

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR
	POWER PACK FOR OCCUPANCY SENSOR
	RELAY PACK FOR OCCUPANCY SENSOR
	UL 924 EMERGENCY LIGHTING CONTROL UNIT
	CLG MTD DAYLIGHT HARVESTING PHOTO SENSOR
	POWER AND DATA POKE-THRU FLOOR DEVICE
	POWER AND DATA FLOOR BOX
	VIDEO MONITOR POWER AND DATA WALL BOX
	CONTACTOR
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	PHOTOCELL
	PUSHBUTTON
	DOOR OPERATOR PUSHBUTTON
	TIME CLOCK
	LOW VOLTAGE TRANSFORMER
	THERMOSTAT
	HUMIDISTAT
	SPECIAL CONNECTION (AS NOTED)
	PANELBOARD (480Y/277V) OR (480V)
	PANELBOARD (208Y/120V) OR (120/240V)
	SINGLE PHASE MOTOR CONNECTION
	THREE PHASE MOTOR CONNECTION
	NON FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH (Z=NO. POLES; X=SWITCH SIZE; Y=FUSE SIZE; MOUNT AT 5'-0" AFF, UNO)
	MOTOR STARTER N=STARTER SIZE; X=STARTER TYPE; (RV: REDUCED VOLTAGE; BLANK: FULL VOLTAGE); MOUNT AT 5'-0" AFF, UNO
	COMBINATION MOTOR STARTER / DISCONNECT SWITCH N=STARTER SIZE; X=STARTER TYPE; (RV: REDUCED VOLTAGE; BLANK: FULL VOLTAGE); MOUNT AT 5'-0" AFF, UNO
	GROUND ROD
	CONDUIT UNDER FLOOR
	CONDUIT ABOVE FLOOR
	SURFACE OR RECESSED LUMINAIRE
	SURFACE OR RECESSED DIRECTIONAL LUMINAIRE
	WALL MOUNTED LUMINAIRE
	TRACK MOUNTED LUMINAIRE
	EMERGENCY LUMINAIRE
	NIGHT LIGHT LUMINAIRE
	EMERGENCY NIGHT LIGHT LUMINAIRE
	BATTERY POWERED EMERGENCY LIGHTING UNIT
	CEILING MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN
	SITE LUMINAIRE AND POLE

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
	MAIN FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR PANEL
	NOTIFICATION APPLIANCE CONTROL PANEL
	MANUAL PULL STATION
	HEAT DETECTOR; CEILING MOUNTED
	HEAT DETECTOR; WALL MOUNTED
	SMOKE DETECTOR; CEILING MOUNTED
	SMOKE DETECTOR; WALL MOUNTED
	ELEVATOR SMOKE DETECTOR
	DUCT-TYPE SMOKE DETECTOR
	BEAM-TYPE SMOKE DETECTOR; WALL MOUNTED
	REMOTE TEST STATION; CEILING MOUNTED
	REMOTE TEST STATION; WALL MOUNTED
	CARBON MONOXIDE DETECTOR; CEILING MOUNTED
	CARBON MONOXIDE DETECTOR; WALL MOUNTED
	AUDIO DEVICE; CEILING MOUNTED
	AUDIO DEVICE; WALL MOUNTED
	VISUAL DEVICE; CEILING MOUNTED
	VISUAL DEVICE; WALL MOUNTED
	COMBINATION AUDIO/VISUAL DEVICE; CEILING MOUNTED
	COMBINATION AUDIO/VISUAL DEVICE; WALL MOUNTED
	SMOKE DAMPER
	FIRE PROTECTION SPRINKLER FLOW SWITCH
	FIRE PROTECTION SPRINKLER TAMPER SWITCH
	FIRE PROTECTION POST INDICATOR VALVE
	FIRE PROTECTION CO2 SYSTEM FLOW SWITCH
	FIRE FIGHTER'S PHONE OUTLET
	FIRE ALARM BELL
	MAGNETIC DOOR HOLDER
	FIRE ALARM INTERLOCK / CONTROL CONNECTION

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION
	VOICE / DATA OUTLET
	OUTLET FOR WALL MOUNTED TELEPHONE
	DATA OUTLET; CEILING MOUNTED
	WIRELESS ACCESS POINT OUTLET; CEILING MOUNTED
	MICROPHONE OUTLET; WALL MOUNTED
	MICROPHONE OUTLET; CEILING MOUNTED
	POWER / DATA POLE
	POWER / DATA FLOOR BOX
	SPEAKER OUTLET; CEILING MOUNTED
	SPEAKER OUTLET; WALL MOUNTED
	VIDEO MONITOR OUTLET; WALL MOUNTED
	CLOCK OUTLET; WALL MOUNTED
	INTERCOM OUTLET; WALL MOUNTED
	VOLUME CONTROL OUTLET; WALL MOUNTED
	CABLE TRAY
	VERTICAL CONDUIT SLEEVE; THROUGH FLOOR
	HORIZONTAL CONDUIT SLEEVE; IN ACCESSIBLE CEILING SPACE

SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CAMERA OUTLET; CEILING OR PENDANT MOUNTED
	CAMERA OUTLET; WALL MOUNTED
	KEYPAD CONTROLLER OUTLET
	PROXIMITY CARD READER OUTLET
	MOTION DETECTOR OUTLET
	GLASS BREAK SENSOR OUTLET
	SECURITY SIREN OUTLET
	DOOR PROP ALARM OUTLET
	DOOR MAGNETIC CONTACTS
	ELECTRIC DOOR STRIKE
	ELECTRIC DOOR LATCH
	ELECTRIC POWER TRANSFER HINGE
	REQUEST-TO-EXIT DEVICE OUTLET

GENERAL ELECTRICAL ABBREVIATIONS

ABBREVIATIONS ARE FOR REFERENCE ONLY AND MAY OR MAY NOT BE USED ELSEWHERE IN CONSTRUCTION DOCUMENTS			
A, AMP	AMPERES	KW	KILOWATT
AC	ALTERNATING CURRENT	KWHR	KILOWATT-HOUR
ACP	ACOUSTICAL CEILING PANEL	LED	LIGHT-EMITTING DIODE
ADA	AMERICANS WITH DISABILITIES ACT	LS	LIGHT SWITCH OR LIMIT SWITCH
AFF	ABOVE FINISHED FLOOR	LT	LIGHT OR LEVEL TRANSDUCER
AHJ	AUTHORITY HAVING JURISDICTION	LTFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
AIC	AMPERE-INTERRUPTING CURRENT	LTG	LIGHTING
AL	ALUMINUM	LV	LOW VOLTAGE
ATM	AUTOMATIC TELLER MACHINE	M	METER
ATS	AUTOMATIC TRANSFER SWITCH	MANF	MANUFACTURER
BMS	BUILDING MANAGEMENT SYSTEM	MCA	MINIMUM CIRCUIT AMPACITY
BRKR	BREAKER	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT OR CELSIUS	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	MCP	MOTOR CIRCUIT PROTECTOR
CATV	CABLE TELEVISION	MH	MANHOLE
CIP	CAST-IN-PLACE	MLO	MAIN LUGS ONLY
CJ	CONTROL JOINT	MT	MOUNT
CKT	CIRCUIT	MTD	MOUNTED
CLG	CEILING	MV	MEDIUM VOLTAGE
CM	CONSTRUCTION MANAGER	N,NEUT	NEUTRAL
CMU	CONCRETE MASONRY UNIT	NC	NORMALLY CLOSED
COAX	COAXIAL	NEC	NATIONAL ELECTRICAL CODE
CONC	CONCRETE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CP	CONTROL PANEL	NL	NIGHT LIGHT
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
CU	COPPER	NOM	NOMINAL
Cx	COMMISSIONING	NTS	NOT TO SCALE
CxA	COMMISSIONING AGENT	OD	OUTSIDE DIAMETER
DB	DECIBEL	OH	OVERHEAD
DC	DIRECT CURRENT	OHd	OVERHEAD DOOR
DEM	DEMOLISH	OL	OVERLOAD
DEMO	DEMOLISH OR DEMOLITION	PA	PUBLIC ADDRESS
DF	DRINKING FOUNTAIN	PB	PULL BOX OR PUSHBUTTON
DISC	DISCONNECT	PFC	POWER FACTOR CORRECTION
DPDT	DOUBLE POLE DOUBLE THROW	PH	PHASE
DPST	DOUBLE POLE SINGLE THROW	PNL	PANEL OR PANELBOARD
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
EJ	EXPANSION JOINT	PTZ	PAN-TILT-ZOOM
ELEC	ELECTRICAL	PWR	POWER
ELEV	ELEVATOR OR ELEVATION	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	REBAR	REINFORCING BAR
EMT	ELECTRICAL METALLIC TUBING	RECEPT	RECEPTACLE
ENCL	ENCLOSURE	RM	ROOM
ETR	EXISTING TO REMAIN	RNMC	RIGID NON-METALLIC CONDUIT
EWc	ELECTRIC WATER COOLER	ROW	RIGHT-OF-WAY
EWH	ELECTRIC WATER HEATER	RMC	RIGID METAL CONDUIT
EXIST	EXISTING	SEC	SECONDARY
F	FUSE OR FAHRENHEIT	SPD	SURGE PROTECTIVE DEVICE
FA	FIRE ALARM	SPDT	SINGLE POLE DOUBLE THROW
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SPECS	SPECIFICATIONS
FACP	FIRE ALARM CONTROL PANEL	SPST	SINGLE POLE SINGLE THROW
FF&E	FIXTURES, FURNISHINGS & EQUIPMENT	SQ	SQUARE
FIXT	FIXTURE	SS	STAINLESS STEEL
FLA	FULL LOAD AMPERES	SV	SOLENOID VALVE
FM	FACTORY MUTUAL	SWBD	SWITCHBOARD
FMC	FLEXIBLE METAL CONDUIT	SWGR	SWITCHGEAR
FO	FIBER OPTIC	TCC	TEMPERATURE CONTROL CONTRACTOR
FRT	FIRE RETARDANT	TCP	TEMPERATURE CONTROL PANEL
GC	GENERAL CONTRACTOR	TRANS	TRANSFORMER
GEN	GENERATOR	TS	TIME SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UL	UNDERWRITERS LABORATORIES
GND, G	GROUND	UNO	UNLESS NOTED OTHERWISE
GYP BD	GYPSUM BOARD	UPS	UNINTERRUPTIBLE POWER SUPPLY
HH	HANDHOLE	V	VOLTS
HOA	HAND-OFF-AUTO	VA	VOLT-AMPERE
HP	HORSE POWER	VAC	VOLTS-ALTERNATING CURRENT
HV	HIGH VOLTAGE	VDC	VOLTS-DIRECT CURRENT
ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX	W	WATTS
KO	KNOCKOUT	WH	WATER HEATER
KVA	KILOVOLT AMPERE	WP	WEATHERPROOF

GENERAL NOTES

- SYMBOLS AND GENERAL DESCRIPTIONS IN SYMBOL LEGENDS ARE INDICATED FOR GENERAL REFERENCE ONLY. NOT ALL SYMBOLS ARE USED ON THIS PROJECT. SEE SCHEDULES, SPECIFICATIONS, AND PLANS FOR ADDITIONAL INFORMATION INCLUDING MOUNTING HEIGHTS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT ELECTRICAL DESIGN INTENT. PROVIDE ALL WORK AND MATERIALS REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS THAT FULLY MEET ELECTRICAL DESIGN INTENT. ELECTRICAL WORK TO CONFORM TO LATEST EDITION OF NEC AS ADOPTED BY AUTHORITY HAVING JURISDICTION. SEE SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS AND ITEMS THAT MAY BE REQUIRED ABOVE AND BEYOND MINIMUM REQUIREMENTS THAT ARE OUTLINED IN NATIONAL ELECTRICAL CODE (NEC).
- THOROUGHLY AND CAREFULLY REVIEW ALL DRAWINGS, SPECIFICATIONS, AND WORK SCOPES IN CONTRACT DOCUMENTS PRIOR TO BIDS AND CONSTRUCTION. WHERE THERE ARE CONFLICTS AMONG DRAWINGS, SPECIFICATIONS, AND WORK SCOPES, MORE STRINGENT OR GREATER QUANTITY REQUIREMENTS APPLY.
- ALL ELECTRICAL EQUIPMENT TO BE UL LISTED.
- SEE INDIVIDUAL SPECIFICATION SECTIONS FOR SPECIFIC REQUIREMENTS RELATED TO TESTING, MANUFACTURER STARTUP, TRAINING, ETC. ALL APPLICABLE TESTING AND MANUFACTURER STARTUP REPORTS TO BE SUBMITTED AND APPROVED PRIOR TO DEVELOPMENT OF ELECTRICAL PUNCH LISTS.
- ALL CONDUCTORS, INCLUDING GROUNDED CONDUCTORS (NEUTRALS), TO BE LABELED AT ALL ENDS AND JOINTS WITH CORRESPONDING PANELBOARD NAME AND CIRCUIT NUMBER, OR OTHERWISE IDENTIFIED TO CORRESPOND WITH ASSOCIATED EQUIPMENT MANUFACTURER'S IDENTIFICATION SYSTEM.
- AT A MINIMUM, PROVIDE 1#12, 1#12N, 1#12G FOR 20A BRANCH CIRCUITING, UNO. MINIMUM CONDUIT SIZE IS 3/4", UNO. NO MORE THAN NINE CURRENT CARRYING CONDUCTORS ALLOWED IN A RACEWAY, UNO. EQUIPMENT GROUNDING CONDUCTORS TO BE SIZED IN ACCORDANCE WITH NEC AND MAY BE SHARED. ALL GROUNDED CONDUCTORS (NEUTRALS) TO BE TREATED AS CURRENT CARRYING CONDUCTORS.
- PROVIDE A DEDICATED GROUNDED CONDUCTOR (NEUTRAL) FOR EACH BRANCH CIRCUIT. SHARED NEUTRALS ARE NOT ALLOWED.
- INSTALL GREEN, INSULATED, COPPER EQUIPMENT GROUNDING CONDUCTORS IN RACEWAYS INCLUDING FLEXIBLE METAL CONDUITS AND NON-METALLIC RACEWAYS. GREEN, INSULATED, COPPER EQUIPMENT GROUNDING CONDUCTORS TO BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS.
- PROVIDE FIRESTOPPING FOR ALL CONDUIT AND OTHER ELECTRICAL EQUIPMENT PENETRATIONS THROUGH FLOORS, WALLS, AND CEILINGS TO MAINTAIN FIRE RATINGS.
- LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS ASSUMING FULL LOAD CONDITIONS. VOLTAGE DROP NOT TO EXCEED 5% FROM ELECTRICAL SERVICE TO FURTHEST ELECTRICAL DEVICE.
- CALCULATE AND APPLY APPROPRIATE NEC DERATING FACTOR FOR CONDUCTORS INSTALLED IN ROOF MOUNTED CONDUITS.
- ALL WIRING FOR INTERIOR LED LUMINAIRES THAT ARE REQUIRED TO BE DIMMED TO INCLUDE (2) #18 AWG WIRES FROM EACH LUMINAIRE TO ASSOCIATED LIGHTING CONTROLLER FOR 0-10V LIGHTING CONTROL. ALL CONTROL WIRES TO BE LABELED.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR LOCATIONS OF CEILING AND WALL MOUNTED DEVICES.
- ALL LUMINAIRES TO BE SUPPORTED FROM BUILDING STRUCTURE.
- ALL JUNCTION BOXES TO BE LABELED TO IDENTIFY CIRCUIT(S) ROUTED THROUGH EACH RESPECTIVE JUNCTION BOX USING BRADY LABELS.
- WHERE PLENUMS ARE UTILIZED FOR HVAC AIR DISTRIBUTION, PROVIDE PLENUM RATED CABLES AND CONDUCTORS IN PLENUMS. SEE MECHANICAL FOR LOCATIONS OF HVAC PLENUMS.
- ELECTRICAL EQUIPMENT INSTALLED ABOVE CEILINGS TO BE INSTALLED IN READILY ACCESSIBLE LOCATIONS, SUCH AS, BUT NOT LIMITED TO, ABOVE DOORWAYS TO ROOMS. COORDINATE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH OTHER EQUIPMENT AND NEED FOR EXCESSIVELY LONG LADDER REQUIREMENTS TO ACCESS EQUIPMENT AND DIFFICULT AND AWKWARD CLIMBING AND/OR UNNECESSARY BENDING DURING SERVICING OF EQUIPMENT.
- CONDUCTORS INSTALLED IN WIREWAYS THAT CONTAIN MORE THAN 30 CURRENT CARRYING CONDUCTORS TO BE DERATED IN ACCORDANCE WITH NEC.
- DO NOT USE LOAD CENTERS, PANELBOARDS AND OTHER POWER DISTRIBUTION EQUIPMENT AS RACEWAYS.
- SEE SPECIFICATIONS FOR PROJECT SPECIFIC RACEWAY INSTALLATION REQUIREMENTS.
- SEE SPECIFICATIONS FOR PROJECT SPECIFIC IDENTIFICATION REQUIREMENTS.

REVISIONS

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
08/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 90 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

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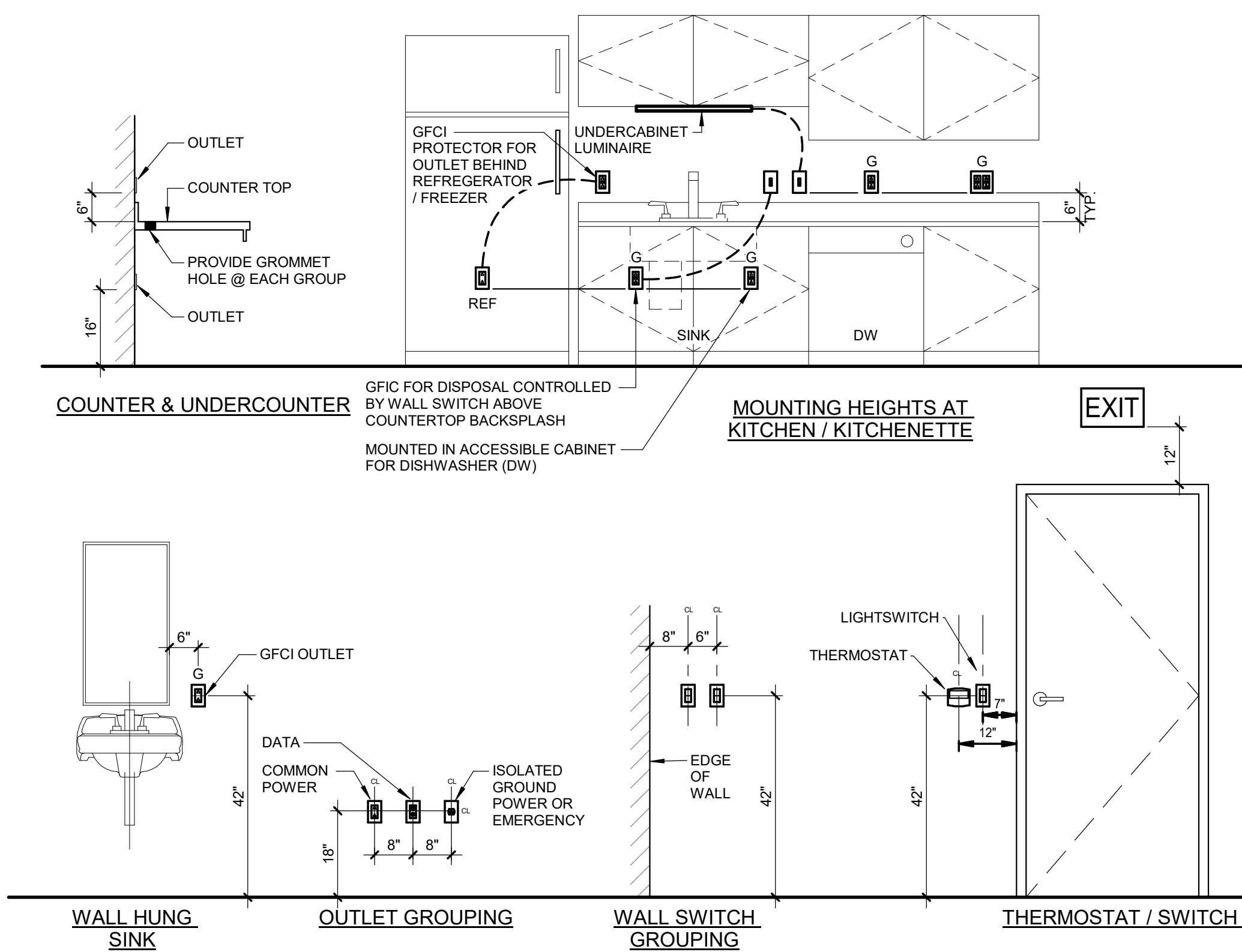
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LIGHTING CONTROL TYPE ABBREVIATIONS	
X	LINE VOLTAGE WALL SWITCH
X	LOW VOLTAGE WALL SWITCH
2	DOUBLE POLE WALL SWITCH, 20 AMP - 120/277 VOLT
3	3-WAY POLE WALL SWITCH, 20 AMP - 120/277 VOLT.
4	4-WAY POLE WALL SWITCH, 20 AMP - 120/277 VOLT.
D	SINGLE POLE 0-10 VOLT WALL DIMMER SWITCH WITH RAISE / LOWER PUSH BUTTONS AND SEPARATE ON/OFF SWITCH, 20 AMP - 120/277 VOLT, DIMMER SHALL BE COMPATIBLE WITH LED LIGHT FIXTURES.
P	PILOT LIGHTED SWITCH, 20 AMP - 120/277 VOLT.
K	KEY OPERATED WALL SWITCH, SINGLE POLE UNLESS DESIGNATED OTHERWISE, 20 AMP - 120/277 VOLT.
SL1	ON/OFF
SL2	ON/OFF, RAISE/LOWER
SL3	ON/OFF, RAISE/LOWER, 2 ZONE
SL4	DIGITAL DISPLAY 7" TOUCHSCREEN
V	WALL SWITCH VACANCY SENSOR.
VD	WALL SWITCH VACANCY SENSOR; DIMMING.
O	WALL SWITCH OCCUPANCY SENSOR.
OD	WALL SWITCH OCCUPANCY SENSOR; DIMMING.

RECEPTACLE TYPE ABBREVIATIONS	
⊕⊕⊕	WALL MOUNTED SIMPLEX, DUPLEX OR QUADPLEX RECEPTACLE. REFER TO SPECIFICATION.
⊕⊕⊕	CEILING MOUNTED SIMPLEX, DUPLEX OR QUADPLEX RECEPTACLE. REFER TO SPECIFICATION.
A	ABOVE COUNTER MOUNTED
H	HORIZONTALLY MOUNTED
XX"	MOUNTING HEIGHT
DC	DUAL CONTROLLED
E	EMERGENCY
G	GFCI RECEPTACLE OR GFCI PROTECTED
HC	HALF CONTROLLED
IG	ISOLATED GROUND
S	SURGE PROTECTION; BLUE BODY.
T	TAMPER RESISTANT
U	DUPLEX RECEPTACLE WITH USB TYPE A AND C CHARGING PORTS; SEE SPECIFICATION
WP	WEATHERPROOF GROUND FAULT INTERRUPTER OUTLET, LISTED WEATHER RESISTANT, DIE CAST "WHILE IN USE" COVER, FLUSH MOUNTED WITH RECESSED BOX IN THE BUILDING EXTERIOR FINISH.
WP1	WEATHERPROOF GROUND FAULT INTERRUPTER OUTLET, LISTED WEATHER RESISTANT DIE-CAST GASKETED SELF CLOSING COVER, FLUSH MOUNTED WITH RECESSED BOX IN THE BUILDING EXTERIOR FINISH.



TYPICAL WIRING DEVICE MOUNTING HEIGHT
SCALE: NOT TO SCALE

WIRING DEVICES - RECEPTACLE SCHEDULE				
RECEPTACLE TYPE LEGEND				
⊕	WALL MOUNTED SIMPLEX RECEPTACLE	⊕	CEILING MOUNTED SIMPLEX RECEPTACLE	
⊕	WALL MOUNTED DUPLEX RECEPTACLE	⊕	CEILING MOUNTED DUPLEX RECEPTACLE	
⊕	WALL MOUNTED QUADPLEX RECEPTACLE	⊕	CEILING MOUNTED QUADPLEX RECEPTACLE	
⊕	WALL MOUNTED SPECIAL RECEPTACLE	⊕	CEILING MOUNTED SPECIAL RECEPTACLE	
TYPE MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
	SIMPLEX RECEPTACLE	HLB5361	HLB5361	MOUNT AT 18" AFF, UNO
	DUPLEX RECEPTACLE	HUBBELL	HLB5362TR	MOUNT 18" AFF, UNO
DC	SPLIT WIRED DUPLEX RECEPTACLE	HUBBELL	HLB5362TR	MOUNT 18" AFF, UNO
GFI	GFCI DUPLEX RECEPTACLE	HUBBELL	GF5362SGI	MOUNT 18" AFF, UNO
GFI/A	GFCI DUPLEX RECEPTACLE (ABOVE COUNTER)	HUBBELL	GF5362SGI	MOUNT HORIZONTALLY ABOVE COUNTER; 2-INCHES ABOVE BACKSPLASH, UNO
WP	WEATHERPROOF, GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE, EXTRA DUTY COVER	HUBBELL	GF5362SGI WP26EH	MOUNT 18" AFF, UNO
A	TAMPERPROOF DUPLEX RECEPTACLE	HUBBELL	HLB6300SGIA	MOUNT 18" AFF, UNO
C	DUPLEX RECEPTACLE - CEILING MOUNTED	HUBBELL	HLB5362I	MOUNT IN CEILING
	DOUBLE DUPLEX RECEPTACLE	HUBBELL	(2) HBL5362I	MOUNT 18" AFF, UNO
DC	DOUBLE DUPLEX RECEPTACLE - SPLIT WIRED FOR CONTROLS	HUBBELL	(2) HBL5362I	MOUNT 18" AFF, UNO
1	60A, 120/208V SINGLE PHASE, 4 WIRE, WATERTIGHT, UNFUSED CIRCUIT-LOCK, PIN AND SLEEVE DISCONNECT RECEPTACLE	HUBBELL	HLB460MI12W	MOUNT AT 2'-6" AFF, UNO, APPROVED EQUAL: LEVITON
WALL MOUNTED DOUBLE DUPLEX RECEPTACLES				
	DOUBLE DUPLEX RECEPTACLE	HUBBELL	(2) HBL5362I	MOUNT AT 18" AFF, UNO

WIRING DEVICES - FLOOR OUTLETS SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
FB	1 FLOOR BOX	WIREMOLD	EFB8S W/ EFB8-4GMB	PROVIDE (1) 1-1/4" TO INTERIOR WALL FOR LOW VOLTAGE WIRING. COORDINATE FLOOR BOX CONFIGURATION, COVER, AND ACCESSORIES WITH TECHNOLOGY DRAWINGS.
FB	2 FLOOR BOX	LEGRAND	RFBA2R30OG WITH (2) RFBADEC20TR AND FPCTC SERIES COVER.	

WIRING DEVICES - OCCUPANCY SENSOR AND LOW VOLTAGE LTG CONTROL DEVICE SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
CS	DUAL TECHNOLOGY OCCUPANCY SENSOR - CEILING MOUNTED	nLIGHT	nCM PDT	
CS H	PIR TECHNOLOGY VACANCY SENSOR - HIGH CEILING.	nLIGHT	nCM 6	
FP	VACANCY SENSOR POWER PACK	nLIGHT	nPP16-D SERIES	
PP P	PLUG LOAD CONTROLLER	nLIGHT	nPP20 PL	

FIRE ALARM DEVICES SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	REMARKS
S	CEILING MTD PHOTOELECTRIC SMOKE DETECTOR	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	PROVIDE BACKBOX AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.
D	DUCT TYPE SMOKE DETECTOR	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	PROVIDED BY DIVISION 28. EXACT PLACEMENT TO BE DETERMINED BY DIVISION 23.
FS	FIRE PROTECTION FLOW SWITCH	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	PROVIDED BY DIVISION 21. WIRED BY DIVISION 26/28. PROVIDE 4" SQUARE BOX WITH 3/4" FMC TO DEVICE.
TS	FIRE PROTECTION TAMPER SWITCH	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	PROVIDED BY DIVISION 21. WIRED BY DIVISION 26/28. PROVIDE 4" SQUARE BOX WITH 3/4" FMC TO DEVICE.
L	VISUAL STROBE SIGNAL, WALL MOUNTED	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	MOUNT AT 80-INCHES AFF TO BOTTOM OF BOX, UNO. PROVIDE BACKBOX AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.
L H	COMBINATION AUDIO HORN / VISUAL STROBE SIGNAL, WALL MOUNTED	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	MOUNT AT 80-INCHES AFF TO BOTTOM OF BOX, UNO. PROVIDE BACKBOX AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.
AV	CEILING MOUNTED COMBINATION AUDIO / VISUAL DEVICE	(SEE SPECIFICATIONS)	(SEE SPECIFICATIONS)	PROVIDE BACKBOX AS RECOMMENDED BY FIRE ALARM SYSTEM MANUFACTURER.

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LUMINAIRE SCHEDULE													
MARK	DESCRIPTION	BASIS OF DESIGN MFR.	CATALOG NO.	APPROVED EQUAL MFR. #1	APPROVED EQUAL MFR. #2	LUMINAIRE DATA						REMARKS	
						VOLTAGE	LOAD	LUMENS	CCT	CRI	DIMMING		
A1	2x2 RECESSED LED FLAT PANEL	LITHONIA	CPANL 2X2 AL01 S1WW7M4	METALLUX	ELITE LIGHTING	120 V	41 VA	4,400 lm	4000 K	80	0-10V		
A1E	2x2 RECESSED LED FLAT PANEL WITH EMERGENCY BATTERY BACK-UP	LITHONIA	CPANL 2X2 AL01 S1WW7M4 ILPCP10A	METALLUX	ELITE LIGHTING	120 V	41 VA	4,400 lm	4000 K	80	0-10V	INTEGRAL EMERGENCY BATTERY	
A1S	2x2 RECESSED LED FLAT PANEL EXCEPT WITH SURFACE DRYWALL GRID ADAPTER	LITHONIA	CPANL 2X2 AL01 S1WW7M4 DGA22	METALLUX	ELITE LIGHTING	120 V	41 VA	4,400 lm	4000 K	80	0-10V	SURFACE DRYWALL GRID ADAPTER	
B	DECORATIVE PENDANT MOUNTED LUMINAIRE. 177/75"H x 25"W. 5" ROUND CANOPY, (40 C11, 12W CANDELABRA BASED LAMPS, 60" CHAIN. MOUNT WITH BOTTOM AT 7'6" AFF	VISUAL COMFORT & CO.	ARN 5173G-CG	(NONE)		120 V	8 VA				0-10V	LUMINAIRE FINISH SHALL BE METALLIC SILVER WITH CHROME SUPPORT ARMS	
C4	4 INCH x 10' RECESSED LINEAR FIXTURE.	FINELITE	HP-4-R-D-10'-S-840-F-96LG-120-SC-FC-10%-C1-FE-SW	AXIS LIGHTING	3G LIGHTING	120 V	35 VA	4,440 lm	4000 K	80	0-10V	FLUSH DIFFUSER; 15/16" T-BAR	
C4E	4 INCH x 10' RECESSED LINEAR FIXTURE WITH BATTERY BACK-UP.	FINELITE	HP-4-R-D-10'-S-840-F-96LG-120-SC-FC-10%-C1-FE-SW-LGD10W	AXIS LIGHTING	3G LIGHTING	120 V	35 VA	4,440 lm	4000 K	80	0-10V	10W, 90-MIN. BATTERY BACK-UP	
C4F	4 INCH x 10' RECESSED LINEAR FIXTURE. FLANGED FOR GYP CEILING.	FINELITE	HP-4-R-D-10'-S-840-F-96LG-120-SC-FC-10%-VF-FE-SW	AXIS LIGHTING	3G LIGHTING	120 V	35 VA	4,440 lm	4000 K	80	0-10V	VISIBLE FLANGE FOR GYP CEILING	
C10	4 INCH x 10' RECESSED LINEAR FIXTURE.	FINELITE	HP-4-R-D-10'-B-840-F-96LG-120-SC-FC-10%-C1-FE-SW	AXIS LIGHTING	3G LIGHTING	120 V	45 VA	5,710 lm	4000 K	80	0-10V	BOOSTED OUTPUT	
D1	4" RECESSED LED DOWNLIGHT WIDE DISTRIBUTION	GOTHAM	IV04-D-15LM-40K-80CRI-MWD-MIN1-MVOLT-ZT-NCH-P-AR-LSS-F	USAI	3G LIGHTING	120 V	30 VA	2,732 lm	4000 K	80	0-10V		
D1E	4" RECESSED LED DOWNLIGHT WITH WIDE DISTRIBUTION ADN INTEGRAL EMERGENCY BATTERY PACK	GOTHAM	IV04-D-30LM-40K-80CRIWD-MIN1-MVOLT-ZT-E10W-NCH-P-AR-LSS-F	USAI	3G LIGHTING	120 V	30 VA	1,486 lm	4000 K	80	0-10V	INTEGRAL EMERGENCY BATTERY	
E1	4" RECESSED LED DOWNLIGHT	METEOR	RS4N-20-408-120-STV-45-WHT	USAI	3G LIGHTING	120 V	20 VA	2,080 lm	4000 K	85	0-10V	45" BEAM; WHITE TRIM	
E1E	4" RECESSED LED DOWNLIGHT WITH REMOTE EMERGENCY BATTERY PACK	METEOR	RS4N-20-408-120-STV-45-WHT + EMP	USAI	3G LIGHTING	120 V	20 VA	2,080 lm	4000 K	85	0-10V	REMOTE EMERGENCY PACK; 1,720 LM EMERGENCY OUTPUT	
EM	MULLION MOUNT EMERGENCY LIGHT WITH REMOTE POWER SUPPLY	LIGHTALARMS	LAMM-SP	(NONE)	(NONE)		16 VA	900 lm	4000 K			ROUTE WIRING WITHIN MULLION.	
F2	23" x 4.75" x 4.5"D WITH A 4.5" x 7" BACKPLATE. BRONZE FINISH, WHITE GLASS DIFFUSER, VANITY LIGHT, MOUNTED HORIZONTALLY. EQUIP WITH (2) 60W T-10 EQUIVALENT LAMPS	VISUAL COMFORT & CO.	S-2164BZ-WG	(NONE)	(NONE)	120 V	16 VA	800 lm	4000 K	80	NO	MOUNT AT 7'-0" AFF	
F5	5' SURFACE WALL MOUNTED VANITY LIGHT	VISA	CV1718-L40K(L)-MVOLT-GSILV	AXIS LIGHTING	CAMMAN LIGHTING	120 V	27 VA	2,000 lm	4000 K	80	0-10V	MOUNT AT 7'-0" AFF	
G2	RECESSED WALK-OVER LED IN-GRADE COLUMN UPLIGHT, 90"V x 15"H BI-SYMMETRIC OPTIC, FLUSH TRIM	LUMENPULSE	LBIL-WO-120/277-30K-90x15-CL-DIM-FLN-SSB-RBO-ASL-HRS-UL	MAYER LIGHTING	KIM LIGHTING	120 V	60 VA						
HR	RECESSED LED LIGHT INTEGRATED INTO THE HANDRAIL POSTS AND ASSOCIATED WIRING AND POWER SUPPLIES AND IP67 ENCLOSURES.	MINIMIS	PX-MP-30-BK-NOKIT-PKMP1630 (SIX)-10V	(NONE)	(NONE)	120 V	2 VA	19 lm	3000 K	90	0-10V	44444	
J1	18" DECORATIVE LED DRUM, SURFACE MOUNTED	LUMETTA	SM5188/F11/D61/L411	SHAPER	CAMMAN LIGHTING	120 V	21 VA	1,782 lm	4000 K	90	0-10V	WHITE FINISH / DIFFUSER	
K1	24" DECORATIVE CHANDELIER	MOODIE	HERACLEUM III THE BIG O	SHAPER	CORONET LED	120 V	32 VA	2,940 lm	4000 K	90	0-10V	ARO PENDANT; MATTE WHITE; FIELD-ADJUSTABLE SUSPENSION; COORD. WITH ARCHITECT	
L	ILLUMINATED MIRROR	BRADLEY	7B1-20-0-24-36	(NONE)	(NONE)	120 V	37 VA	3,650 lm	3000 K	90			
N2	18"L x 2.55"D x 1.07"H UNDERCABINET LIGHT	JUNO	UCES 18IN S1WW5 90CRI WH M6	LITELINE	ELITE LIGHTING	120 V	13 VA	1,100 lm	4000 K	90		DIRECT WIRE; SET SELECTABLE CCT TO 4000K	
OB1	13" LED SITE LIGHT COLUMN, ROUND PROFILE, DIFFUSED LENS	HESS	SE4000QH-F-13-30K-DIM-UNV-BL			120 V	37 VA	3,738 lm	3000 K	80	0-10V	39-3/8" HIGH; ONE-SIDED DISTRIBUTION	
OB2	LED BOLLARD, SHIELDED 180° DISTRIBUTION	BEGA	77 753_K3	WE-EF	TARGETTI USA	120 V	10 VA	411 lm	3000 K	80	0-10V	39-3/8" HIGH; ONE-SIDED DISTRIBUTION	
PAC	ILLUMINATED PEBBLE, STYLE "A" IN "CITRINE" COLOR	ANDlight	PEBBLE-CW-A-CL-DWP010-120	(NOTE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PAS	ILLUMINATED PEBBLE, STYLE "A" IN "SLATE" COLOR	ANDlight	PEBBLE-CW-A-SL-DWP010-120	(NOTE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PBC	ILLUMINATED PEBBLE, STYLE "B" IN "CITRINE" COLOR	ANDlight	PEBBLE-CW-B-CL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PBP	ILLUMINATED PEBBLE, STYLE "B" IN "PEARL" COLOR	ANDlight	PEBBLE-CW-B-PL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PCC	ILLUMINATED PEBBLE, STYLE "C" IN "CITRINE" COLOR	ANDlight	PEBBLE-CW-C-CL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PCP	ILLUMINATED PEBBLE, STYLE "C" IN "PEARL" COLOR	ANDlight	PEBBLE-CW-C-PL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PDP	ILLUMINATED PEBBLE, STYLE "D" IN "PEARL" COLOR	ANDlight	PEBBLE-CW-D-PL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
PDS	ILLUMINATED PEBBLE, STYLE "D" IN "SLATE" COLOR	ANDlight	PEBBLE-CW-D-SL-DWP010-120	(NONE)	(NONE)	120 V	9 VA	622 lm	2700 K	90	0-10V		
Q		QTL	ATOM-01-DW-2-0-18/30-DRY-DF-S4-BW-CLS-WH-CL2L-SST-ST-4-INCH	(NONE)	(NONE)	120 V		3,650 lm	3000 K	90			
Q1	52" BOLA FELT	PABLO	BOLA FELT 24	(NONE)	(NONE)	120 V	12 VA	800 lm	2700 K	95	0-10V	8.9 FT. FIELD CUTTABLE CABLE. COORDINATE LENGTH WITH THE ARCHITECT.	
Q2	42" BOLA FELT	PABLO	BOLA FELT 32	(NONE)	(NONE)	120 V	20 VA	1,625 lm	2700 K	95	0-10V	8.9 FT. FIELD CUTTABLE CABLE. COORDINATE LENGTH WITH THE ARCHITECT.	
Q3	32" BOLA FELT	PABLO	BOLA FELT 42	(NONE)	(NONE)	120 V	20 VA	1,625 lm	2700 K	95	0-10V	8.9 FT. FIELD CUTTABLE CABLE. COORDINATE LENGTH WITH THE ARCHITECT.	
Q4	24 BOLA FELT	PABLO	BOLA FELT 52	(NONE)	(NONE)	120 V	20 VA	1,625 lm	2700 K	95	0-10V	8.9 FT. FIELD CUTTABLE CABLE. COORDINATE LENGTH WITH THE ARCHITECT.	
R1	4"x8" LINEAR	LUMENPULSE	LCM2RO-UL-120-12-27-TAW-FR				3 VA					PROVIDE DIGITAL DATA BRIDGE AND ALL CONNECTORS. CORDS FOR A COMPLETE SYSTEM. ADJUST R1 AND R4 LUMINAIRES FOR OPTIMAL PERFORMANCE. OVERLAP FIXTURES AS REQUIRED TO ACCOMMODATE COVE LENGTHS.	
R4	4"x8" LINEAR	LUMENPULSE	LCM2RO-UL-1200-48-27-TAW-FR				12 VA				0-10V		
TC	6" RECESSED LINEAR LED FIXTURE	FINELITE	HP-4-R-D-6"-B-840-F-96LG-120-SC-FC-10%-C1-FE	AXIS LIGHTING	3G LIGHTING	120 V	27 VA	3,420 lm	4000 K	80	0-10V	FLUSH DIFFUSER	
U1	4' SURACE MOUNTED LED STRIP FIXTURE	LITHONIA	CLX-L48-400LM-SEF-RDL-MVOLT-40K-80CRLWH	<varies>	LSI INDUSTRIES	120 V	23 VA	4,237 lm	4000 K	80	0-10V	-	
U1E	4' SURFACE MOUNTED LED STRIP FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK	LITHONIA	CLX-L48-400LM-SEF-RDL-MVOLT-40K-80CRI-E10W-WH-THCLX WH	<varies>	LSI INDUSTRIES	120 V	23 VA	4,237 lm	4000 K	80	0-10V	INTEGRAL EMERGENCY BATTERY	
W8	4 INCH x 8' RECESSED LINEAR WALL-WASH FIXTURE	FINELITE	HP-4-R-WW-D-8"-S-840-K-SSA-120-SC-FC-10%-C1-FE-SW	AXIS LIGHTING	CORONET LED	120 V	18 VA	3,220 lm	4000 K	80	0-10V	WALL WASH	
WP1	LED FULL-CUTOFF WALL PACK	LITHONIA	WPX1 LED P2 30K MVOLT DDBXD-E14WC	LUMARK	LSI INDUSTRIES	120 V	24 VA	2,478 lm	3000 K	70	0-10V	TYPE III SHORT DISTRIBUTION; DARK BRONZE; WET LOCATION; IP66	
X1	SINGLE FACE LED EXIT SIGN, BACK MOUNTED, SELF POWERED WITH INTEGRAL BATTERY.	SURE-LITES	CX 7 1 SD	LITHONIA	LIGHTALARMS	120 V	6 VA				--	CHEVRONS AS INDICATED ON PLANS	
X2	DOUBLE FACE LED EXIT SIGN, CEILING MOUNT, SELF POWERED WITH INTEGRAL BATTERY.	SURE-LITES	CX 7 2 SD	LITHONIA	LIGHTALARMS	120 V	8 VA				--	CHEVRONS AS INDICATED ON PLANS	
X3	SINGLE FACE LED EXIT SIGN, CEILING MOUNTED, SELF POWERED WITH INTEGRAL BATTERY.	SURE-LITES	CX 7 1 SD	LITHONIA	LIGHTALARMS	120 V	6 VA				--	CHEVRONS AS INDICATED ON PLANS	
X4	SINGLE FACE LED EXIT SIGN, END MOUNTED - LEFT, SELF POWERED WITH INTEGRAL BATTERY.	SURE LITES	CX 7 1 SD	LITHONIA	LIGHTALARMS	120 V	6 VA					CHEVRONS AS INDICATED ON PLANS	
X5	SINGLE FACE LED EXIT SIGN, END MOUNTED - RIGHT, SELF POWERED WITH INTEGRAL BATTERY.	SURE LITES	CX 7 1 SD	LITHONIA	LIGHTALARMS	120 V	6 VA					CHEVRONS AS INDICATED ON PLANS	

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
08/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 90 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn By	JMILOCH
Designer	JMILOCH
Reviewer	STKAM
Manager	CKRETOVIC

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PROJECT NO.
2500281
SHEET NO.
E003
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GENERAL LIGHTING CONTROL NOTES:

1. PROVIDE POWER PACK(S) PER CONTROLLED NORMAL LIGHTING BRANCH CIRCUIT WHERE LOW-VOLTAGE LIGHTING CONTROLS ARE USED.

N1	MANUAL "ON/OFF" BY MEANS OF LOCAL LINE-VOLTAGE WALL SWITCH(ES).
N2	OCCUPIED MODE AS DETERMINED BY TIME SCHEDULE. DURING FACILITY OPEN HOURS, GENERAL LIGHTING SHALL BE SCHEDULED "ON" TO 50% LIGHT OUTPUT. UPON DETECTION OF OCCUPANCY, INCREASE TO 100% LIGHT OUTPUT. RETURN TO 50% LIGHT OUTPUT AFTER A 10-MINUTE VACANCY PERIOD. UNOCCUPIED MODE: AT THE END OF NORMAL BUSINESS HOURS, GENERAL LIGHTING SHALL BE SCHEDULED "OFF." UPON DETECTION OF OCCUPANCY, INCREASE TO 50% LIGHT OUTPUT AND RETURN TO 0% AFTER A 10-MINUTE VACANCY PERIOD. PROVIDE MANUAL OVERRIDE CONTROL. WHERE REMOTE CONTROL IS PROVIDED, PROVIDE LOW-VOLTAGE DIGITAL CONTROLLER WITH PILOT LIGHT. OVERRIDE SHALL AUTOMATICALLY EXPIRE AFTER ONE HOUR.
N3	MANUAL "ON/OFF"; AUTOMATIC "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF WALL-SWITCH VACANCY SENSOR
N4	MANUAL "ON/OFF" BY MEANS OF LOCAL LOW-VOLTAGE CONTROLLER(S). UPON DETECTION OF OCCUPANCY, GENERAL LIGHTING SHALL AUTOMATICALLY TURN "ON." AUTOMATICALLY TURN LIGHTING "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF DUAL-TECHNOLOGY OCCUPANCY SENSOR(S).
N5	MANUAL "ON/OFF" BY MEANS OF LOCAL LOW-VOLTAGE CONTROLLER(S). WHEN 'ON' BUTTON IS ACTIVATED, LIGHTING SHALL TURN "ON." AUTOMATICALLY TURN LIGHTING "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF DUAL-TECHNOLOGY OCCUPANCY SENSOR(S). PROVIDE LOCAL DIMMING WHERE INDICATED.
N6	MANUAL "ON/OFF"; AUTOMATIC "ON" AND AUTOMATIC "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF WALL-SWITCH OCCUPANCY SENSOR.
N7	MANUAL "ON/OFF"; AUTOMATIC "ON" AND AUTOMATIC "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF WALL-SWITCH OCCUPANCY SENSOR.
N8	MANUAL "ON/OFF" BY MEANS OF LOW VOLTAGE CONTROLLER. WHEN 'ON' BUTTON IS ACTIVATED, LIGHTING SHALL TURN "ON." AUTOMATICALLY TURN LIGHTING "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF DUAL TECHNOLOGY OCCUPANCY SENSOR(S).
N9	MANUAL "ON/OFF" AND DIMMING BY MEANS OF TOUCH SCREEN WALL SWITCH. WHEN 'ON' BUTTON IS ACTIVATED, LIGHTING SHALL TURN "ON." AUTOMATICALLY TURN LIGHTING "OFF" WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE BY MEANS OF DUAL TECHNOLOGY OCCUPANCY SENSOR(S).
N10	PROVIDE AUTOMATIC DAYLIGHT-RESPONSIVE CONTROL OF GENERAL LIGHTING WITHIN DESIGNATED DAYLIGHT ZONES. DAYLIGHT IS AVAILABLE. PROVIDE INDEPENDENT CONTROL OF PRIMARY AND SECONDARY SIDELIGHTED ZONES WHERE INDICATED. DAYLIGHT-RESPONSIVE CONTROL SHALL NOT PREVENT MANUAL "OFF" CONTROL.
N11	PROVIDE AUTOMATIC CONTROL OF AT LEAST 50% OF APPLICABLE 125V, 15- AND 20-AMP RECEPTACLES. CONTROLLED RECEPTACLES SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE SPACE AND PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES. OCCUPANCY SENSOR(S) SHALL AUTOMATICALLY DE-ENERGIZE CONTROLLED RECEPTACLES WITHIN 20 MINUTES AFTER ALL OCCUPANTS LEAVE THE SPACE. RECEPTACLES SERVING EQUIPMENT REQUIRING CONTINUOUS OPERATION SHALL NOT BE CONTROLLED.

GENERAL LIGHTING CONTROL NOTES:

1. CONTROL NORMAL EXTERIOR LIGHTING THROUGH THE LIGHTING CONTROL SYSTEM. PROVIDE PHOTOCELL AND/OR ASTRONOMICAL TIME-SWITCH CONTROL TO AUTOMATICALLY TURN LIGHTING "OFF" WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
2. EXTERIOR LIGHTING, OTHER THAN FACADE AND LANDSCAPE LIGHTING, SHALL AUTOMATICALLY REDUCE CONNECTED LIGHTING POWER BY AT LEAST 50% FROM MIDNIGHT OR WITHIN ONE HOUR AFTER THE END OF BUSINESS OPERATIONS, WHICHEVER IS LATER, UNTIL 6:00 A.M. OR THE BEGINNING OF BUSINESS OPERATIONS, WHICHEVER IS EARLIER.
3. PARKING LOT LUMINAIRES RATED GREATER THAN 78 W AND MOUNTED 24 FT OR LESS ABOVE GRADE SHALL AUTOMATICALLY REDUCE LIGHT OUTPUT BY AT LEAST 50% WITHIN 15 MINUTES OF NO ACTIVITY AND RETURN TO NORMAL LIGHT OUTPUT UPON DETECTION OF ACTIVITY. PROVIDE OCCUPANCY/MOTION SENSORS AND ASSOCIATED CONTROL EQUIPMENT. NO MORE THAN 1,500 W OF LIGHTING SHALL BE CONTROLLED TOGETHER.
4. EXTERIOR EMERGENCY LIGHTING SHALL FOLLOW NORMAL EXTERIOR LIGHTING CONTROLS DURING NORMAL POWER AND SHALL AUTOMATICALLY ENERGIZE UPON LOSS OF NORMAL POWER.
5. BUILDING COLUMN UPLIGHTING TO BE CONTROLLED SEPARATELY FROM BUILDING CANOPY LIGHTING.

NETWORKED LIGHTING CONTROL / ZONE SCHEDULE - SHEET 1											
	N1 - MANUAL LINE-VOLTAGE SWITCH	N2 - TIME SCHEDULE / OCCUPANCY	N3 - ON/OFF WALL-SWITCH VACANCY	N4 - ON/OFF - OCCUPANCY	N5 - DIMMING - VACANCY	N6 - ON/OFF WALL-SWITCH OCCUPANCY	N7 - DIMMING WALL-SWITCH VACANCY	N8 - ON/OFF - VACANCY	N9 - DIMMING - VACANCY	N10 - DAYLIGHT CONTROL	N11 - PLUG LOAD CONTROL
SPACE TYPE AND ROOM NUMBERS											
FIRST FLOOR											
101 - VESTIBULE		X									
102 - RECEPTION				X							
103 - FOCUS ROOM							X				
104 - COMMUNITY LIVING ROOM									X	X	
105 - MULTI PURPOSE ROOM									X	X	
106 - STORAGE								X			
107 - ELECTRICAL	X										
108 - RESTROOM						X					
109 - RESTROOM						X					
111 - RESTROOM						X					
112 - MECHANICAL	X										
113 - ELECTRIAL						X					
114 - JC						X					
115 - IT			X								
116 - COAT		X									
117 - OFFICE				X							X
118 - MEETING				X							
119 - CORRIDOR		X									
121 - RESTROOM						X					
151 - VESTIBULE		X									
152 - LOBBY		X									
152A - RESTROOM VESTIBULE		X									
153 - MEN'S				X							
154 - WOMEN'S				X							
155 - UNISEX RESTROOM						X					
156 - DRESSING ROOM					X						
157 - UNISEX RESTROOM						X					
158 - JC				X							
161 - ELECTRICAL	X										
162 - STORAGE				X							
163 - MECHANICAL/ PLUMBING	X										
164 - AV			X								
165 - BAR					X						
166 - CATERING KITCHEN				X							
167 - BAR					X						
168-1 - CORRIDOR-1		X									
169 - BALLROOM									X	X	
170 - BALLROOM									X	X	
172 - Space			X								
640 - CORRIDOR		X									

fishbeck

Engineers | Architects | Scientists | Constructors

Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

REVISIONS

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
08/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 90 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn ByJMILOCH

DesignerJMILOCH

ReviewerSTKAM

ManagerCKRETOVIC

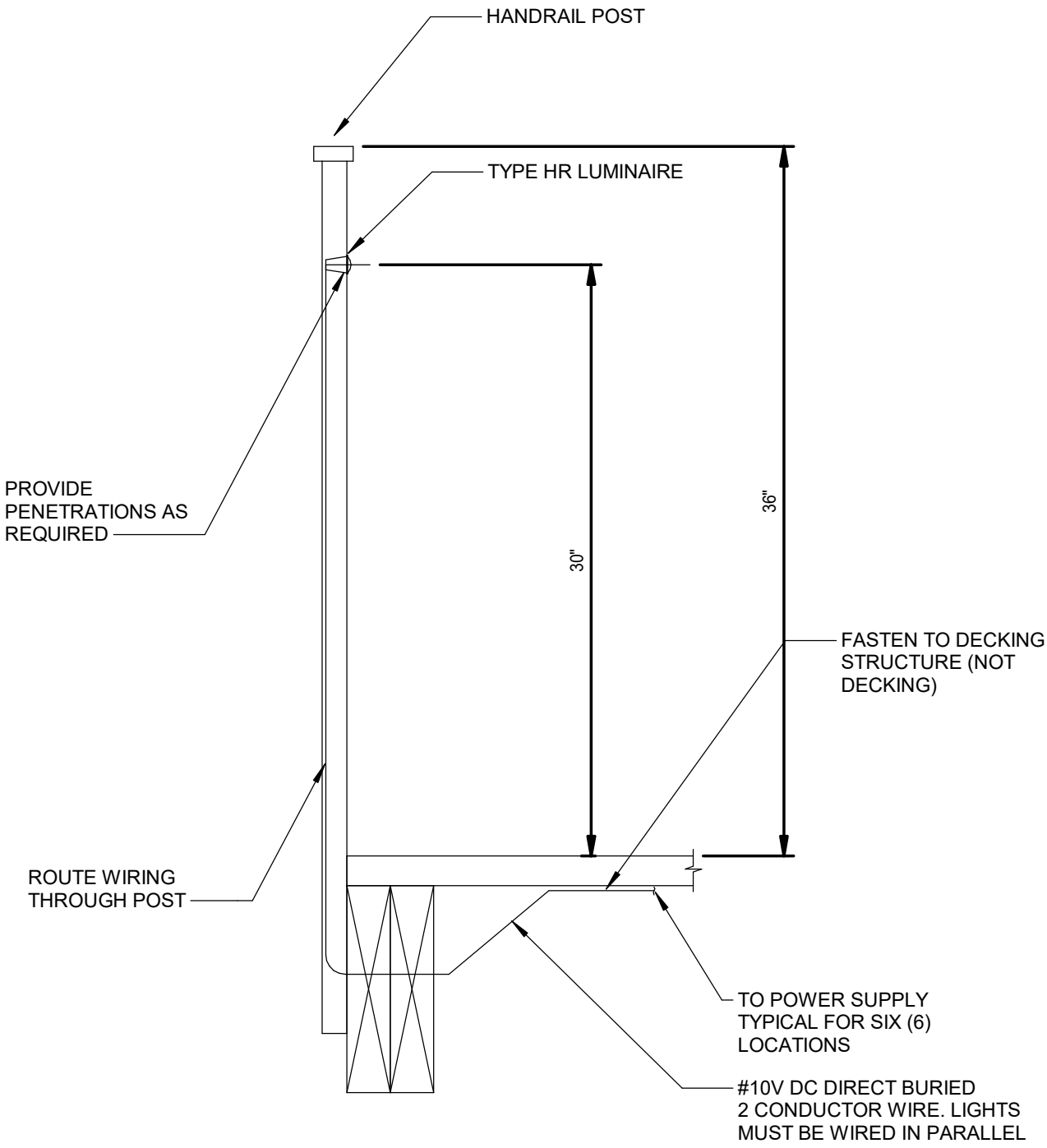
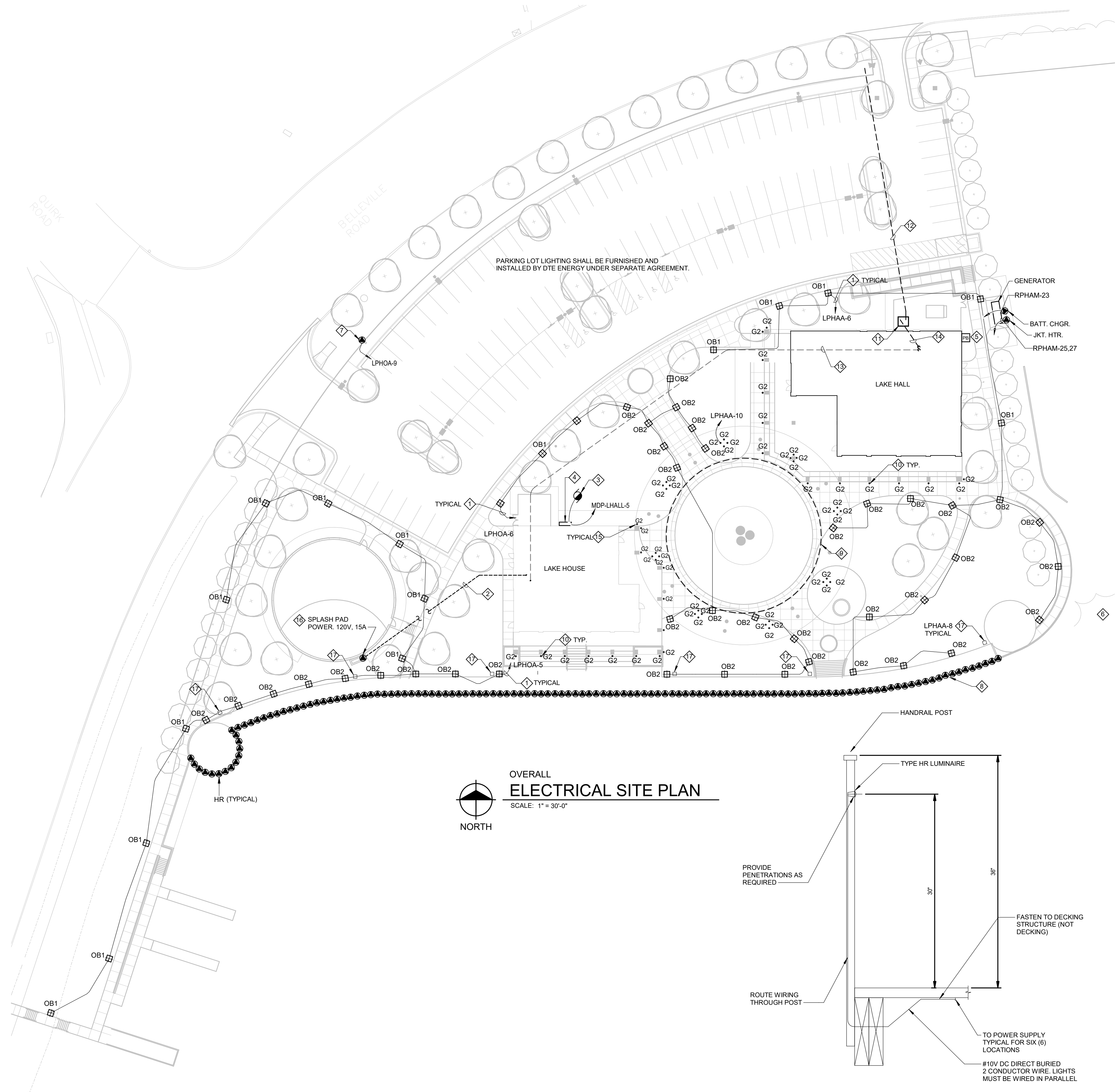
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PROJECT NO.
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SHEET NO.

E004

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HANDRAIL LIGHTING (TYPE HR) DETAIL

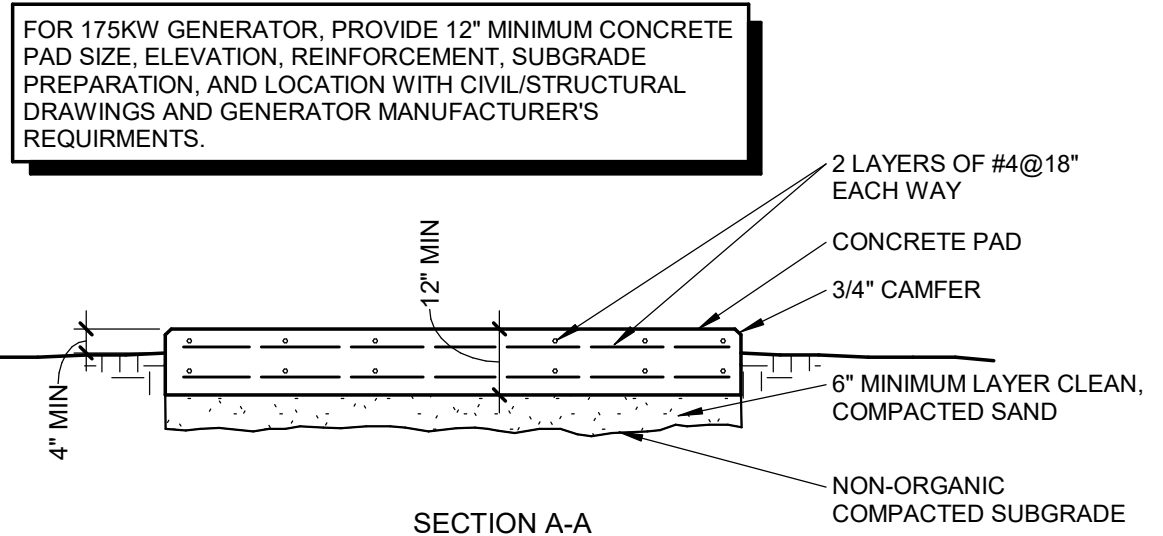
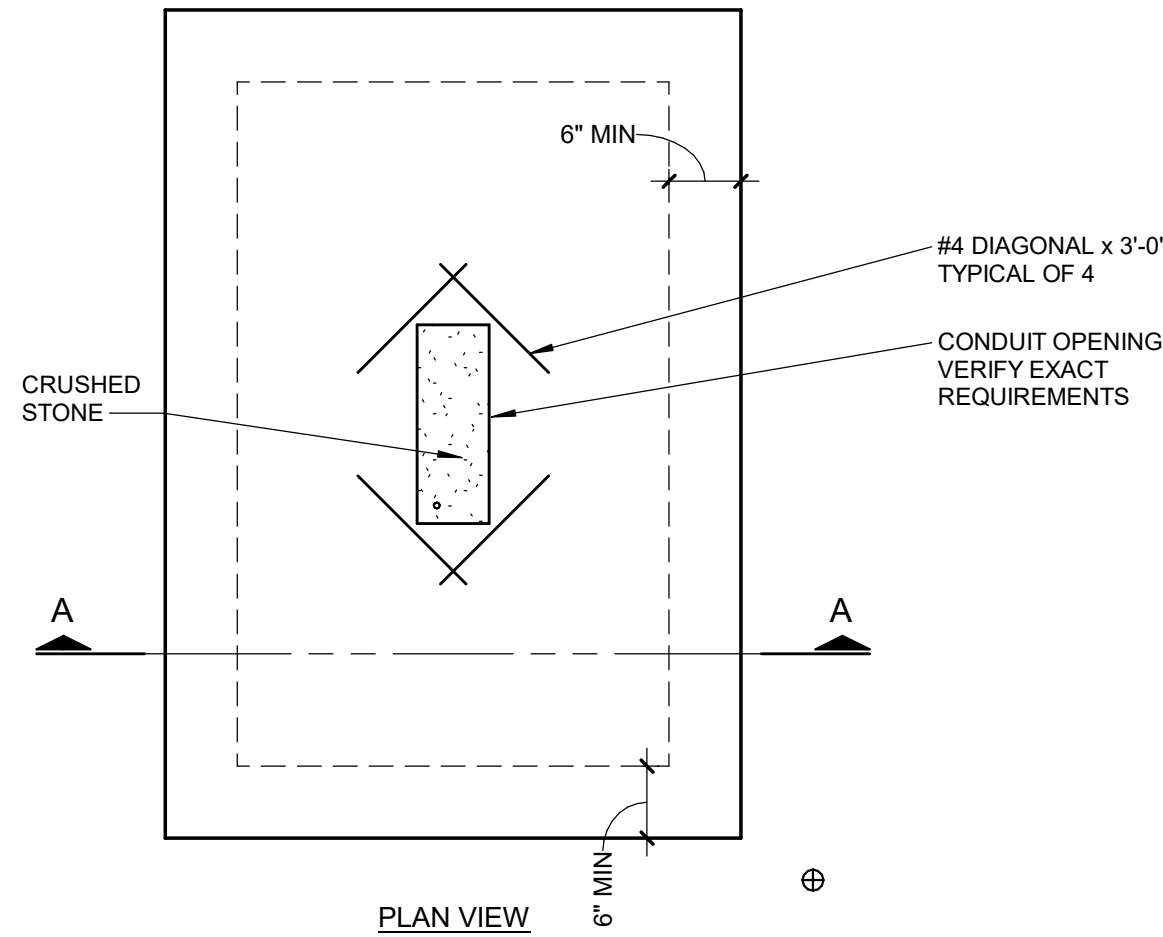
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

- CONDUIT AND WIRE SHALL BE 2#12, #12G, 3/4"C. UNLESS NOTED OTHERWISE.
- REFER TO DRAWING C102 FOR EXISTING LIGHT POLE REMOVAL REQUIREMENTS.

KEY NOTES

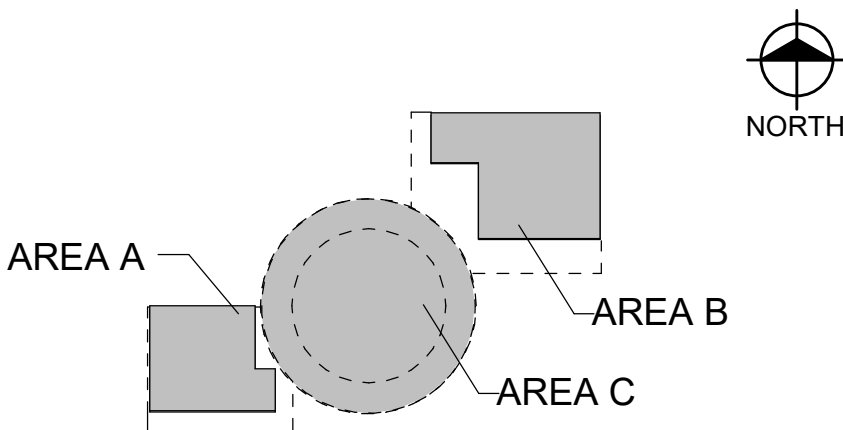
- POLE LIGHTING BRANCH CIRCUITS SHALL BE 2#8 & #10G IN 1"C. U.G. UNLESS NOTED OTHERWISE.
- ELECTRICAL FEEDER FOR THE SPLASH PAD EQUIPMENT. 2#8, #8 GRD, 1"C. TO 1P15A CIRCUIT BREAKER IN PANEL RP-HOM.
- GPS-1 SANITARY GRINDER PUMP STATION, APPROXIMATE LOCATION SHOWN, COORDINATE FINAL LOCATION WITH CIVIL.
- GPS-1 CONTROL PANEL. REFER TO SHEETS E301 AND E401 FOR ADDITIONAL INFORMATION.
- PROVIDE NEMA 3R REMOTE GENERATOR E-STOP STATION WITHIN SIGHT OF GENERATOR, COORDINATE CONNECTION WITH GENERATOR MANUFACTURER.
- NOT USED.
- PROVIDE (2) 2" CONDUITS FROM ELECTRICAL ROOM 107 IN LAKE HOUSE BUILDING TO MARQUEE SIGN. CAP AND MARK ONE CONDUIT AS SPARE. IN SECOND CONDUIT, PROVIDE 2#6 AND #6G. COORDINATE FINAL POWER AND CONNECTION REQUIREMENTS WITH SIGNAGE SHOP DRAWINGS AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE COMPLETE 12VDC LED HANDRAIL LIGHTING SYSTEM, INCLUDING LUMINAIRES, CLASS II POWER SUPPLIES, WEATHERPROOF ENCLOSURES, WIRING, AND ACCESSORIES. COORDINATE QUANTITY, SPACING, MOUNTING, AND POWER SUPPLY LOCATIONS WITH HANDRAIL SHOP DRAWINGS AND MANUFACTURER'S REQUIREMENTS. HANDRAILS ARE APPROXIMATELY 40" ON CENTER. REFER TO THE DETAIL ON THIS DRAWING.
- LED PERIMETER LIGHTING TO GRAZE THE UNDERSIDE OF THE SKYRING. ANTICIPATE A RADIUS OF 283'0". LUMINAIRES SHALL BE TYPE "SK1". REFER TO THE FIXTURE SCHEDULE. DRIVERS SHALL BE MOUNTED IN THE STRUCTURE, HIDDEN FROM VIEW.
- UPLIGHTS TO ILLUMINATE THE COLUMNS, REFER TO E101 AND E102 FOR MORE INFORMATION.
- DTE PAD MOUNTED TRANSFORMER. VERIFY CONDUIT ROUTING WITH THE SERVICE PLANNER, PRIOR TO STARTING CONSTRUCTION. REFER TO THE DTE DETAILS ON E803.
- (2) 5" SCHEDULE 40 PVC CONDUITS TO THE PROPERTY LINE WITH PULL STRINGS AT THE LOCATION DETERMINED BY THE DTE SERVICE PLANNER.
- FEEDER TO LAKE HOUSE. REFER TO E401 FOR FURTHER INFORMATION.
- SERVICE ENTRANCE CONDUCTORS. REFER TO E401 FOR FURTHER INFORMATION.
- REFER TO E101 AND E102 FOR COLUMN UPLIGHT CIRCUITING.
- FOR THE SPLASH PAD, THE ELECTRIC CONTRACTOR SHALL OBTAIN AN ELECTRICAL PERMIT FOR THE SPLASH PAD AND PERFORM THE FINAL HOOK UP AND BONDING LOOP OF FEATURES AND CONCRETE. . REFER TO NEC ARTICAL 680.
- QUAZITE, 24"X 24" X 12"D WITH TIER 22 COVER #B16242412A FOR TYPE HR POWER SUPPLIES AND TERMINAL STRIPS.



GENERATOR PAD DETAIL

NO SCALE

KEY PLAN



Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
08/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 50 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

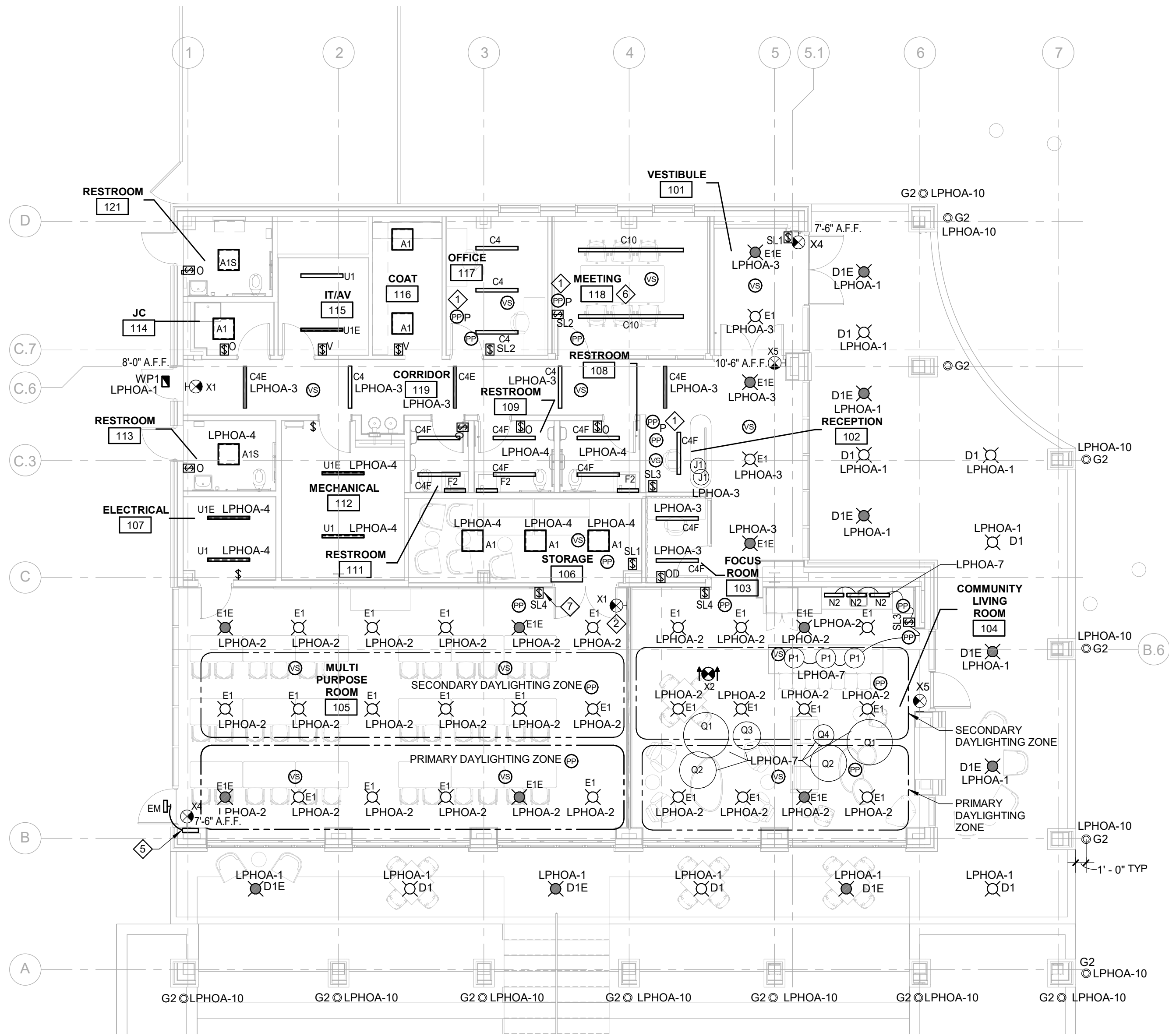
Drawn By JMILOCH
Designer JMILOCH
Reviewer STKAM
Manager CKRETOVIC

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PROJECT NO.
2500281

SHEET NO.

E010



LAKE HOUSE
LIGHTING PLAN - AREA A
SCALE: 1/8" = 1'-0"

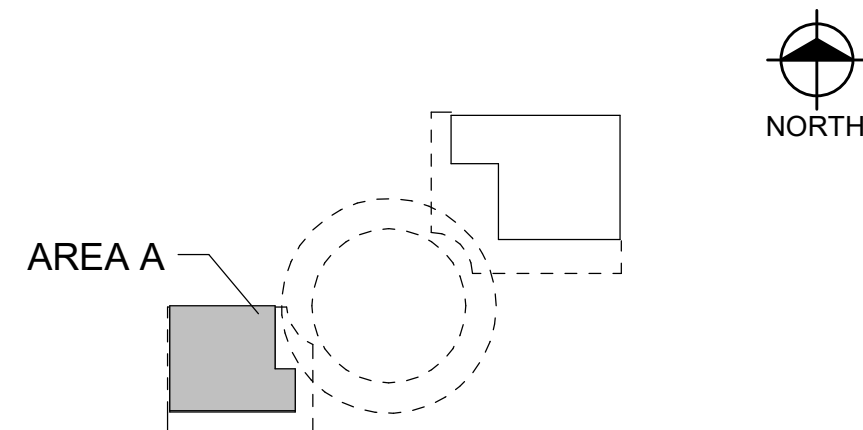
GENERAL NOTES

1. REFER TO SHEET E001 FOR GENERAL PROJECT REQUIREMENTS.
2. REFER TO "T SERIES" AND "Y SERIES" DRAWINGS FOR DATA DROP AND SECURITY REQUIREMENTS
3. THE GENERATOR IS A STANDBY GENERATOR AND NOT DESIGNED FOR LIFE SAFETY.
4. EXIT SIGNS SHALL BE SERVED FROM THE LOCAL AREA CIRCUIT, AHEAD OF ANY CONTROLS.
5. EMERGENCY FIXTURES SHALL BE CONTROLLED WITH THE LOCAL AREA LIGHTING AND SERVED FROM THE LOCAL AREA CIRCUIT, AHEAD OF ANY CONTROLS.

KEY NOTES

1. PLUG LOAD CONTROLLER. REFER TO E201 FOR CONTROLLED RECEPTACLES.
2. EXIT SIGN LOCATED ON HEADER ABOVE THE PARTITION WALL.
3. REFER TO THE ELEVATION FOR THE "PEBBLE FIXTURES"
4. ILLUMINATED MIRROR. BRADLEY:7B1-50-0-24
5. REMOTE POWER SUPPLY FOR EM FIXTURE. LOCATE AT 8'0" AFF. PROVIDE 3 GANG RECESSED BOX.
6. PROVIDE BLACK WIRING DEVICES FOR THIS ROOM.
7. PROVIDE BLACK WIRING DEVICE.

KEY PLAN



Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

REVISIONS

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02/09/2026	SD PROGRESS REVIEW

Drawn By	JMILOCH
Designer	JMILOCH
Reviewer	STKAM
Manager	CKRETOVIC

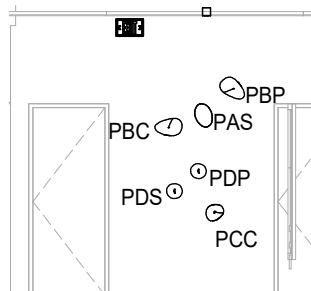
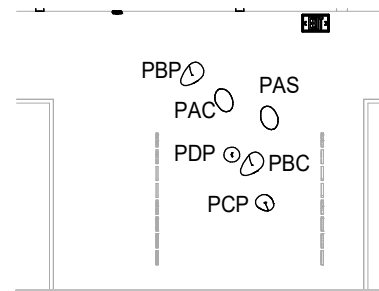
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PROJECT NO.
2500281

SHEET NO.

E101

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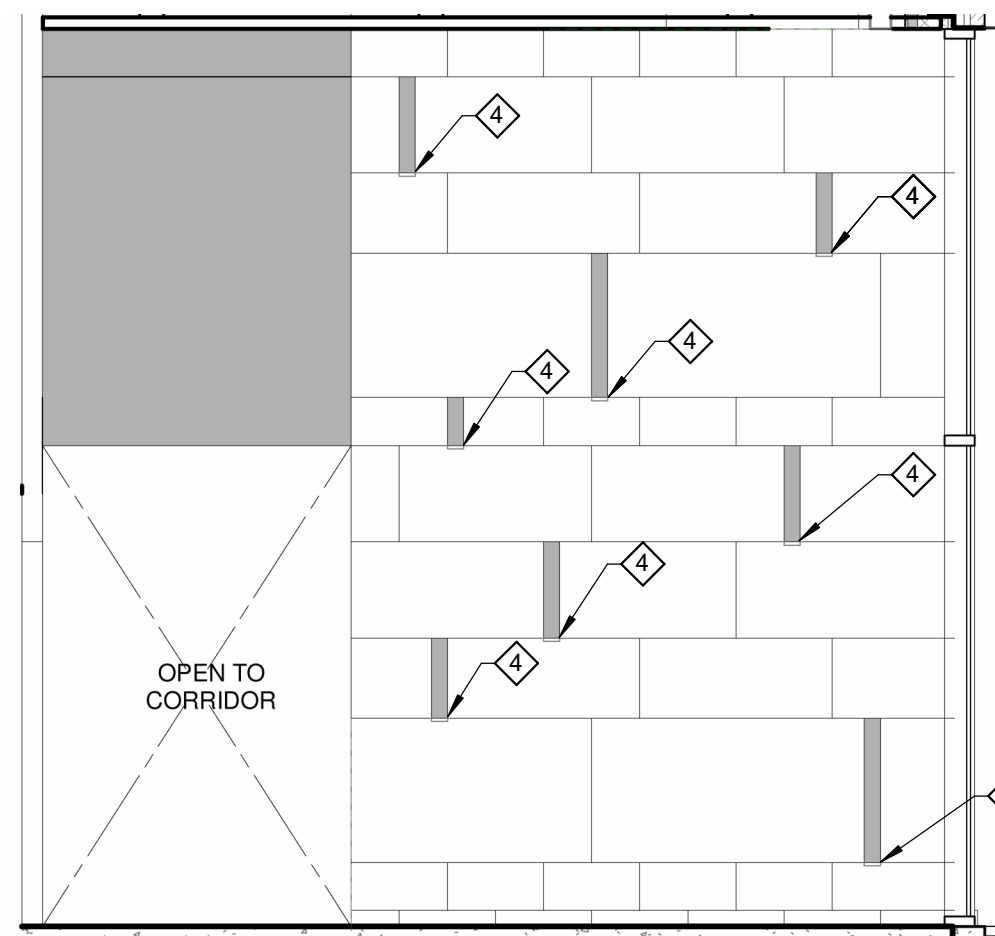
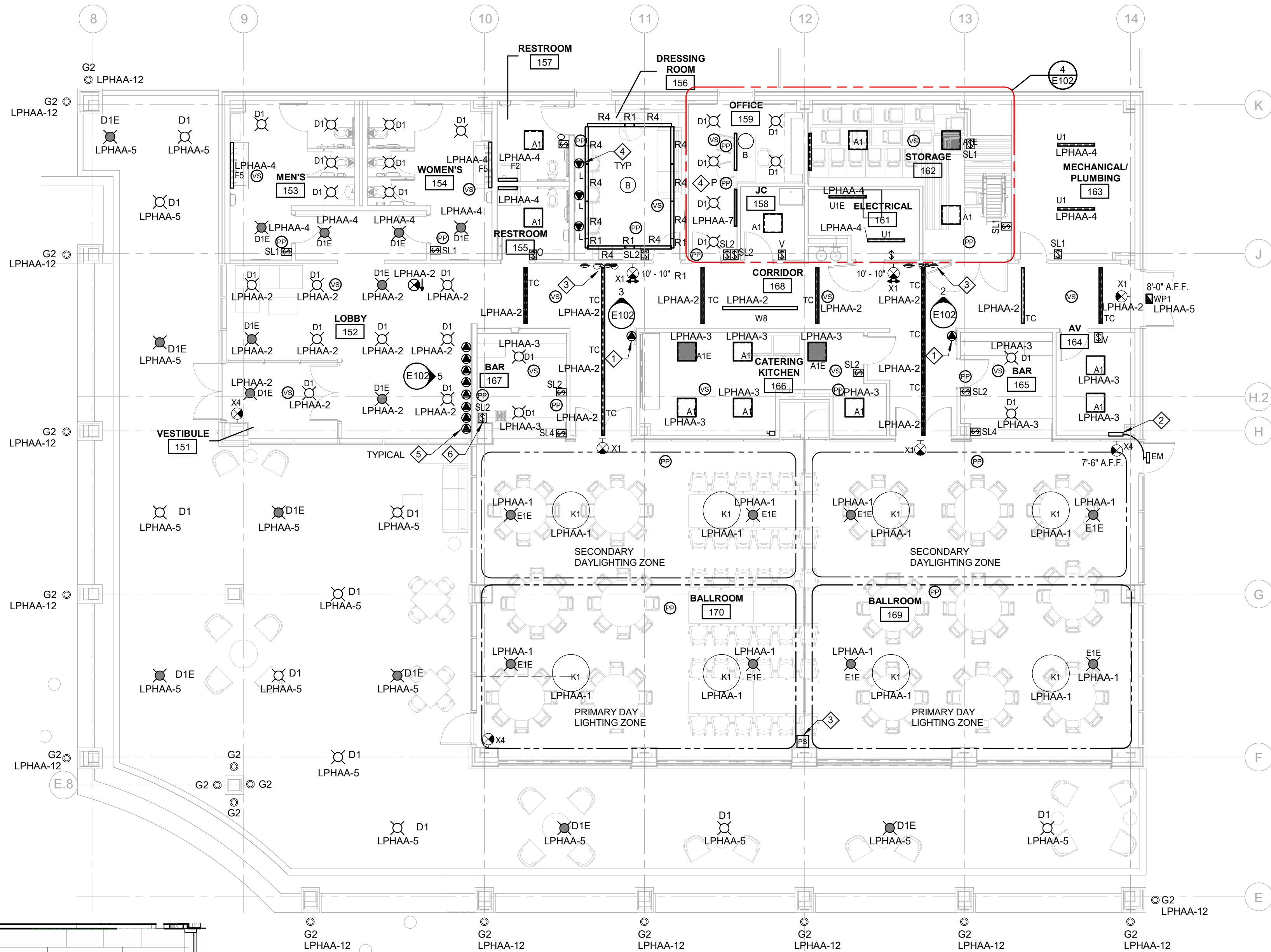


3 FEATURE WALL LIGHTING CORRIDOR #168 - WEST

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

2 FEATURE WALL LIGHTING CORRIDOR #168 - EAST

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



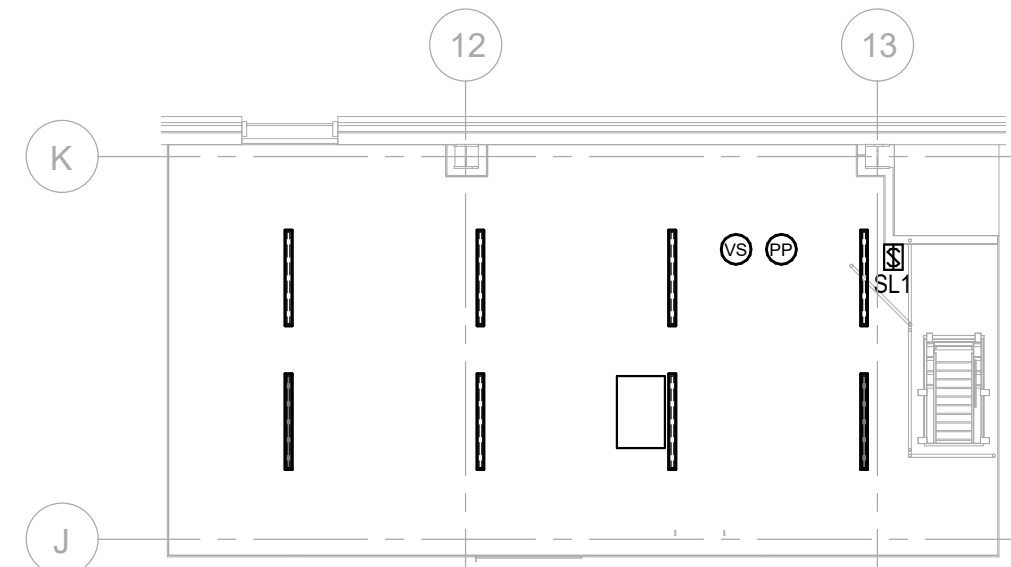
5 LOBBY 152 EAST LIGHTING

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



LAKE HALL LIGHTING PLAN - AREA B

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



LAKE HALL MEZZANINE FLOOR LIGHTING PLAN - AREA B

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

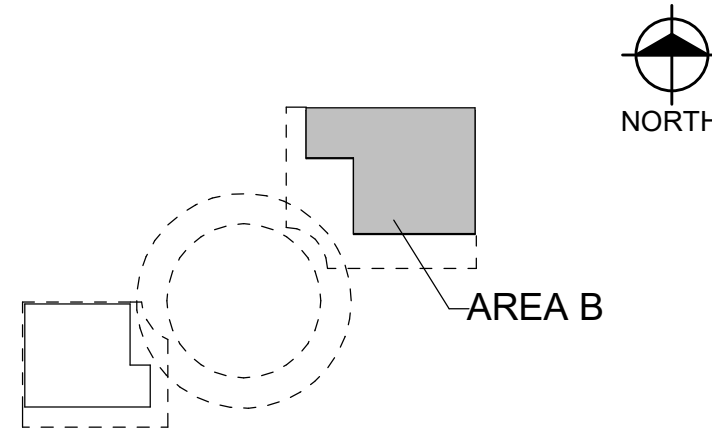
GENERAL NOTES

1. REFER TO SHEET E001 FOR GENERAL PROJECT REQUIREMENTS.
2. REFER TO "T SERIES" AND "Y SERIES" DRAWINGS FOR DATA DROP AND SECURITY REQUIREMENTS
3. THE GENERATOR IS A STANDBY GENERATOR AND NOT DESIGNED FOR LIFE SAFETY.
4. EXIT SIGNS SHALL BE SERVED FROM THE LOCAL AREA CIRCUIT, AHEAD OF ANY CONTROLS.
5. EMERGENCY FIXTURES SHALL BE CONTROLLED WITH THE LOCAL AREA LIGHTING AND SERVED FROM THE LOCAL AREA CIRCUIT, AHEAD OF ANY CONTROLS.

KEY NOTES

1. PROVIDE A JUNCTION BOX ABOVE THE CEILING FOR FUTURE ILLUMINATED SIGNAGE. CIRCUIT WITH THE ADJACENT LIGHTING AND CONTROLS.
2. REMOTE POWER SUPPLY FOR EM FIXTURE. LOCATE AT 8'0" AFF. PROVIDE 3 GANG RECESSED BOX.
3. PARTITION SENSOR TO WORK IN CONJUNCTION WITH THE LIGHTING CONTROL SYSTEM.
4. <varies>
5. TYPE "Q" FIXTURE. REFER TO DETAIL 5 ON THIS SHEET. THESE FIXTURES SHALL HAVE THEIR OWN POWER PACK IN BAR #167, BUT SERVED FROM LPHAA-2 AND CONTROLLED WITH THE LOBBY #152 LIGHTING.
6. DIMMER SWITCH TO ALLOW FOR ADJUSTMENTS TO THE TYPE "Q" FIXTURES.

KEY PLAN



Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

REVISIONS

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Drawn By JMILOCH
Designer JMILOCH
Reviewer STKAM
Manager CKRETOVIC

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PROJECT NO.
2500281

SHEET NO.

E102

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

1. REFER TO THE GENERAL NOTES ON DRAWING E001 FOR FURTHER REQUIREMENTS.
2. REFER TO E401 FOR FEEDER AND DISCONNECT SIZES.
3. REFER TO THE LIGHTING DRAWINGS TO COORDINATE PLUG LOAD CONTROLS.
4. ACTUAL FURNITURE LAYOUT MAY VARY. COORDINATE DEVICE LAYOUT WITH OWNER AND ACTUAL FURNITURE LAYOUT PRIOR TO ROUGH-IN.
5. THE FIRE ALARM SYSTEM IS SHOWN FOR DESIGN INTENT. REFER TO THE APPROVED FIRE ALARM SHOP DRAWINGS FOR COMPLETE SYSTEM DESIGN REQUIREMENTS.
6. REFER TO THE ARCHITECTURAL DETAILS FOR WALLS WITH ACOUSTIC TREATMENTS THAT REQUIRE BOX EXTENSIONS TO ACCOMMODATE THE WALL THICKNESS.

- 1 RECEPTACLES SHALL BE SPLIT WIRED SO THAT ONE HALF OF THE DEVICE SHALL BE CONTROLLED BY THE ROOM OCCUPANCY SENSOR TO SHUT OFF THE RECEPTACLE. 20 MINUTES AFTER LACK OF OCCUPANCY. REFER TO E101 FOR THE PLUS LOAD CONTROL.
- 2 REFER TO THE ONE LINE DIAGRAM ON E401 FOR FEEDER SIZE.
- 3 ROUTE MC CABLE THROUGH MILLWORK TO SERVE THE RECEPTACLE.
- 4 SERVE FROM GFCI CIRCUIT BREAKER IN THE PANELBOARD.
- 5 PROVIDE GROMMETED HOLE FOR PASSAGE OF THE DISHWASHER POWER CORD.
- 6 SIMPLEX RECEPTACLE AT 15" AFF FOR MOTORIZED SHADES.
- 7 REFER TO THE ELEVATION FOR ADDITIONAL CIRCUIT NUMBERS.
- 8 POWER SUPPLY FOR AUTOMATIC PLUMBING SYSTEMS. LOCATE ABOVE THE CEILING. COORDINATE 120V WIRING WITH THE PLUMBING CONTRACTOR. LOW VOLTAGE WIRING SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
- 9 REFER TO THE ELECTRICAL SITE PLAN FOR POWER TO THE SPLASH PAD CONTROL PANEL.
- 10 3#10, #10G, 3/4".
- 11 LOCATE THE RECEPTACLES IN THE MILLWORK THAT IS PERPENDICULAR TO THE BACKSPLASH.
- 12 MOTORIZED DOOR OPERATOR. COORDINATE WITH ARCHITECTURAL TRADES.
- 13 DOOR OPERATOR PUSHBUTTON. 42" AFF
- 14 ROUGH-IN FOR FUTURE DOOR OPERATOR PUSHBUTTON. 42" AFF
- 15 EF-2 ON THE ROOF. LOCAL DISCONNECT BY EQUIPMENT MANUFACTURER. SEE MECH 112 FOR THE SPEED CONTROLLER LOCATION.
- 16 RECEPTACLE SERVING SINK HAND DRYER. SERVE FROM A DEDICATED GFCI CIRCUIT BREAKER. MOUNT AT 26" AFF TO THE TOP OF THE OUTLET.
- 17 RECEPTACLE SERVING SINK ACCESSORIES. SERVE FROM A GFCI CIRCUIT BREAKER. MOUNT AT 26" AFF TO THE TOP OF THE OUTLET.
- 18 PROVIDE BLACK WIRING DEVICES FOR THIS ROOM.
- 19 PROVIDE BLACK WIRING DEVICE.



Van Buren Township, MI

Van Buren Township, MI

The Lakeside Park

REVISIONS

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02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn By	JMILOCH
Designer	JMILOCH
Reviewer	STKAM
Manager	CKRETOVIC

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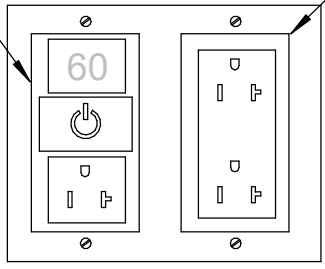
SHEET NO.

E201

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PLOT INFO: 10/12/2026 2:43:38 PM Autodesk Docs://2500281 - Van Buren Twp Lake House/2026_E_2500281.rvt

LEGRAND: PLT2635 SERIES
HEAVY DUTY PLUG LOAD
TIMER RECEPTACLE OR
APPROVED EQUAL



LEGRAND: TR26352R
SERIES DUPLEX OR
APPROVED EQUAL
SERVED FROM THE
ADJACENT
CONTROLLED
RECEPTACLE.

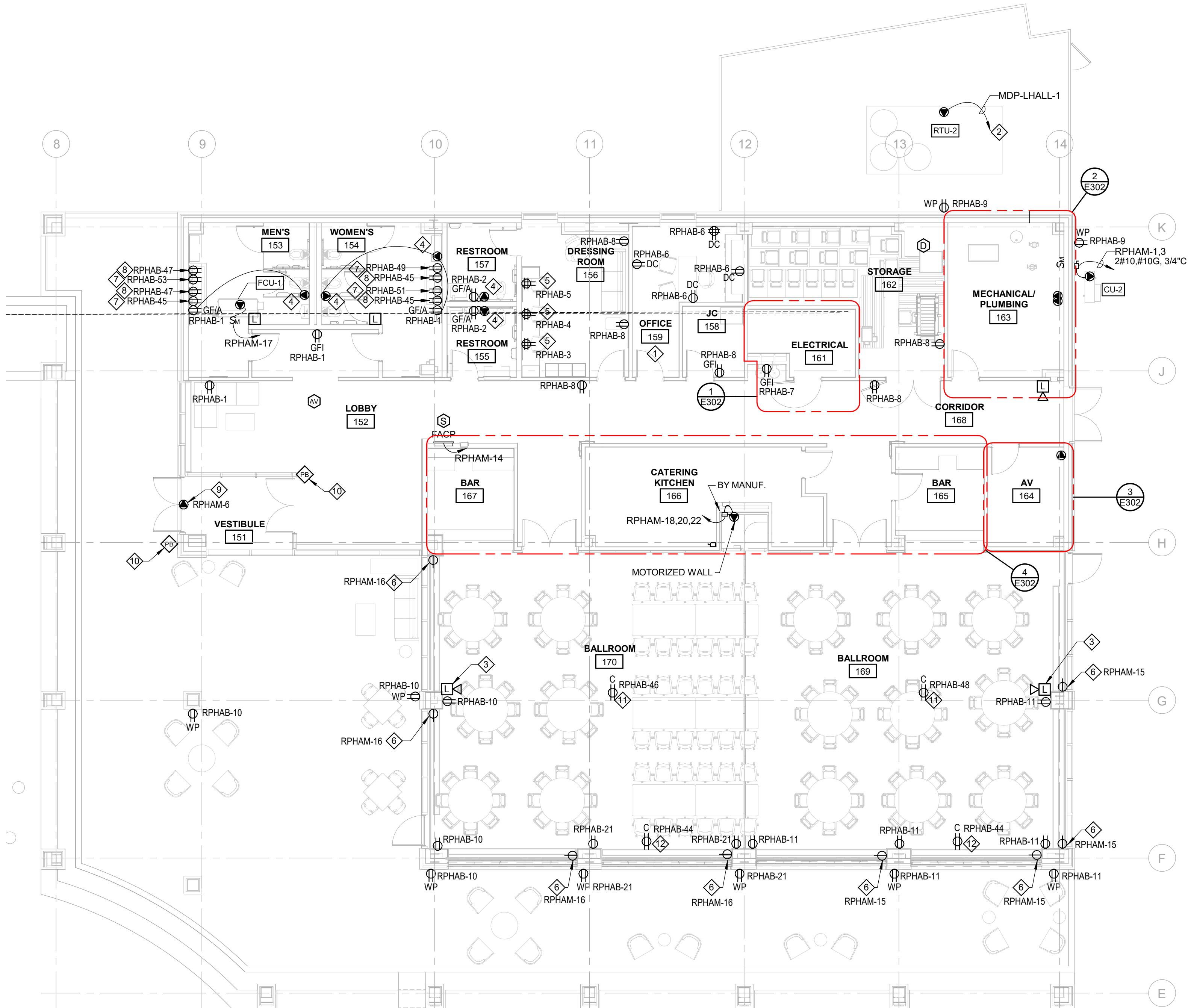
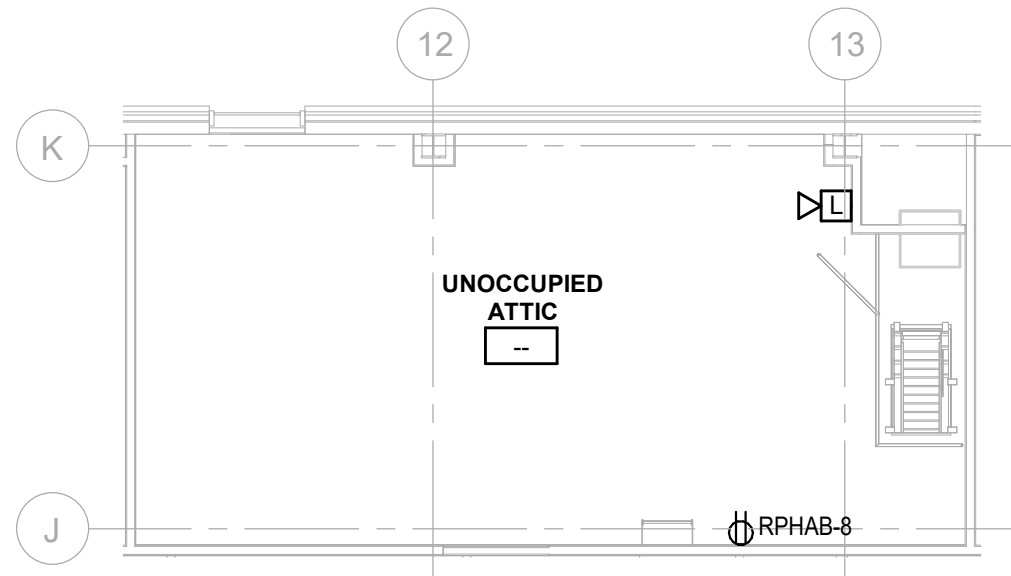
DRESSING ROOM COUNTER RECEPTACLE DETAIL
NO SCALE



LAKE HALL

STORAGE MEZZANINE POWER AND SYSTEMS PLAN

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



LAKE HALL

FIRST FLOOR POWER AND SYSTEMS PLAN

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

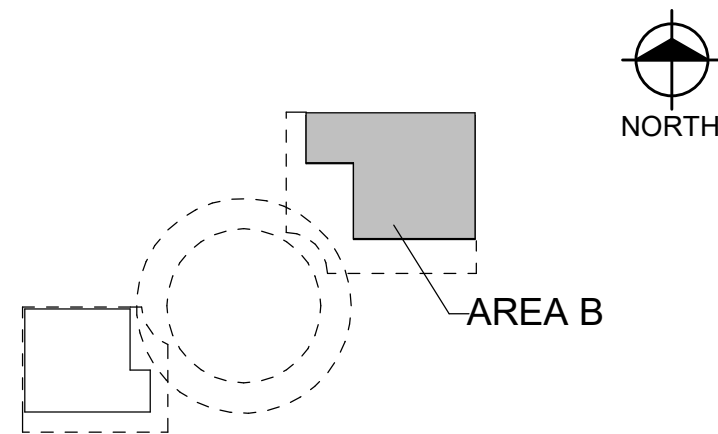
GENERAL NOTES

1. REFER TO THE GENERAL NOTES ON DRAWING E001 FOR FURTHER REQUIREMENTS.
2. REFER TO E401 FOR FEEDER AND DISCONNECT SIZES.
3. REFER TO THE LIGHTING DRAWINGS TO COORDINATE PLUG LOAD CONTROLS.
4. ACTUAL FURNITURE LAYOUT MAY VARY. COORDINATE DEVICE LAYOUT WITH OWNER AND ACTUAL FURNITURE LAYOUT PRIOR TO ROUGH-IN.
5. THE FIRE ALARM SYSTEM IS SHOWN FOR DESIGN INTENT. REFER TO THE APPROVED FIRE ALARM SHOP DRAWINGS FOR COMPLETE SYSTEM DESIGN REQUIREMENTS.

KEY NOTES

- 1 RECEPTACLES SHALL BE SPLIT WIRED SO THAT ONE HALF OF THE DEVICE SHALL BE CONTROLLED BY THE ROOM OCCUPANCY SENSOR TO SHUT OFF THE RECEPTACLE. 20 MINUTES AFTER LACK OF OCCUPANCY. REFER TO E102 FOR THE PLUG LOAD CONTROLLER.
- 2 REFER TO THE ONE LINE DIAGRAM ON E401 FOR FEEDER SIZE.
- 3 CENTER ON COLUMN.
- 4 POWER SUPPLY FOR AUTOMATIC PLUMBING SYSTEMS. LOCATE ABOVE THE CEILING. COORDINATE 120V WIRING WITH DIVISION 22.
- 5 DIGITAL TIMER AND RECEPTACLE AND DUPLEX RECEPTACLE. REFER TO THE DETAIL ON THIS SHEET.
- 6 SIMPLEX RECEPTACLE AT 18'-6" AFF FOR MOTORIZED SHADES.
- 7 RECEPTACLE SERVING SINK HAND DRYER. SERVE FROM A DEDICATED GFCI CIRCUIT BREAKER. MOUNT AT 26" AFF TO THE TOP OF THE OUTLET.
- 8 RECEPTACLE SERVING SINK ACCESSORIES. SERVE FROM A GFCI CIRCUIT BREAKER. MOUNT AT 26" AFF TO THE TOP OF THE OUTLET.
- 9 MOTORIZED DOOR OPERATOR. COORDINATE WITH ARCHITECTURAL TRADES.
- 10 DOOR OPERATOR PUSHBUTTON. 42" AFF
- 11 FOR PROJECTOR AND LIFT.
- 12 FOR MOTORIZED SCREENS

KEY PLAN



Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

REVISIONS

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
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02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn By JMILOCH
Designer JMILOCH
Reviewer STKAM
Manager CKRETOVIC

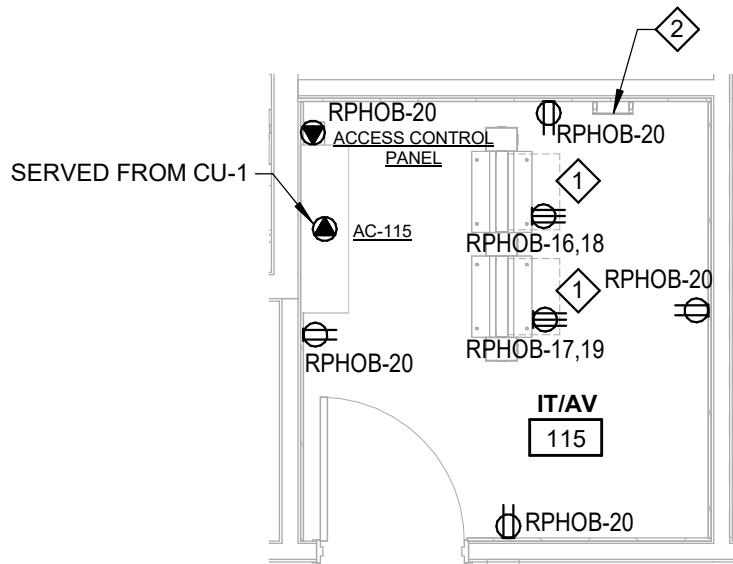
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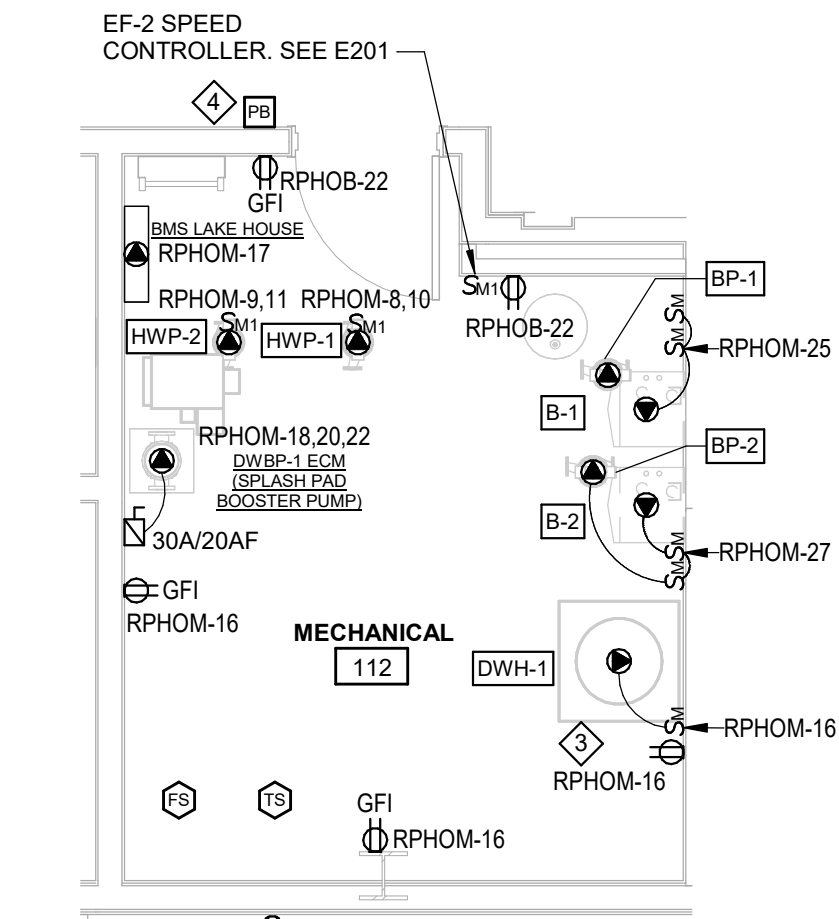
SHEET NO.

E202

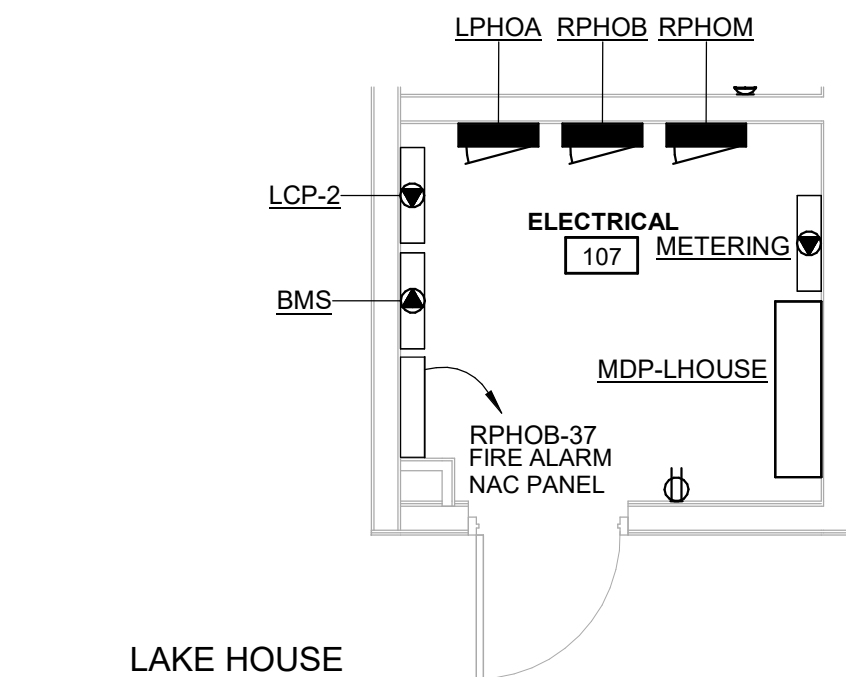
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LAKE HOUSE
ENLARGED IT ROOM #115
SCALE: 1/4" = 1'-0"



LAKE HOUSE
ENLARGED MECH #112
SCALE: 1/4" = 1'-0"



LAKE HOUSE
ENLARGED ELECTRICAL ROOM #107
SCALE: 1/4" = 1'-0"



MULTI PURPOSE ROOM #105 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO THE GENERAL NOTES ON DRAWING E001 FOR FURTHER REQUIREMENTS.
2. REFER TO E401 FOR FEEDER AND DISCONNECT SIZES.
3. REFER TO THE LIGHTING DRAWINGS TO COORDINATE PLUG LOAD CONTRLS.
4. ACTUAL FURNITURE LAYOUT MAY VARY. COORDINATE DEVICE LAYOUT WITH OWNER AND ACTUAL FURNITURE LAYOUT PRIOR TO ROUGH-IN.
5. THE FIRE ALARM SYSTEM IS SHOWN FOR DESIGN INTENT. REFER TO THE APPROVED FIRE ALARM SHOP DRAWINGS FOR COMPLETE SYSTEM DESIGN REQUIREMENTS.

KEY NOTES

1. PROVIDE RACK-MOUNTED NEMA L6-30R RECEPTACLE (HBL2620). COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH TECHNOLOGY DRAWINGS. PROVIDE 2#10, #10G IN 3/4"C.
2. GROUND BAR. REFER TO THE GROUNDING RISER FOR WIRING REQUIREMENTS.
3. PROVIDE 120V, 20A CIRCUIT TO DWH-1 AND DHWP-1. PROVIDE RECEPTACLE FOR DWH-1 AND HARDWIRE DHWP-1 THROUGH AQUASTAT AND LOCAL MOTOR-RATED DISCONNECT SWITCH. COORDINATE FINAL CONNECTION REQUIREMENTS WITH APPROVED EQUIPMENT SUBMITTALS.
4. EMERGENCY POWER OFF BUTTON WITH LEXAN COVER TO SHUT DOWN BOILERS. REFER TO WIRING DIAGRAM ON SHEET E601.

Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

REVISIONS

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02/09/2026	SD PROGRESS REVIEW

Drawn By JMILOCH
Designer JMILOCH
Reviewer STKAM
Manager CKRETOVIC

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PROJECT NO.
2500281

SHEET NO.

E301

Van Buren Township, MI

The Lakeside Park

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09/21/2026	CD PEER REVIEW
08/09/2026	CD TEAM REVIEW
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Manager CKRETOVIC

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2500281

E302

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1. REFER TO THE GENERAL NOTES ON DRAWING E001 FOR FURTHER REQUIREMENTS.
2. REFER TO E401 FOR FEEDER AND DISCONNECT SIZES.
3. REFER TO THE LIGHTING DRAWINGS TO COORDINATE PLUG LOAD CONTROLS.
4. ACTUAL FURNITURE LAYOUT MAY VARY. COORDINATE DEVICE LAYOUT WITH OWNER AND ACTUAL FURNITURE LAYOUT PRIOR TO ROUGH-IN.
5. THE FIRE ALARM SYSTEM IS SHOWN FOR DESIGN INTENT. REFER TO THE APPROVED FIRE ALARM SHOP DRAWINGS FOR COMPLETE SYSTEM DESIGN REQUIREMENTS.
6. ALL CIRCUITS ON THIS PLAN ARE SERVED FROM PANEL RP00N, UNLESS NOTED OTHERWISE.

- 1 30A, 120/208V, 10 RECEPTACLE FOR COFFEE BREWER, COORDINATE NEMA CONFIGURATION WITH EQUIPMENT CORDSET FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
- 2 PROVIDE RACK-MOUNTED NEMA L6-30R RECEPTACLE (HUB) TO COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH TECHNOLOGY DRAWINGS. PROVIDE #2H, #10G IN 3/4".
- 3 PROVIDE 120V, 20A DEDICATED CIRCUIT TO DWH-2 AND DWHP-2. PROVIDE RECEPTACLE FOR DWH-2 AND HARDWARE DWHP-2 THROUGH AQUASTAT AND LOCAL WATER-CONTROLLED DISCONNECT SWITCH. COORDINATE FINAL CONNECTION REQUIREMENTS WITH APPROVED EQUIPMENT SUBMITTALS.
- 4 EMERGENCY POWER OFF BUTTON WITH LEXAN COVER TO SHUT DOWN BOILERS. REFER TO WIRING DIAGRAM ON SHEET E601.
- 5 SERVE FROM A GFCI CIRCUIT BREAKER.
- 6 1/2" CONDUIT BELOW GRADE AT A SIMILAR DEPTH AS THE WATER LINE. STUB, CAP, AND FLAG FOR IRRIGATION CONTROLS

1. "DIVISION 26" SHALL PROVIDE ALL ROUNG-INS WITH PANELS, JUNCTION BOXES, CONDUIT, ETC AND MAKE ALL FINAL CONNECTIONS BETWEEN EQUIPMENT AND ROUNG-IN AND INSTALL ALL WIRING AND ACCESSORIES REQUIRED.
2. ALL JUNCTION BOXES, STARTERS, CORDS AND PLUGS, SWITCHES, CONTACTORS, CONTROLS, THERMOSTATS, ETC DISCOVERED AND REQUIRED BY THE EQUIPMENT, WILL BE FURNISHED BY THE FSEC.
3. ALL NON PREWIRED LOOSE CONTROLS FURNISHED BY THE FSEC (DISCONNECTS, STARTERS, ETC) SHALL BE INSTALLED BY THE "DIVISION 26".
4. ALL 120 VOLT DUPLEX CONVENIENCE OUTLETS ARE TO BE 20 AMP GFI AND TO BE 4'-0" AFF UNLESS NOTED.
5. ALL RECEPTACLES SHOWN AT "F" AFF SHALL HAVE FLOOR MOUNTED RECEPTACLES OR 2" BY 4" BOX MOUNTED RECEPTACLES BY "DIVISION 26" TO ALLOW EQUIPMENT ON 8" HIGH LEGS OR CASTERS TO BE LOCATED OVER RECEPTACLE.



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



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



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



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

PANEL ID		PANEL DESCRIPTION				
MDP-LHOUSE		NEW 3 PHASE DISTRIBUTION PANEL				
Location:		ELECTRICAL 107	Voltage: 208/120 Wye		A.I.C. Rating: 35K	
Supply From:		MSB	Phase: 3		Mains Type: MCB	
Mounting:		SURFACE	Wires: 4		Mains Rating: 400 A	
Enclosure:		NEMA 1	Bussing: COPPER			
CKT	Rev. No.	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1		RTU-1	3	70 A	23913 VA	
2		SPARE	3	100 A	0 VA	
3		SPARE	3	60 A	0 VA	
4		SPARE	3	30 A	0 VA	
5		SPD	3	30 A	0 VA	
6		LPHOA	3	60 A	7104 VA	
7		RPHOB	3	225 A	37520 VA	
8		RPHOM	3	100 A	19500 VA	
9		SPACE	3	--	--	
10		SPACE	3	--	--	
11		SPACE	3	--	--	
12						
13						
14						
15						
16						
17						
18						
19						
20						
			PHASE A	PHASE B	PHASE C	TOTAL AMPS
			31 kVA	29 kVA	28 kVA	244 A
Load Classification		Connected Load	Demand Factor	NEC Calc. Load	Panel Totals	
Equip		24190 VA	100.00%	24190 VA		
Motor		29753 VA	125.00%	37191 VA	Total Connected Load:	88 kVA
RECEPT		27990 VA	67.86%	18995 VA	Total NEC Calc. Load:	88 kVA
Lighting		4958 VA	125.00%	6198 VA	Total Connected Current:	244 A
LTG		11446 VA	125.00%	1432 VA	Total NEC Calc. Current:	244 A
Notes:						

PANEL ID

RPHOB

PANEL DESCRIPTION

NEW 3 PHASE PANELBOARD

Location: ELECTRICAL 107

Supply From: MDP-LHOUSE

Mounting: SURFACE

Enclosure: NEMA 1

Voltage: 208/120 Vye

Phase: 3

Wires: 4

No. of Poles: 72

A.I.C. Rating: 22K

Mains Type: MLO

Rating: 225 A

Bussing: COPPER

CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT
1		FB MULT PURP RM 105 NW	20 A	1	180 VA / 180 VA			1	20 A	FB MULT PURP RM 105 NE		2
3		FB MULT PURP RM 105 MW	20 A	1		180 VA / 180 VA		1	20 A	FB MULT PURP RM 105 ME		4
5		FB MULT PURP RM 105 SW	20 A	1			180 VA / 180 VA	1	20 A	FB MULT PURP RM 105 SE		6
7		REC MULT PURP 105 WEST & EXT.	20 A	1	720 VA / 1080 VA			1	20 A	RECEPT MULTI PURPOSE ROOM...		8
9		REC COM LIV 104 & EXT.	20 A	1		720 VA / 720 VA		1	20 A	REC COM LIV 104 TB & FB		10
11	G	COMM LIV ROOM COUNTER	20 A	1			1200 VA / 540 VA	1	20 A	COMM LIV ROOM COUNTER		12
13		RECEPT ROOMS 640, 102, 103,	20 A	1	1080 VA / 870 VA			1	20 A	RECEPT STORAGE 106		14
15		RECEPT	20 A	1		1000 VA / 2000 VA		2	30 A	Equip. IT 115		16
17		Equip. IT 115	30 A	2			2000 VA / 2000 VA	--			--	18
19	--	--	--	--	2000 VA / 1720 VA			1	20 A	SECURITY PANEL RECEPT IT 115		20
21	G	EWG CORRIDOR 119	15 A	1		600 VA / 1080 VA		1	20 A	RECEPT		22
23		RECEPT OFFICE 117	20 A	1			900 VA / 1260 VA	1	20 A	RECEPT MEETING 118		24
25		SPARE	20 A	1	0 VA / 720 VA			1	20 A	RECEPT COM LIV ISLAND		26
27	G	REFRIGERATOR	20 A	1		720 VA / 360 VA		1	20 A	RECEPT MULTI PURPOSE ROOM...		28
29		REC MULT PURP 105 NE FRONT 105	20 A	1			1080 VA / 360 VA	1	20 A	RECEPT MULTI PURPOSE ROOM...		30
31		REC MULT PURP 105 NW FRONT	20 A	1	1080 VA / 1440 VA			1	20 A	DISHWASHER CLR 104	G	32
33	G	INSTAHOT CLR 103	20 A	1		750 VA / 1000 VA		1	20 A	MICROWAVE COMM LIV RM TOP		34
35		MICROWAVE COMM LIV RM BOT	20 A	1			1000 VA / 900 VA	1	20 A	REC MULT PURP 105 EAST & EXT.		36
37		Equip. AV 107	20 A	1	500 VA / 0 VA							38
39	G	RESTROOM 109 HAND DRYER	20 A	1		1500 VA / 0 VA						40
41	G	RESTROOM 111 HAND DRYER	20 A	1			1500 VA / 0 VA	1	20 A	SPARE		42
43	G	RECEPT REST 108, 109, 111	20 A	1	540 VA / 0 VA			1	20 A	SPARE		44
45	G	RESTROOM 108 HAND DRYER	20 A	1		1500 VA / 0 VA		1	20 A	SPARE		46
47		SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE		48
49		SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE		50
51		SPARE	20 A	1		0 VA / 0 VA		1	--	SPACE		52
53		SPARE	20 A	1			0 VA / 0 VA	1	--	SPACE		54
55		SPARE	20 A	1	0 VA / 0 VA			1	--	SPACE		56
57		SPARE	--	1		0 VA / 0 VA		1	--	SPACE		58
59		SPARE	--	1			0 VA / 0 VA	1	--	SPACE		60
61		SPACE	--	1	0 VA / 0 VA			1	--	SPACE		62
63		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		64
65		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		66
67		SPACE	--	1	0 VA / 0 VA			1	--	SPACE		68
69		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		70
71		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		72

Total Load:

12110 VA

12310 VA

13100 VA

Total Amps:

101 A

103 A

109 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPT	25830 VA	69.36%	17715 VA	
Equip.	11690 VA	100.00%	11690 VA	Total Connected Load: 37520 VA
				Total Estimated Demand: 29605 VA
				Total Connected Current: 104 A
				Total Est. Demand Current: 82 A

Notes: G = GFI CIRCUIT BREAKER

PANEL ID

LPHOA

NEW 3 PHASE PANELBOARD

Location: ELECTRICAL 107

Supply From: MDP-LHOUSE

Mounting: SURFACE

Enclosure: NEMA 1

Voltage: 208/120 Wye

Phase: 3

Wires: 4

No. of Poles: 30

A.I.C. Rating: 22K

Main's Type: MLO

Rating: 100 A

Bussing: COPPER

CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT
1		EXT SOFFIT LTG - LAKE HOUSE	20 A	1	474 VA / 619 VA			1	20 A	LTG MP 105 / COMM LIVING 104		2
3		LTG CORR 119 / RECEIPT 102	20 A	1		518 VA / 513 VA		1	20 A	LTG SUPPORT RMS 106-113		4
5		SW SITE LIGHTING	20 A	1			460 VA / 244 VA	1	20 A	CENTRAL PATHWAY LTG		6
7		Lighting COMMUNITY LIVING ROO.	20 A	1	1131 VA / 405 VA			1	20 A	Lighting MEETING 118		8
9		MARQUEE SIGN POWER	20 A	1		1000 VA / 780 VA		1	20 A	Lighting		10
11		SPARE	20 A	1			0 VA / 960 VA	1	20 A	Lighting		12
13		SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE		14
15		SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE		16
17		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		18
19		SPACE	--	1	0 VA / 0 VA			1	--	SPACE		20
21		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		22
23		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		24
25		SPACE	--	1	0 VA / 0 VA			1	--	SPACE		26
27		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		28
29		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		30
Total Load:					2628 VA	2811 VA	1664 VA					
Total Amps:					23 A	25 A	14 A					

Load Classification				Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting				4958 VA	125.00%	6198 VA		
Equip.				1000 VA	100.00%	1000 VA	Total Connected Load: 7104 VA	
LTG				1146 VA	125.00%	1432 VA	Total Estimated Demand: 8620 VA	
							Total Connected Current: 20 A	
							Total Est. Demand Current: 24 A	

Notes:

PANEL ID

RPHOM

PANEL DESCRIPTION

NEW 3 PHASE PANELBOARD

Location: ELECTRICAL 107

Supply From: MDP-LHOUSE

Mounting: SURFACE

Enclosure: NEMA 1

Voltage: 208/120 Wye

Phase: 3

Wires: 4

No. of Poles: 42

A.I.C. Rating: 18k

Mains Type: MLO

Rating: 125 A

Bussing: COPPER

OKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	OKT	
1	--	CU-1	15 A	2	936 VA / 500 VA			1	15 A	CUH-1 VESTIBULE 101		2	
3	--		--	--		936 VA / 156 VA		2	15 A	EF-2 (ROOF ABOVE RR 111)		4	
5	--	EXT. VEST 101 DOOR OPER	20 A	1			540 VA / 156 VA	--	--			6	
7	--	INT. VEST 101 DOOR OPER	20 A	1	540 VA / 510 VA			2	15 A	HP-1 MECHANICAL 112		8	
9	--	HP-2 MECHANICAL 112	15 A	2		510 VA / 510 VA		--	--			10	
11	--		--	--			510 VA / 900 VA	1	20 A	SHADES COMMUNITY LV RM		12	
13	--	SHADES MULTI PURPOSE	20 A	1	720 VA / 1200 VA			1	15 A	SPLASH PAD EQUIPMENT		14	
15	--	CUH-1	20 A	1		136 VA / 540 VA		1	20 A	WH-1 & DHWP-1 MECHANICAL 112		16	
17	--	BMS LAKEHOUSE MECH 112	20 A	1			500 VA / 1267 VA	3	20 A	DWBP-1		18	
19	--	RTU-1 EXHAUST FAN	30 A	3	1633 VA / 1267 VA			--	--			20	
21	--		--	--		1633 VA / 1267 VA		--	--			22	
23	--		--	--			1633 VA / 0 VA	1	20 A	SPARE		24	
25	--	BOILER B-1, BP-1	15 A	1	500 VA / 0 VA			1	20 A	SPARE		26	
27	--	BOILER B-2, BP-2	15 A	1		500 VA / 0 VA		1	20 A	SPARE		28	
29	--	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE		30	
31	--	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE		32	
33	--	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE		34	
35	--	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE		36	
37	--	SPARE	20 A	1	0 VA / 0 VA			1	--	SPACE		38	
39	--	SPARE	20 A	1		0 VA / 0 VA		--	--	SPACE		40	
41	--	SPARE	20 A	1			0 VA / 0 VA	1	--	SPACE		42	
Total Load:					7806 VA	6188 VA	5506 VA						
Total Amps:					66 A	52 A	46 A						

Load Classification

Motor

RECEPT

Equip.

Connected Load

10740 VA

2160 VA

6600 VA

Demand Factor

125.00%

100.00%

100.00%

Estimated Demand

13425 VA

2160 VA

6600 VA

Panel Totals

Total Connected Load: 19500 VA

Total Estimated Demand: 22185 VA

Total Connected Current: 54 A

Total Est. Demand Current: 62 A

Notes:

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
06/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 50 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn By	JMILOCH
Designer	JMILOCH
Reviewer	STKAM
Manager	CKRETOVIC

Hard copy is intended to be 24"x36" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

PROJECT NO.

2500281

SHEET NO.

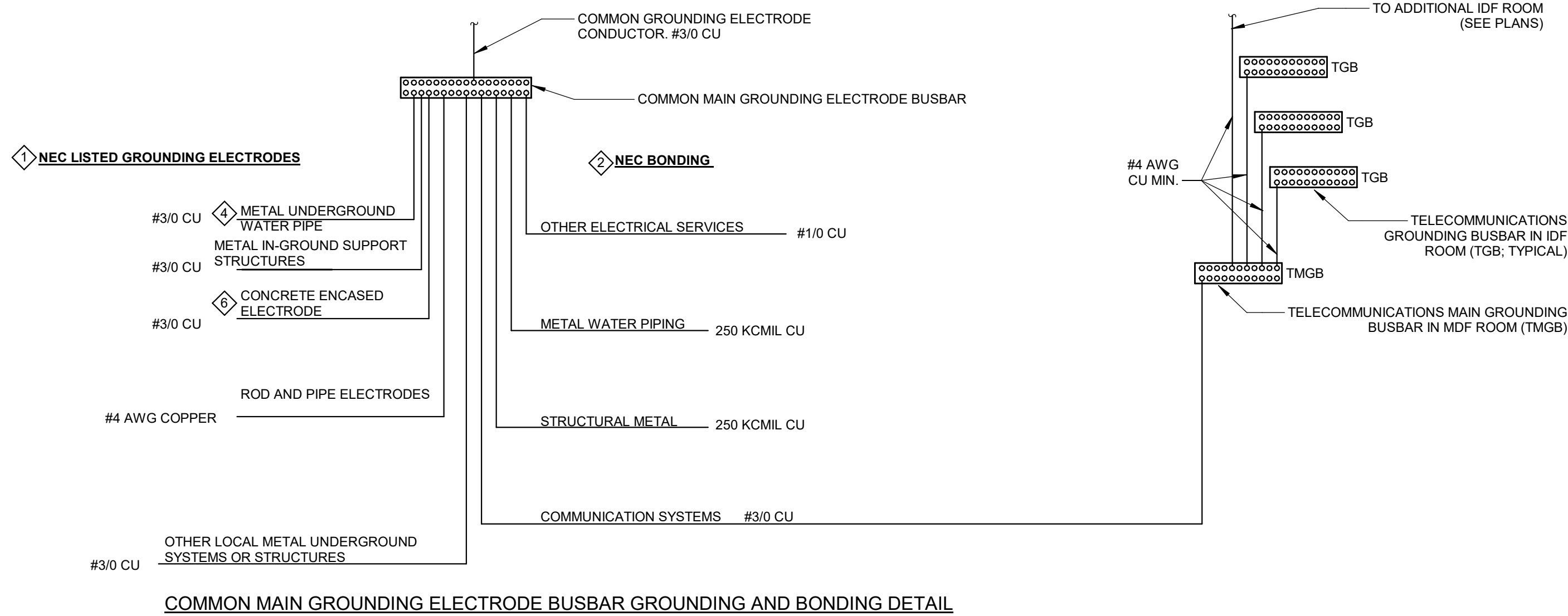
E501

PANEL ID		PANEL DESCRIPTION						
MDP-LHALL		NEW 3 PHASE DISTRIBUTION PANEL						
Location:		ELECTRICAL 161	Voltage:		208/120 Wye	A.I.C. Rating:	35K	
Supply From:		MSB	Phase:		3	Mains Type:	MCB	
Mounting:		SURFACE	Wires:		4	Mains Rating:	600 A	
Enclosure:		NEMA 1	Bussing:					COPPER
CKT	Rev. No.	Circuit Description	# of Poles	Trip Rating	Load	Remarks		
1		RTU-2	3	150 A	56535 VA			
2		LPHAA	3	60 A	5366 VA			
3		RPHAB	3	225 A	58730 VA			
4		RPHAM	3	100 A	11857 VA			
5		GPS-1	3	30 A	3963 VA			
6		SPD	3	20 A	0 VA			
7		SPARE	3	100 A	0 VA			
8		SPARE	3	60 A	0 VA			
9		SPARE	3	30 A	0 VA			
10		100A SPACE	3	--	--			
11		100A SPACE	3	--	--			
12		100A SPACE	3	--	--			
13								
14								
15								
16								
17								
18								
19								
20								
			PHASE A	PHASE B	PHASE C	TOTAL AMPS		
			44 kVA	48 kVA	44 kVA	379 A		
Load Classification		Connected Load	Demand Factor	NEC Calc. Load	Panel Totals			
Equip.		20400 VA	100.00%	20400 VA				
Heating		120 VA	125.00%	150 VA	Total Connected Load: 136 kVA			
Motor		58685 VA	125.00%	73356 VA	Total NEC Calc. Load: 136 kVA			
Other		180 VA	100.00%	180 VA	Total Connected Current: 379 A			
RECEPT		27100 VA	68.45%	18550 VA	Total NEC Calc. Current: 378 A			
Lighting		4054 VA	125.00%	5067 VA				
LTG		1313 VA	125.00%	1641 VA				
REC		2000 VA	100.00%	2000 VA				
Notes:								

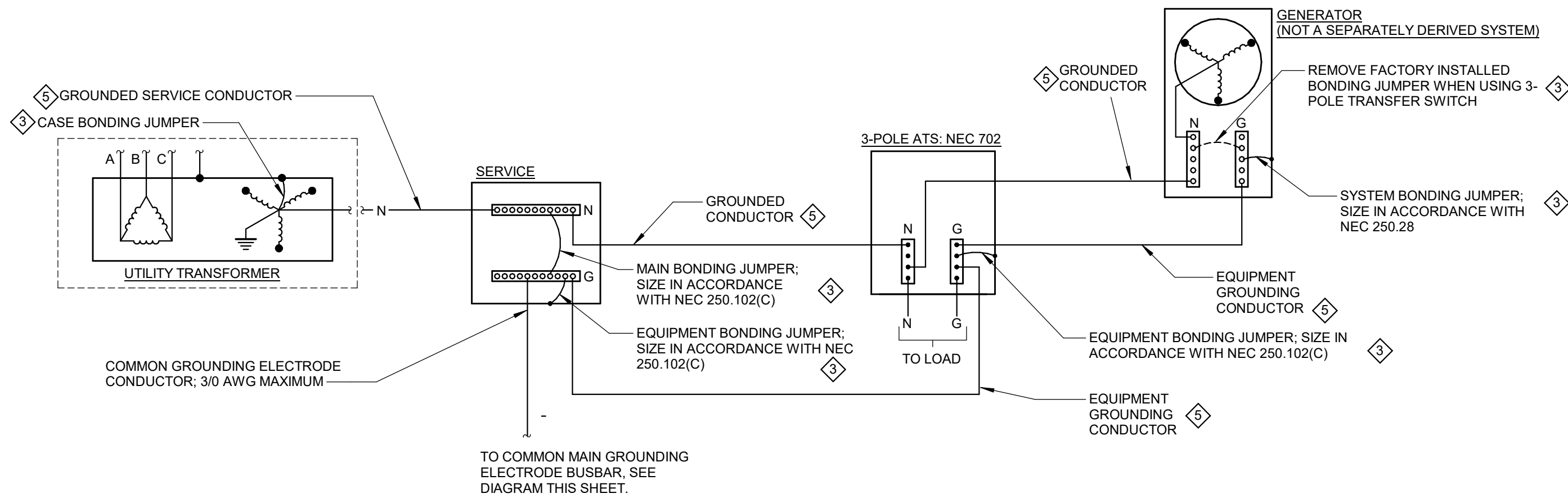
PANEL ID		PANEL DESCRIPTION					
MSB		NEW 3 PHASE SWITCHBOARD					
Location:		ELECTRICAL 161		Voltage: 208/120 Wye		A.I.C. Rating: 65K	
Supply From:				Phase: 3		Mains Type: MLO	
Mounting:				Wires: 4		Mains Rating: 1000 A	
Enclosure: Type 1						Bussing:	
CKT	Rev. No.	Circuit Description		# of Poles	Trip Rating	Load	Remarks
1		MDP-LHALL (ATS-1)		3	600 A	136451 VA	
2		MDP-LHOUSE		3	400 A	88036 VA	
3							
4							
				PHASE A	PHASE B	PHASE C	TOTAL AMPS
				75 kVA	77 kVA	73 kVA	623 A
Load Classification		Connected Load	Demand Factor	NEC Calc. Load		Panel Totals	
Equip.		68503 VA	100.00%	68503 VA			
Heating		120 VA	125.00%	150 VA		Total Connected Load:	224 kVA
Motor		64525 VA	125.00%	80656 VA		Total NEC Calc. Load:	213 kVA
Other		180 VA	100.00%	180 VA		Total Connected Current:	623 A
RECEPT		55080 VA	59.08%	32545 VA		Total NEC Calc. Current:	591 A
Lighting		9012 VA	125.00%	11285 VA			
LTG		2458 VA	125.00%	3073 VA			
REC		2000 VA	100.00%	2000 VA			
Notes:							

PANEL ID		PANEL DESCRIPTION											
RPHAB		NEW 3 PHASE PANELBOARD											
		Location: ELECTRICAL 161		Voltage: 208/120 Wye		A.I.C. Rating: 22K		Supply From: MDP-LHALL		Phase: 3		Mains Type: MCB	
		Mounting: SURFACE		Wires: 4		Rating: 400 A		Mounting: SURFACE		Wires: 4		Rating: 225 A	
		Enclosure: NEMA 1		No. of Poles: 84		Bussing: COPPER		Enclosure: NEMA 1		No. of Poles: 84		Bussing: COPPER	
CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT	
1		RESTROOM / LOBBY RECEPT	20 A	1	870 VA / 460 VA			1	20 A	RESTROOM 155/157 RECEPT		2	
3		RECEPT DRESSING ROOM 156	20 A	1		360 VA / 360 VA		1	20 A	RECEPT DRESSING ROOM 156		4	
5		RECEPT DRESSING ROOM 156	20 A	1			360 VA / 900 VA	1	20 A	RECEPT JC 156		6	
7		EWIC CORRIDOR 168 - GFI	20 A	1	180 VA / 1440 VA			1	20 A	CORR / JC / STOR RECEPT		8	
9		MECH/PLBG 163 & EXT RECEPT	20 A	1		720 VA / 900 VA		1	20 A	RECEPT BALLROOM 170		10	
11		RECEPT BALLROOM 169	20 A	1			1080 VA / 1000 VA	1	20 A	REC AV 164 EQUIP RACK		12	
13		REC AV 164 EQUIP RACK	20 A	1	1000 VA / 0 VA			1	20 A	REC AV 164 ACCESS CONTROL...		14	
15		TELECOM RACK L6-30 RECEPT	30 A	2		2000 VA / 2000 VA		2	30 A	TELECOM RACK L6-30 RECEPT		16	
17	--	--	--	--		2000 VA / 2000 VA	--	--	--	--	--	18	
19	G	BEER DISPENSER BAR 167	15 A	1	504 VA / 180 VA			1	20 A	RECEPT BAR 167		20	
21		RECEPT BALLROOM 170	20 A	1		720 VA / 1200 VA		1	20 A	RECEPT CATERING KITCHEN 166		22	
23		RECEPT CATERING KITCHEN 166	20 A	1			1200 VA / 1200 VA	1	20 A	RECEPT CATERING KITCHEN 166		24	
25		RECEPT CATERING KITCHEN 166	20 A	1	2400 VA / 456 VA			1	20 A	REFRIG CATERING KITCHEN 166	G	26	
27	G	FREEZER CATERING KITCHEN 166	15 A	1		780 VA / 1440 VA		1	15 A	HOT FOOD CABINET CATERING...	G	28	
29	G	ICE MAKER CATERING KITCHEN...	15 A	1			1356 VA / 1608 VA	1	20 A	MICROWAVE CATERING KITCHE...		30	
31	G	COFFEE BRW CAT KITCHEN 166	35 A	2	3050 VA / 600 VA			1	20 A	DRAIN TEMP KIT KIT 166		32	
33	--	--	--	--		3050 VA / 2988 VA		3	30 A	DISHWASHER CAT KITCHEN 166		34	
35		RECEPT BAR 165	20 A	1			180 VA / 2988 VA	--	--	--	--	36	
37	G	BEER DISPENSER BAR 165	15 A	1	792 VA / 2988 VA			--	--	--	--	38	
39		RECEPT BAR 167	20 A	1		180 VA / 180 VA		1	20 A	RECEPT BAR 167		40	
41		RECEPT BAR 165	20 A	1			180 VA / 180 VA	1	20 A	RECEPT BAR 165		42	
43		RECEPT CATERING KITCHEN 166	20 A	1	180 VA / 1000 VA			1	20 A	MOTORIZED SCREENS		44	
45	G	RECEPT MEN'S 153 HAND DRYERS	20 A	1		1860 VA / 120...		1	20 A	PROJECTOR BALLROOM 170		46	
47	G	RECEPT Room 153, 154 ACCESS	20 A	1			360 VA / 1200 VA	1	20 A	PROJECTOR BALLROOM 169		48	
49	G	RECEPT WOMEN'S 154 HAND DRY	20 A	1	1500 VA / 0 VA			1	20 A	SPARE		50	
51	G	RECEPT WOMEN'S 154 HAND DRY	20 A	1		1500 VA / 0 VA		1	20 A	SPARE		52	
53	G	RECEPT MEN'S 153 HAND DRYER	20 A	1		1500 VA / 0 VA		1	20 A	SPARE		54	
55		ACCESS CONTROL AV 164	20 A	1	400 VA / 0 VA			1	20 A	SPARE		56	
57		SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE		58	
59		SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE		60	
61		SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE		62	
63		SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE		64	
65		SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE		66	
67		SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE		68	
69		SPACE	--	1		0 VA / 0 VA		1	20 A	SPARE		70	
71		SPACE	--	1			0 VA / 0 VA	1	20 A	SPARE		72	
73		SPACE	--	1	0 VA / 0 VA			1	20 A	SPARE		74	
75		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		76	
77		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		78	
79		SPACE	--	1	0 VA / 0 VA			1	--	SPACE		80	
81		SPACE	--	1		0 VA / 0 VA		1	--	SPACE		82	
83		SPACE	--	1			0 VA / 0 VA	1	--	SPACE		84	
Total Load:					18000 VA	21438 VA	19292 VA						
Total Amps:					150 A	180 A	162 A						
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Kitchen Equipment - Non-Dwelling Unit		13636 VA	65.00%	8863 VA									
Motor		8964 VA	125.00%	11205 VA	Total Connected Load: 58730 VA								
Other		180 VA	100.00%	180 VA	Total Estimated Demand: 48548 VA								
RECEPT		25300 VA	69.76%	17650 VA	Total Connected Current: 163 A								
Equip.		8650 VA	100.00%	8650 VA	Total Est. Demand Current: 135 A								
REC		2000 VA	100.00%	2000 VA									
Notes: G = GFCI CIRCUIT BREAKER													

PANEL ID		PANEL DESCRIPTION											
LPHAA		NEW 3 PHASE PANELBOARD											
		Location: ELECTRICAL 161		Voltage: 208/120 Wye		A.I.C. Rating: 22K		Supply From: MDP-LHALL		Phase: 3		Mains Type: MCB	
		Mounting: SURFACE		Wires: 4		Rating: 400 A		Mounting: SURFACE		Wires: 4		Rating: 400 A	
		Enclosure: NEMA 1		No. of Poles: 3		Bussing: COPPER							
CKT	Rev. No.	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	Rev. No.	CKT	
1		BALLROOMS 168 & 170 LTG	20 A	1	455 VA / 805 VA			1	20 A	VESTIBULATORY CORR. LTG.		2	
3		BAR/CATERING/AV LTG 164-167	20 A	1		448 VA / 421 VA		1	20 A	RR / DRESS / OFFICE / SUPPORT...		4	
5		EXTERIOR CANOPY LIGHTING	20 A	1			534 VA / 325 VA	1	20 A	EXTERIOR PEDESTRIAN LTG		6	
7		LIGHTING DRESSING ROOM 156	20 A	1	449 VA / 191 VA			1	20 A	HANDRAIL LIGHTING		8	
9						0 VA / 720 VA		1	20 A	UPLIGHTS AT THE SKYRING		10	
11	SPARE		20 A	1			0 VA / 1020 VA	1	20 A	COLUMN UPLIGHTS		12	
13	SPARE		20 A	1	0 VA / 0 VA			1	20 A	SPARE		14	
15	SPARE		20 A	1		0 VA / 0 VA		1	20 A	SPARE		16	
17	SPACE	--	1				0 VA / 0 VA	1	--	SPACE		18	
19	SPACE	--	1	0 VA / 0 VA				1	--	SPACE		20	
21	SPACE	--	1			0 VA / 0 VA		1	--	SPACE		22	
23	SPACE	--	1				0 VA / 0 VA	1	--	SPACE		24	
25	SPACE	--	1	0 VA / 0 VA				1	--	SPACE		26	
27	SPACE	--	1			0 VA / 0 VA		1	--	SPACE		28	
29	SPACE	--	1				0 VA / 0 VA	1	--	SPACE		30	
Total Load:					1899 VA	1589 VA	1879 VA						
Total Amps:					16 A	13 A	16 A						
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Lighting			4054 VA		125.00%		5067 VA		Total Connected Load:			5366 VA	
LTG			1313 VA		125.00%		1641 VA		Total Estimated Demand:			6708 VA	
									Total Connected Current:			15 A	
									Total Est. Demand Current:			19 A	
Notes:													



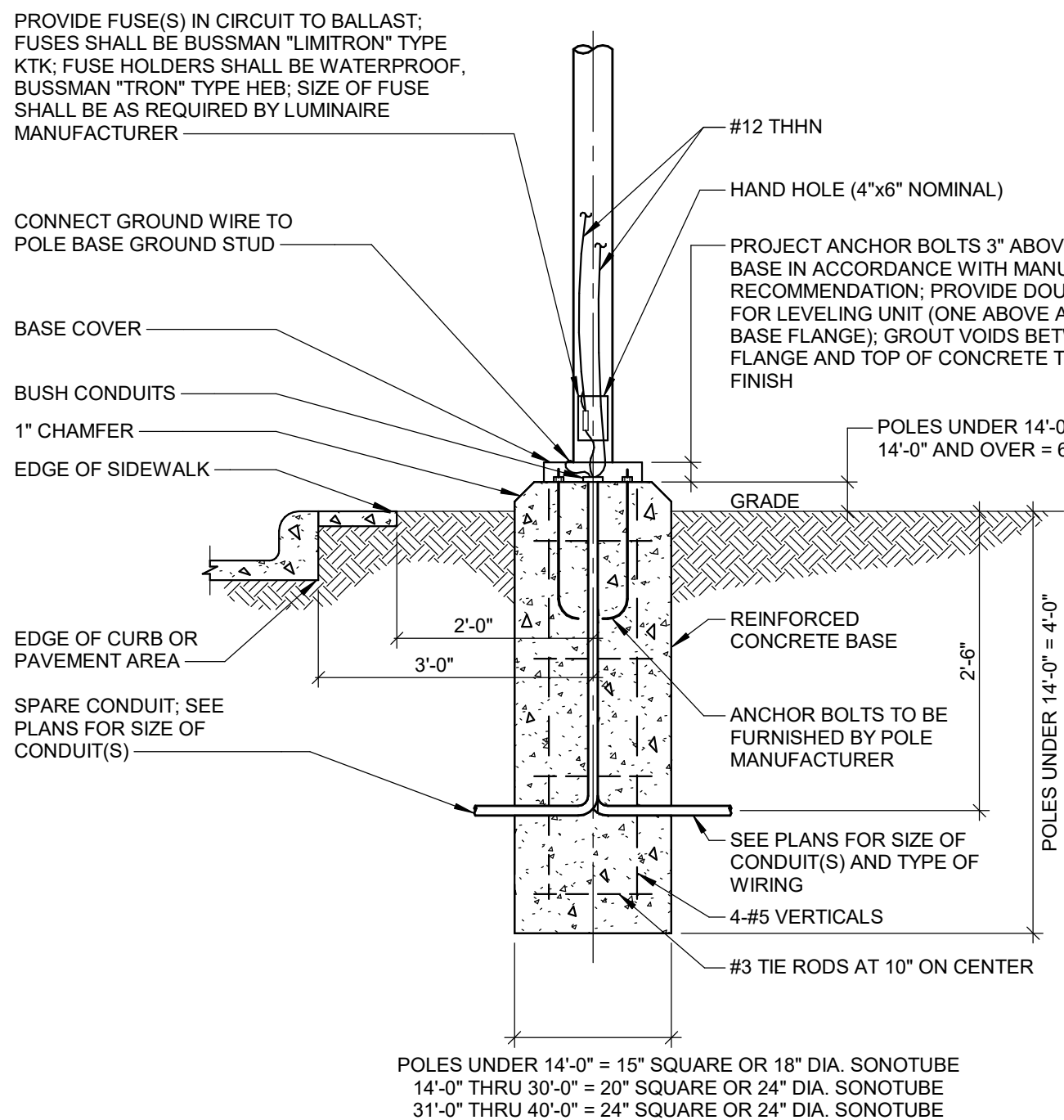
COMMON MAIN GROUNDING ELECTRODE BUSBAR GROUNDING AND BONDING DETAIL



4-WIRE ELECTRICAL SERVICE AND GENERATOR WITH 3-POLE TRANSFER SWITCHES GROUNDING AND BONDING DETAIL

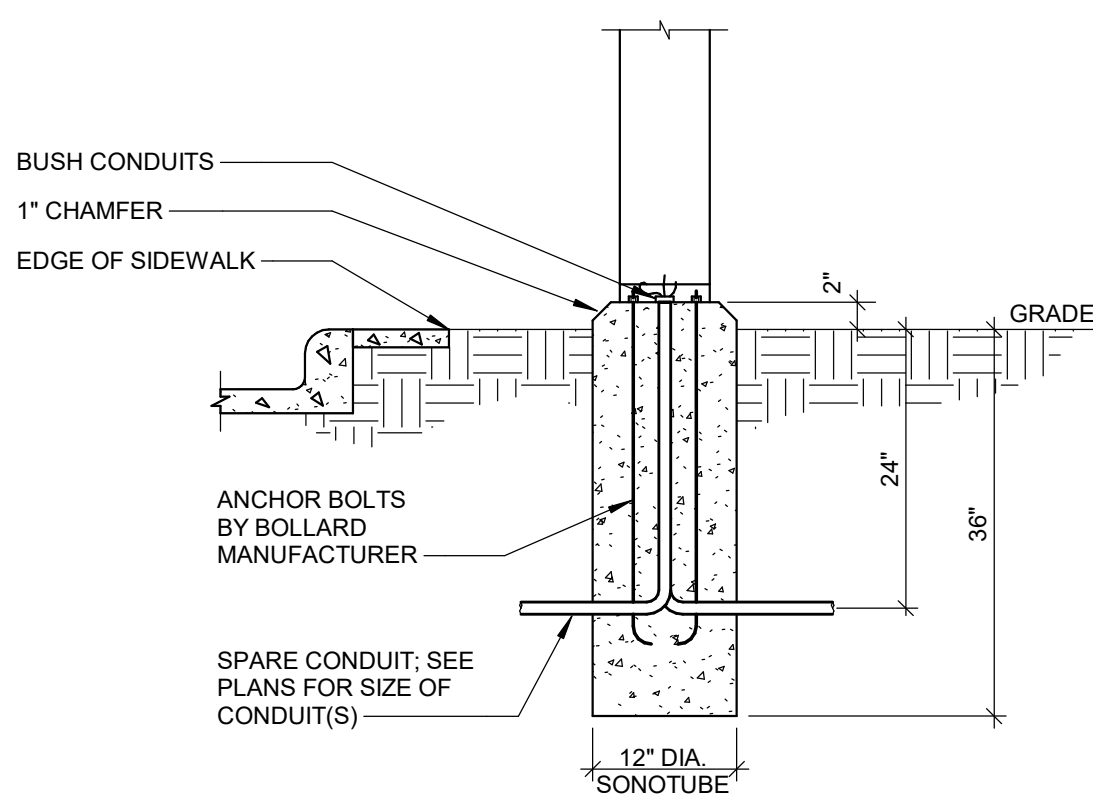
NO SCALE

NOTE:
PRECAST CONCRETE BASES SHALL BE ACCEPTABLE IN LIEU OF CAST-IN-PLACE BASES. SEE SPECIFICATIONS



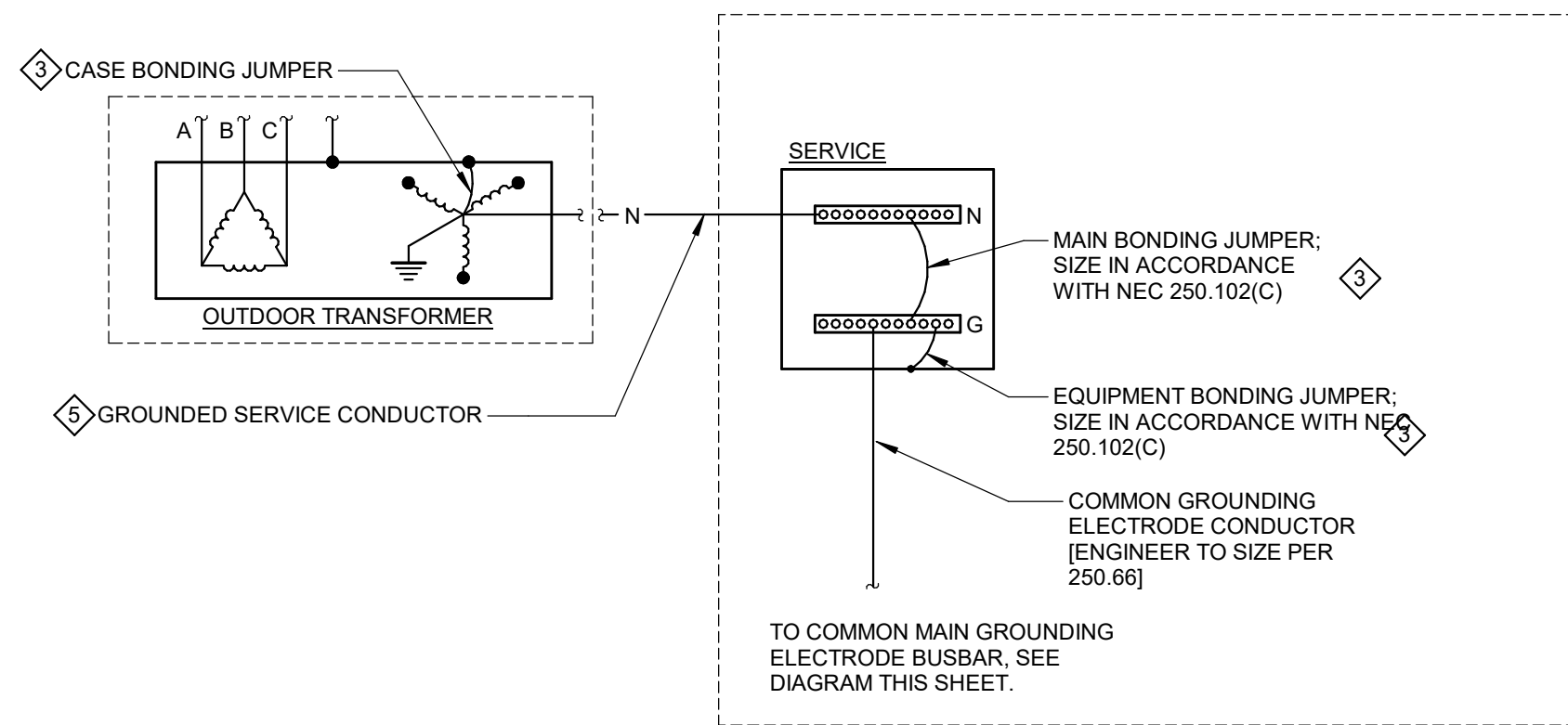
OUTDOOR LIGHTING STANDARD CONCRETE BASE DETAIL

NO SCALE



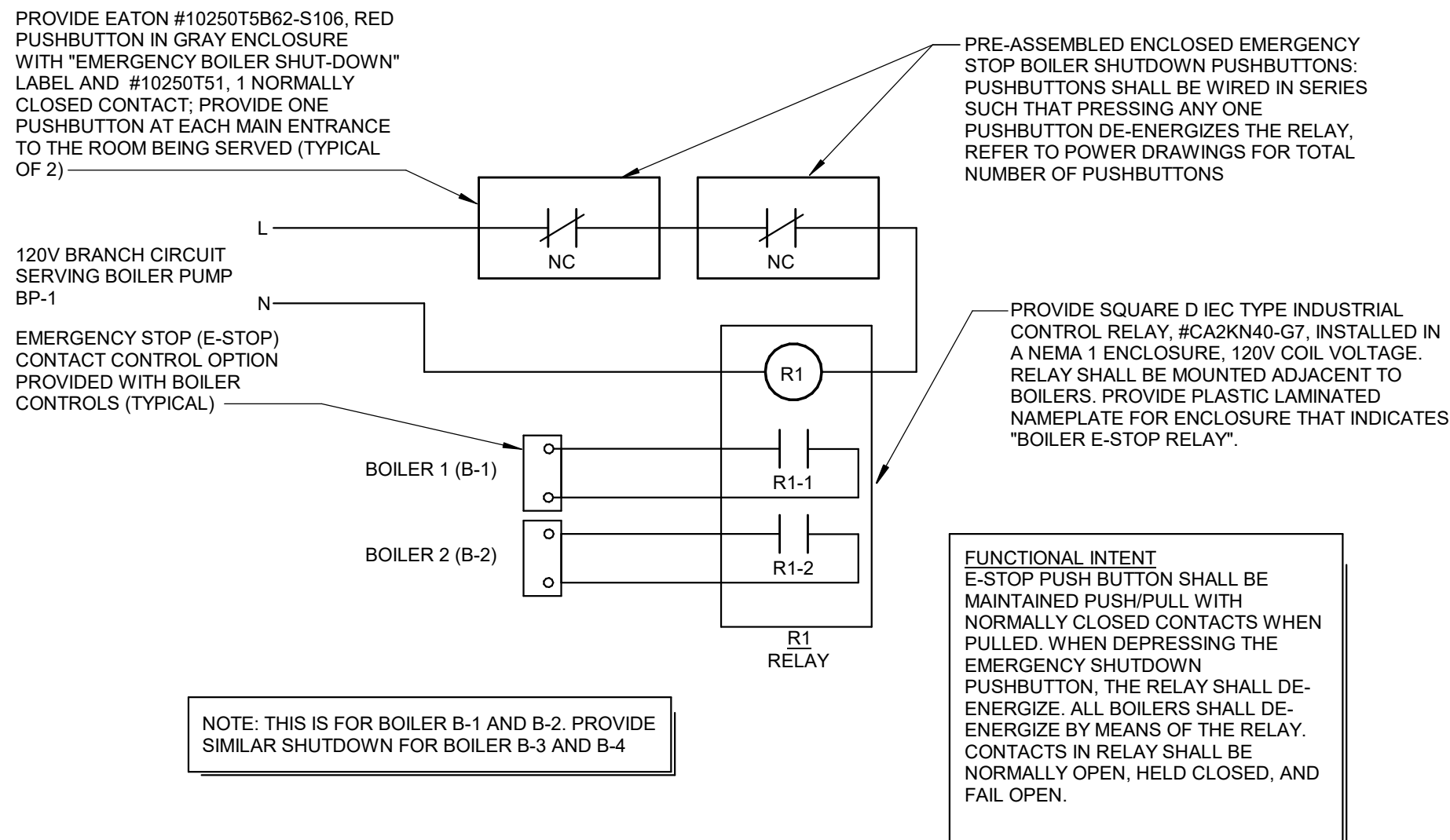
BOLLARD BASE DETAIL

NO SCALE



ELECTRICAL SERVICE GROUNDING AND BONDING DETAIL

NO SCALE



EMERGENCY BOILER SHUTDOWN WIRING DIAGRAM

NO SCALE

GENERAL NOTES

- ALL GROUNDING ELECTRODE AND BONDING CONDUCTORS EXPOSED ABOVE GRADE ARE TO BE INSTALLED IN SCHEDULE 80 PVC CONDUIT.
- COMMON GROUND BARS SHALL NOT BE LESS THAN 1/4" THICK X 2" WIDE AND OF A LENGTH TO ACCOMMODATE THE NUMBER OF TERMINATIONS NECESSARY FOR THE INSTALLATION. THE BUS BAR SHALL BE SECURELY FASTENED AND SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. CONNECTIONS SHALL BE MADE BY A LISTED CONNECTOR OR BY THE EXOTHERMIC WELDING PROCESS. IF NUT AND BOLT TERMINATIONS ARE TO BE USED TWO BOLTS PER TERMINATION WILL BE REQUIRED AND ONE CONDUCTOR PER TERMINATION.
- ALL CONDUCTORS ARE TO COPPER AND BE LABELED WITH THEIR PURPOSE.
- ALL CONNECTIONS ARE TO BE LISTED AND BE EITHER EXOTHERMIC WELDED OR IRREVERSIBLE CONNECTION.

KEY NOTES

- ALL GROUNDING ELECTRODES AS DESCRIBED THAT ARE PRESENT AT EACH BUILDING, STRUCTURE, OR BUILDING ADDITION SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. IF NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE FOLLOWING GROUNDING ELECTRODES (GROUND RING, ROD AND PIPE ELECTRODES, OTHER LISTED ELECTRODES, PLATE ELECTRODES, OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES) SHALL BE INSTALLED AND USED. CONCRETE-ENCASED ELECTRODES OF EXISTING BUILDINGS OR STRUCTURES SHALL NOT BE REQUIRED TO BE PART OF THE GROUNDING ELECTRODE SYSTEM IF THE REBAR IS NOT ACCESSIBLE FOR USE WITHOUT DISTURBING THE CONCRETE.
- BONDING SHALL BE PROVIDED TO ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY FAULT CURRENT LIKELY TO BE IMPOSED. IF INSTALLED IN OR ATTACHED TO A BUILDING OR STRUCTURE, A METAL PIPING SYSTEM(S) INCLUDING GAS PIPING THAT IS (ARE) LIKELY TO BECOME ENERGIZED SHALL BE BONDED TO ANY OF THE FOLLOWING: (1) EQUIPMENT GROUNDING CONDUCTOR FOR THE CIRCUIT THAT IS (ARE) LIKELY TO ENERGIZE THE PIPING SYSTEM. (2) SERVICE EQUIPMENT ENCLOSURE (3) GROUNDING CONDUCTOR AT SERVICE (4) GROUNDING ELECTRODE CONDUCTOR, IF OF SUFFICIENT SIZE (5) ONE OR MORE GROUNDING ELECTRODES USED. IF THE GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER TO THE GROUNDING ELECTRODE IS OF SUFFICIENT SIZE. COORDINATE REQUIREMENTS WITH AUTHORITY HAVING JURISDICTION.
- TYPICALLY THIS IS PROVIDED BY THE MANUFACTURER OF THE EQUIPMENT BUT MAY NEED TO BE PROVIDED BY THE INSTALLING CONTRACTOR IF MISSING.
- MAKE CONNECTION WITHIN 5 FEET OF WATER SERVICE ENTRANCE. IF METAL UNDERGROUND WATER PIPE IS NOT AVAILABLE, THE PRIMARY GROUNDING ELECTRODE SHALL BE THE CONCRETE ENCASED ELECTRODE.
- SEE ONE LINE DIAGRAM FOR CONDUCTOR SIZE.
- PROVIDE IRREVERSIBLE CONNECTION TO CONCRETE-ENCASED ELECTRODE(S). CONNECTION SHALL BE LISTED FOR "ENCASED IN CONCRETE" USE.

REVISIONS

10/12/2026	BIDS & PERMIT
09/21/2026	CD PEER REVIEW
09/09/2026	CD TEAM REVIEW
08/10/2026	CD 50% PROGRESS
08/22/2026	DD OWNER REVIEW
06/15/2026	DD PEER REVIEW
06/08/2026	DD 90 % PROGRESS
05/18/2026	DD 90 % PROGRESS
02/23/2026	SD OWNER REVIEW
02/13/2026	SD PEER REVIEW
02/09/2026	SD PROGRESS REVIEW

Drawn By	Author
Designer	Designer
Reviewer	Checker
Manager	CKRETOVIC

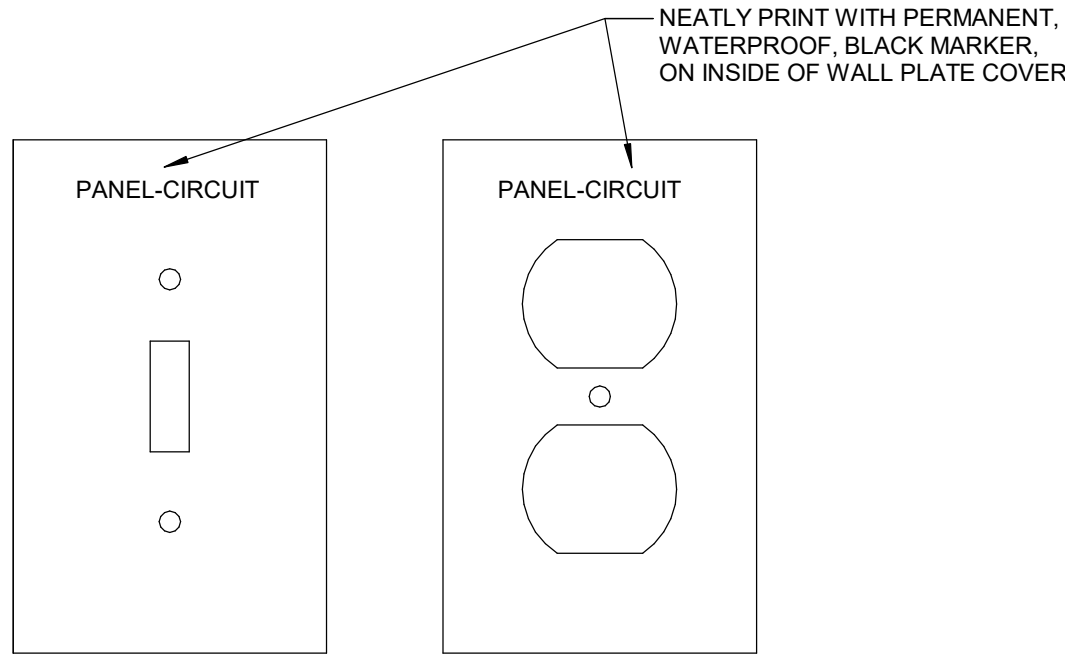
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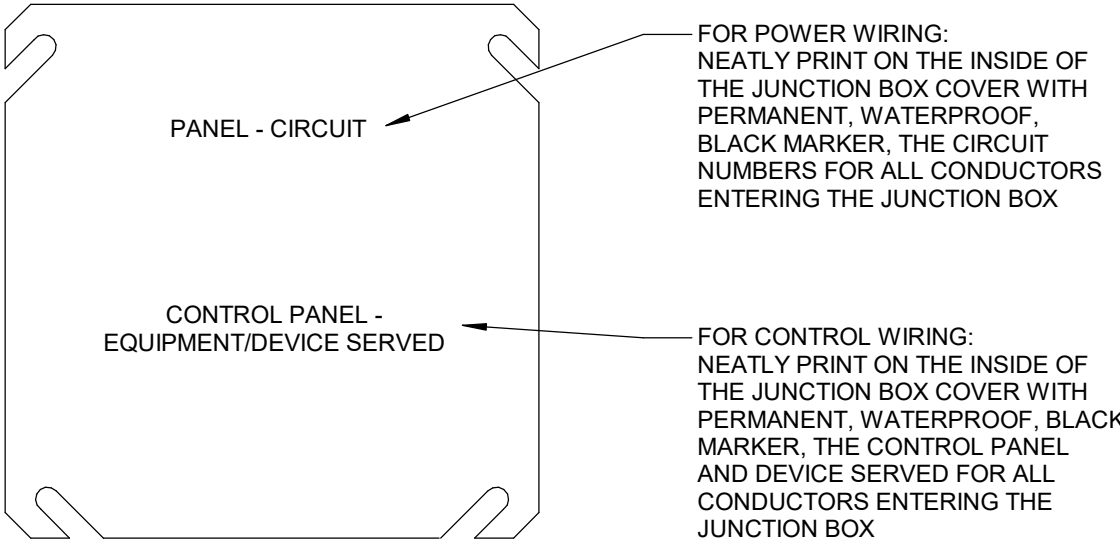
SHEET NO.

E601



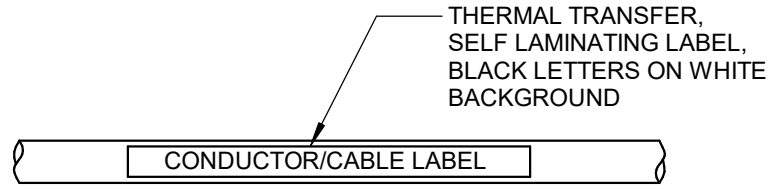
NOTES:
1. SEE ABBOTT STANDARD SPECIFICATION SECTION 16.013 FOR ADDITIONAL LABELING/IDENTIFICATION REQUIREMENTS.

WALL PLATE LABELING
NO SCALE



NOTES:
1. SEE ABBOTT STANDARD SPECIFICATION SECTION 16.013 FOR ADDITIONAL LABELING/IDENTIFICATION REQUIREMENTS.

JUNCTION BOX LABELING
NO SCALE

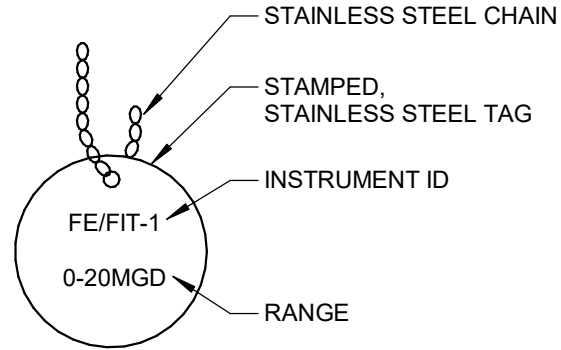


FOR POWER CONDUCTORS/CABLE:
DEVICE ID : PANEL ID-CIRCUIT ID
(EF-1 : MCC-2-2A)

FOR CONTROL CONDUCTORS/CABLE:
DEVICE ID : PANEL ID : IO NUMBER/ID
(FIT-01 : CP-100 : 00102)

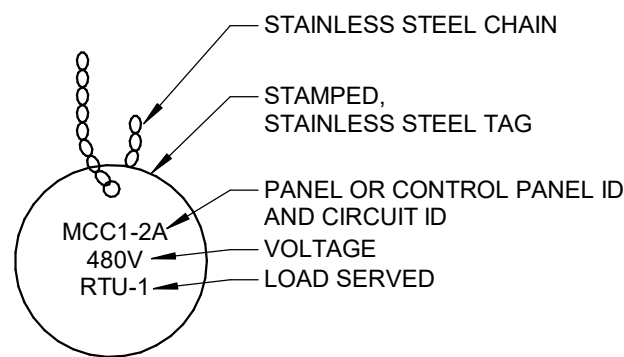
FOR COMMUNICATIONS CONDUCTORS/CABLE:
DEVICE ID : PANEL ID : RACK-PORT
(VFD-1 : PP-1 : 1-3)

CONDUCTOR LABELING
NO SCALE



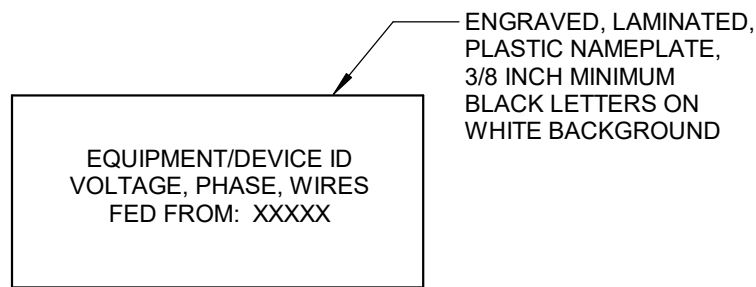
NOTES:
1. INSTRUMENT TAGS SHALL BE INSTALLED AFTER ALL PAINTING HAS BEEN COMPLETED.

INSTRUMENT TAG
NO SCALE



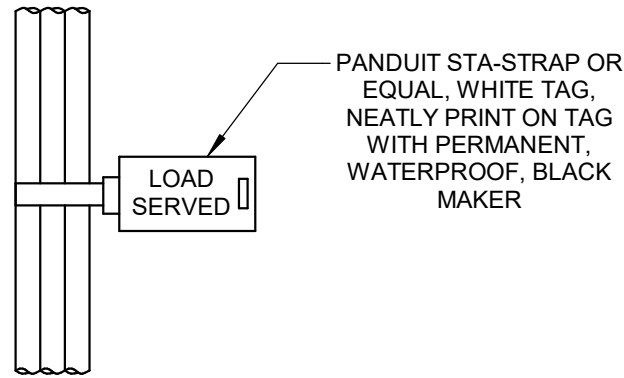
NOTES:
1. RACEWAYS TAGS SHALL BE INSTALLED AFTER ALL PAINTING HAS BEEN COMPLETED.
2. THERMAL TRANSFER, SELF LAMINATING LABELS, WITH BLACK LETTERS ON WHITE BACKGROUND MAY BE USED IN LIEU OF STAINLESS STEEL TAGS IN DRY, NON-CORROSIVE AREAS.
3. CONDUITS ORIGINATING AND TERMINATING IN THE SAME ROOM DO NOT REQUIRE LABELING.
4. LABEL CONDUITS AT WALL PENETRATIONS, PANEL CONNECTIONS, EQUIPMENT/DEVICE CONNECTIONS, AND JUNCTION BOX CONNECTIONS.

RACEWAY TAG
NO SCALE



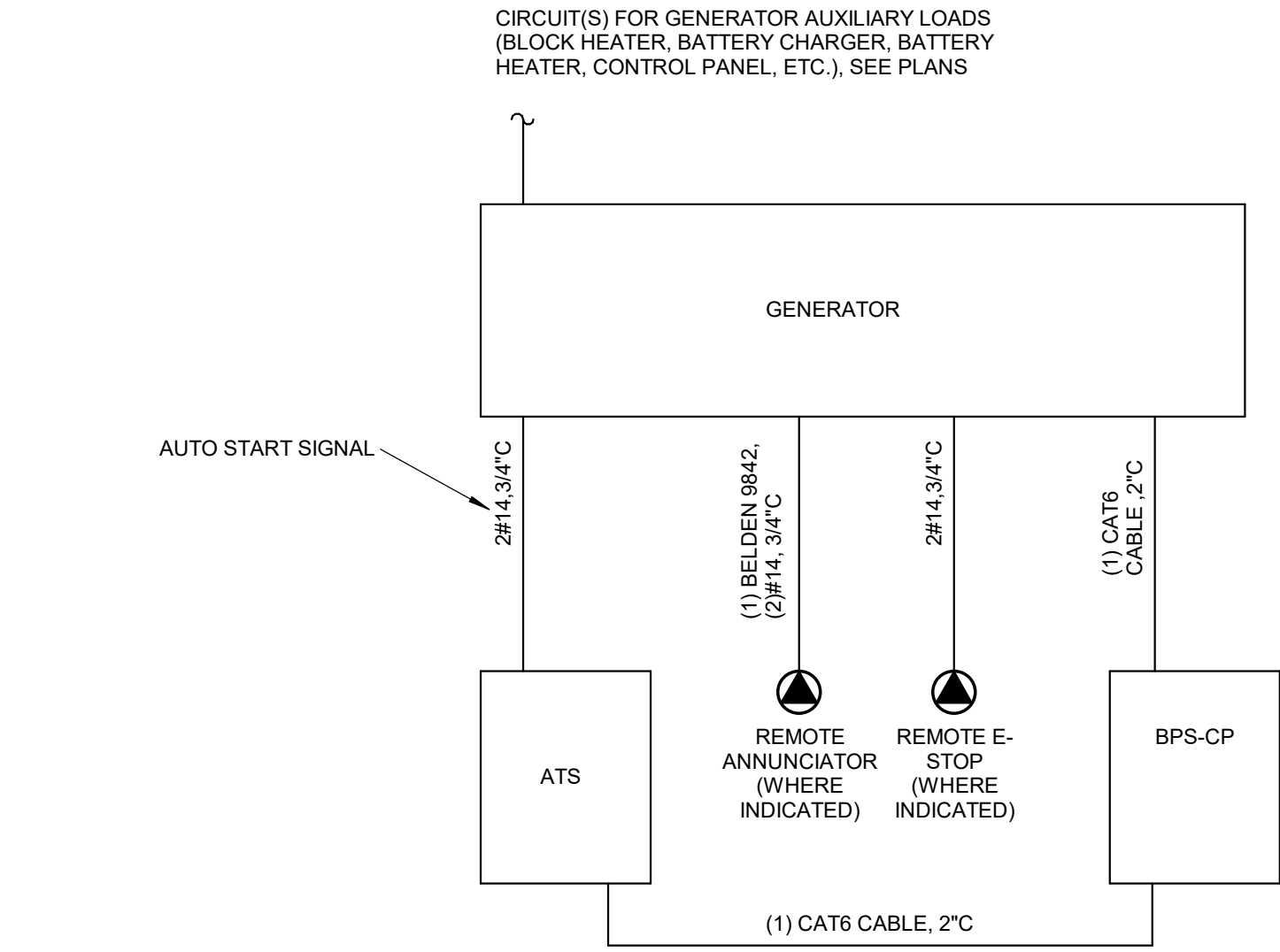
NOTES:
1. SEE SPECIFICATION SECTION "IDENTIFICATION FOR ELECTRICAL SYSTEMS" FOR EQUIPMENT/DEVICES REQUIRING LABELING AND EXAMPLES OF HOW TO LABEL EQUIPMENT/DEVICES.
2. A NAMEPLATE SCHEDULE SUBMITTAL IDENTIFYING EACH DEVICE TO BE LABELED WITH PROJECT SPECIFIC TEXT IS REQUIRED FOR APPROVAL BEFORE GENERATING NAMEPLATES.
3. SEE ABBOTT STANDARD SPECIFICATION SECTION 16.013 FOR ADDITIONAL LABELING/IDENTIFICATION REQUIREMENTS.

ELECTRICAL LABELS
NO SCALE



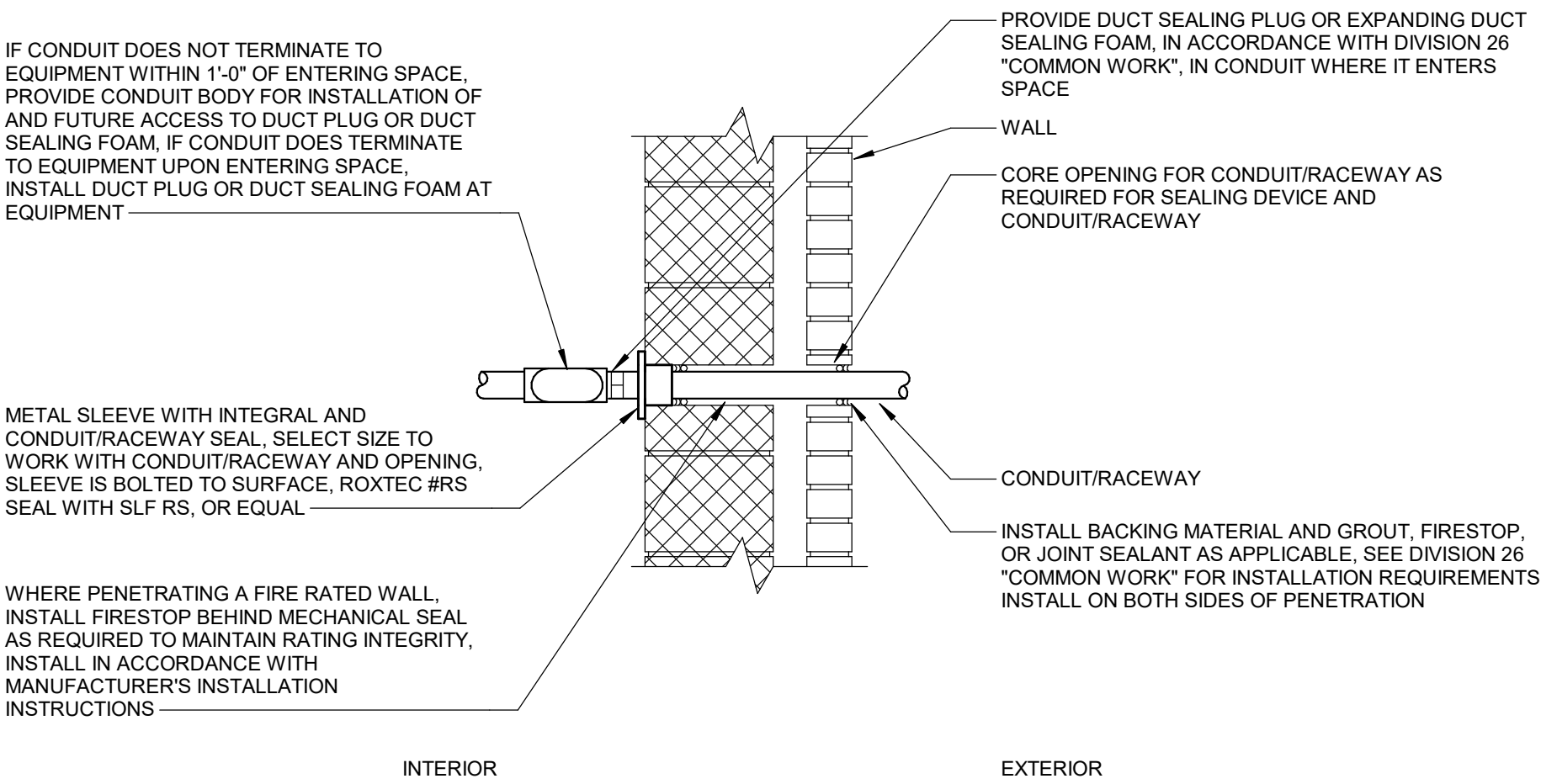
NOTES:
1. CABLES AND CONDUCTORS SERVING A COMMON EQUIPMENT/DEVICE SHALL BE BUNDLED TOGETHER AT EACH SPLICE, JOINT, OR TERMINATION LOCATION.
2. CABLES AND CONDUCTORS SHALL BE BUNDLED TOGETHER AND LABELED AT THEIR POINT OF ORIGIN AND TERMINATION POINT.

WIRE/CABLE BUNDLE LABELING
NO SCALE



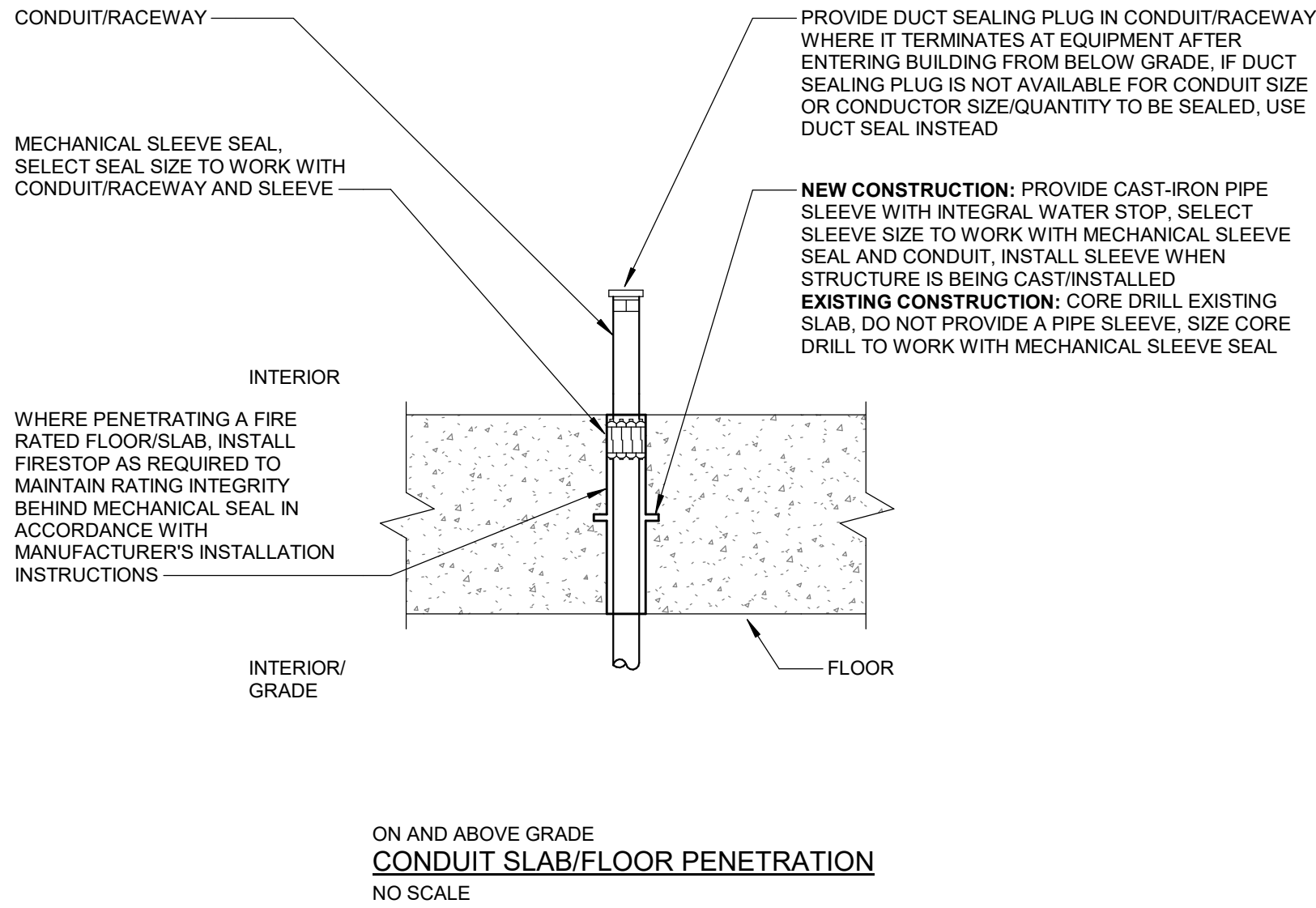
NOTES:
1. DIAGRAM IDENTIFIES CONTROL CONDUIT AND CONDUCTOR/CABLE REQUIREMENTS BETWEEN EQUIPMENT INDICATED AND 120/208V CONDUIT AND CONDUCTOR REQUIREMENTS. NOT ALL POWER CIRCUIT REQUIRED ARE INDICATED HERE, SEE ONE LINE DIAGRAM AND PLANS FOR ADDITIONAL REQUIREMENTS.
2. DIAGRAM IDENTIFIES MINIMUM CONDUIT AND CONDUCTOR/CABLE REQUIREMENTS. PROVIDE ALL CONDUCTORS/CABLES AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER FOR A COMPLETE AND FUNCTIONAL SYSTEM. SIZE CONDUITS AS REQUIRED, OR PROVIDE ADDITIONAL TO ACCOMMODATE ADDITIONAL WIRING THAT MAY BE REQUIRED.
3. UNLESS NOTED OTHERWISE, ROUTE CONDUITS UNDERGROUND BETWEEN EQUIPMENT INSTALLED ON BUILDING EXTERIOR TO EQUIPMENT INSTALLED INSIDE BUILDING.

GENERATOR RISER DIAGRAM
NO SCALE

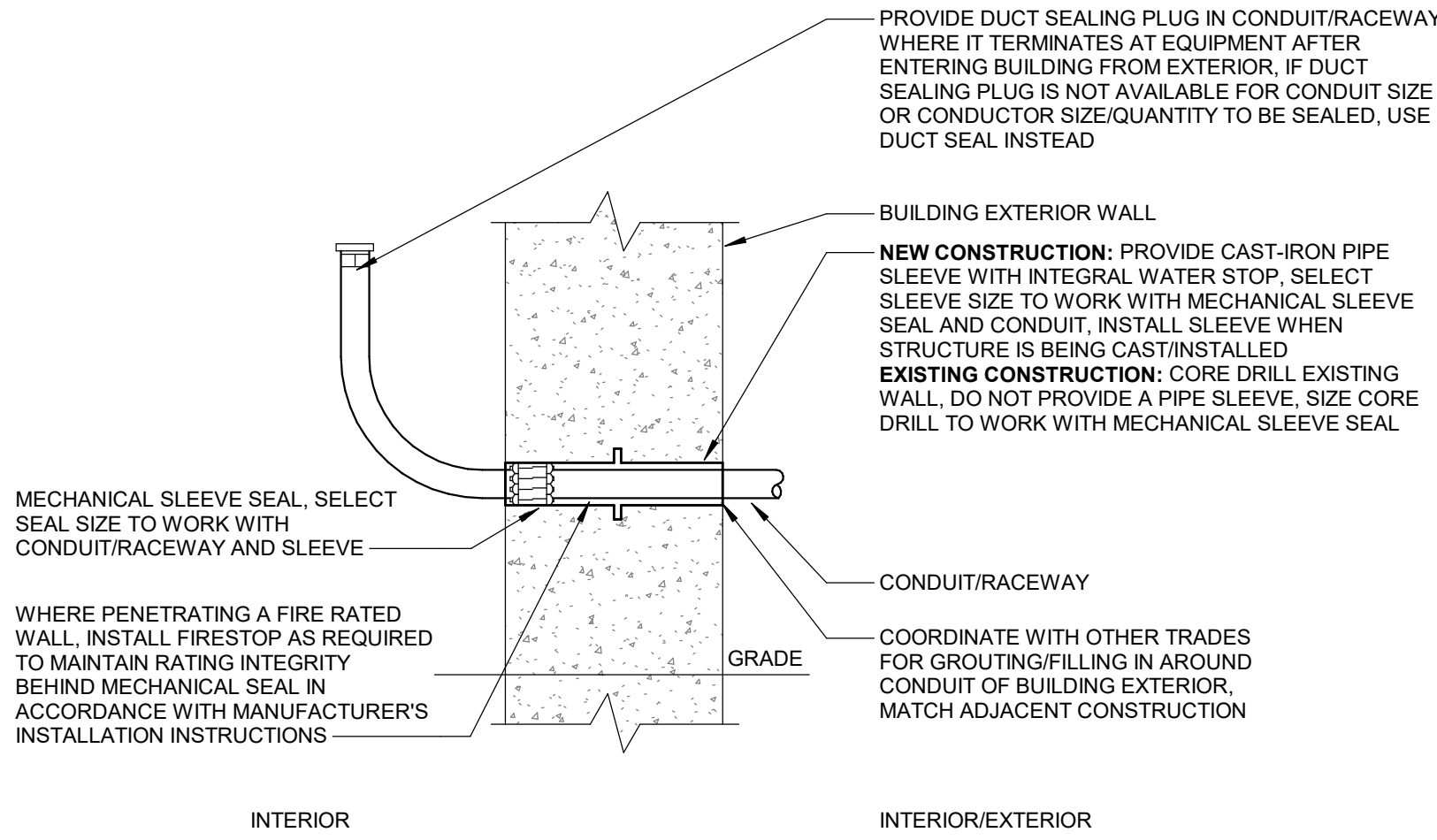


NOTES:
1. DETAIL APPLIES TO ABOVE GRADE EXTERIOR CONDUIT AND CONDUIT INSTALLED BETWEEN SPACES OF DIFFERENT TEMPERATURES. CONDUIT INSTALLATION TO COMPLY WITH THIS DETAIL AND REQUIREMENTS OF NEC 300.5 AND 300.7.
2. PENETRATION DETAIL APPLIES WHERE WALL CONSTRUCTION DOES NOT FACILITATE CORE DRILLING OR INSTALLATION OF A SLEEVE FOR PROPER ROUTING AND SEALING OF CONDUIT/CABLE.
3. WHEN ENTERING TOP OF EQUIPMENT, A CONDUIT BODY OR JUNCTION BOX MUST BE PROVIDED PRIOR TO ENTERING EQUIPMENT FOR INSTALLATION OF DUCT SEALING PLUG OR FOAM. DO NOT INSTALL PLUG OR FOAM DIRECTLY AT EQUIPMENT.

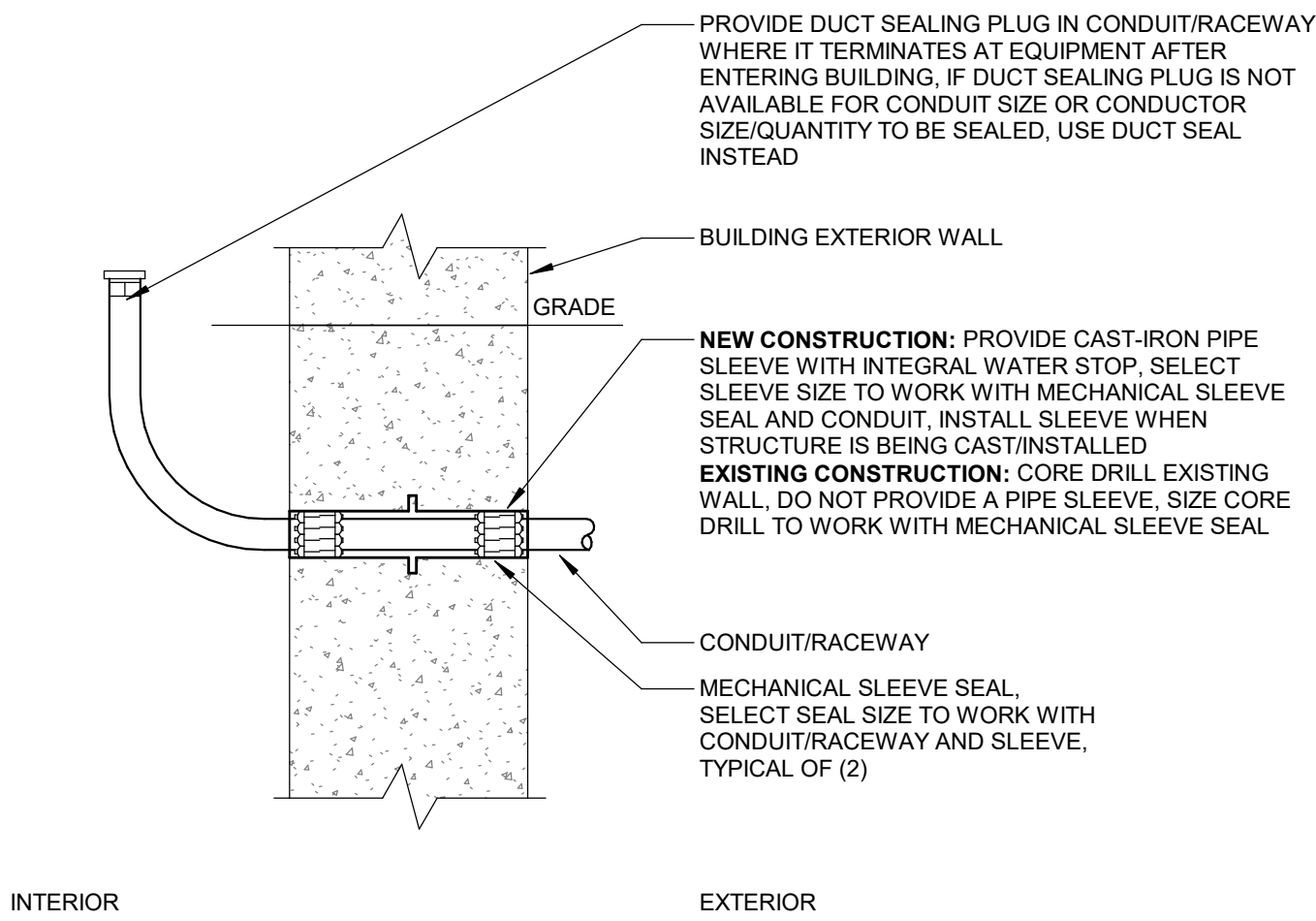
ABOVE GRADE EXTERIOR HOLLOW/THIN CONSTRUCTION CONDUIT WALL PENETRATION
NO SCALE



ON AND ABOVE GRADE CONDUIT SLAB/FLOOR PENETRATION
NO SCALE



ABOVE GRADE CONDUIT WALL PENETRATION
NO SCALE



BELOW GRADE CONDUIT WALL PENETRATION
NO SCALE

Van Buren Charter Township

Van Buren Township, MI

The Lakeside Park

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Designer	Designer
Reviewer	Checker
Manager	CKRETOVIC

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SHEET NO.

E602

