE BOARD – 130	1,000			---			SPARE	1	20	2
3	20	1	SECURITY RECEPT – 130		1,000			---		SPARE	1	20	4
5	20	1	SECURITY RECEPT – 130			1,000			---	SPARE	1	20	6
7	20	1	QUELL/GFI – RISER RM 106 *	900			---			SPARE	1	20	8
9	20	1	F/A PANELS – RISER RM 106 *		900			---		SPARE	1	20	10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			---			SURGE SUPPRESSION	3	30	20
21					---			---					22
23						---			---				24
25				---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	1,900 Watts
Connected Load Phase B	1,900 Watts
Connected Load Phase C	1,000 Watts
Total Connected Load	4,800 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	4,800	100%	4,800
Sub-Total:			4,800
Total Connected Ampacity:			13
Total Connected Load %:			22%
Ampacity Provided:			60

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Mains	60A
Short Circuit Rating	10 KAIC
Enclosure	NEMA 1
Feed From	TOP

PANELBOARD SCHEDULE T2H2

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only	400 Amps	Surface		MSB-2

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	2
3					4,155			4,155					4
5						4,155			4,155				6
7	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	8
9					4,155			4,155					10
11						4,155			4,155				12
13	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	14
15					4,155			4,155					16
17						4,155			4,155				18
19	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	20
21					4,155			4,155					22
23						4,155			4,155				24
25	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	26
27					4,155			4,155					28
29						4,155			4,155				30
31	30	3	BATTERY CHARGER – 211	4,155			4,155			BATTERY CHARGER – 210	3	30	32
33					4,155			4,155					34
35						4,155			4,155				36
37	30	3	BATTERY CHARGER – 211	4,155			---			SPARE	3	30	38
39					4,155			---					40
41						4,155			---				42
43	30	3	BATTERY CHARGER – 211	4,155			---			SPARE	3	30	44
45					4,155			---					46
47						4,155			---				48
49	30	3	SPARE	---			---			SPARE	3	30	50
51					---			---					52
53						---			---				54
55	20	3	SPARE	---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	58,170 Watts
Connected Load Phase B	58,170 Watts
Connected Load Phase C	58,170 Watts
Total Connected Load	174,510 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Battery Chargers	0	70%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	174,510	100%	174,510
Sub-Total:			174,510
Total Connected Ampacity:			210
Total Connected Load %:			52%
Ampacity Provided:			400

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	400A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE T2L1

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker	225 Amps	Surface		T2H1

Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	DOCK RECEPTS – 210	1,080			1,080			DOOR HEAT – TENANT 2 ****	1	20	2
3	20	1	DOCK RECEPTS – 210		1,080			1,080		DOOR HEAT – TENANT 2 ****	1	20	4
5	20	1	DOCK RECEPTS – 210			900			1,080	DOOR HEAT – TENANT 2 ****	1	20	6
7	20	1	FREEZER RECEPTS – 201	1,080			1,300			HEAT TRACE – TENANT 2 ****	1	20	8
9	20	1	SPARE		---			360		RTU RECEPTACLES	1	20	10
11	20	1	SPARE			---			---	SPARE ****	1	20	12
13	20	1	LEAK ALERT ALARM PANEL	600			---			SPARE ****	1	20	14
15	20	1	OFFICE RR EF-4		667			---		SPARE ****	1	20	16
17	20	1	RECEPTS – 211			720			---	SPARE ****	1	20	18
19	20	1	OFFICE RR GFCI'S	1,080			---			SPARE ****	1	20	20
21	20	1	OFFICE RECEPTACLES		1,260			---		SPARE	1	20	22
23	20	1	OFFICE VENDING			1,000			---	SPARE	1	20	24
25	20	1	OFFICE VENDING	1,000			---			SPARE	1	20	26
27	20	1	OFFICE WATER COOLERS ***		690			---		SPARE	1	20	28
29	20	1	OFFICE WORK TABLE			540			---	SPARE	1	20	30
31	20	1	CP-1	100			---			SPARE	1	20	32
33	20	1	SPARE		---			---		SPARE	1	20	34
35	20	1	SPARE			---			---	SPARE	1	20	36
37	20	1	SPARE	---			---			SPARE	1	20	38
39	20	1	SPARE		---			---		SPARE	1	20	40
41	20	1	SPARE			---			---	SPARE	1	20	42
43				---			---						44
45					---			---					46
47						---			---				48
49				---			---						50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	7,320 Watts
Connected Load Phase B	5,137 Watts
Connected Load Phase C	4,240 Watts
Total Connected Load	16,697 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	10,000	100%	10,000
Receptacles > 10,000	100	50%	50
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	100	100%	100
Largest Motor	667	125%	834
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	4,540	125%	5,675
Non-Continuous Power	1,290	100%	1,290
Sub-Total:			17,949
Total Connected Ampacity:			50
Total Connected Load %:			22%
Ampacity Provided:			225

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	225A
Short Circuit Rating	10 KAIC
Enclosure	NEMA 1
Feed From	TOP

TOTAL CUSTOMER SATISFACTION

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date	description
12/12/2022	ISSUED FOR PERMIT
12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

drawing status

project no. 2022-1106.00

seal

SEAL No. 16019
12/12/2022
CRAIG L. MOLNAR

title

ELECTRICAL PANEL BOARD SCHEDULES

sheet

EP6.01

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE MSB-3						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Circuit Breaker							2,000 Amps	Surface		UTIL.
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	400	3	PANEL T3H1	73,489			4,899			PANEL T3HLS1	3	60	2
3					73,336			3,590					4
5						71,325			1,795				6
7	400	3	PANEL T3H2	58,170			27,920			200A PROVISION (FUTURE)			8
9					58,170			27,920					10
11						58,170			27,920				12
13	400	3	SPARE	---			38,390			300A PROVISION (FUTURE)			14
15					---			38,390					16
17						---			38,390				18
19				---			---						20
21					---			---					22
23						---			---				24

Connected Load Phase A	202,868 Watts
Connected Load Phase B	201,406 Watts
Connected Load Phase C	197,600 Watts
Total Connected Load	601,874 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	601,874	90%	543,393
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0

Sub-Total:	543,393	Mains	2000
Total Connected Ampacity:	654	Short Circuit Rating	65 KAIC
Total Connected Load %:	33%	Enclosure	NEMA 1
Ampacity Provided:	2000	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE MSB-4						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Circuit Breaker							2,000 Amps	Surface		UTIL.
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	400	3	PANEL T4H1	86,217			5,005			PANEL T4HLS1	3	60	2
3					79,461			3,590					4
5						75,746			1,733				6
7	400	3	PANEL T4H2	58,170			27,920			200A PROVISION (FUTURE)	3		8
9					58,170			27,920					10
11						58,170			27,920				12
13	400	3	SPARE	---			38,390			300A PROVISION (FUTURE)	3		14
15					---			38,390					16
17						---			38,390				18
19				---			---						20
21					---			---					22
23						---			---				24

Connected Load Phase A	215,702 Watts
Connected Load Phase B	207,531 Watts
Connected Load Phase C	201,959 Watts
Total Connected Load	625,192 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	625,192	89%	556,764
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0

Sub-Total:	556,764	Mains	2000A
Total Connected Ampacity:	670	Short Circuit Rating	65 KAIC
Total Connected Load %:	33%	Enclosure	NEMA 1
Ampacity Provided:	2000	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T3HLS1						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							60 Amps	Surface		MSB-3
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – FREEZER #3 *	2,999			---			SPARE	3	20	2
3	20	1	LIGHTING – DOCK #3 *		1,690			---					4
5	20	1	LIGHTING-OFFICE			795			---				6
7	20	1	SPARE	---			---						8
9	20	1	SPARE		---			---					10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			1,900			XFMR TX-T3LLS1 15KVA	3	25	20
21					---			1,900					22
23						---			1,000				24
25	30	3	SURGE SUPPRESSION	---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	4,899 Watts
Connected Load Phase B	3,590 Watts
Connected Load Phase C	1,795 Watts
Total Connected Load	10,284 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	5,484	125%	6,855
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	4,800	100%	4,800
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0

Sub-Total:	11,655	Mains	60A
Total Connected Ampacity:	14	Short Circuit Rating	65 KAIC
Total Connected Load %:	23%	Enclosure	NEMA 1
Ampacity Provided:	60	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T4HLS1						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							60 Amps	Surface		MSB-4
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	EM/EX/NL – FREEZER #4 *	3,105			---			SPARE	3	20	2
3	20	1	EM/EX/NL – DOCK #4 *		1,690			---					4
5	20	1	LIGHTING-OFFICE			733			---				6
7	20	1	SPARE	---			---						8
9	20	1	SPARE		---			---					10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			1,900			XFMR TX-T4LLS1 15KVA	3	25	20
21					---			1,900					22
23						---			1,000				24
25	30	3	SURGE SUPPRESSION	---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	5,005 Watts
Connected Load Phase B	3,590 Watts
Connected Load Phase C	1,733 Watts
Total Connected Load	10,328 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	5,528	125%	6,910
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	4,800	100%	4,800
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0

Sub-Total:	11,710	Mains	60A
Total Connected Ampacity:	14	Short Circuit Rating	65 KAIC
Total Connected Load %:	23%	Enclosure	NEMA 1
Ampacity Provided:	60	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T4LLS1						Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker							60 Amps	Surface		T4HLS1
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	PHONE BOARD – 440	1,000			900			QUELL PANEL RISER RM. 403	1	20	2
3	20	1	SECURITY RECEPTS – 440		1,000			900		FA PANEL RISER RM. 403	1	20	4
5	20	1	SECURITY RECEPTS – 440			1,000			---	SPARE	1	20	6
7	20	1	SPARE	---			---			SPARE	1	20	8
9					---			---					10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			---						20
21					---			---					22
23						---			---				24
25				---			---			SURGE SUPPRESSION	3	30	26
27					---			---					28
29						---			---				30

Connected Load Phase A	1,900 Watts
Connected Load Phase B	1,900 Watts
Connected Load Phase C	1,000 Watts
Total Connected Load	4,800 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	4,800	100%	4,800

Sub-Total:	4,800	Mains	60A
Total Connected Ampacity:	13	Short Circuit Rating	10 KAIC
Total Connected Load %:	22%	Enclosure	NEMA 1
Ampacity Provided:	60	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T3H1						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							400 Amps	Surface	65,000	MSB-3
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – FREEZER #3	1,392			4,434			DOCK CONTROLLERS – 310	3	20	2
3	20	1	LIGHTING – FREEZER #3		2,784			4,434					4
5	20	1	LIGHTING – FREEZER #3			2,784			4,434				6
7	20	1	LIGHTING – DOCK #3	2,896			2,956			DOCK CONTROLLERS – 310	3	20	8
9	20	1	LIGHTING – BATT. CH. RM. 311		1,624			2,956					10
11	20	1	EH-18 RISER RM. 303			1,000			2,956				12
13				1,000			2,956			DOCK CONTROLLERS – 310	3	20	14
15					1,000			2,956					16
17	20	1	SPARE			---			2,956				18
19	20	3	ROLL/BI-PART DOORS – 310	4,155			---			SPARE	3	20	20
21					4,155			---					22
23						4,155			---				24
25	20	3	BI-PART/ SEC DOOR – 310	4,155			4,000			EWH-3	3	20	26
27					4,155			4,000					28
29						4,155			4,000				30
31	30	3	WELDER	6,094			---			SPARE	1	20	32
33					6,094			---		SPARE	1	20	34
35						6,094			---	SPARE	1	20	36
37	20	3	EH-8	3,333			3,833			OFFICE RTU-5	3	25	38
39					3,333			3,833					40
41						3,333			3,833				42
43	20	3	EH-9	3,333			11,000			OFFICE RTU-6	3	60	44
45					3,333			11,000					46
47						3,333			11,000				48
49	20	3	EH-10	3,333			3,878			SPARE (FUTURE COMPACT.)	3	30	50
51					3,333			3,878					52
53						3,333			3,878				54
55	20	3	EF-3/SF-3	1,884			7,140			XFMR TX-T3L1 75KVA	3	100	56
57					1,884			5,977					58
59						1,884			5,440				60
61	20	3	DRY AIR PACK	1,717			---			SPARE	3	20	62
63					1,717			---					64
65						1,717			---				66

Connected Load Phase A	73,489 Watts
Connected Load Phase B	72,446 Watts
Connected Load Phase C	70,285 Watts
Total Connected Load	216,220 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	11,480	125%	14,350
Existing Demand	0	100%	0
Motor Loads	5,652	100%	5,652
Largest Motor	11,634	125%	14,543
Heating Loads	77,496	100%	77,496
Cooling Loads	0	70%	0
Equipment Loads	74,250	50%	37,125
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	18,557	100%	18,557
Continuous Power	0	125%	0
Non-Continuous Power	12,000	100%	12,000

Sub-Total:	179,723	Mains	400A
Total Connected Ampacity:	216	Short Circuit Rating	65 KAIC
Total Connected Load %:	54%	Enclosure	NEMA 1
Ampacity Provided:	400	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T3L1						Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker							225 Amps	Surface		T3H1
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	DOCK RECEPTS – 310	1,080			1,080			DOOR HEAT – TENANT 3 ****	1	20	2
3	20	1	DOCK RECEPTS – 310		1,080			1,080		DOOR HEAT – TENANT 3 ****	1	20	4
5	20	1	DOCK RECEPTS – 310			900			1,080	DOOR HEAT – TENANT 3 ****	1	20	6
7	20	1	FREEZER RECEPTS – 301	900			1,300			HEAT TRACE – TENANT 3 ****	1	20	8
9	20	1	BLOCK HEATER GEN #2		1,200			---		RTU RECEPTACLES	1	20	10
11	20	1	BATTERY CHARGER GEN #2			1,200			---	SPARE ****	1	20	12
13	20	1	LEAK ALERT ALARM PANEL	600			---			SPARE ****	1	20	14
15	20	1	OFFICE RR EF-6		667			---		SPARE ****	1	20	16
17	20	1	RECEPTS – 311			720			---	SPARE ****	1	20	18
19	20	1	OFFICE RR GFCI'S	1,080			---			SPARE	1	20	20
21	20	1	OFFICE RECEPTACLES		1,260			---		SPARE	1	20	22
23	20	1	OFFICE VENDING			1,000			---	SPARE	1	20	24
25	20	1	OFFICE VENDING	1,000			---			SPARE	1	20	26
27	20	1	OFFICE WATER COOLERS ***		690			---		SPARE	1	20	28
29	20	1	OFFICE WORK TABLE			540			---	SPARE	1	20	30
31	20	1	CP-3	100			---			SPARE	1	20	32
33	20	1	SPARE		---			---		SPARE	1	20	34
35	20	1	SPARE			---			---	SPARE	1	20	36
37	20	1	SPARE	---			---			SPARE	1	20	38
39	20	1	SPARE		---			---		SPARE	1	20	40
41	20	1	SPARE			---			---	SPARE	1	20	42
43				---			---						44
45					---			---					46
47						---			---				48
49				---			---						50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	7,140 Watts
Connected Load Phase B	5,977 Watts
Connected Load Phase C	5,440 Watts
Total Connected Load	18,557 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	7,560	100%	7,560
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	100	125%	125
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	4,540	125%	5,675
Non-Continuous Power	6,357	100%	6,357

Sub-Total:	19,717	Mains	225A
Total Connected Ampacity:	55	Short Circuit Rating	10 KAIC
Total Connected Load %:	24%	Enclosure	NEMA 1
Ampacity Provided:	225	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T4H1						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							400 Amps	Surface		MSB-3
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – FREEZER #4	1,392			4,434			DOCK CONTROLLERS – 410	3	20	2
3	20	1	LIGHTING – FREEZER #4		2,784			4,434					4
5	20	1	LIGHTING – FREEZER #4			2,784			4,434				6
7	20	1	LIGHTING – DOCK #4	2,910			2,956			DOCK CONTROLLERS – 410	3	20	8
9	20	1	LIGHTING – BATT. CH. RM. 440		2,552			2,956					10
11	20	3	EH-19 RISER RM. 403			1,000			2,956				12
13				1,000			2,956			DOCK CONTROLLERS – 410	3	20	14
15					1,000			2,956					16
17	20	1	SPARE			---			2,956				18
19	20	3	ROLL/OHD DOORS – 410	3,407			---			SPARE	3	20	20
21					3,407			---					22
23						3,407			---				24
25	20	3	BI-PART DOORS – 410	4,155			6,000			EWH-4	3	20	26
27					4,155			3,000					28
29						4,155			3,000				30
31	30	3	WELDER	6,094			4,000			SPARE	1	20	32
33					6,094			---					34
35						6,094			---				36
37	20	3	EH-12	3,333			4,667			RTU-7	3	25	38
39					3,333			4,667					40
41						3,333			4,667				42
43	20	3	EH-11	3,333			16,667			RTU-8	3	90	44
45					3,333			16,667					46
47						3,333			16,667				48
49	20	3	EH-14	3,333			3,878			SPARE (FUTURE COMPACT.)	3	30	50
51					3,333			3,878					52
53						3,333			3,878				54
55	20	3	EF-4/SF-4	2,105			7,880			XFMR TX-T3L1 75KVA	3	100	56
57					2,105			7,090					58
59						2,105			5,927				60
61	20	3	DRY AIR PAK – 430	1,717			---						62
63					1,717			---					64
65						1,717			---				66

Connected Load Phase A	86,217 Watts
Connected Load Phase B	79,461 Watts
Connected Load Phase C	75,746 Watts
Total Connected Load	241,424 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	12,422	125%	15,528
Existing Demand	0	100%	0
Motor Loads	11,466	100%	11,466
Largest Motor	11,634	125%	14,543
Heating Loads	96,999	100%	96,999
Cooling Loads	0	70%	0
Equipment Loads	72,006	50%	36,003
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	20,897	100%	20,897
Continuous Power	0	125%	0
Non-Continuous Power	12,000	100%	12,000

Sub-Total:	207,435	Mains	400A
Total Connected Ampacity:	250	Short Circuit Rating	65 KAIC
Total Connected Load %:	62%	Enclosure	NEMA 1
Ampacity Provided:	400	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T3H2						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							400 Amps	Surface		MSB-3
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	2
3					4,155			4,155					4
5						4,155			4,155				6
7	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	8
9					4,155			4,155					10
11						4,155			4,155				12
13	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	14
15					4,155			4,155					16
17						4,155			4,155				18
19	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	20
21					4,155			4,155					22
23						4,155			4,155				24
25	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	26
27					4,155			4,155					28
29						4,155			4,155				30
31	30	3	BATTERY CHARGER – 311	4,155			4,155			BATTERY CHARGER – 310	3	30	32
33					4,155			4,155					34
35						4,155			4,155				36
37	30	3	BATTERY CHARGER – 311	4,155			---			SPARE	3	30	38
39					4,155			---					40
41						4,155			---				42
43	30	3	BATTERY CHARGER – 311	4,155			---			SPARE	3	30	44
45					4,155			---					46
47						4,155			---				48
49	30	3	SPARE	---			---			SPARE	3	30	50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	58,170 Watts
Connected Load Phase B	58,170 Watts
Connected Load Phase C	58,170 Watts
Total Connected Load	174,510 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Battery Chargers	0	70%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	174,510	100%	174,510

Sub-Total:	174,510	Mains	400A
Total Connected Ampacity:	210	Short Circuit Rating	65 KAIC
Total Connected Load %:	52%	Enclosure	NEMA 1
Ampacity Provided:	400	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T3LLS1						Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker							60 Amps	Surface		T3HLS1
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	PHONE BOARD – 311	1,000			900			QUELL PANEL RISER RM. 303	1	20	2
3	20	1	SECURITY RECEPT – 311		1,000			900		FA PANEL RISER RM. 303	1	20	4
5	20	1	SECURITY RECEPT – 311			1,000			---	SPARE	1	20	6
7	20	1	SPARE	---			---			SPARE	1	20	8
9	20	1	SPARE		---			---		SPARE	1	20	10
11						---			---				12
13				---			---						14
15					---			---					16
17						---			---				18
19				---			---			SURGE SUPPRESSION	3	30	20
21					---			---					22
23						---			---				24
25				---			---						26
27					---			---					28
29						---			---				30

Connected Load Phase A	1,900 Watts
Connected Load Phase B	1,900 Watts
Connected Load Phase C	1,000 Watts
Total Connected Load	4,800 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	4,800	100%	4,800

Sub-Total:	4,800	Mains	60A
Total Connected Ampacity:	13	Short Circuit Rating	10 KAIC
Total Connected Load %:	22%	Enclosure	NEMA 1
Ampacity Provided:	60	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

NEC 700 EMERGENCY SYSTEM

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T4H2						Ampacity Provided	Mount	Min SCC	Fed From
480/277	3Ø	4	Main Lug Only							400 Amps	Surface		MSB-4
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	2
3					4,155			4,155					4
5						4,155			4,155				6
7	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	8
9					4,155			4,155					10
11						4,155			4,155				12
13	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	14
15					4,155			4,155					16
17						4,155			4,155				18
19	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	20
21					4,155			4,155					22
23						4,155			4,155				24
25	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	26
27					4,155			4,155					28
29						4,155			4,155				30
31	30	3	BATTERY CHARGER – 410	4,155			4,155			BATTERY CHARGER – 410	3	30	32
33					4,155			4,155					34
35						4,155			4,155				36
37	30	3	BATTERY CHARGER – 410	4,155			---			SPARE	3	30	38
39					4,155			---					40
41						4,155			---				42
43	30	3	BATTERY CHARGER – 410	4,155			---			SPARE	3	30	44
45					4,155			---					46
47						4,155			---				48
49	30	3	SPARE	---			---			SPARE	3	30	50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	58,170 Watts
Connected Load Phase B	58,170 Watts
Connected Load Phase C	58,170 Watts
Total Connected Load	174,510 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Battery Chargers	0	70%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	0	125%	0
Non-Continuous Power	174,510	100%	174,510

Sub-Total:	174,510	Mains	400A
Total Connected Ampacity:	210	Short Circuit Rating	65 KAIC
Total Connected Load %:	52%	Enclosure	NEMA 1
Ampacity Provided:	400	Feed From	BOTTOM

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Volts	Phase	Wire	Panel Type	PANELBOARD SCHEDULE T4L1						Ampacity Provided	Mount	Min SCC	Fed From
208/120	3Ø	4	Main Circuit Breaker							225 Amps	Surface		T4H1
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C	Description	Poles	Breaker	Circuit #
1	20	1	DOCK RECEPTS – 410	1,440			1,080			DOOR HEAT – TENANT 4 ****	1	20	2
3	20	1	DOCK RECEPTS – 410		1,080			1,080		DOOR HEAT – TENANT 4 ****	1	20	4
5	20	1	DOCK RECEPTS – 410			900			1,080	DOOR HEAT – TENANT 4 ****	1	20	6
7	20	1	FREEZER RECEPTS – 401	1,080			1,080			DOOR HEAT – TENANT 4 ****	1	20	8
9	20	1	FREEZER RECEPTS – 401		900			1,300		HEAT TRACE – TENANT 4 ****	1	20	10
11	20	1	BLOCK HEATER GEN #4			1,200			---	RTU RECEPTACLES	1	20	12
13	20	1	BATTERY CHARGER GEN #4	1,200			---			SPARE ****	1	20	14
15	20	1	LEAK ALERT ALARM PANEL		600			---		SPARE ****	1	20	16
17	20	1	OFFICE RR EF-8			667			---	SPARE ****	1	20	18
19	20	1	RECEPTS – 410	900			---			SPARE ****	1	20	20
21	20	1	OFFICE RECEPTACLES		1,440			---		SPARE	1	20	22
23	20	1	OFFICE VENDING			1,000			---	SPARE	1	20	24
25	20	1	OFFICE VENDING	1,000			---			SPARE	1	20	26
27	20	1	OFFICE WATER COOLER ***		690			---		SPARE	1	20	28
29	20	1	OFFICE RR GFCI'S			1,080			---	SPARE	1	20	30
31	20	1	CP-4	100			---			SPARE	1	20	32
33	20	1	SPARE		---			---		SPARE	1	20	34
35	20	1	SPARE			---			---	SPARE	1	20	36
37	20	1	SPARE	---			---			SPARE	1	20	38
39	20	1	SPARE		---			---		SPARE	1	20	40
41	20	1	SPARE			---			---	SPARE	1	20	42
43				---			---						44
45					---			---					46
47						---			---				48
49				---			---						50
51					---			---					52
53						---			---				54
55				---			---						56
57					---			---					58
59						---			---				60
61				---			---						62
63					---			---					64
65						---			---				66

Connected Load Phase A	7,880 Watts
Connected Load Phase B	7,090 Watts
Connected Load Phase C	5,927 Watts
Total Connected Load	20,897 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	8,820	100%	8,820
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	100	100%	100
Largest Motor	667	125%	834
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	690	50%	345
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	5,620	125%	7,025
Non-Continuous Power	5,000	100%	5,000

Sub-Total:	22,124	Mains	225A
Total Connected Ampacity:	61	Short Circuit Rating	10 KAIC
Total Connected Load %:	27%	Enclosure	NEMA 1
Ampacity Provided:	225	Feed From	TOP

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

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date	description
12/12/2022	ISSUED FOR PERMIT
12/07/2022	90% PROGRESS DRAWINGS
11/29/2022	60% PROGRESS DRAWINGS

drawing status

project no. 2022-1106.00

seal

SEAL
No. 16019
12/12/2022
CRAIG L. MOLNAR

title

ELECTRICAL
PANELBOARD
SCHEDULES

sheet EP6.02

PANELBOARD SCHEDULE MSB-REF

Volts 480/277	Phase 3Ø	Wire 4	Panel Type Main Circuit Breaker								Ampacity Provided 2,500 Amps	Mount Surface	Min SCC	Fed From UTIL.
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C		Description	Poles	Breaker	Circuit #
1				589,667			---							2
3			RSB-1		589,667			---						4
5						589,667			---					6
7				---			---							8
9					---			---						10
11						---			---					12

Connected Load Phase A	589,667 Watts
Connected Load Phase B	589,667 Watts
Connected Load Phase C	589,667 Watts
Total Connected Load	1,769,001 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	1,769,001	85%	1,504,347
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			1,504,347
Total Connected Ampacity:			1809
Total Connected Load %:			72%
Ampacity Provided:			2500

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	2500
Short Circuit Rating	65 KAIC
Enclosure	NEMA 3R
Feed From	BOTTOM

PANELBOARD SCHEDULE HHS

Volts 480/277	Phase 3Ø	Wire 4	Panel Type Main Circuit Breaker								Ampacity Provided 200 Amps	Mount Surface	Min SCC	Fed From UTIL.
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C		Description	Poles	Breaker	Circuit #
1	20	1	WALL PACKS **	1,548			---				SPARE	1	20	2
3	20	1	POLE LIGHTS **		3,096			---			SPARE	1	20	4
5	20	1	POLE LIGHTS **			3,020			---		SPARE	1	20	6
7	20	1	PHOTO CELL	500			---							8
9	20	1	SPARE		---			---			SPARE	3	20	10
11	20	1	SPARE			---			---					12
13	20	1	SPARE	---			3,840				FUTURE SECURITY	2	20	14
15	20	1	SPARE		---			3,840						16
17						---			1,440		GATE OPERATORS	2	20	18
19				---			1,440							20
21					---			---						22
23						---			---					24
25				---			---							26
27					---			---						28
29						---			---					30
31				---			---							32
33					---			---						34
35						---			---					36
37				---			15,781							38
39	100	3	SPARE		---			11,421			PANEL HPH	3	100	40
41						---			11,201					42

Connected Load Phase A	23,109 Watts
Connected Load Phase B	18,357 Watts
Connected Load Phase C	15,661 Watts
Total Connected Load	57,127 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	8,164	125%	10,205
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	0	125%	0
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	38,403	100%	38,403
Continuous Power	0	125%	0
Non-Continuous Power	10,560	100%	10,560
Sub-Total:			59,168
Total Connected Ampacity:			71
Total Connected Load %:			36%
Ampacity Provided:			200

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	200A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 3R
Feed From	BOTTOM

PANELBOARD SCHEDULE HPH

Volts 480/277	Phase 3Ø	Wire 4	Panel Type Main Circuit Breaker								Ampacity Provided 100 Amps	Mount Surface	Min SCC	Fed From HPH
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C		Description	Poles	Breaker	Circuit #
1	20	1	LIGHTING – PUMP HOUSE	186			---							2
3	20	1	SPARE		---			---						4
5	20	1	SPARE			---			---					6
7				---			---							8
9					---			---						10
11						---			---					12
13				---			1,330							14
15					---			1,330			EF-9	3	15	16
17						---			1,330					18
19				4,000			1,330							20
21	20	3	TANK HEATER		4,000			1,330			JOCKEY PUMP	3	15	22
23						4,000			1,330					24
25				1,667			4,894							26
27	20	3	EH-20		1,667			2,914			XFMR TX-LPH 15KVA	3	25	28
29						1,667			500					30

Connected Load Phase A	13,407 Watts
Connected Load Phase B	11,241 Watts
Connected Load Phase C	8,827 Watts
Total Connected Load	33,475 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	0	100%	0
Receptacles > 10,000	0	50%	0
Lighting Loads	186	125%	233
Existing Demand	0	100%	0
Motor Loads	3,990	100%	3,990
Largest Motor	3,990	125%	4,988
Heating Loads	17,001	100%	17,001
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	8,308	100%	8,308
Continuous Power	0	125%	0
Non-Continuous Power	0	100%	0
Sub-Total:			34,519
Total Connected Ampacity:			42
Total Connected Load %:			42%
Ampacity Provided:			100

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	100A
Short Circuit Rating	65 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

PANELBOARD SCHEDULE LPH

Volts 208/120	Phase 3Ø	Wire 4	Panel Type Main Circuit Breaker								Ampacity Provided 60 Amps	Mount Surface	Min SCC	Fed From HPH
Circuit #	Breaker	Poles	Description	A	B	C	A	B	C		Description	Poles	Breaker	Circuit #
1	20	1	FACP – PUMP HOUSE *	500			100				ALTITUDE SENSOR	1	20	2
3	20	1	RECEPTS – PUMP HOUSE		540			---			SPARE	1	20	4
5	20	1	LOUVER L-1			500			---		SPARE	1	20	6
7	20	1	SPARE	---			1,920				HEAT TRACE ****	1	20	8
9	20	1	SPARE		---			---			SPARE	1	20	10
11	20	1	SPARE			---			---		SPARE	1	20	12
13	25	2	BLOCK HEATER	1,750			624				PUMP CONTROLLER	2	20	14
15					1,750			624						16
17						---			---					18
19				---			---							20
21					---			---						22
23						---			---					24
25				---			---							26
27					---			---						28
29						---			---					30

Connected Load Phase A	4,894 Watts
Connected Load Phase B	2,914 Watts
Connected Load Phase C	500 Watts
Total Connected Load	8,308 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	540	100%	540
Receptacles > 10,000	0	50%	0
Lighting Loads	0	125%	0
Existing Demand	0	100%	0
Motor Loads	0	100%	0
Largest Motor	1,248	125%	1,560
Heating Loads	0	100%	0
Cooling Loads	0	70%	0
Equipment Loads	0	50%	0
Kitchen Equipment	0	100%	0
XFMR/Sub-Feed Loads	0	100%	0
Continuous Power	1,920	125%	2,400
Non-Continuous Power	4,600	100%	4,600
Sub-Total:			9,100
Total Connected Ampacity:			25
Total Connected Load %:			42%
Ampacity Provided:			60

Panel Schedule Notes

Feeder: See Single-Line Diagram
* Breaker Lock
** Timeclock/PE Cell Control
*** GFCI Circuit Breaker 5mA
**** GFEP Circuit Breaker 30mA

Mains	60A
Short Circuit Rating	10 KAIC
Enclosure	NEMA 1
Feed From	BOTTOM

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drawing status

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seal

title
ELECTRICAL PANELBOARD SCHEDULES

sheet
EP6.03