



ADDENDUM NO. 1:

Date: August 31, 2026
Project: Douglas High School Competition Gymnasium
Addition and Renovation
DCM# 2023777
Owner: Marshall County School District
Architect: Ward Scott Morris Architecture, Inc.
BID DATE: **September 22, 2026**

BID TIME: 2:00 PM CST (local time)
PHYSICAL BID LOCATION: Board Room at the Marshall County Board of Education,
12380 U.S. HWY 431 S. Guntersville, Alabama 35976.

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents as noted below. Acknowledge receipt of this Addendum in the location provided on the Bid Proposal Form. Further instruction, including requested approved equals to follow in subsequent addenda.

1.1 GENERAL

- A. **BID DATE HAS BEEN PUSHED 7 DAYS TO 9/22/2026.**
- B. Approved equal: Tufftec Lockers, Scranton Products. Approved, with all finishes and locker design matched to specifications.

1.2 BIDDER QUESTIONS

- A. 1106C, 1106D, 1106E & 1106F – Doors listed as HM, but Frames listed as Storefront...should these Doors be Storefront or the Frames be HM?
 - 1. These openings are to be storefront framing.

1.3 DRAWINGS

- A. Added Alternate #1 Electrical drawings which we're omitted in the original bid set.

1.4 SPECIFICATIONS

- A. SECTION 096566 – Fluid-Applied Athletic Flooring
 - 1. Dynamic Sports Construction, Inc. is an approved manufacturer.
- B. SECTION 237413 – Packaged Air Conditioning Units
 - 1. Bryant is an approved manufacturer.
- C. SECTION 238136 – Ductless Split Systems
 - 1. Bryant is an approved manufacturer.

1.5 ATTACHED TO ADDENDUM

- A. Alternate #1 Electrical drawings

END OF ADDENDUM

ELECTRICAL ABBREVIATIONS		ELECTRICAL SYMBOL LEGEND	
1P A AMP AC ACLG ADO AFF AFG AFI AFU AL ALT AMP AMPL ANN APPROX AQ-STAT ARCH AS AMF-TRIP AT ATS AUTO AUX AV AWG BAT BD BLDG BMS C CAB CAT CATV CB CCTV CKT CLC COMB CMPR CONN CONST CONT CONTR CONV CP CRT CU DCP DEPT DET DIA DISC DIST DN DNR DS DT DWG ELEC ELEV EM EMS EMT EPR EP EWC EXIST EXH EXP FA FABP FACP FCU FIX FLR FLOOR FLUOR FUSE FUDS GA GALLON GALV GC GEN GFP GND GRS GYP BD HOA HORIZ HPS HPF HT HTG HTR HV HVAC IC IMC INCAND IR JW J-BOX KV KVA KVAR KW KWH LA LOC	1 POLE (2P, 3P, 4P, ETC.) AMPERE ABOVE COUNTER ABOVE CEILING AUTOMATIC DOOR OPENER AMP FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ARC FAULT CIRCUIT INTERRUPTER AIR HANDLING UNIT ALUMINUM ALTERNATE AMPERE AMPLIFIER ANNUNCIATOR APPROXIMATELY AQUASTAT ARCHITECT, ARCHITECTURAL AMP SWITCH CURRENT AUTOMATIC TRANSFER SWITCH AUTOMATIC AUXILIARY AUDIO VISUAL AMERICAN WIRE GAUGE BATTERY BOARD BUILDING BUILDING MANAGEMENT SYSTEM CONDUIT CABINET CABLE TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION CIRCUIT CURRENT VISION COMBINATION COMPRESSOR CONNECTION CONSTRUCTION CONTINUATION OR CONTINUOUS CONTRACTOR CONVECTOR CIRCULATING PUMP CATHODE-RAY TUBE CURRENT TRANSFORMER CENTER COPPER DOMESTIC WATER CIRCULATING PUMP DEPARTMENT DETAIL DIAMETER DISCONNECT DISTRIBUTION DOWN DAMPEN SAFETY DISCONNECT SWITCH DOUBLE THROW DRAWING ELECTRICAL CONTRACTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY LIGHTING UNIT EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRICAL METALLIC TUBING ELECTRIC NEUMATIC EQUIPMENT ELECTRIC WATER COOLER EXISTING EXHAUST EXPLOSION PROOF FIRE ALARM FIRE ALARM BOOSTER POWER SUPPLY PANEL FIRE ALARM CONTROL PANEL FAN COIL UNIT FIXTURE FLOOR FLUORESCENT FUSE FUSED SAFETY DISCONNECT SWITCH GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTOR GROUND GALVANIZED RIGID STEEL (CONDUIT) GYPSUM BOARD HANDS-OFF-AUTOMATIC SWITCH HORIZONTAL HORSEPOWER HIGH POWER FACTOR HEIGHT HEATING HEATER HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING INTERRUPTING CAPACITY ISOLATED GROUND INTERMEDIATE METAL CONDUIT INCANDESCENT INFRARED INTERLOCK WITH JUNCTION BOX KILOVOLT KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE KILOWATT KILOWATT HOUR LANDSCAPE ARCHITECT LOCATE OR LOCATION	LT LIGHTING LTC LIGHTING LV LOW VOLTAGE MAX MAXIMUM MAGS MAGNETIC STARTER M/C MOMENTARY CONTACT MC MECHANICAL CONTRACTOR MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MDC MAIN DISTRIBUTION CENTER MDP MAIN DISTRIBUTION PANEL MFR MANUFACTURER MFS MAIN FUSED DISCONNECT SWITCH MHS MICROPHONE MIC MINIMUM MISC MISCELLANEOUS MLO MAIN LUGS ONLY MMS MANUAL MOTOR STARTER MOA MULTIOUTLET ASSEMBLY MSP MOTOR STARTER PANELBOARD MSB MAIN SWITCHBOARD MSS MOTOR STARTER SWITCH MT MOUNT MC EMPTY CONDUIT MIS MANUAL TRANSFER SWITCH MTR MOTOR, MOTORIZED N.C. NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NEDS NOT IN CONTRACT NL NIGHT LIGHT N.O. NORMALLY OPEN NPF NORMAL POWER FACTOR NTS NOT TO SCALE OC ON CENTER OVERHEAD OL OVERLOADS PA PUBLIC ADDRESS PB PULL BOX OR PUSHBUTTON PE PNEUMATIC ELECTRIC PED PEDESTAL PH POWER FACTOR PIV PISTON INDICATING VALVE PVL PANEL PP POWER POLE PAIR PRIMARY PROJ PROJECTION PRV POWER ROOF VENTILATOR PVC POLYVINYL CHLORIDE (CONDUIT) PWR POWER RAMP RECEPTACLE REQD REQUIRED RM ROOM RTU ROOF TOP UNIT SURF SURFACE CONDUIT SEC SECONDARY SHT SHEET SCLAR SINGLE-LINE DIAGRAM S/N SOLID NEUTRAL SPEC SPECIFICATION SPR SPEAKER SPARE SPP SINGLE-POINT POWER SURF SURFACE RACEWAY SS STAINLESS STEEL SSW SELECTOR SWITCH STOP/START PUSHBUTTONS STA STATION STD STANDARD SURF SURFACE MOUNTED SW SWITCH SWBD SWITCHBOARD SYM SYMMETRICAL SYS SYSTEM TEL TELEPHONE TER TERMINAL TL TWIST LOCK TR TAMPER RESISTANT T-STAT THERMOSTAT TTC TELEPHONE TERMINAL CABINET TV TELEVISION TYC TELEVISION TERMINAL CABINET TYP TYPICAL UT UNDER COUNTER UG UNDERGROUND ELECTRICAL UG UNDERGROUND UH UNDER HEATER UT UNDERGROUND TELEPHONE UTL UTILITY UV ULTRAVIOLET V VOLT VA VOLT-AMPERES VDT VIDEO DISPLAY TERMINAL VERT VERTICAL VFD VARIABLE FREQUENCY DRIVE VOL VOLUME W WAIT W/ WITH WG WIRE GUARD WH WATER HEATER W/O WITHOUT WP WEATHERPROOF XFR TRANSFER X AT ANGLE Δ ANGLE ▲ DELTA ' - ' FEET " - " INCHES # NUMBER Ø PHASE	LIGHTING SYMBOLS  LIGHTING FIXTURES, TYPICAL, RECTANGULAR SURFACE MOUNTED OR RECESSED.  LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED FOR LIFE SAFETY.  LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED FOR 24/7 OPERATION.  RECESSED LINEAR TYPE FIXTURE.  SUSPENDED LINEAR FIXTURE, FILLED CIRCLES INDICATE LIGHTING FIXTURES, TYPICAL, ROUND (VARIOUS SYMBOLS)  RECESSED CEILING FIXTURE.  CHEVRON INDICATES WALL WASH.  CENTER DOT INDICATES PENDANT.  WALL-MOUNTED FIXTURES, TYPICAL  STRIP FIXTURE  DIRECTIONAL LIGHT, TRACK LIGHT, FLOOD LIGHT  LINEAR LIGHT, RECESSED  EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.  EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.  POLE/AREA LIGHTS  POST-TOP AREA LIGHT  BOLLARD LIGHT  SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F., TO THE TOP OF THE BOX.  SWITCH MODIFIERS: 3: 3-WAY 4: 4-WAY K: KEYS D: DIMMING W/ OCC. SENSOR T: TIMER A: OCCUPANCY SENSOR VS: VACUANCY SENSOR AC: ABOVE-COUNTER LV: LOW-VOLTAGE M: MOTOR-RATED  LOW VOLTAGE CONTROL SWITCH, FLUSH MOUNTED 48" A.F.F., TO THE TOP OF THE BOX. LETTER REPRESENTS INDIVIDUAL SWITCH. SEE LOW VOLTAGE SWITCH SCHEDULE FOR BUTON/RELAY CONFIGURATION.  LIGHTING TOUCH PANEL  LIGHTING CONTROL PANEL, PROVIDE 120V, DEDICATED 20A CIRCUIT.  LOW VOLTAGE, CEILING MOUNTED VACANCY SENSOR. ALL SENSORS SHALL BE DAISY CHAINED TOGETHER AND HOMERUN TO ROOM CONTROLLER OR CONTROL PANEL. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED LOCATION.  LOW VOLTAGE, CEILING MOUNTED OCCUPANCY SENSOR. ALL SENSORS SHALL BE DAISY CHAINED TOGETHER AND HOMERUN TO ROOM CONTROLLER OR CONTROL PANEL. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED LOCATION.  LIGHTING ROOM CONTROLLER.  LIGHTING ROOM CONTROLLER WITH UL924 RELAY. LIGHTING TAGS  FIXTURE TYPE ID  NUMBER(S); CIRCUIT NUMBER  LOWERCASE LETTER: SWITCH ID  UPPER-CASE LETTER & NUMBER:  LIGHTING CONTROL PANEL ID & RELAY ABSENCE OF A SWITCH DESIGNATION ON A LIGHTING FIXTURE INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "X" IN PLACE OF THE SWITCH DESIGNATION INDICATES UNWITCHED.  SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "o" CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT IS LOCATED  TAGGED WITH "o". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS OR CONTACTORS. GROUND SYSTEM SYMBOLS  MASTER GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OF MOUNT, BOND TO THE SERVICE ENTRANCE GROUND WITH #3/0 INSULATED GROUND.  DATA ROOM GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OF MOUNT, PROVIDE #3/0 INSULATED GROUND FROM BUILDING ELECTRIC SERVICE TO GROUND ELECTRODE SYSTEM DATA ROOM GROUND BAR. POWER SYMBOLS  ELECTRICAL DEVICE TAGS: NUMBER INDICATES CIRCUIT NUMBER.  EQUIPMENT TAGS: EQUIPMENT ID IS INDICATED BY AN UNDERLINED TAG ADJACENT TO THE EQUIPMENT. SYMBOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES. WIRING  SOLID, ARCED LINES CONNECTING EQUIPMENT, DEVICES, OR FIXTURES INDICATE UNSWITCHED POWER CIRCUITING. WIRES ARE ONLY INTENDED TO INDICATE TO WHAT CIRCUIT DEVICES ARE CONNECTED. ACTUAL CONNECTIONS, CIRCUITING, INSTALLATION, JUNCTION BOXES, ETC. SHALL BE FIELD-DETERMINED BY THE CONTRACTOR.  HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE EQUIPMENT NAME AND CIRCUIT NUMBER(S) ARE INDICATED, SEPARATED BY A HYPHEN. HOMERUNS ARE ONLY INTENDED TO INDICATE PANEL AND CIRCUIT NUMBER. ACTUAL HOMERUN LOCATION SHALL BE FIELD-DETERMINED BY THE CONTRACTOR. POWER DISTRIBUTION EQUIPMENT  SWBD MP  PANEL MID  PANEL HP  PANEL LP  HATCHED FILL: DISTRIBUTION PANEL OR SWITCHBOARD. SOLID FILL: BRANCH PANEL OR LOAD CENTER. DASHED BOX: CODE-REQUIRED CLEARANCE (WIDTH AND DEPTH). DOOR: INDICATES FRONT OF RECESSED PANEL.  TRANSFORMER: TYPICALLY TRANSFORMER NAMES BEGIN WITH OR CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION AND REQUIREMENTS.  480V PANELBOARD.  208V PANELBOARD.  LIFE SAFETY PANELBOARD. AUXILIARY SYSTEMS SYMBOLS  AUXILIARY SYSTEMS BACKBOARD, WALL MOUNTED 3/4" PLYWOOD 4"x8" UNLESS NOTED OTHERWISE. PLYWOOD TO BE PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT BOTH SIDES & ALL EDGES. BACKBOARD SHALL ALSO BE USED FOR ACCESS CONTROLS.  TELEPHONE/DATA, DOUBLE GANG OUTLET, FLUSH MOUNTED AT 18" A.F.F. TO THE TOP OF THE BOX WITH 3/4" CONDUIT SUBBED-UP INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING, PROVIDE TWO (2) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS REQUIRED.  AV OUTLET FLUSH MOUNTED AT 18" A.F.F. TO THE TOP OF THE BOX WITH 1 1/4" CONDUIT SUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATED WITH PLASTIC BUSHING. SEE DETAILS FOR ADDITIONAL REQUIREMENTS.  AV OUTLET FLUSH MOUNTED AT HEIGHT (IF #) NOTED ON DRAWINGS A.F.F. TO THE TOP OF THE BOX. 1 1/4" CONDUIT SUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATED WITH PLASTIC BUSHING. SEE DETAILS FOR ADDITIONAL REQUIREMENTS.  TELEPHONE/DATA, DOUBLE GANG OUTLET, FLUSH MOUNTED AT 48" A.F.F. TO THE TOP OF THE BOX OR 4" ABOVE BACK SPLASH TO CENTERLINE UNLESS NOTED OTHERWISE. STUBB 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING. PROVIDE TWO (2) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS REQUIRED.  TELEPHONE/DATA, DOUBLE GANG OUTLET, FLUSH MOUNTED AT HEIGHT (IF #) NOTED ON DRAWINGS A.F.F. TO THE TOP OF THE BOX. STUBB 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING. PROVIDE TWO (2) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS REQUIRED.  WIRELESS ACCESS POINT, PROVIDE SINGLE GANG OUTLET MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE CAT 6A CABLE TO DATA RACK, PROVIDE 15' OF SLACK ROLLED UP ABOVE ACCESSIBLE CEILING.  FLOOR BOX, # INDICATES TYPE. SEE FLOOR BOX SCHEDULE.  INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING, PROVIDE A SINGLE GANG BOX.  INTERCOM SPEAKER, WALL MOUNTED, PROVIDE A SINGLE GANG BOX FOR FLUSH WALL MOUNTED INTERCOM SPEAKER WITH 3/4" CONDUIT SUBBED INTO ACCESSIBLE CEILING SPACE. MISCELLANEOUS  KEYED NOTE  CALLOUT: TOP VALUE: DETAIL NUMBER ON SHEET  BOTTOM VALUE: SHEET NUMBER OF DETAIL

ELECTRICAL SYMBOL NOTES	
 12 b EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b". EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING	 H1 HA1-2P/20A  T1 TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".
EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADDED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "X" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.	PANELBOARD. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.
DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16.	SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE CIRCLE OR HEXAGON.
THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".	BRANCH CIRCUIT WITH #8 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN. NUMBER INDICATES CONDUCTOR SIZE.
SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1, 3: PHASE CONNECTION TO CIRCUITS 1, 3, 5.	BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL, 3/4"C. UNLESS NOTED, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN. MINIMUM #12 AWG COPPER.
MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN ORCHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1, 3: PHASE CONNECTION TO CIRCUITS 2, 4, 6.	BRANCH CIRCUIT, CONCEALED IN SLAB BELOW SLAB, OR BELOW GRADE, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN. MINIMUM #12 AWG COPPER.
	BRANCH CIRCUIT, HOMERUN TO PANEL. CIRCUIT SHOWN INDICATES 2#12 & 1#12(G)-3/4"C. TO ONE 20A/1P CIRCUIT BREAKER. — INDICATES 4#12 & 1#12(G)-3/4"C. TO TWO 20A/1P BREAKERS. — INDICATES 6#12 & 1#12(G)-3/4"C. TO THREE 20A/1P BREAKERS.

		ELECTRICAL CONTRACTOR		OWNER		GENERAL CONTRACTOR	
		FURNISH PER SPECS	INSTALL AS SHOWN ON PLANS PRICING COVER VIA ALLOWANCE SEE ARCHITECTURAL SPECIFICATIONS	FURNISH EQUIPMENT PER OWNER'S SPECIFICATIONS INSTALL RESPONSIBILITIES COORDINATED BY OWNER	FURNISH PER SPECS INSTALL AS SHOWN ON PLANS		
STRUCTURED CABLING	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X				
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X				
	TEST AND CERTIFY CABLING SYSTEM	X	X				
	TELEPHONE BACKBOARDS AND GROUNDING BUS BARS	X	X				
	DATA RACKS AND PATCH PANELS AS SPECIFIED	X	X				
	WIRELESS ACCESS POINTS			X	X		
	PATCH CABLES	X	X				
SECURITY SYSTEMS	DATA/NETWORK SWITCHES AND POE SWITCHES			X	X		
	-						
	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X				
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X				
	TEST AND CERTIFY CABLING SYSTEM	X	X				
	ACCESS CONTROL EQUIPMENT	X	X				
	ELECTRIFIED DOOR HARDWARE	X	X				
AUDIO VISUAL EQUIPMENT	CCTV CAMERA EQUIPMENT, INCLUDING CAMERAS, DVSRS AND SCREENS			X	X		
	RACEWAY SYSTEMS - J HOOKS AND/OR CABLE TRAY AS SHOWN ON PLANS	X	X				
	PULL AND TERMINATE DATA CABLING AS SPECIFIED	X	X				
	TEST AND CERTIFY CABLING SYSTEM	X	X				
	POWER FOR EQUIPMENT	X	X				
	AUDIO VISUAL EQUIPMENT INCLUDING BUT NOT LIMITED TO TVS, SPEAKERS, MOUNTS, ETC	X	X				
	AUDIO VISUAL EQUIPMENT RACKS	X	X				
-							
-							

SHEET MUST BE PRINTED IN COLOR.

GARNER
&
ASSOCIATES ENGINEERING

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Project No: 23-126



FINAL
RE-SUBMITTAL

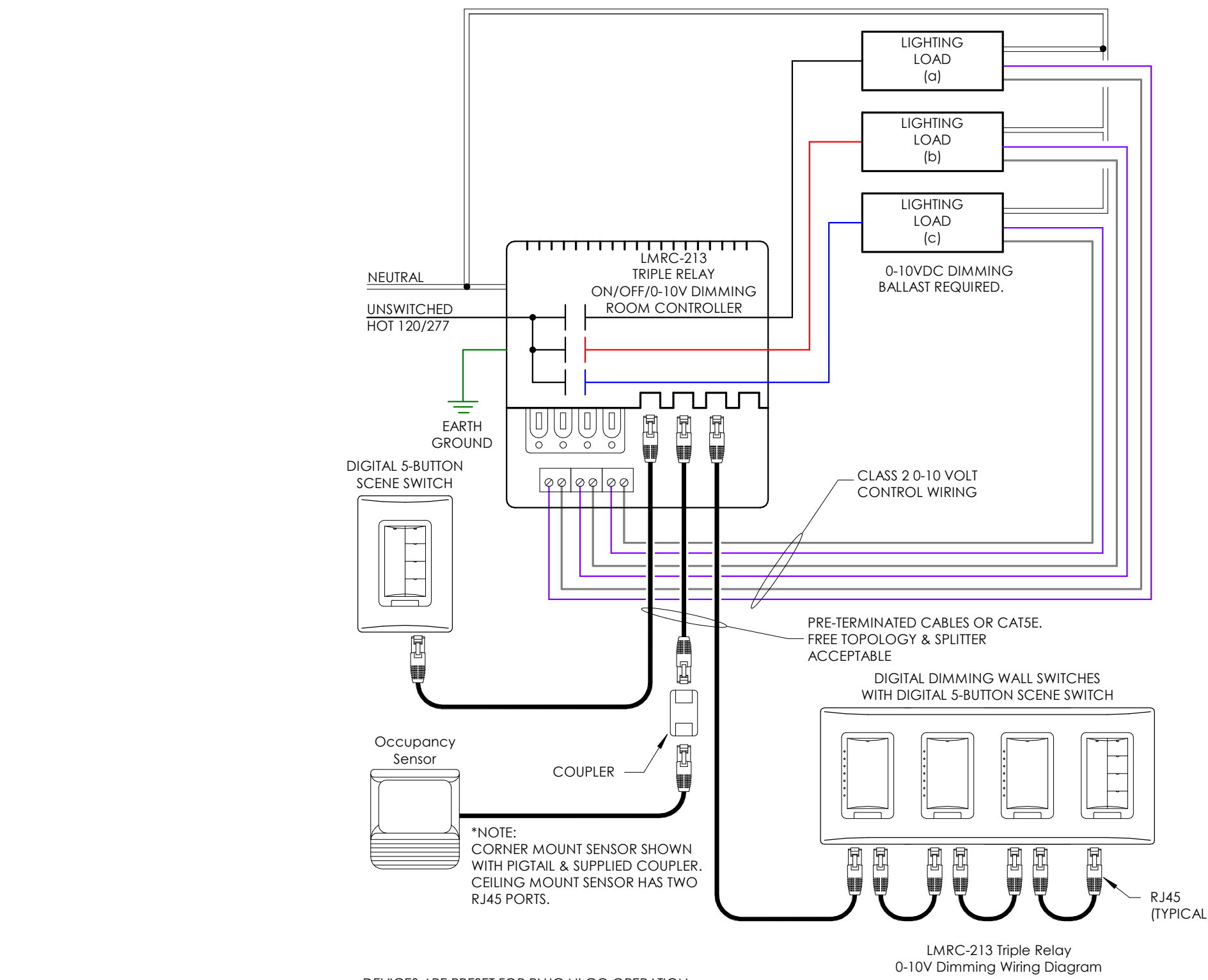
DATE: 11/19/24
PROJ NO: 23-091

REVISIONS

#	DESC	DATE
1	ADD #1	8/28/26

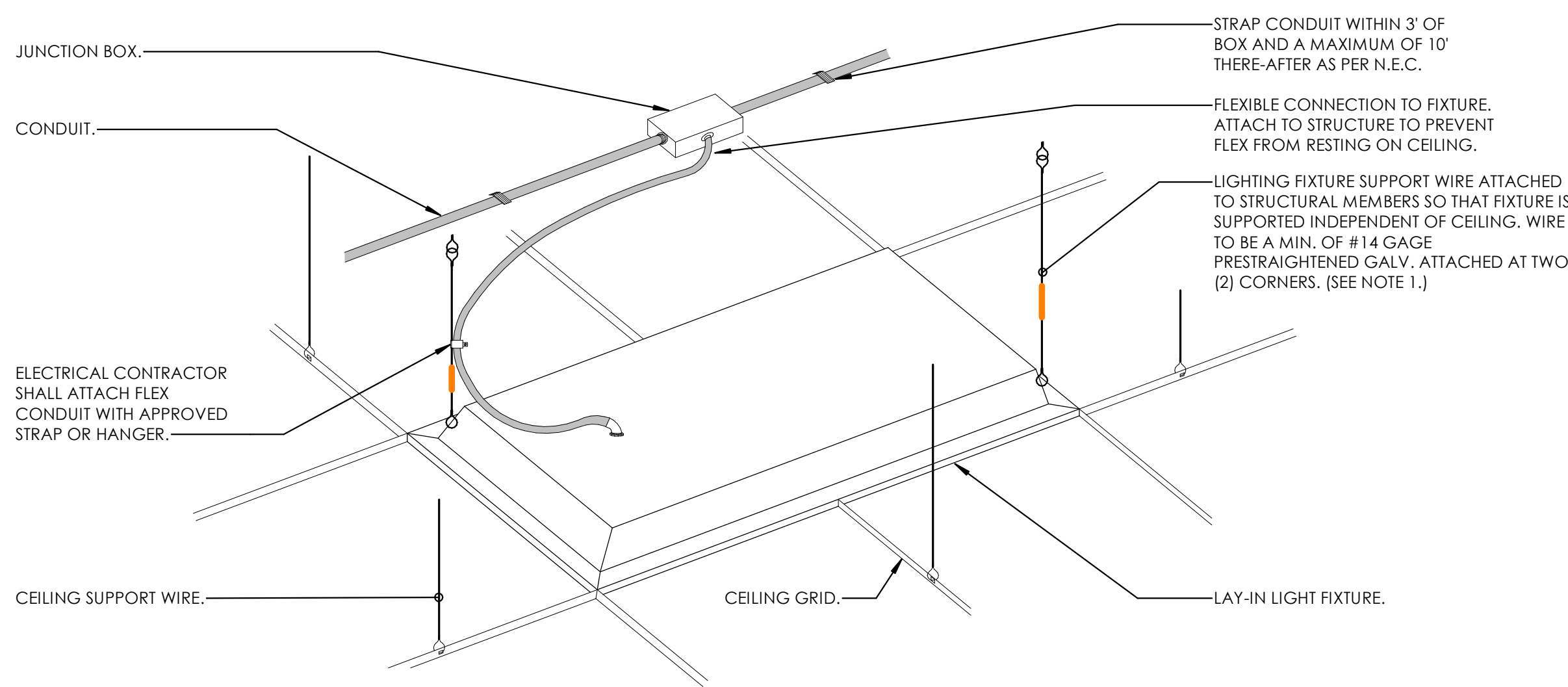
ELECTRICAL
SYMBOL LEGEND &
NOTES

2-E001

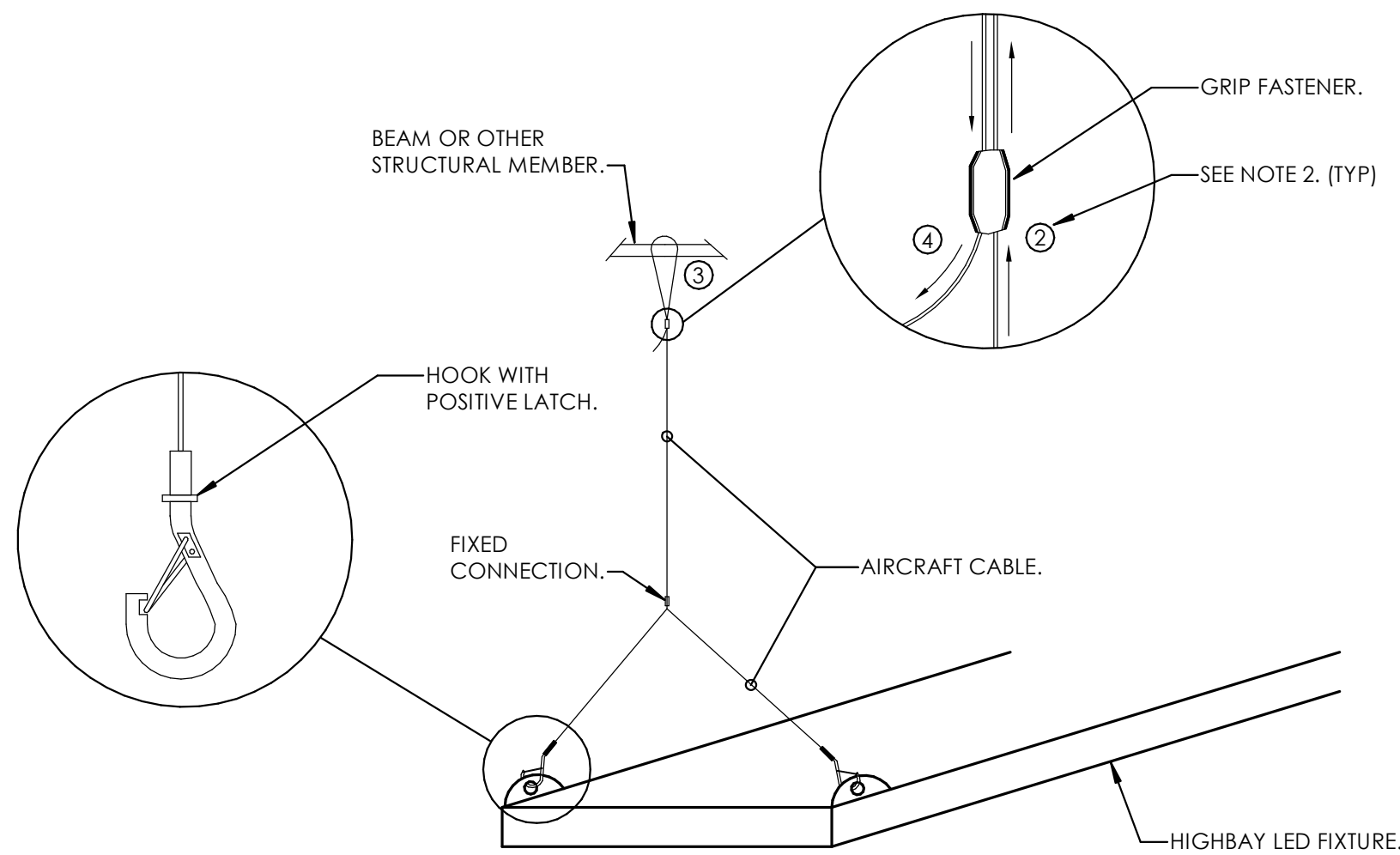


DEVICES ARE PRESET FOR PLUG 'N' GO OPERATION. ADJUSTMENT IS OPTIONAL. SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE CONTROLLER DEFAULTS TO MULTI-LEVEL AUTOMATIC ON/AUTOMATIC OFF OPERATION. LOAD (A) ON THE CONTROLLER TURNS ON AUTOMATICALLY. WHILE LOAD (B) & (C) DEFAULTS TO MANUAL ON/CONTROL. ALL RELAYS TURN OFF AUTOMATICALLY. ENHANCED ROOM CONTROLLERS SUPPORT UP TO 44 LOADS AND 48 DEVICES PER LOCAL NETWORK. AT SYSTEM STARTUP, DEFAULT DIMMING PARAMETERS ARE ESTABLISHED INCLUDING: LEVELS FOR PRESETS 1-4, FADE TIMES, AND FADE AND RAMP RATES. DIMMING AND SYSTEM PARAMETERS MAY BE CUSTOMIZED.

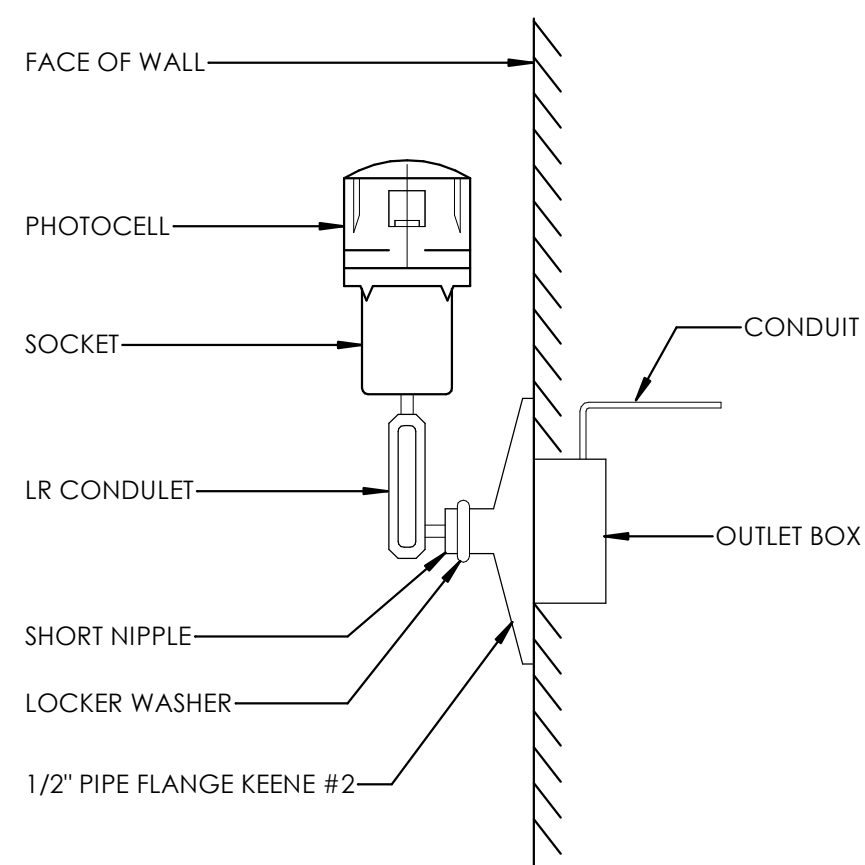
1
2-E002
TYPICAL ROOM CONTROLLER DETAIL
NOT TO SCALE



3
2-E002
TYPICAL LAY-IN FIXTURE SUPPORT DETAIL
NOT TO SCALE
NOTES:
1. INDEPENDENT SUPPORT WIRES MUST BE MARKED (PAINTED) SO THAT THEY CAN BE DISTINGUISHABLE AS NON-CEILING SUPPORT WIRES PER N.E.C.
2. INDEPENDENT SUPPORT WIRES SHALL NOT HAVE AN ANGLE OF MORE THAN 45° FROM THE CEILING GRID.



2
2-E002
HIGHBAY LED FIXTURE SUPPORT DETAIL
NOT TO SCALE
NOTES:
1. ALL CABLES ARE TO BE STRAINED GALVANIZED STEEL WITH A MIN. DIA. OF 0.080".
2. PASS FREE END THROUGH GRIP FASTENER.
3. FEED FREE END AROUND UNINSTRUCT.
4. RETURN FREE END THROUGH GRIP FASTENER AND ADJUST TO SPECIFIED LENGTH.
5. ELECTRICAL CONTRACTOR MUST SUBMIT A DETAIL OF LIGHTING FIXTURE SUPPORT METHOD AND A LIST OF MATERIALS TO BE USED AS PER MANUFACTURE'S RECOMMENDATIONS.
6. TYPICAL SUPPORT METHOD TO BE USED ON BOTH ENDS OF THE FIXTURE.
7. TYPICAL DETAIL FOR FIXTURE TYPES HB AND WSL.

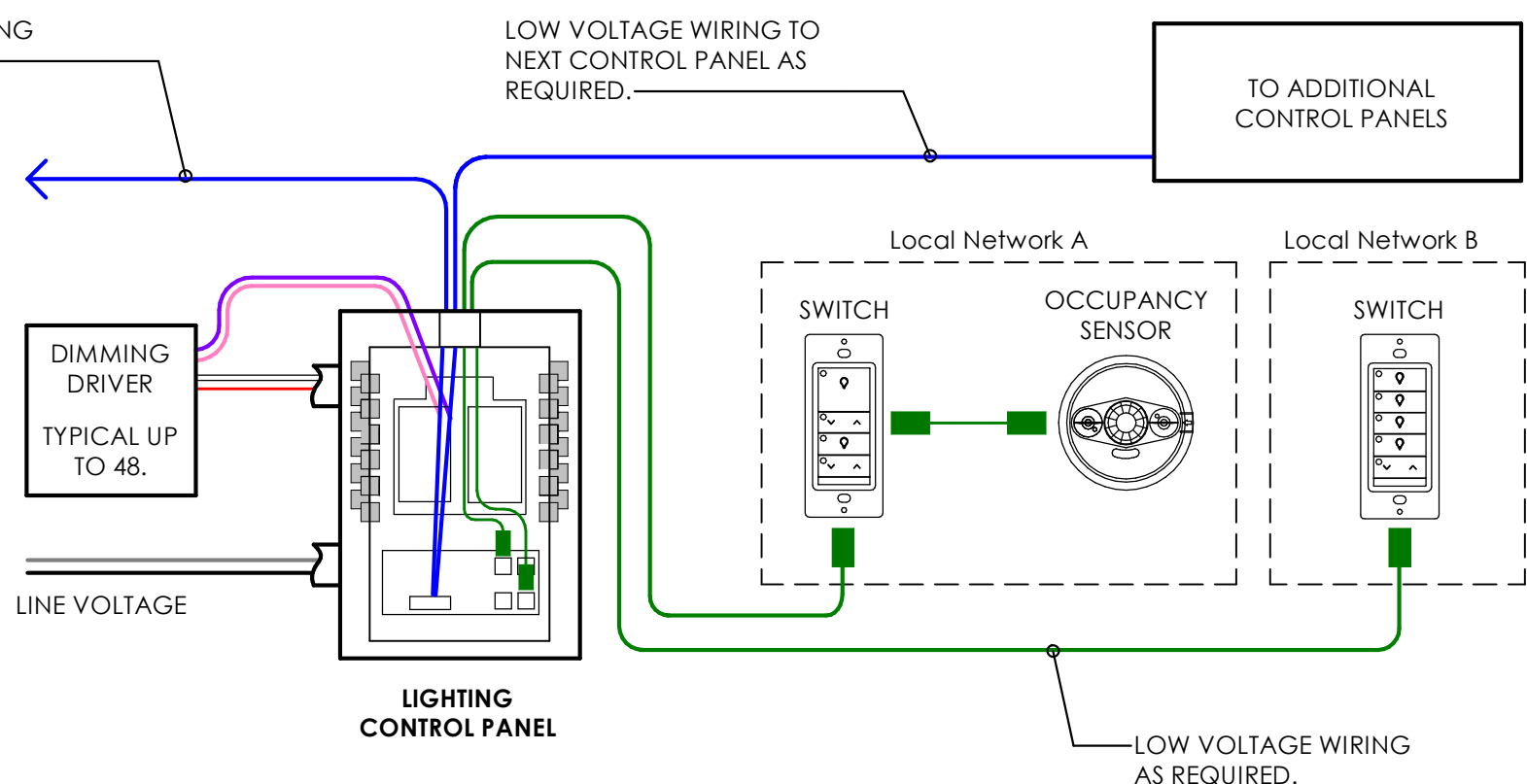


4
2-E002
PHOTO-CELL INSTALLATION DETAIL
NOT TO SCALE
NOTES:
1. PAINT CONDUIT NIPPLE, SOCKET AND PIPE FLANGE WITH TWO COATS OF ENAMEL TO MATCH EXTERIOR WALL COLOR.
2. COMPLETE ASSEMBLY TO BE UL LISTED FOR WET LOCATIONS.
3. PHOTOCELL TO BE MOUNTED FACING NORTH FREE FROM ALL SHADOWS WHICH MIGHT CAUSE PHOTOCELL TO TURN LIGHTS ON EARLY. CONTRACTOR SHALL COORDINATE PROPER MOUNTING LOCATION PRIOR TO INSTALLATION.

LIGHTING CONTROL PANEL SCHEDULE - 'LCP-M'					
ROOM: ELEC/MECH 1210					
RELAY	VOLT.	CIRCUIT	DESCRIPTION	AUTOMATION	NOTES
M1	277	GHA-4	GYM - HIGH BAY LIGHTING	TIMED ON/TIMED OFF, MAN. OVERRIDE AFTER HOURS, DIM	2.6
M2	277	GHA-4	GYM - HIGH BAY LIGHTING	TIMED ON/TIMED OFF, MAN. OVERRIDE AFTER HOURS, DIM	2.6
M3	277	INV-1	GYM - HIGH BAY LIGHTING - LIFE SAFETY	TIMED ON/TIMED OFF, MAN. OVERRIDE AFTER HOURS, DIM	2.5.6
M4	277	INV-1	GYM - HIGH BAY LIGHTING - LIFE SAFETY	TIMED ON/TIMED OFF, MAN. OVERRIDE AFTER HOURS, DIM	2.5.6
M5	277	GHA-12	EXTERIOR WALL PACKS	PHOTOCELL ON/TIMED OFF, DIM	2.4
M6	277	GHA-10	EXTERIOR WALL PACKS	PHOTOCELL ON/TIMED OFF, DIM	2.4
M7	277	GHA-6	SITE LIGHTING	PHOTOCELL ON/TIMED OFF	4
M8	277				
M9	277				
M10	277				
M11	277				
M12	277				

LIGHTING CONTROL SCHEDULE NOTES

- TIMED "ON/OFF" DAYTIME, OCC. SENSOR CONTROLLED AFTER HOURS, MANUAL "ON/OFF".
- 0-10 VOLT DIMMING CIRCUIT. PROVIDE DIMMING CIRCUIT/WIRING.
- MANUAL "ON/OFF".
- PHOTOCELL "ON", TIMED "OFF".
- RELAY SHALL FAIL IN THE CLOSED POSITION.
- TIMED "ON/OFF" DAYTIME, MANUAL "ON/OFF" AFTER HOURS.
- PROVIDE DMX CONTROL WIRING AS REQUIRED.

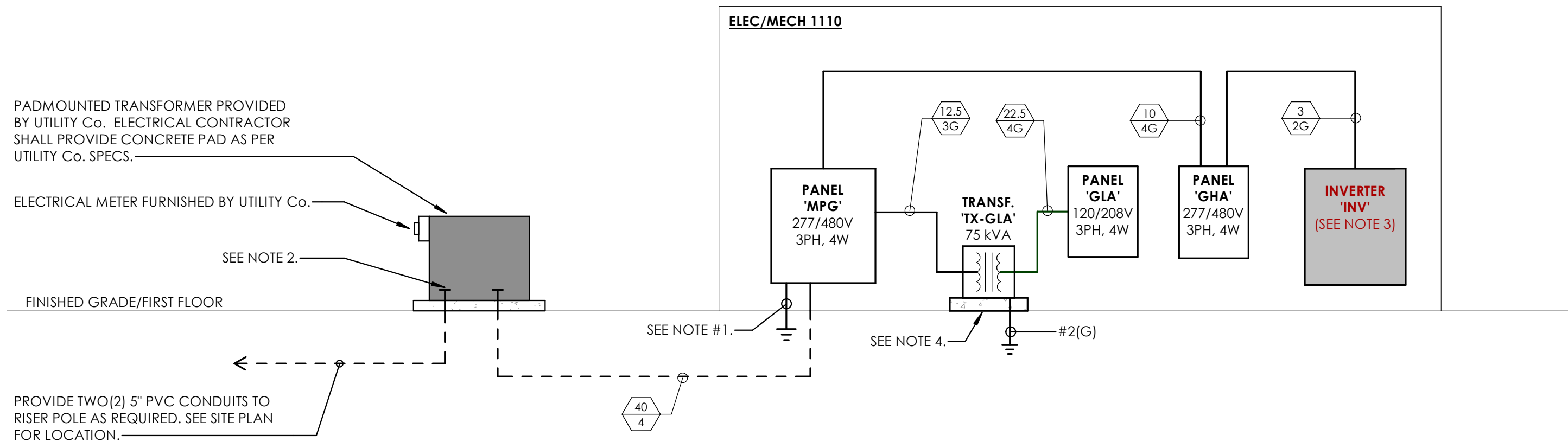


5
2-E002
TYPICAL LIGHTING CONTROL PANEL WIRING
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP	MOUNTING	WATTAGE	CCT	LUMENS	VOLTAGE	DESCRIPTION	
A	PRESCOLITE	LTR-6RD-H-SL15L-DM1-LTR-6RD-T-SL35K8MD35	LED	CEILING RECESSED	19 W	3500 K	1500 lm	277 V	6" APERTURE LED DOWNLIGHT, 0-10 VOLT DIMMING.	
D	PRESCOLITE	LTC-6RD-P-40L35K8WD-DM01-SS-CC	LED	CEILING PENDANT	52 W	3500 K	4000 lm	277 V	6" LED CYLINDER WITH 0-10V DIMMING. VERIFY SUSPENSION HEIGHT WITH ARCHITECT.	
DE	PRESCOLITE	LTC-6RD-P-40L35K8WD-DM01-EM-SS-CC	LED	CEILING PENDANT	52 W	3500 K	4000 lm	277 V	6" LED CYLINDER WITH 0-10V DIMMING AND INTEGRAL EMERGENCY BATTERY. VERIFY SUSPENSION HEIGHT WITH ARCHITECT.	
F1	COLUMBIA LIGHTING	LCL4-40ML-EU	LED	CEILING SUSPENDED	42 W	4000 K	5400 lm	277 V	4" LED STRIP.	
F1E	COLUMBIA LIGHTING	LCL4-40ML-EU-ELL14	LED	CEILING SUSPENDED	42 W	4000 K	5400 lm	277 V	4" LED STRIP. PROVIDE WITH EMERGENCY BATTERY PACK AND INTEGRAL TEST SWITCH.	
F2	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD	LED	CEILING LAY-IN	38 W	3500 K	4600 lm	277 V	2' x 2' BACK LIT LED FLAT PANEL, 0-10 VOLT DIMMING AND SELECTABLE LUMEN OUTPUT.	
F2E	COLUMBIA LIGHTING	CBT24-A-LSCS-EDD-ELL14	LED	CEILING LAY-IN	38 W	3500 K	4600 lm	277 V	2' x 2' BACK LIT LED FLAT PANEL, 0-10 VOLT DIMMING AND SELECTABLE LUMEN OUTPUT. PROVIDE WITH EMERGENCY BATTERY PACK AND TEST SWITCH.	
F4	COLUMBIA LIGHTING	CBT24-A-LSCS-EDD	LED	CEILING LAY-IN	48 W	3500 K	5800 lm	277 V	2' x 4' BACK LIT LED FLAT PANEL, 0-10 VOLT DIMMING AND SELECTABLE LUMEN OUTPUT.	
F4E	COLUMBIA LIGHTING	CBT24-A-LSCS-EDD-ELL14	LED	CEILING LAY-IN	48 W	3500 K	5800 lm	277 V	2' x 4' BACK LIT LED FLAT PANEL, 0-10 VOLT DIMMING AND SELECTABLE LUMEN OUTPUT. PROVIDE WITH EMERGENCY BATTERY PACK AND TEST SWITCH.	
H	COLUMBIA LIGHTING	SAV-MH-50-8-WW22-CDL-U-XX-WG23A	LED	CEILING PENDANT	150 W	4000 K	21000 lm	277 V	ROUND LED HIGH BAY, 0-10V DIMMING WITH WIRE GUARD, FIXTURE FINISH TO BE SELECTED BY ARCHITECT.	
SP	ETC	CSSPOTJR2550	LED	STRUCTURE CLAMP	0 W	0 K	5700 lm	277 V	STAGE SPOTLIGHT/FLOOD LIGHT. PROVIDE TWO(2) SPOT FIXTURES AND FIVE(S) FLOOD FIXTURES WITH REQUIRED DMX CONTROLLERS AND CABELING.	
WP	EXO	SG2-80-4K7-FT-UNV-DBT	LED	SURFACE WALL BRACKET	80 W	4000 K	8000 lm	277 V	LED EXTERIOR WALL PACK. VERIFY MOUNTING HEIGHT WITH ARCHITECT.	
WPE	EXO	LNC2-48L-20-4K7-3-UNV-XX-E	LED	SURFACE WALL BRACKET	17 W	4000 K	2000 lm	277 V	LED EXTERIOR WALL PACK WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY. VERIFY MOUNTING HEIGHT WITH ARCHITECT.	
X	LIGHTALARMS	LAXC-R1P	LED/RED	UNIVERSAL	8 W	0 K	0 lm	277 V	SINGLE FACE LED EXIT SIGN WITH RED LETTERS. 90 MINUTE EMERGENCY BATTERY AND EMERGENCY LED LIGHT BAR.	
XG	LIGHTALARMS	LAXC-R1P-WG1-L	LED/RED	SURFACE WALL	8 W	0 K	0 lm	277 V	LED EXIT LIGHT WITH RED LETTERS, 90 MINUTE EMERGENCY BATTERY, EMERGENCY LED LIGHT BAR AND WIRE GUARD.	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

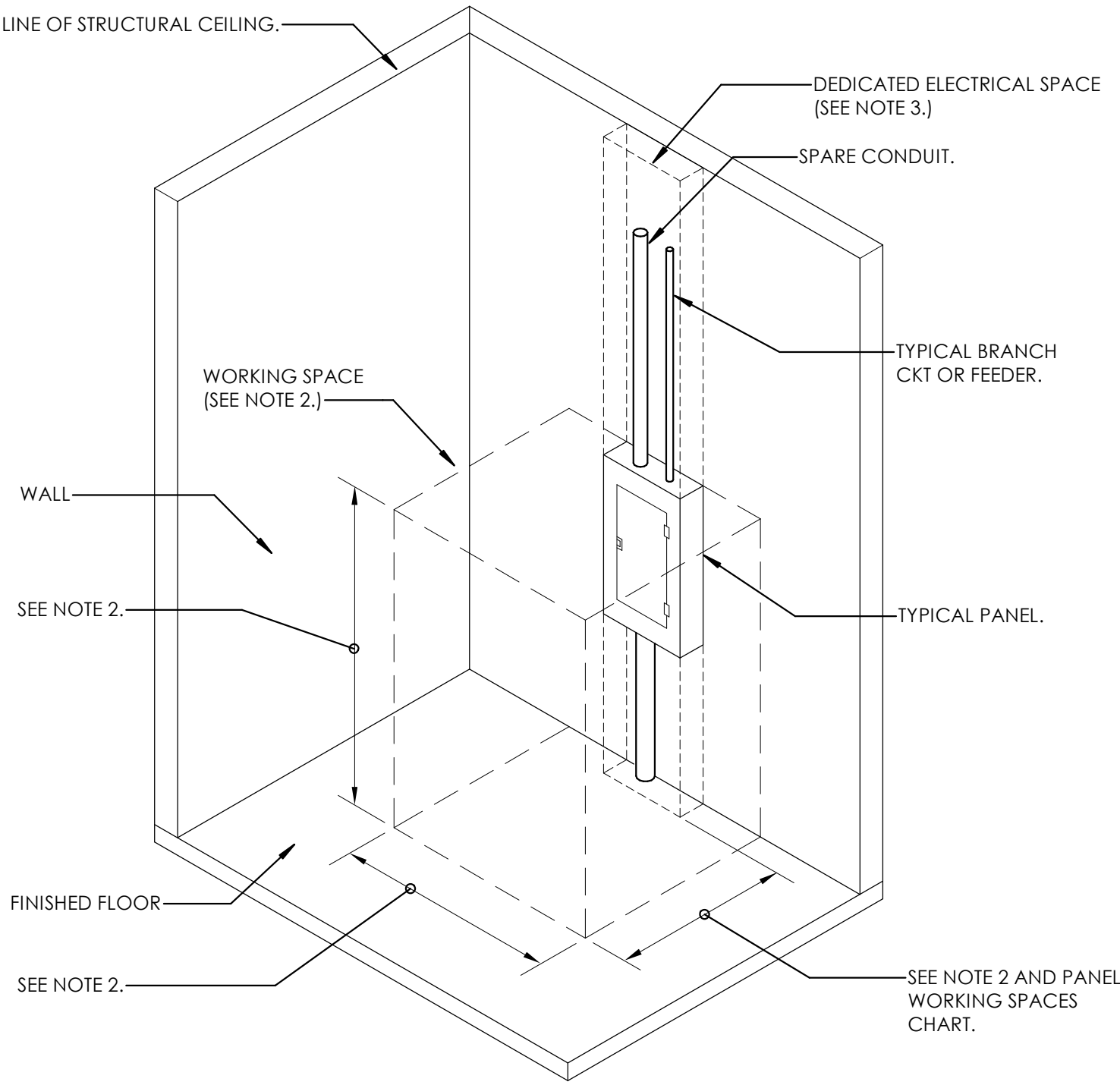
- ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
- ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
- ALL LUMINAIRE DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID, PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
- ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
- ADJUSTABLE AIMING LUMINAIRES SHALL BE ADJUSTED FOR FINAL APPROVAL AT NIGHT. OWNER, ARCHITECT AND ENGINEER RESERVES THE RIGHT TO HAVE THE CONTRACTOR ADJUST LIGHTING TO THEIR SATISFACTION.
- ALL SURFACE OR SUSPENDED LUMINAIRES SHALL HAVE JOINING PLATES, END CAPS, CANOPIES, ETC.
- ALL EXTERIOR POLES SHALL BE ALUMINUM WITH HANDHOLES. COORDINATE WITH LIGHTING FIXTURE SCHEDULE EXACT SIZE AND STYLE OF POLE.
- PROVIDE ALL LUMINAIRES CONNECTED TO A DIMMER SWITCH OR MODULE WITH A DIMMING DRIVER.
- ALL INTERIOR LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS OR LEDs. ALL EXTERIOR LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS OR LEDs.
- LUMINAIRES WITH TWO SUB-SCRIPTS, AN "a" AND "b", SHALL HAVE TWO ZONES CONTROLLED BY SEPARATE SWITCH OR RELAY POLE. SIMILARLY FOR OTHER SETS OF SUB-SCRIPTS SUCH AS "c", "d", "e", "f", ETC."
- ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES AND HEIGHTS.
- ALL LIGHTING PACKAGES MUST BE SUBMITTED FOR PRIOR APPROVAL MINIMUM 10 BUSINESS DAYS PRIOR TO BID.



1 POWER RISER DIAGRAM
NOT TO SCALE

POWER RISER DIAGRAM NOTES:

- 1 #2/0 BARE COPPER EACH GROUND IN 1" CONDUIT. ONE (1) TO COLD WATER PIPE, ONE (1) DRIVEN, ONE (1) TO BUILDING STEEL AND ONE (1) TO REBAR AS PER N.E.C. SEE SERVICE ENTRANCE GROUNDING DETAIL.
- TERMINATION OF SERVICE CONDUCTORS AT PAD MOUNTED TRANSFORMER AND AT SERVICE EQUIPMENT (WHERE POSSIBLE) SHALL BE TWO HOLE, LONG BARREL COMPRESSION LUGS (TWO COMPRESSIONS MINIMUM) (USCO, BURNDY OR EQUAL. CONNECTIONS SHALL BE MADE WITH FULL SIZE TINNED OR CADMIUM PLATED SILICONE BRONZE BOLTS AND HARDWARE.
- 1500W INVERTER SYSTEM FOR LIFE SAFETY LIGHTING. DUAL-LITE DLS SERIES #DLS-1500-277-8-2001-FSS OR APPROVED EQUAL. UL 924 WITH TYPE 'S' BATTERIES AND 90 MINUTE RUN TIME. PROVIDE WITH ONE(1) NORMALLY ON OUTPUT BREAKER AS REQUIRED.
- PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD ABOVE FINISH FLOOR UNDER EQUIPMENT. CONCRETE PAD SHALL BE AT LEAST 4" WIDER AND LONGER THAN EQUIPMENT



3 ELECTRICAL PANEL WORKING CLEARANCE DETAIL
NOT TO SCALE

NOTES:

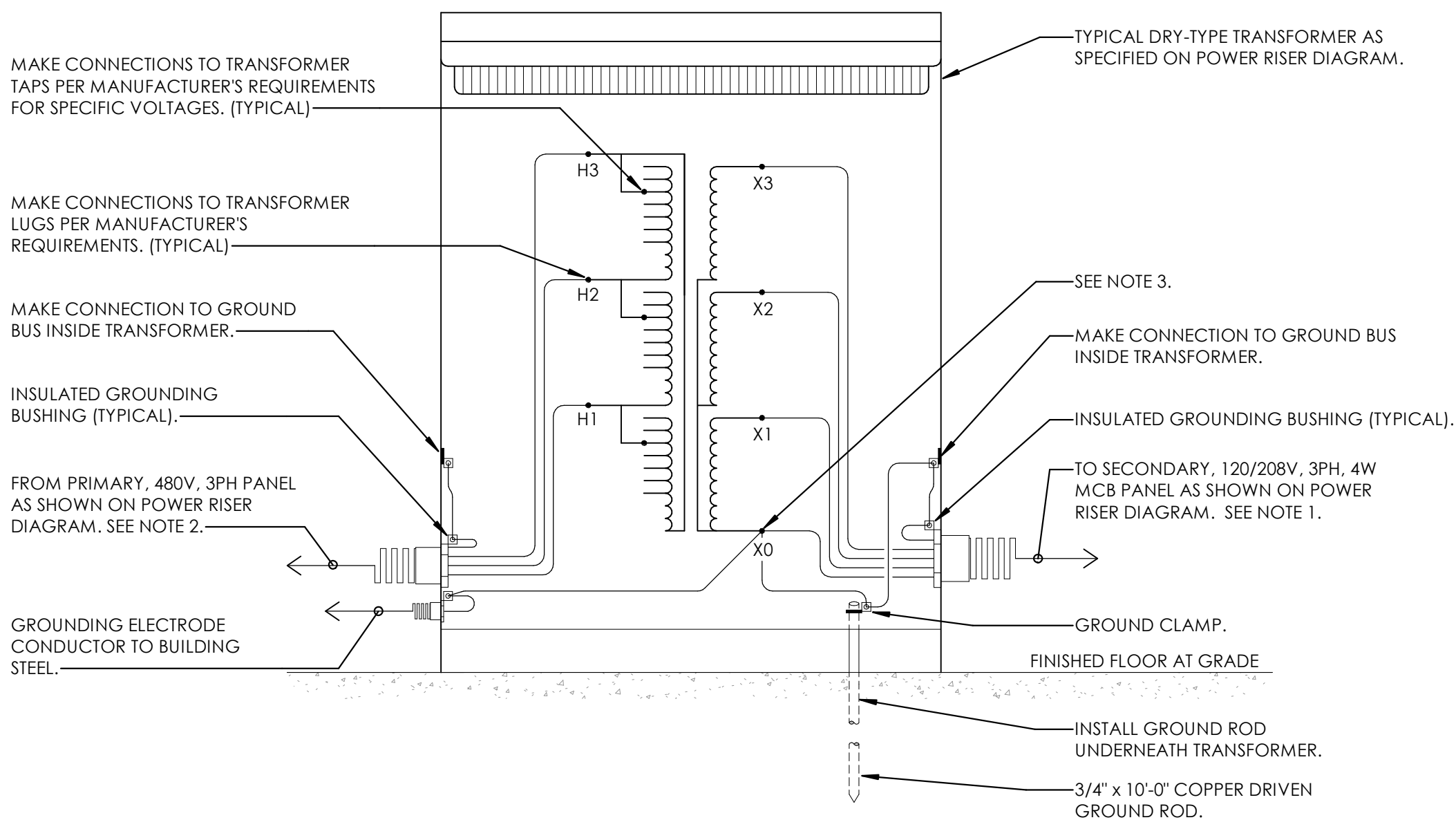
- DIMENSIONS SHOWN ARE MINIMUM.
- WORKING SPACE IS DEFINED AS THE SPACE IN FRONT OF THE PANEL FOR EXAMINATION, ADJUSTMENTS, SERVICING AND/OR MAINTENANCE WHILE ENERGIZED. IN ALL CASES WORK SPACES SHALL PERMIT AT LEAST A 90 DEG. OPENING OF EQUIPMENT DOORS OR HINGED PANELS. WIDTH: 30" OR WIDTH OF EQUIPMENT (WHICHEVER IS GREATER) HEIGHT: 6'-6" FROM FLOOR OR HEIGHT OF EQUIPMENT, (WHICHEVER IS GREATER) DEPTH: DEPENDS ON CONDITIONS OUTLINED IN PANEL WORKING SPACES CHART.
- DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT, EXTENDING FROM FLOOR TO A HEIGHT OF 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, (WHICHEVER IS LOWER)
- SEE NFPA 70, CURRENT NEC.



4 TYPICAL ARC FLASH WARNING LABEL DETAIL
NOT TO SCALE

NOTES:

- PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS PER N.E.C. 110.16.
- THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE. ALL OTHER LABELS MUST BE SUBMITTED FOR APPROVAL.
- THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- THE SIZE OF THE LABEL SHALL BE 4" HIGH AND 6" WIDE FOR INDOOR AND OUTDOOR EQUIPMENT.



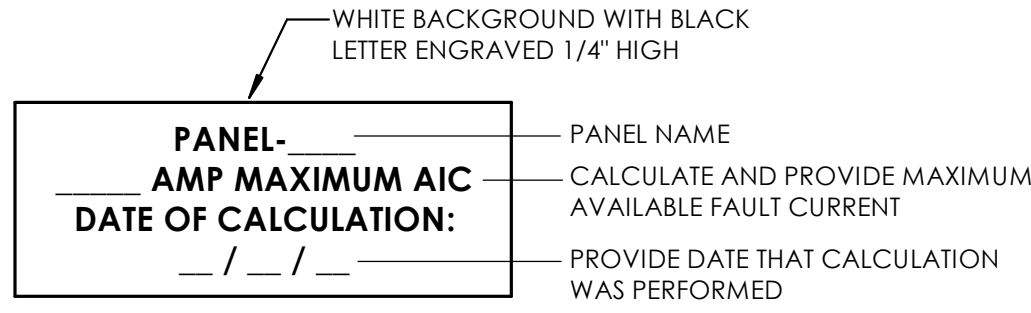
7 DRY-TYPE TRANSFORMER WIRING DIAGRAM
NOT TO SCALE

NOTES:

- SEE POWER RISER DIAGRAM FOR CONDUCTOR SIZES. PROVIDE THREE (3) UNGROUNDED CONDUCTORS MARKED BLACK, RED, AND BLUE. PROVIDE A GROUNDED CONDUCTOR MARKED WHITE AND A GROUNDING ELECTRODE CONDUCTOR MARKED GREEN.
- SEE POWER RISER DIAGRAM FOR CONDUCTOR SIZES. PROVIDE THREE (3) UNGROUNDED CONDUCTORS MARKED BROWN, ORANGE, AND YELLOW. PROVIDE A GROUNDING ELECTRODE CONDUCTOR MARKED GREEN.
- THE GROUNDING ELECTRODE CONDUCTOR FROM THE GROUND ROD AND BUILDING STEEL SHALL BE CONNECTED TO THE NEUTRAL BUS BAR.
- IF TRANSFORMER IS MOUNTED ON THE SECOND FLOOR, ONLY BUILDING STEEL GROUND IS REQUIRED. IF NO BUILDING STEEL IS AVAILABLE, THEN CONTRACTOR SHALL ROUTE THE GROUNDING ELECTRODE CONDUCTOR TO GRADE THROUGH CONDUIT AND MAKE CONNECTIONS TO A SEPARATE GROUND ROD.

DISCONNECT SWITCH SCHEDULE					
TYPE	VOLT	SIZE/POLE	FUSIBLE	NEMA	REMARKS
1	208	30A/2P	Y	3R	FUSE PER MANUFACTURER'S REQUIREMENTS.
2	480	30A/3P	Y	3R	FUSE PER MANUFACTURER'S REQUIREMENTS.
3	480	60A/3P	Y	3R	FUSE PER MANUFACTURER'S REQUIREMENTS.
4	208	30A/2P	Y	1	FUSE PER MANUFACTURER'S REQUIREMENTS.

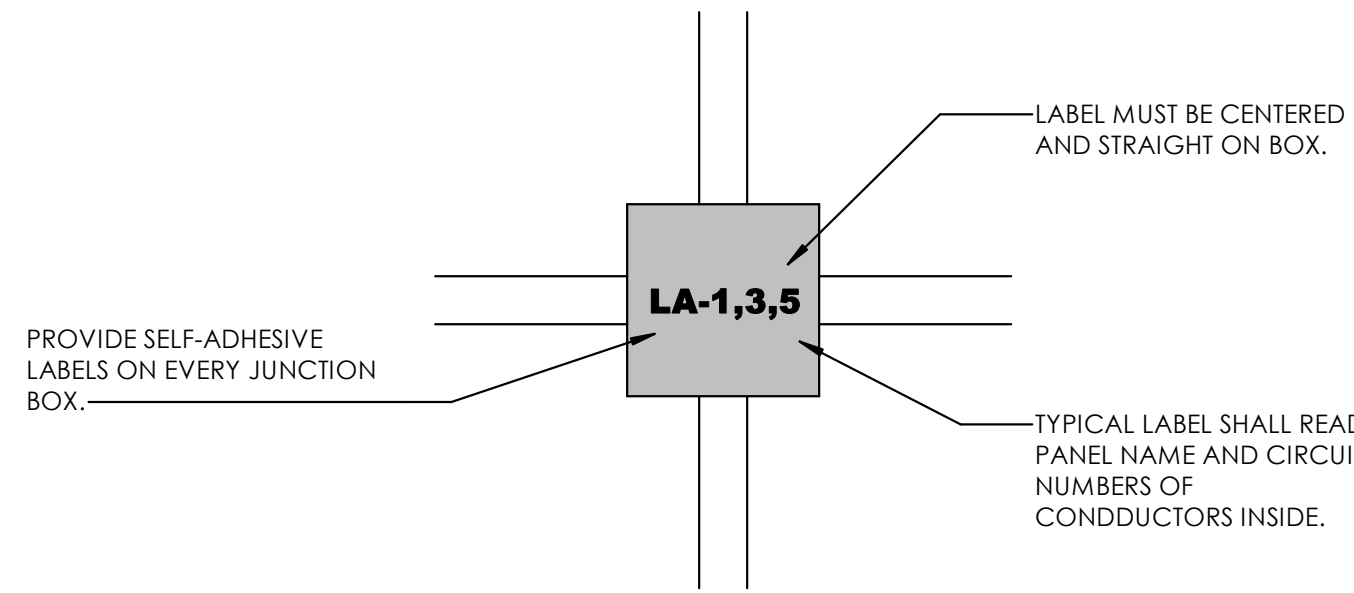
FEEDER SCHEDULE		
SYMBOL	COPPER CONDUCTORS	ALUMINUM CONDUCTORS
2/3G	2#12 & 1#12(G) - 3/4" c.	NOT APPROVED
3/3G	2#10 & 1#10(G) - 3/4" c.	NOT APPROVED
3/3G	3#10 & 1#10(G) - 3/4" c.	NOT APPROVED
6/3G	3#6 & 1#6(G) - 1" c.	NOT APPROVED
10/4G	4#3 & 1#8(G) - 1 1/2" c.	NOT APPROVED
12.5/3G	3#1 & 1#6(G) - 1 1/2" c.	NOT APPROVED
22.5/4G	4#4/0 & 1#4(G) - 2 1/2" c.	4#300MCM & 1#2(G) - 3" c.
40/4	4#500MCM - 3 1/2" c.	2 PARALLEL RUNS OF 4#250MCM - 3" c.



TYPICAL SERVICE ENTRANCE FAULT CURRENT NAMEPLATE

2 SERVICE ENTRANCE FAULT CURRENT NAMEPLATE DETAIL
NOT TO SCALE

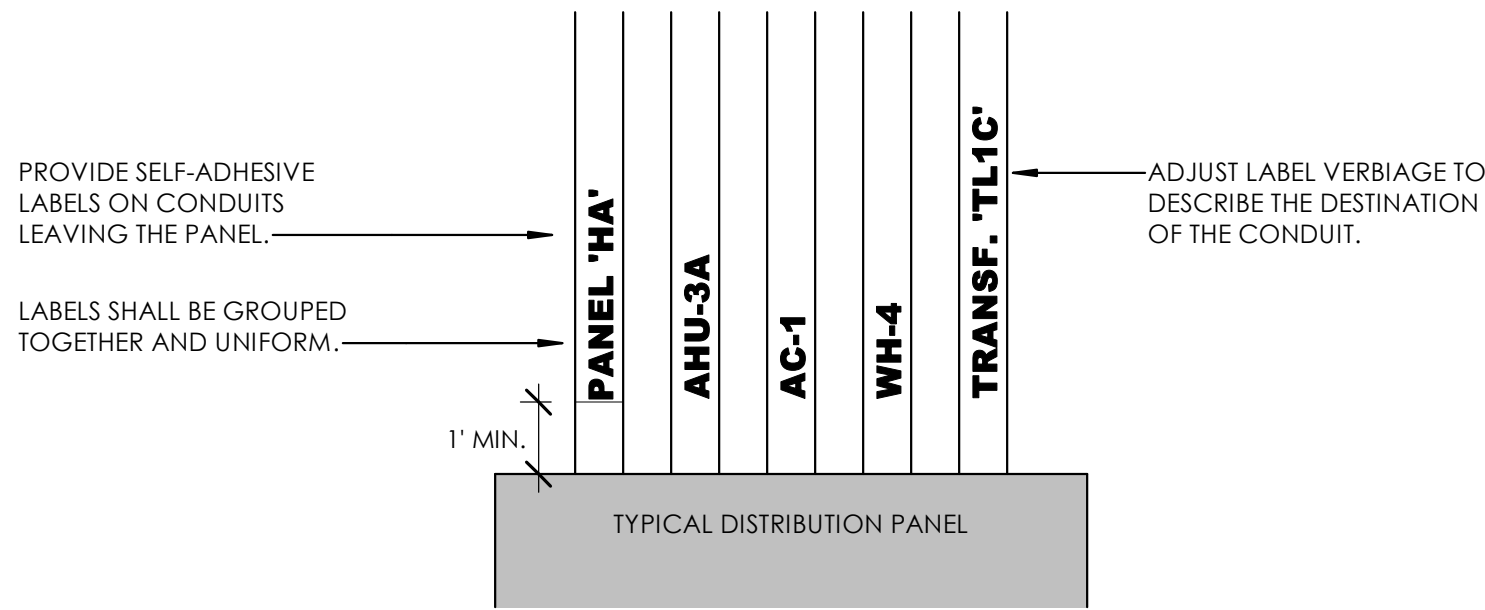
NOTE:
CONTRACTOR SHALL CALCULATE AND PROVIDE NAMEPLATE ON THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED. SEE NAMEPLATE REQUIREMENTS.



5 TYPICAL JUNCTION BOX LABEL DETAIL
NOT TO SCALE

NOTES:

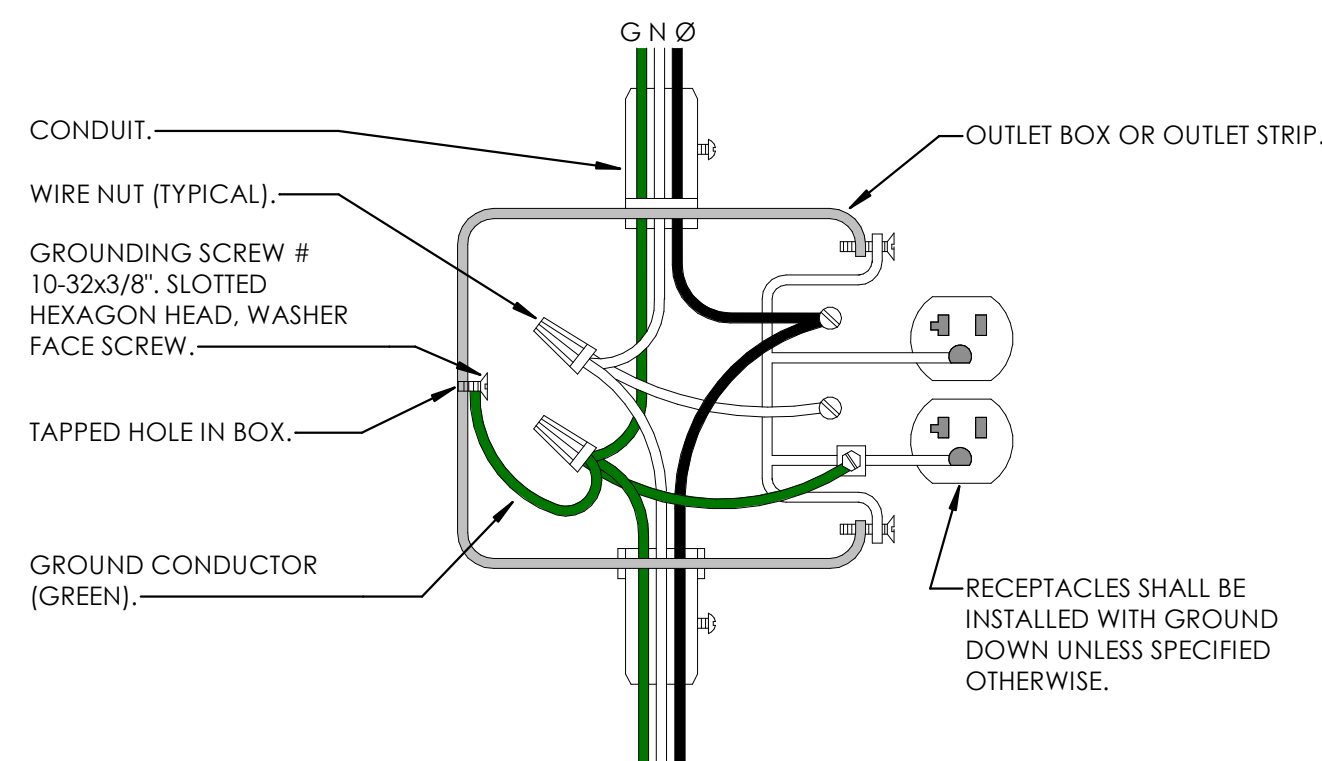
- ALL COVERS FOR FIRE ALARM MUST BE FACTORY APPLIED RED.
- ALL LABELS MUST BE PRE-PRINTED LABELS OF THE SAME SIZE AND TEXT. NO HAND WRITING WILL BE ACCEPTED.
- JUNCTION BOXES WITH CEILING PAINT ON THEM WILL NOT BE ACCEPTED.



6 TYPICAL FEEDER CONDUIT LABEL DETAIL
NOT TO SCALE

NOTES:

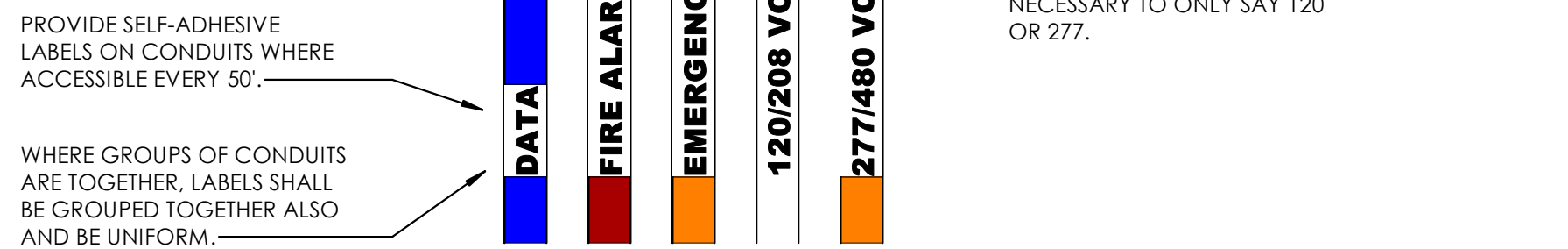
- THIS APPLIES TO ALL BRANCH FEEDER CONDUITS FEEDING MECHANICAL EQUIPMENT, OTHER MAJOR ELECTRICAL EQUIPMENT AND PANELS. 20A/1P BRANCH CIRCUITS DO NOT HAVE TO BE LABELED. ANY CONDUIT 1" AND LARGER MUST BE LABELED LEAVING ALL PANELS.
- ALL LABELS MUST BE PRE-PRINTED LABELS OF THE SAME SIZE AND TEXT.



8 TYPICAL RECEPTACLE DETAIL
NOT TO SCALE

NOTE:

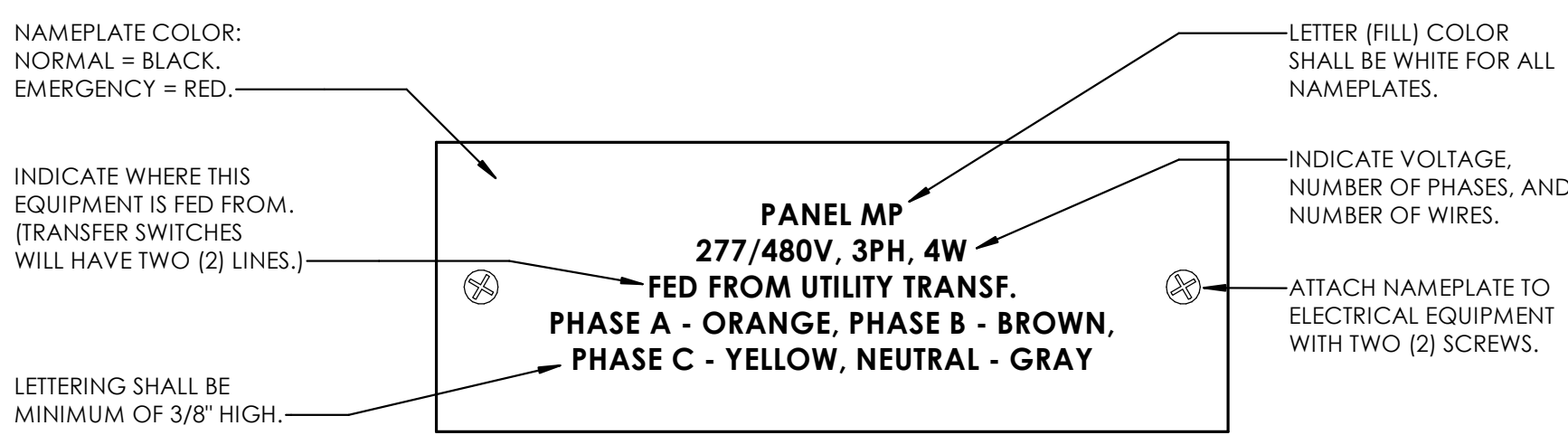
- NEUTRAL AND GROUND CONDUCTOR SHALL BE CONTINUOUS SO THAT REMOVAL OF DEVICES WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.



9 TYPICAL COLOR CONDUIT DETAIL
NOT TO SCALE

NOTES:

- ALL COLOR CONDUITS SHALL HAVE THE PAINT COLOR FACTORY APPLIED. SPRAY PAINTED CONDUIT WILL NOT BE ACCEPTED.
- ALL LABELS MUST BE PRE-PRINTED LABELS OF THE SAME SIZE AND TEXT.
- CONDUITS WITH CEILING PAINT ON THEM WILL NOT BE ACCEPTED.



10 ELECTRICAL EQUIPMENT NAMEPLATE DETAIL
NOT TO SCALE

NOTES:

- THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, ETC.
- NAMEPLATES SHALL BE MOUNTED NEAR THE TOP AND CENTER OF EQUIPMENT.

SHEET MUST BE PRINTED IN COLOR.

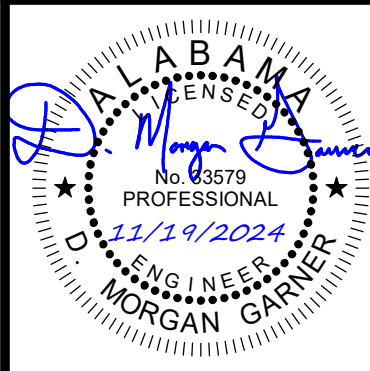
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FINAL
RE-SUBMITTAL

DATE: 11/19/24
PROJ NO: 23-091

REVISIONS		
#	DESC	DATE
1	ADD #1	8/28/26

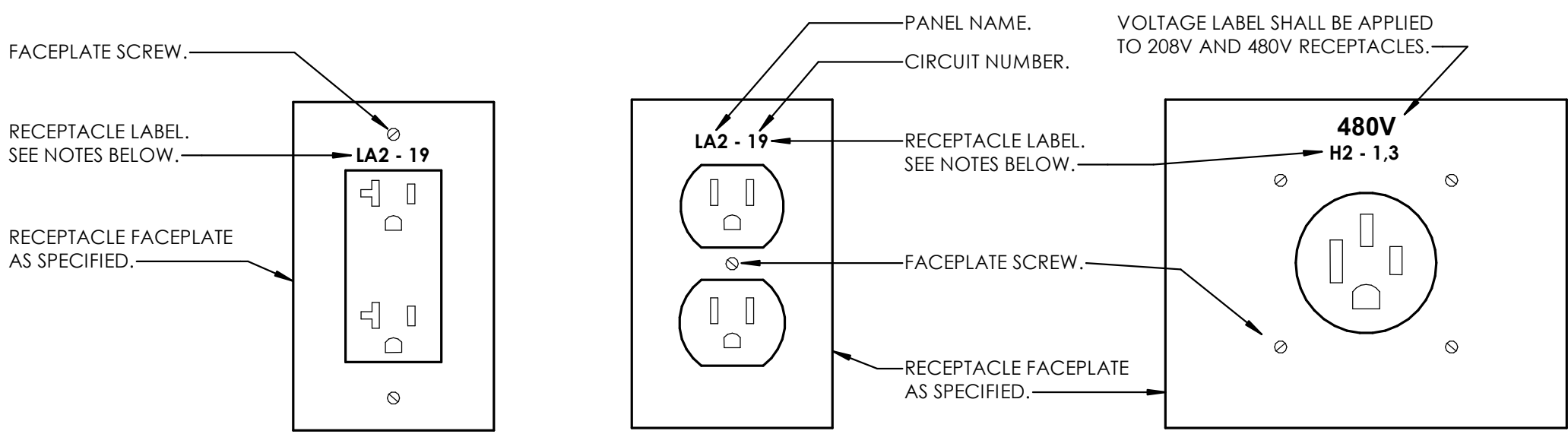
POWER RISER
DIAGRAM, DETAILS &
NOTES

2-E003

PANELBOARD SCHEDULE										PANEL MPG					
CKT	DIRECTORY	TRIP	POLE	A		B		C		POLE	TRIP	DIRECTORY	CKT		
1	DOAS-1A	20 A	3	2771 VA	0 VA	2771 VA	0 VA			3	20 A	SPARE	2		
3													4		
5								2771 VA	0 VA				6		
7													8		
9	SPARE	30 A	3	0 VA	5764 VA	0 VA	5764 VA			3	35 A	AHU-3A	10		
11													12		
13								0 VA	0 VA				0 VA	5764 VA	14
15															16
17	SPARE	60 A	3			0 VA	0 VA			3	60 A	SPARE	18		
19													20		
21													22		
23													24		
25	AHU-1A	60 A	3	9090 VA	9090 VA	9090 VA	9090 VA			3	60 A	AHU-2A	26		
27															28
29															30
27	TRANSFORMER - TX-GA	125 A	3	18840 VA	3174 VA	19730 VA	3785 VA			3	100 A	PANEL - GHA	28		
29															30
				TOTAL LOADS:		48728 VA		50230 VA		50269 VA					
				TOTAL AMPS:		176 A		182 A		182 A					
VOLTAGE:				277/480V, 3PH, 4W				PANEL TYPE:				RQ			
MAIN BREAKER:				MCB				MAIN BUS:				400 A			
MOUNTING:				SURFACE				A.I.C. RATING:				22K			
NOTES:								ENCLOSURE:				NEMA 1			
								LOCATION:				ELEC/MECH 1210			
								TOTAL CONNECTED LOAD:				178 A			
								FEED FROM:				PAD-MOUNTED TRANSFORMER			
								FEEDER SIZE:				SEE RISER DIAGRAM.			

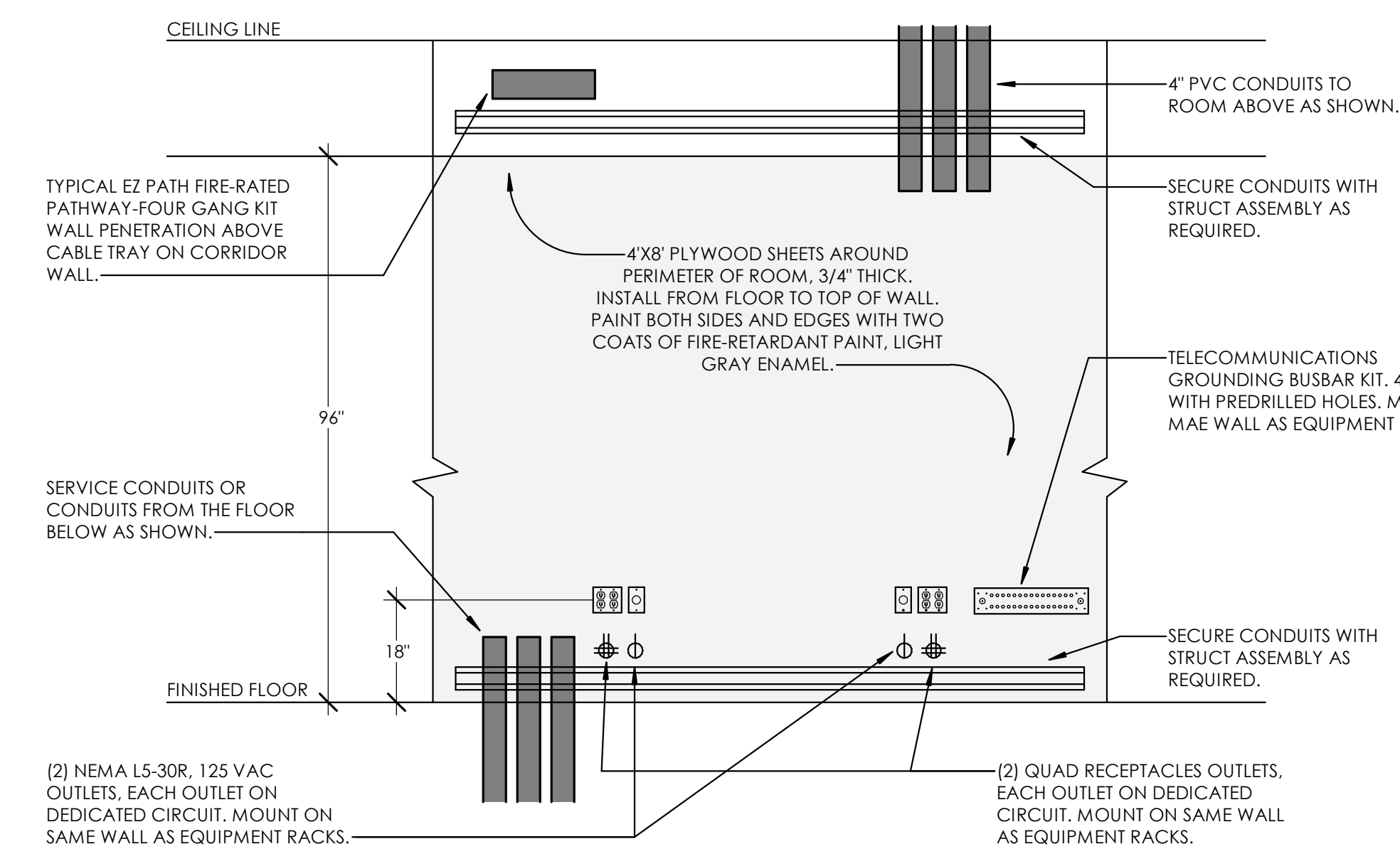
PANELBOARD SCHEDULE										PANELGHA					
CKT	DIRECTORY	TRIP	POLE	A		B		C		POLE	TRIP	DIRECTORY	CKT		
1	SPARE	20 A	1	0 VA	1843 VA	0 VA	2550 VA			1	20 A	LIGHTING - INTERIOR	2		
3	SPARE	20 A	1							1	20 A	LIGHTING - GYMNASIUM 1107	4		
5	STAGE LIGHTING	20 A	1					2660 VA	1318 VA	1	20 A	SITE LIGHTING	6		
7	SPARE	20 A	1	0 VA	1331 VA	0 VA	485 VA			1	20 A	LIGHTING - STAGE 1114	8		
9	SPARE	20 A	1							1	20 A	LIGHTING - EXTERIOR	10		
11	SPARE	20 A	1					0 VA	468 VA	1	20 A	LIGHTING - EXTERIOR	12		
13	SPARE	20 A	1	0 VA	0 VA	0 VA	0 VA			1	20 A	SPARE	14		
15	SPARE	20 A	1							1	20 A	SPARE	16		
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18		
19	SPARE	20 A	1	0 VA	0 VA	0 VA	0 VA			1	20 A	SPARE	20		
21	SPARE	20 A	1							1	20 A	SPARE	22		
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24		
25	SPARE	20 A	1	0 VA	0 VA	0 VA	750 VA			1	20 A	SPARE	26		
27	SPARE	20 A	1							2	30 A	INVERTER - 'INV'	28		
29	SPARE	20 A	1					0 VA	750 VA				30		
		TOTAL LOADS:		3174 VA		3785 VA		5196 VA							
		TOTAL AMPS:		11 A		14 A		19 A							
VOLTAGE:		277/480V, 3PH, 4W		PANEL TYPE:		RQ		LOCATION:		ELEC/MECH 1210					
MAIN BREAKER:		MLO		MAIN BUS:		100 A		TOTAL CONNECTED LOAD:		15 A					
MOUNTING:		SURFACE		A.I.C. RATING:		22K		FEED FROM:		MPG					
NOTES:		ENCLOSURE:		NEMA 1				FEEDER SIZE:		SEE RISER DIAGRAM.					

PANELBOARD SCHEDULE										PANEL GLA			
CKT	DIRECTORY	TRIP	POLE	A		B		C		POLE	TRIP	DIRECTORY	CKT
1	MOTORIZED DOOR GYMNASIUM	20 A	1	360 VA	800 VA					1	20 A	REC. STORAGE 1212	2
3	REC. GYMNASIUM 1207	20 A	1			200 VA	400 VA			1	20 A	REC. STORAGE 1212	4
5	REC. OFFICE 1208	20 A	1					1200 VA	400 VA	1	20 A	REC. STORAGE 1212	6
7	EWG, *GF	20 A	1	1200 VA	1400 VA					1	20 A	HAND DRYER WOMENS 1204	8
9	EWG, *GF	20 A	1			1200 VA	1400 VA			1	20 A	HAND DRYER WOMENS 1204	10
11	REC. VESTIBULE 1202	20 A	1					800 VA	600 VA	1	20 A	REC. WOMENS 1206	12
13	REC. GYMNASIUM 1207	20 A	1	1400 VA	600 VA					1	20 A	REC. MENS 1204	14
15	REC. CORRIDOR 1216	20 A	1			1000 VA	1400 VA			1	20 A	HAND DRYER MENS 1204	16
17	REC. CORRIDOR 1216	20 A	1					600 VA	1400 VA	1	20 A	HAND DRYER MENS 1204	18
19	REC. STAGE 1214	20 A	1	1000 VA	600 VA					1	20 A	POWER OPERATED GOAL	20
21	REC. STAGE 1214	20 A	1			980 VA	600 VA			1	20 A	POWER OPERATED GOAL	22
23	REC. GYMNASIUM 1207	20 A	1					600 VA	600 VA	1	20 A	POWER OPERATED GOAL	24
25	REC. EXTERIOR	20 A	1	800 VA	600 VA					1	20 A	POWER OPERATED GOAL	26
27	REC. ELEC/MECH 1210	20 A	1			400 VA	600 VA			1	20 A	POWER OPERATED GOAL	28
29	REC. ELEC/MECH 1210	20 A	1					400 VA	600 VA	1	20 A	POWER OPERATED GOAL	30
31	REC. ELEC/MECH 1210	20 A	1	400 VA	200 VA					1	20 A	REC. FIRE VAULT	32
33	GAS WATER HEATER - GWH-1A	20 A	1			200 VA	600 VA			1	20 A	FACP(RED-LOCKED ON)	34
35	CIRCULATING PUMP/TIMECLOCK	20 A	1					800 VA	1200 VA	1	20 A	FLOOR BOX GYMNASIUM 1207	36
37	GYM EQUIPMENT PANEL	20 A	1	1200 VA	1200 VA					1	20 A	FLOOR BOX GYMNASIUM 1207	38
39	LIGHTING CONTROL PANEL	20 A	1			300 VA	1200 VA			1	20 A	FLOOR BOX GYMNASIUM 1207	40
41	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	42
43	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	44
45	SPARE	20 A	1			0 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	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
55	SPARE	20 A	1	0 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	2	0 VA	0 VA					2	20 A	SPARE	62
63						0 VA	0 VA						64
65								1664 VA	0 VA				
67	SCOREBOARD	30 A	2	1664 VA	0 VA					2	30 A	SPARE	68
69						1664 VA	0 VA						
71	SCOREBOARD	30 A	2					1664 VA	0 VA	2	30 A	SPARE	72
73						2496 VA	1090 VA						
75	LIFT	30 A	2			2496 VA	1090 VA			2	20 A	ELECTRIC UNIT HEATER - UH-1A	76
77								915 VA	915 VA				
79	DCU-1A	30 A	2	915 VA	915 VA					2	30 A	DCU-2A	80
81						2000 VA	2000 VA						
83	DATA RACK	30 A	2					2000 VA	2000 VA	2	30 A	DATA RACK	84
		TOTAL LOADS:		18840 VA		19730 VA		18358 VA					
		TOTAL AMPS:		158 A		165 A		153 A					
VOLTAGE:		120/208V, 3PH, 4W		PANEL TYPE:		RQ		LOCATION:		ELEC/MECH 1210			
MAIN BREAKER:		MCB		MAIN BUS:		225 A		TOTAL CONNECTED LOAD:		154 A			
MOUNTING:		SURFACE		A.I.C. RATING:		22K		FEED FROM:		TX-GLA			
NOTES:				ENCLOSURE:		NEMA 1		FEEDER SIZE:		SEE RISER DIAGRAM.			



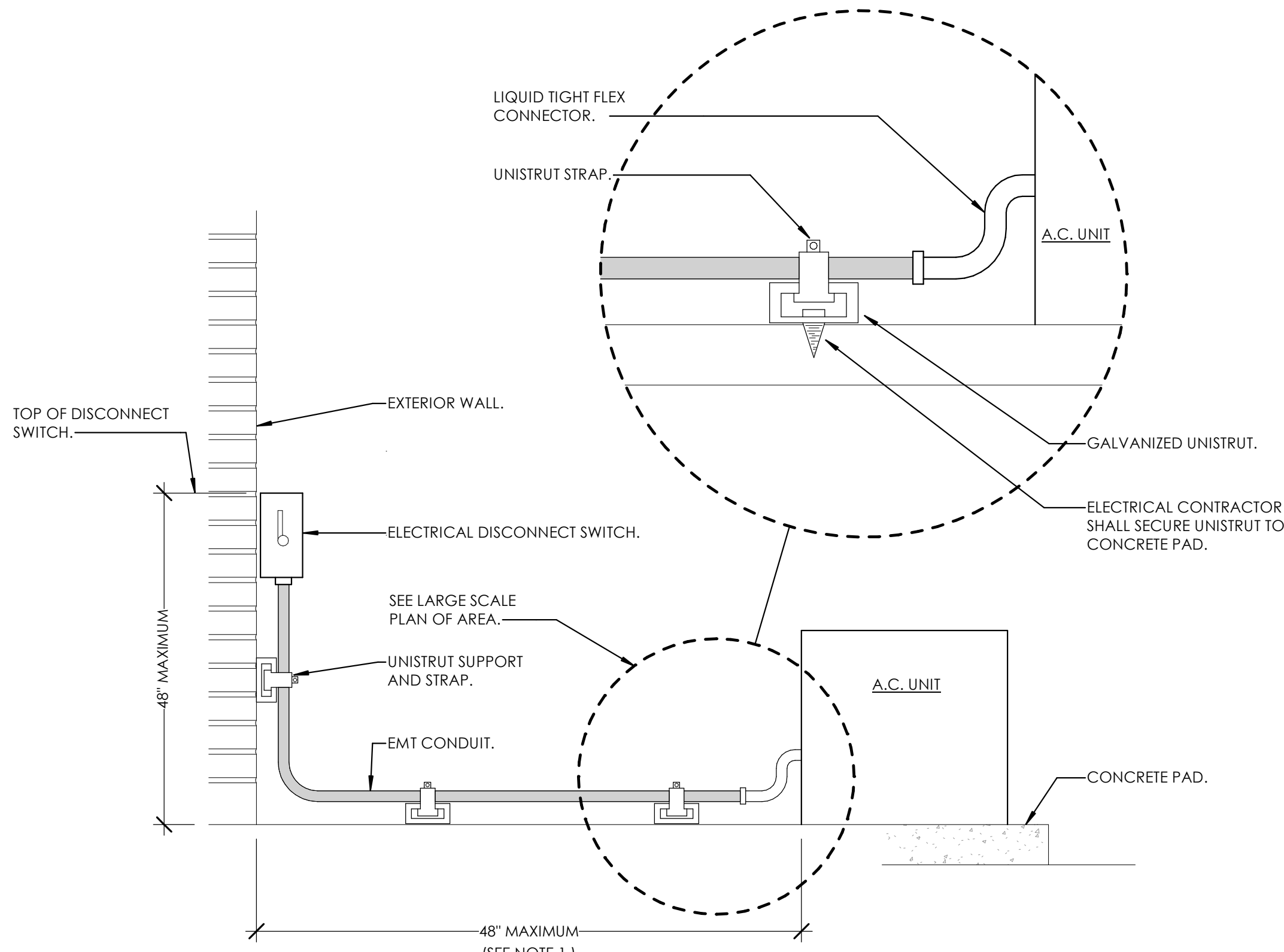
1 RECEPTACLE OUTLET LABELING DETAIL

- NOT TO SCALE
- NOTES:
- RECEPTACLE FACEPLATES SHALL BE LABELED WITH THE PANEL NAME AND CIRCUIT NUMBER IT IS FED FROM.
 - LETTERING SHALL BE A MINIMUM OF 3/16" HIGH.
 - STAINLESS STEEL FACEPLATE**
LETTER (FILL) COLOR:
NORMAL = WHITE.
EMERGENCY = RED.
* STAINLESS STEEL FACEPLATE LABELS SHALL BE ENGRAVED.



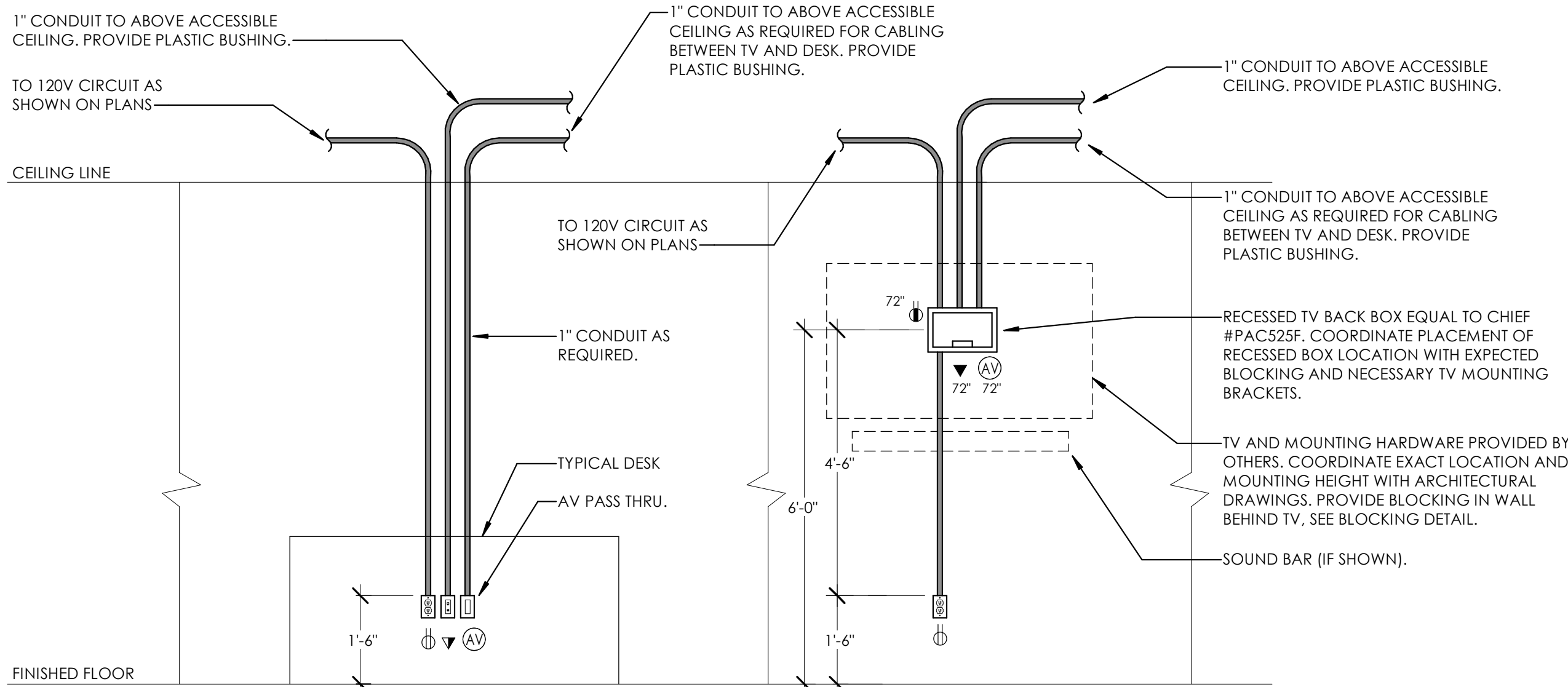
3 TYPICAL DATA ROOM BACKBOARD WALL ELEVATION

NOT TO SCALE



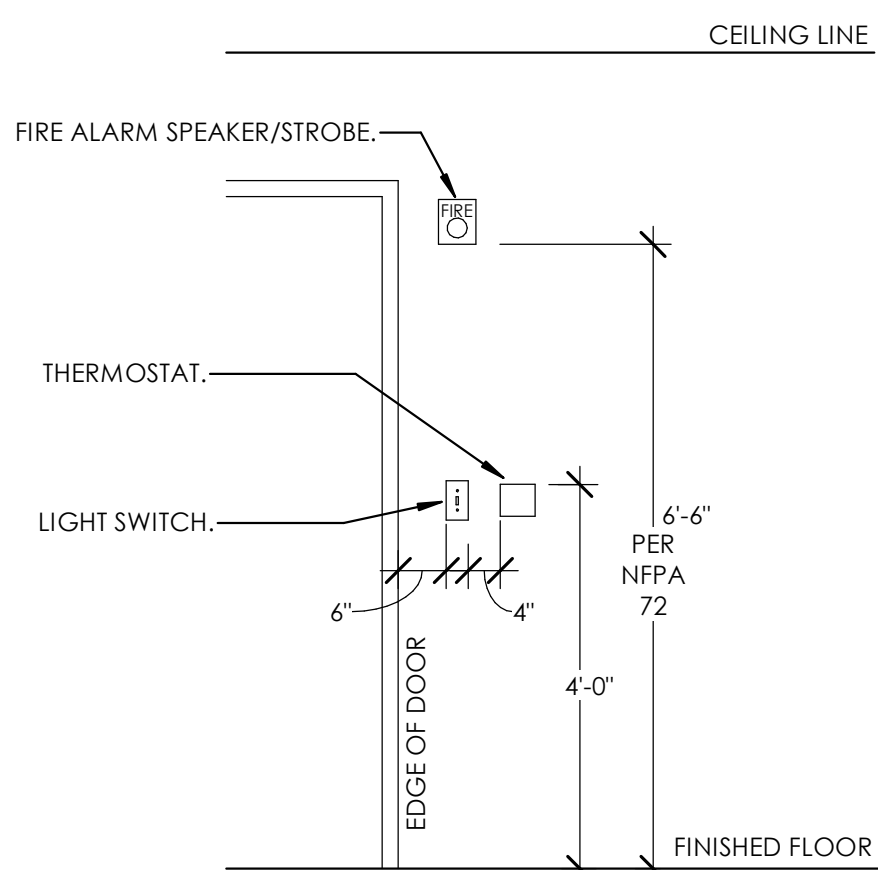
7 TYPICAL MECHANICAL UNIT CONNECTION DETAIL

- NOT TO SCALE
- NOTE:
- FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECHANICAL UNIT. STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECHANICAL UNIT, WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.



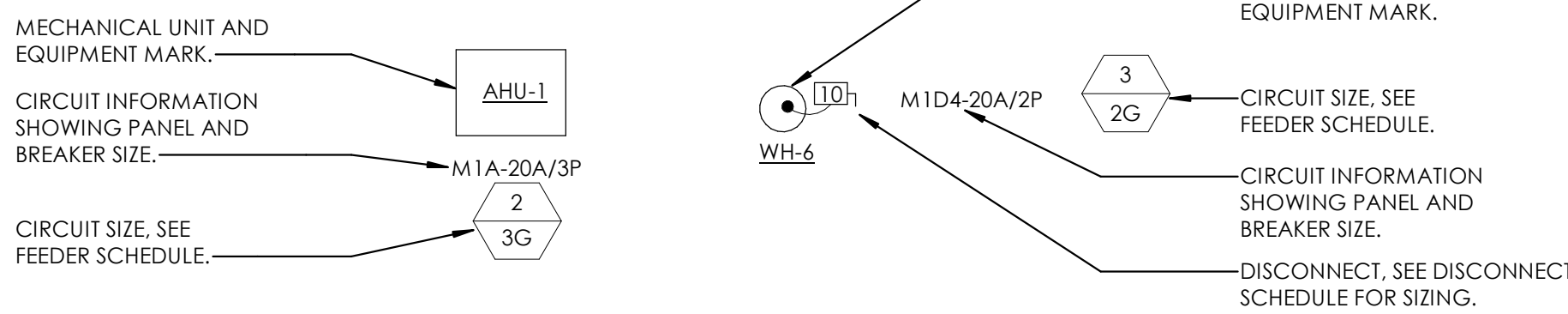
2 TYPICAL OFFICE OUTLET DETAIL

- NOT TO SCALE
- NOTES:
- ALL CONDUITS, JUNCTION BOXES AND AV BOXES TO BE FURNISHED BY ELECTRICAL CONTRACTOR.
 - VERIFY HEIGHT OF DISPLAY WITH ARCHITECT AN OWNER PRIOR TO ROUGH-IN.
 - COORDINATE PLACEMENT OF RECESSED BOX LOCATION WITH EXPECTED BLOCKING AND NECESSARY TV MOUNTING BRACKETS.



4 TYPICAL THERMOSTAT/SWITCH/FIRE ALARM INSTALLTION DETAIL

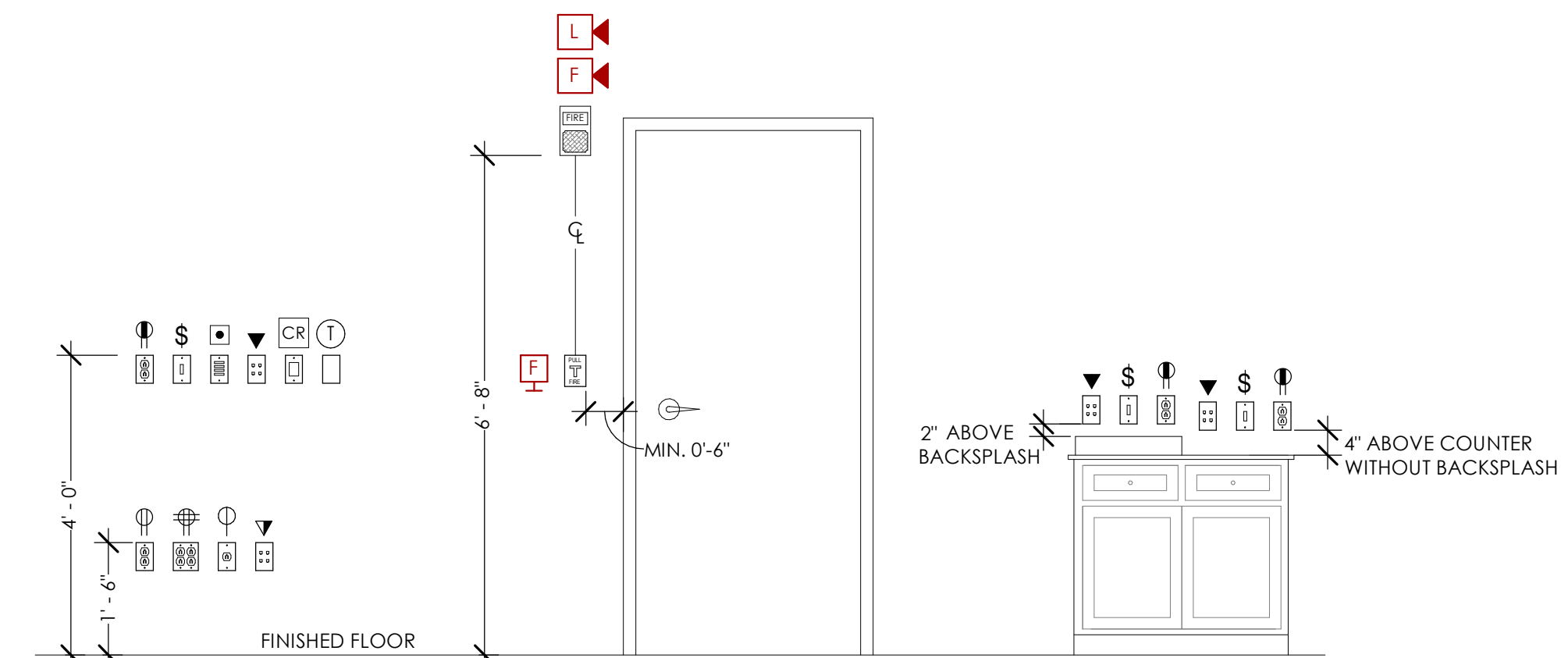
- NOT TO SCALE
- NOTES:
- MOUNT DEVICES ON SAME VERTICAL CENTERLINE.
 - THERMOSTATS SHALL BE MOUNTED PER ADA.
 - THE LIGHT SWITCH MAY NOT APPLY IN ALL CASES.
 - IF THE THERMOSTAT IS SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
 - ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.



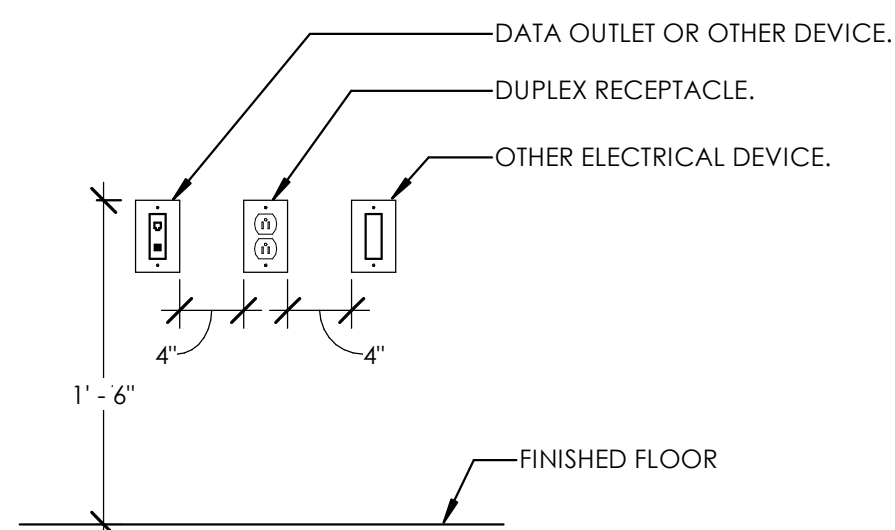
8 TYPICAL MECHANICAL EQUIPMENT ELECTRICAL DETAIL

- NOT TO SCALE
- NOTES:
- THIS DETAIL IS TYPICAL FOR ALL MECHANICAL/PLUMBING EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR HANDLERS, MINI SPLITS, ROOF TOP UNITS, WATER HEATERS, ETC.
 - IF NO DISCONNECT IS SHOWN, UNIT IS FURNISHED WITH INTEGRAL DISCONNECT FROM MANUFACTURER OR IS IN SIGHT OF ELECTRICAL PANEL. MAKE ELECTRICAL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY UNITS HAVE INTEGRAL DISCONNECT WITH MECHANICAL CONTRACTOR.

DIAGRAM OF TYP. DEVICE LOCATION AND MOUNTING HEIGHTS

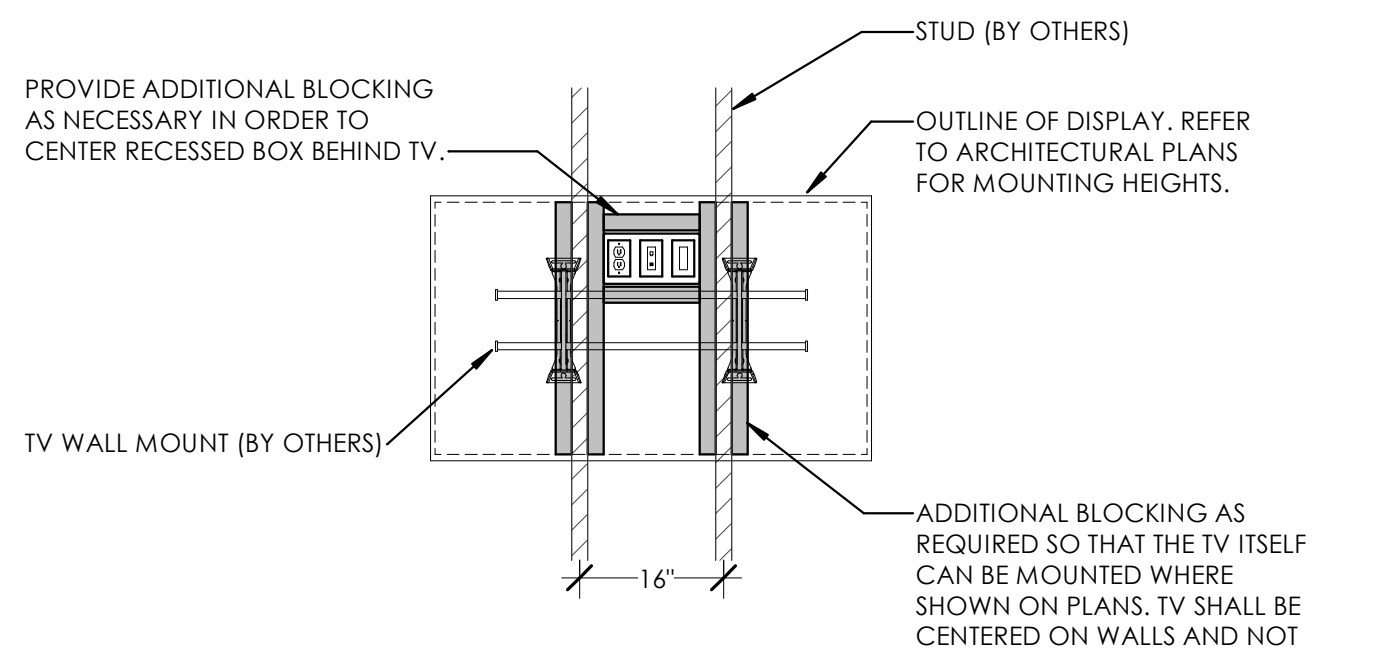


- NOTES:
- THE MOUNTING HEIGHTS DELINEATED ABOVE ARE TYPICAL ONLY. PLANS, ELEVATIONS AND DETAILS MAY SHOW VARIATIONS FOR SPECIFIC CONDITIONS.
 - ALL DIMENSIONS ARE TO THE TOP OF THE BOX.
 - WHERE OUTLETS ARE SHOWN TO BE MOUNTED ABOVE COUNTER (AC), THE ELECTRICAL CONTRACTOR SHALL REFERENCE THE ARCHITECTURAL AND/OR CASEWORK DRAWINGS AND ROUGH-IN EACH DEVICE 6" ABOVE THE COUNTER SURFACE TO THE BOTTOM OF THE BOX.
 - SYMBOLS ON DRAWINGS AND MOUNTING HEIGHTS AS INDICATED ARE APPROXIMATE ONLY. THE EXACT LOCATIONS AND MOUNTING HEIGHTS MUST BE DETERMINED ON THE JOB AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO SECURE CORRECT INSTALLATION: i.e. OVER COUNTERS, IN OR ABOVE BACK SPLASHES, IN STOP WALLS, AND OTHER SPECIFIC CONSTRUCTION FEATURES. MOUNT ALL RECEPTABLES VERTICAL WITH GROUND SLOT FACING UP.
 - FIRE ALARM DEVICES SHALL BE MOUNTED PER NFPA 72. THE PULL STATION HANDLE SHALL BE MOUNTED BETWEEN 42" AND 48" ABOVE THE FINISH FLOOR. THE STROBE SHALL BE MOUNTED BETWEEN 80" AND 96" ABOVE THE FINISH FLOOR.
 - IF FIRE ALARM DEVICES ARE SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.
 - ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.
 - THERMOSTATS SHALL BE MOUNTED PER ADA.



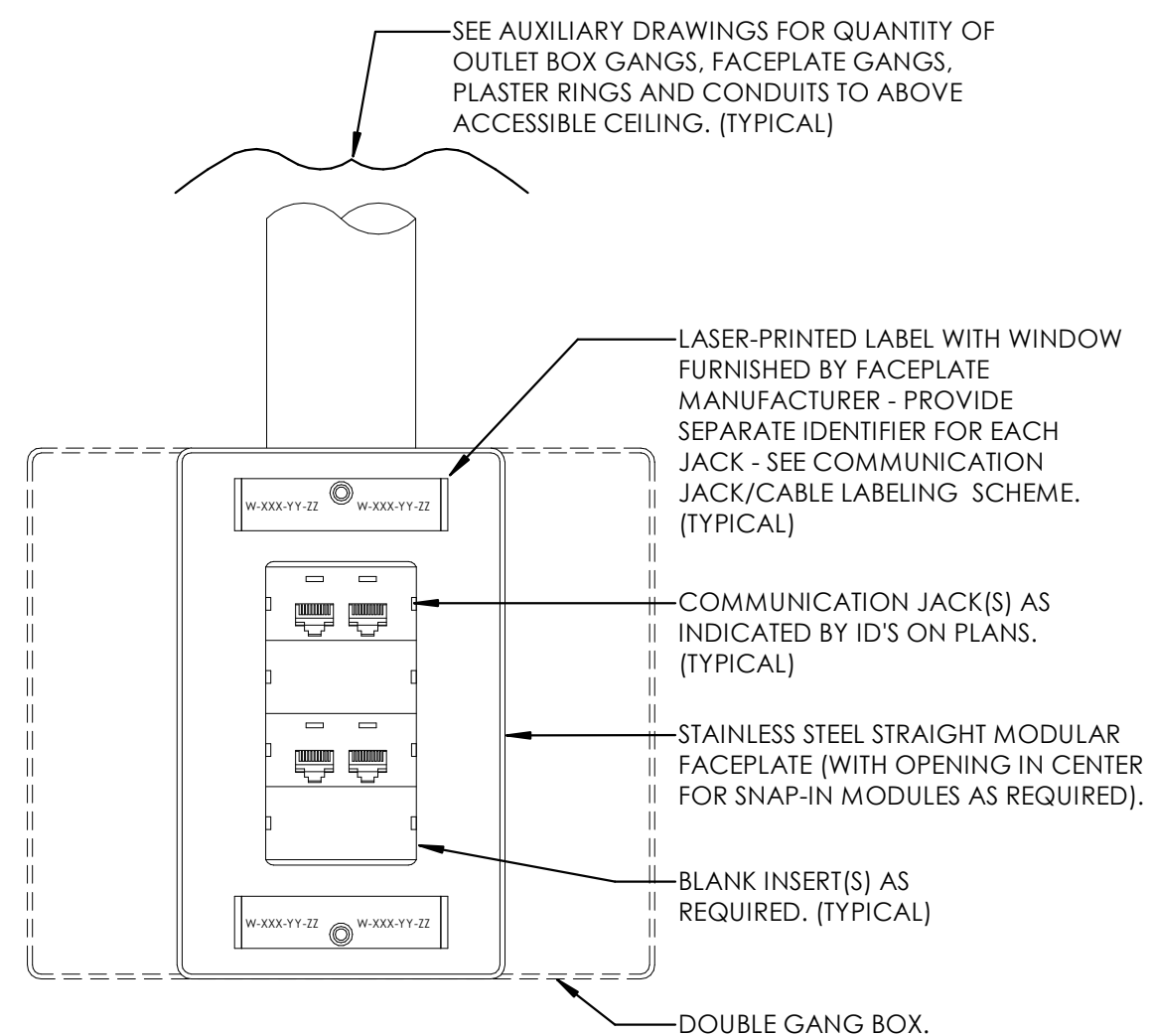
5 TYPICAL ELECTRICAL DEVICE DETAIL

- NOT TO SCALE
- NOTES:
- THIS DETAIL APPLIES WHERE EVER MULTIPLE DEVICES ARE SHOWN NEXT TO EACH OTHER ON THE SAME WALL.
 - SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF DEVICES.
 - ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.



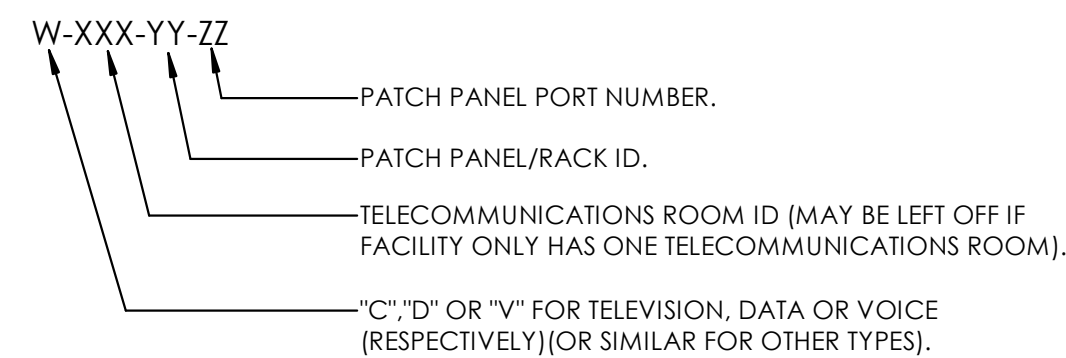
6 TYPICAL TV BLOCKING DETAIL

- NOT TO SCALE
- NOTES:
- ELECTRICAL CONTRACTOR TO PROVIDE BLOCKING. RECESSED BOX, RECEPTACLE(S) AND DATA BOX(ES) AT ALL TV LOCATIONS.
 - VERIFY HEIGHT OF DISPLAY WITH ARCHITECT PRIOR TO ROUGH-IN.
 - SEE DETAILS THIS SHEET FOR ADDITIONAL REQUIREMENTS.



9 COMMUNICATIONS OUTLET DETAIL

NOT TO SCALE



SHEET MUST BE PRINTED IN COLOR.

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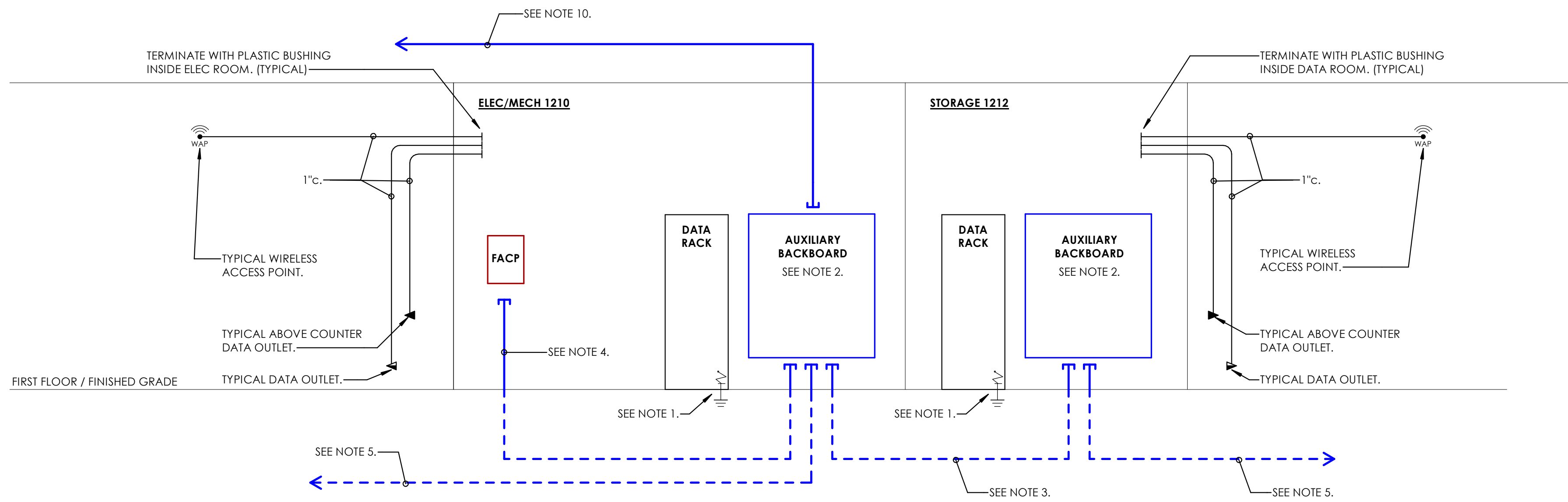
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REVISIONS		
#	DESC	DATE
1	ADD #1	8/28/26

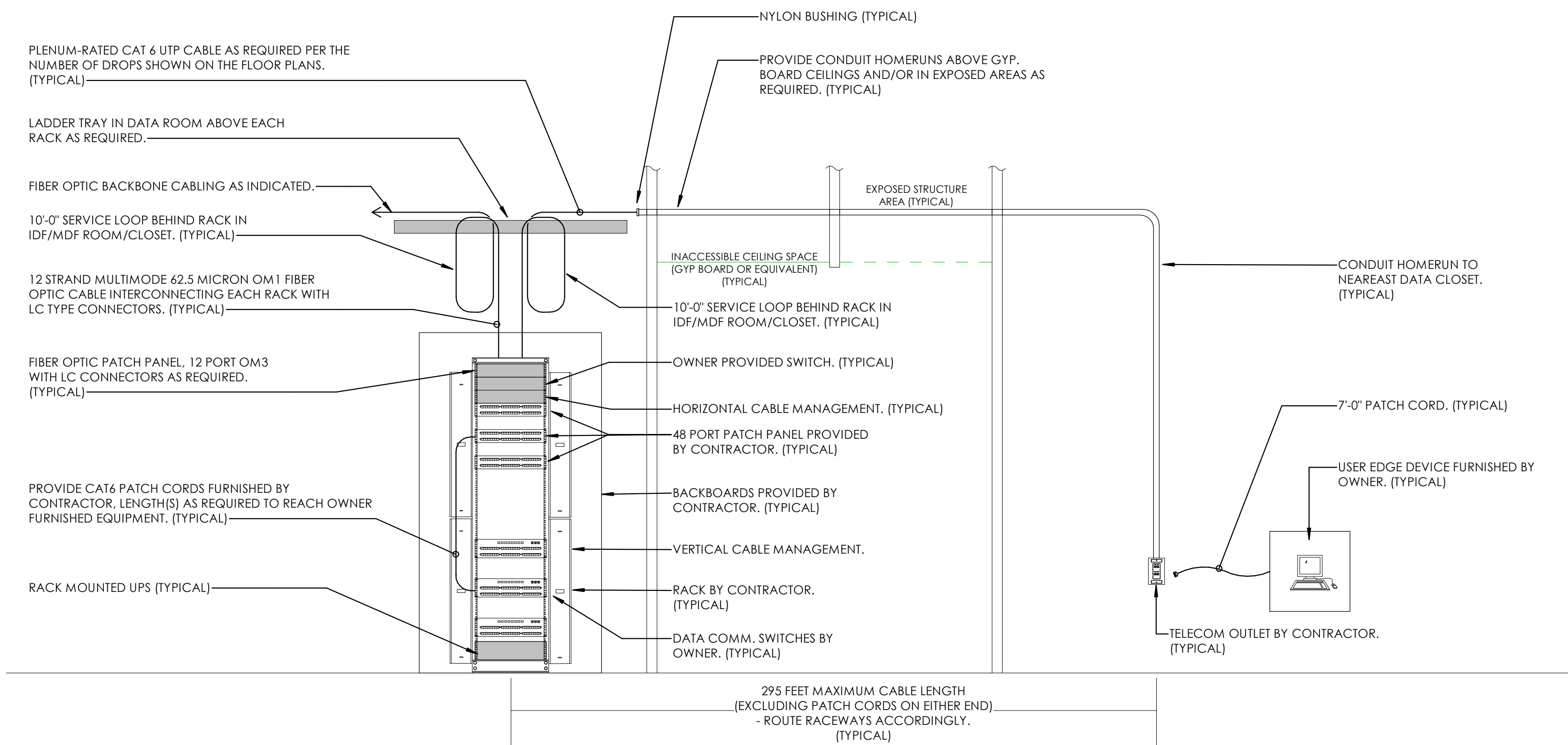
ELECTRICAL
DETAILS

2-E005



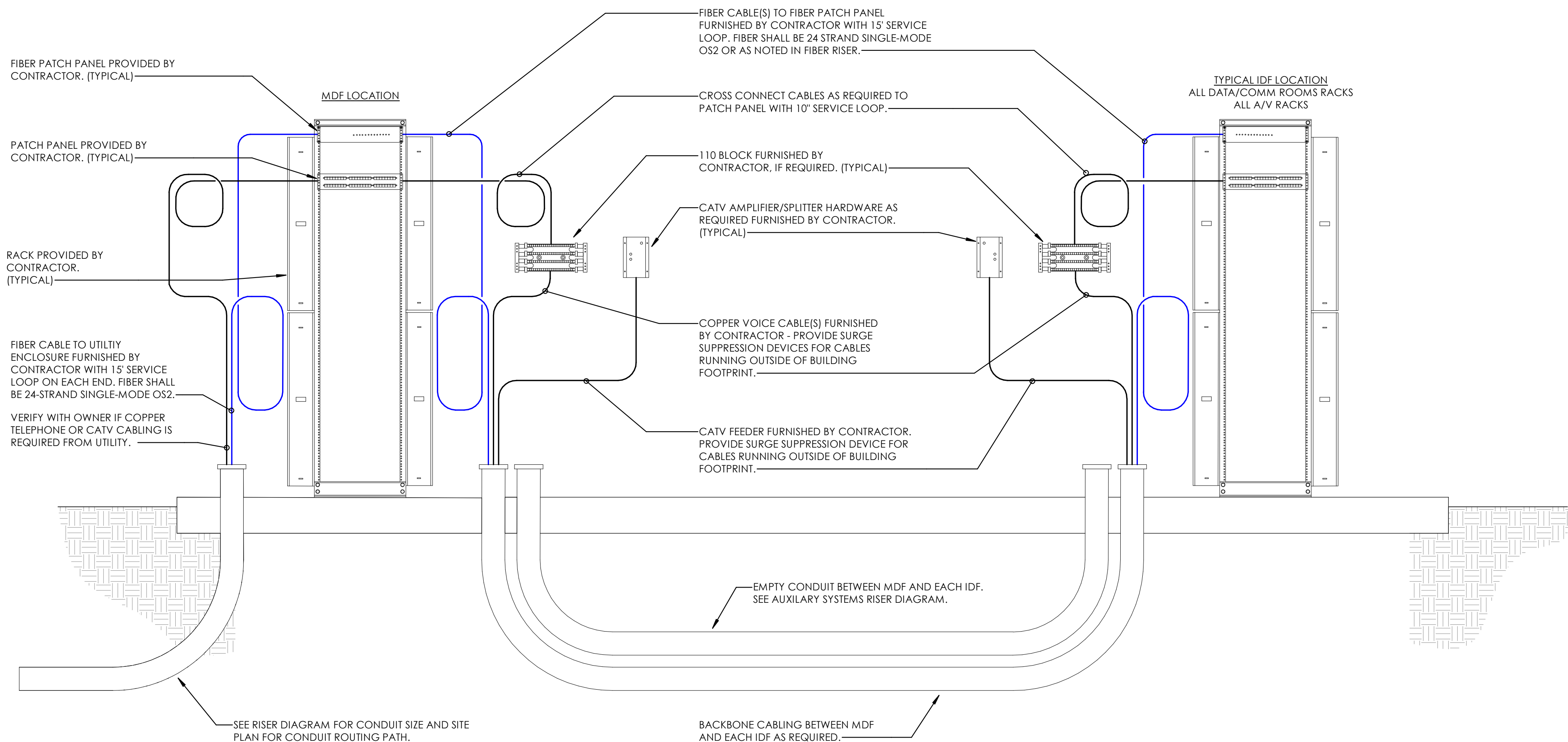
1 AUXILIARY SYSTEMS RACEWAY RISER DIAGRAM

NOT TO SCALE
NOTE: REFER TO TYPICAL STRUCTURED CABLING DETAIL FOR WIRING REQUIREMENTS TO EACH OUTLET AND BETWEEN RACKS.



2 STRUCTURED CABLING TYPICAL WIRING DIAGRAM

NOT TO SCALE

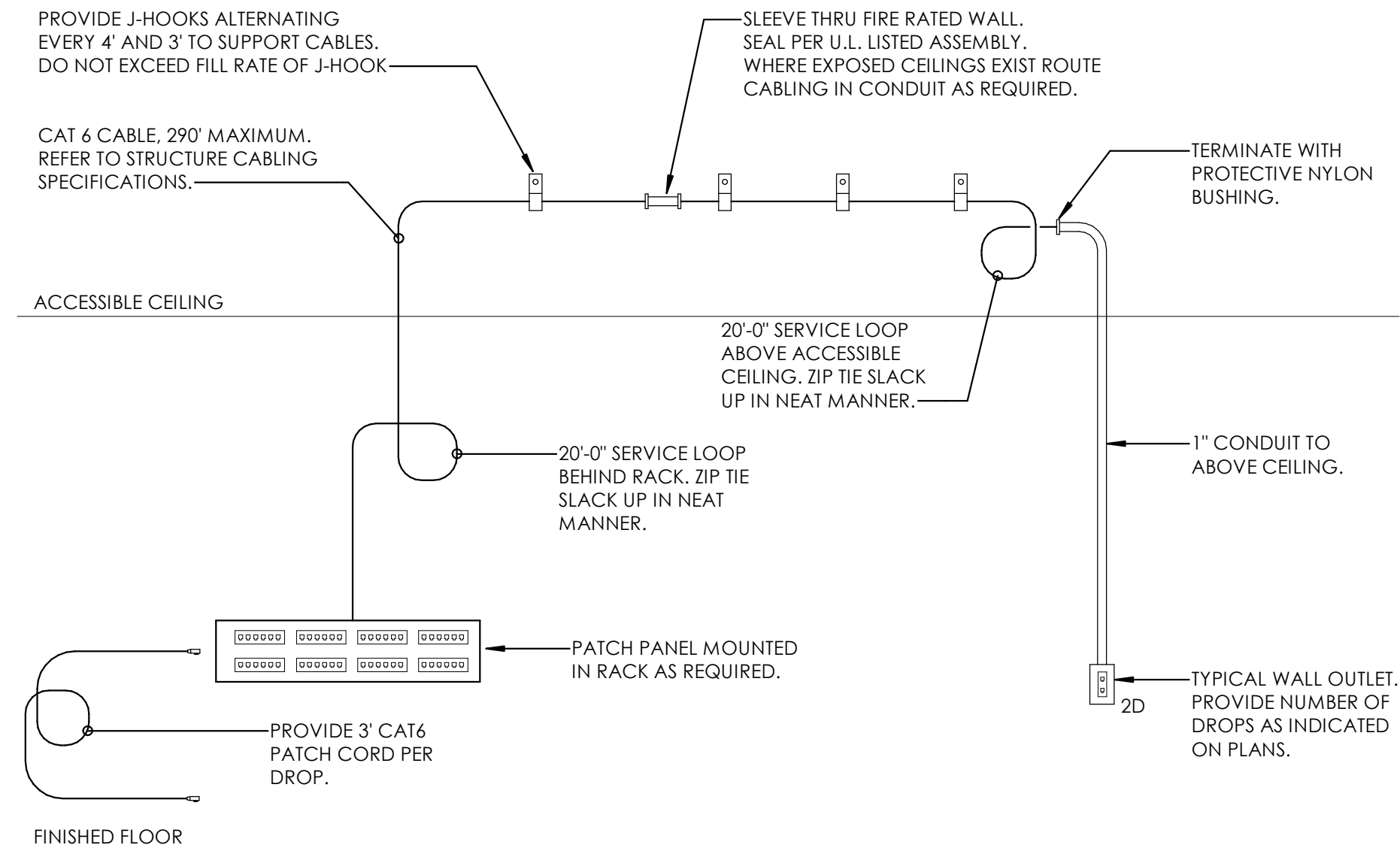


3 STRUCTURED CABLING BACKBONE TYPICAL WIRING DIAGRAM

NOT TO SCALE
NOTE: A MINIMUM OF A 12 STRANDED SINGLE MODE FIBER SHALL BE PROVIDED TO EVERY DATA AND AV RACK, TERMINATED AND CERTIFIED.

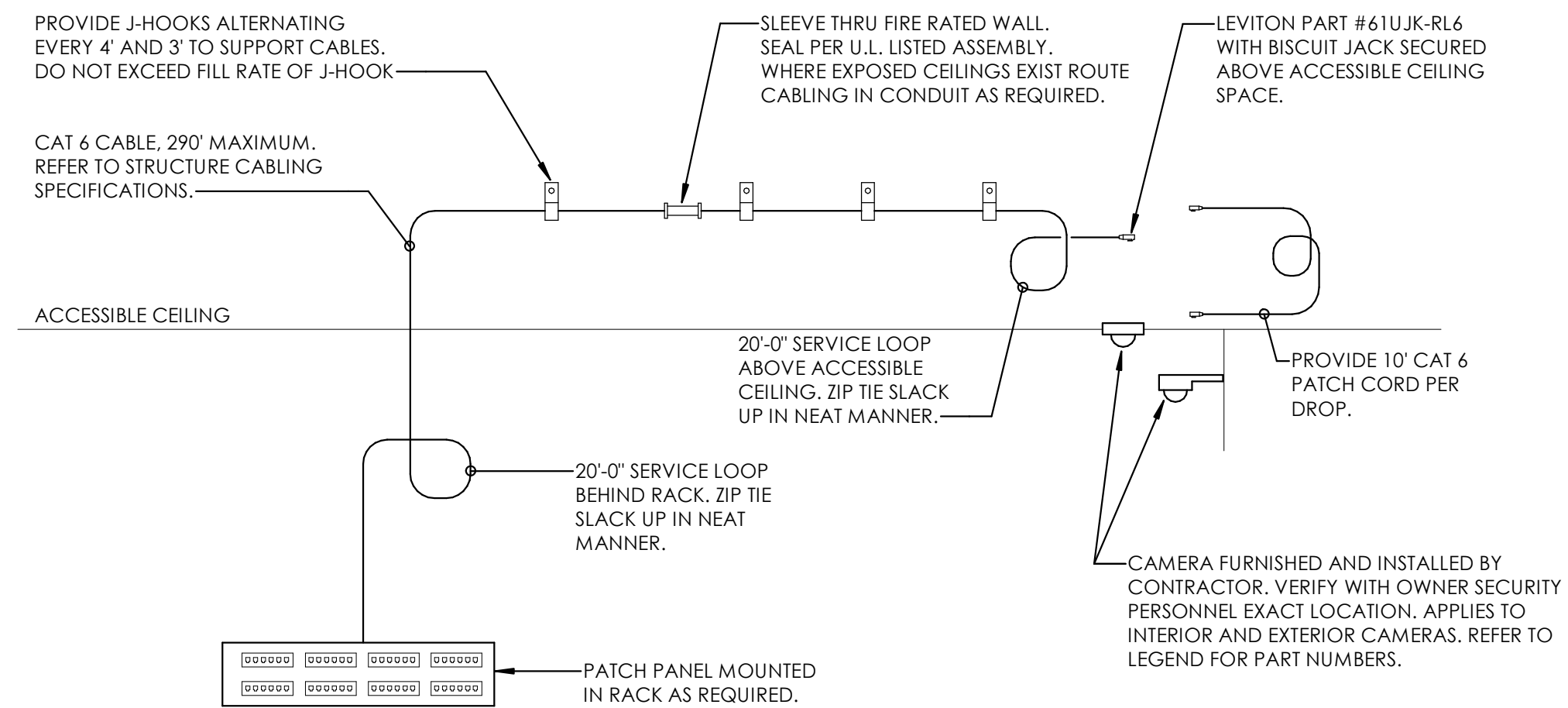
AUXILIARY RISER DIAGRAM NOTES:

1. PROVIDE TELECOMMUNICATIONS BONDING PER TIA-607-D.
2. TELE/DATA BACKBOARD 8' H. x 3/4" D. LENGTH AS SHOWN ON FLOOR PLAN. MOUNT BOTTOM 6" A.F.F.
3. TWO(2) 4" CONDUITS ROUTED AS SHOWN.
4. TWO(2) 1" CONDUITS ROUTED AS SHOWN.
5. TWO(2) 4" CONDUITS STUB OUT 5'-0" PAST BUILDING FOOTPRINT AND CAP.
6. ALL UNDERGROUND CONDUITS SHALL HAVE SWEEPING 90'S.
7. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED PER TIA-569-E.
8. AUXILIARY RISER SHOWS WHERE A TYPICAL OUTLET IS LOCATED IN A CERTAIN BUILDING AND/OR FLOOR AND SHOWS WHAT TYPICAL DATA CLOSET IS SHOULD TERMINATE IN.
9. PROVIDE TELECOMMUNICATIONS LABELING PER TIA-606-C.
10. TWO(2) CONDUITS, ONE(1) CONDUIT WITH FIBER ONE 'SPARE', CONDUIT ROUTE CONTINUED FROM BACKBOARD TO EXISTING BUILDINGS IT ROOM.



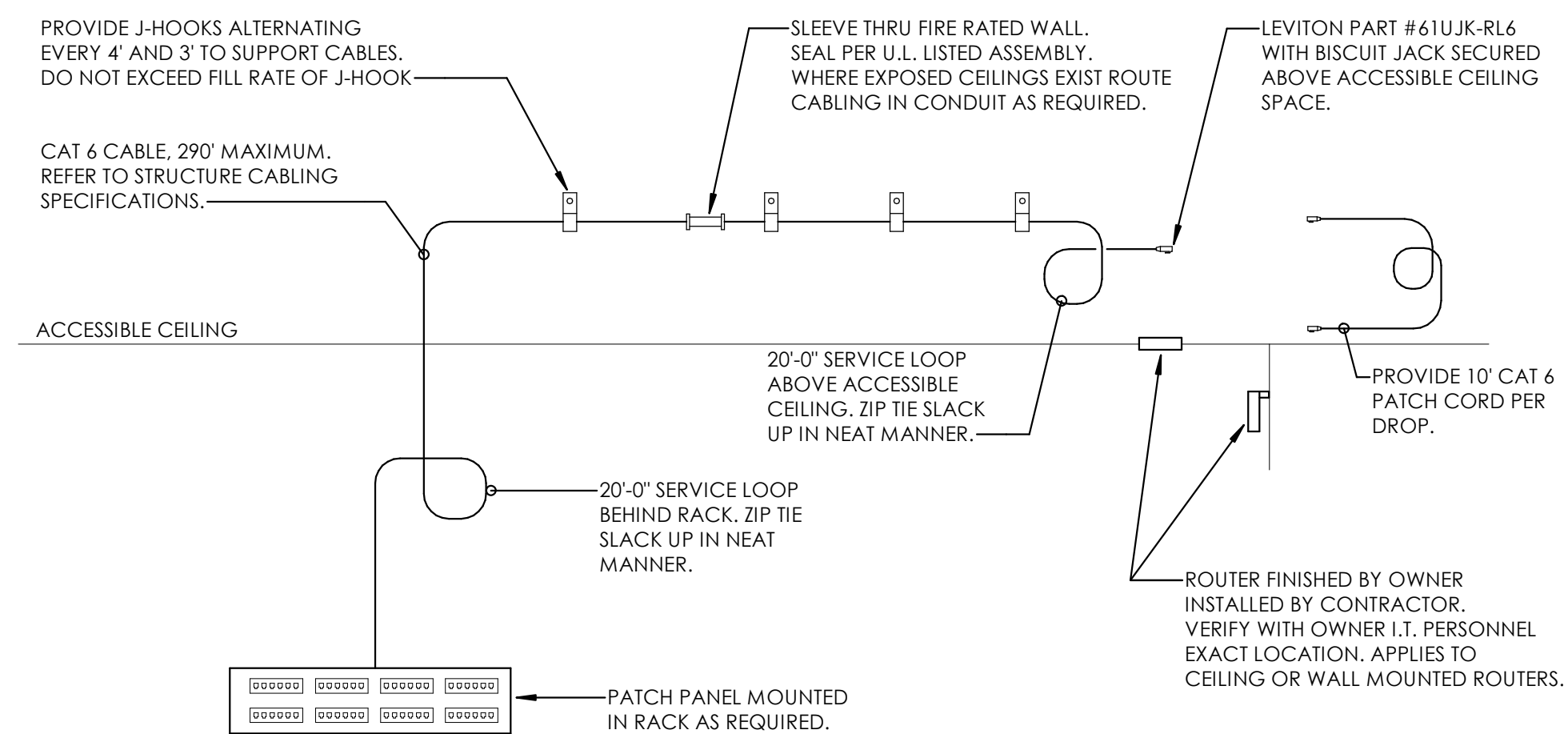
4 TYPICAL DATA DROP RISER DIAGRAM

NOT TO SCALE



5 TYPICAL CCTV CAMERA RISER

NOT TO SCALE



6 TYPICAL WIRELESS ACCESS POINT RISER

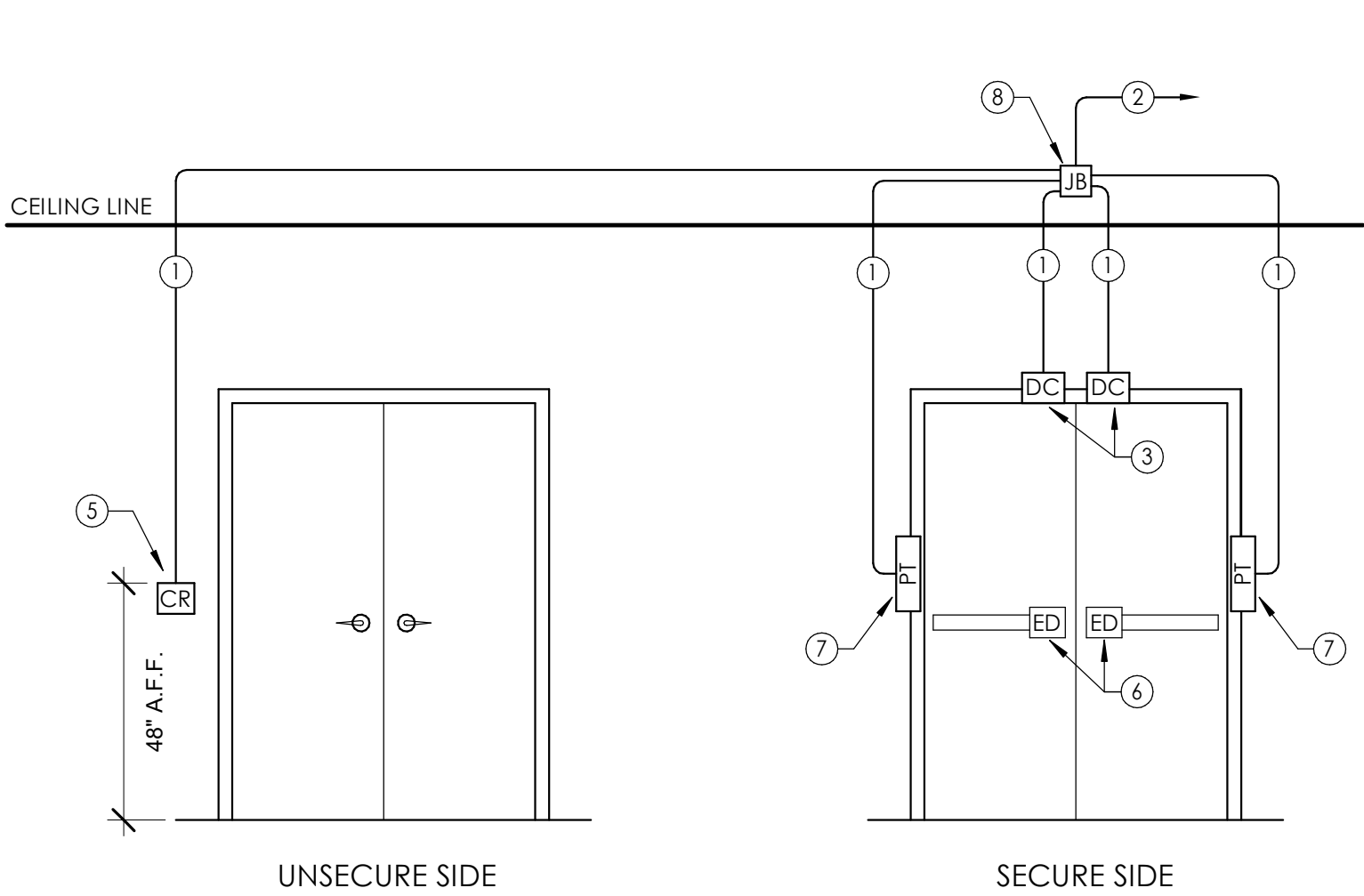
NOT TO SCALE

SHEET MUST BE PRINTED IN COLOR.

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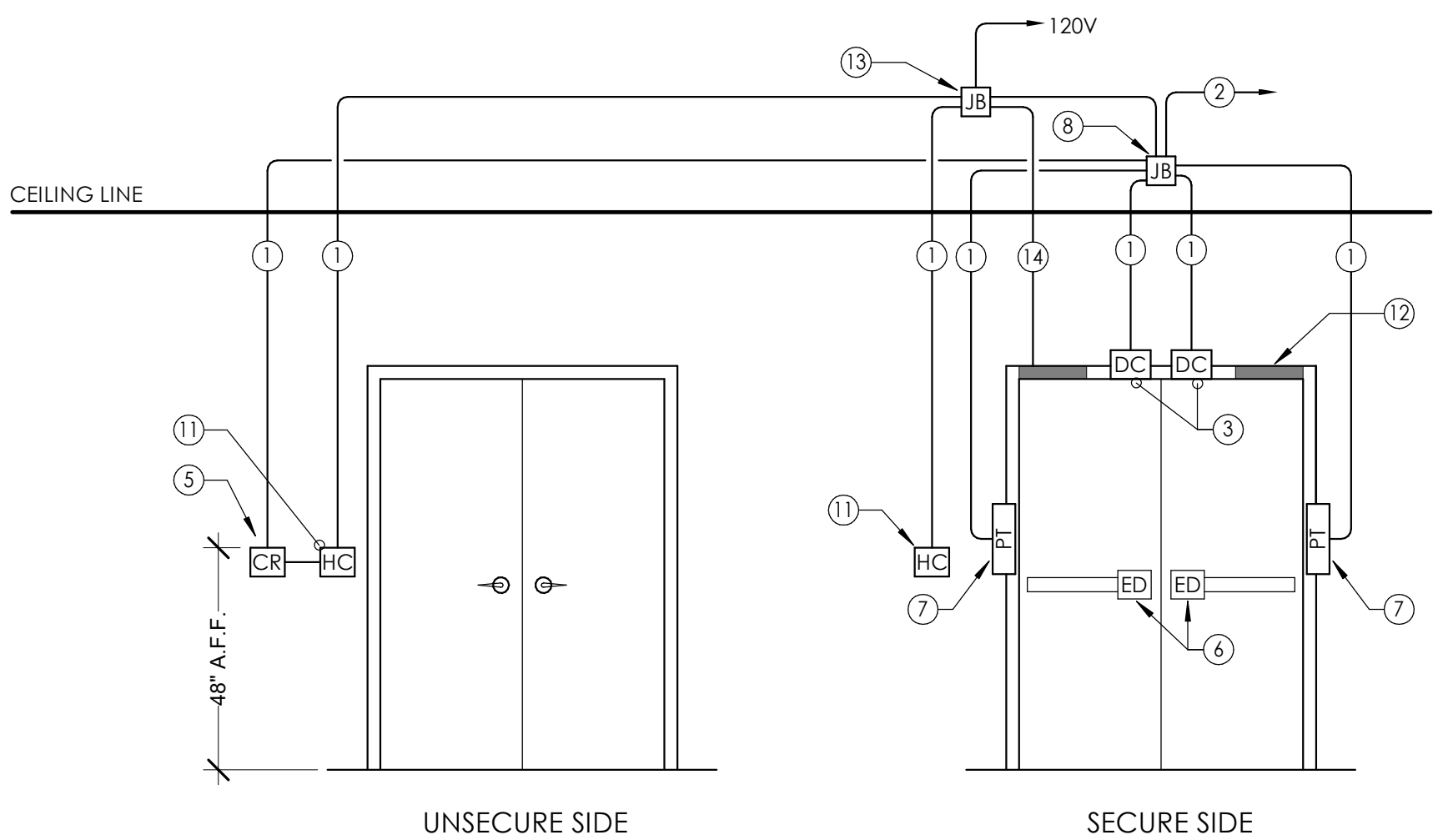
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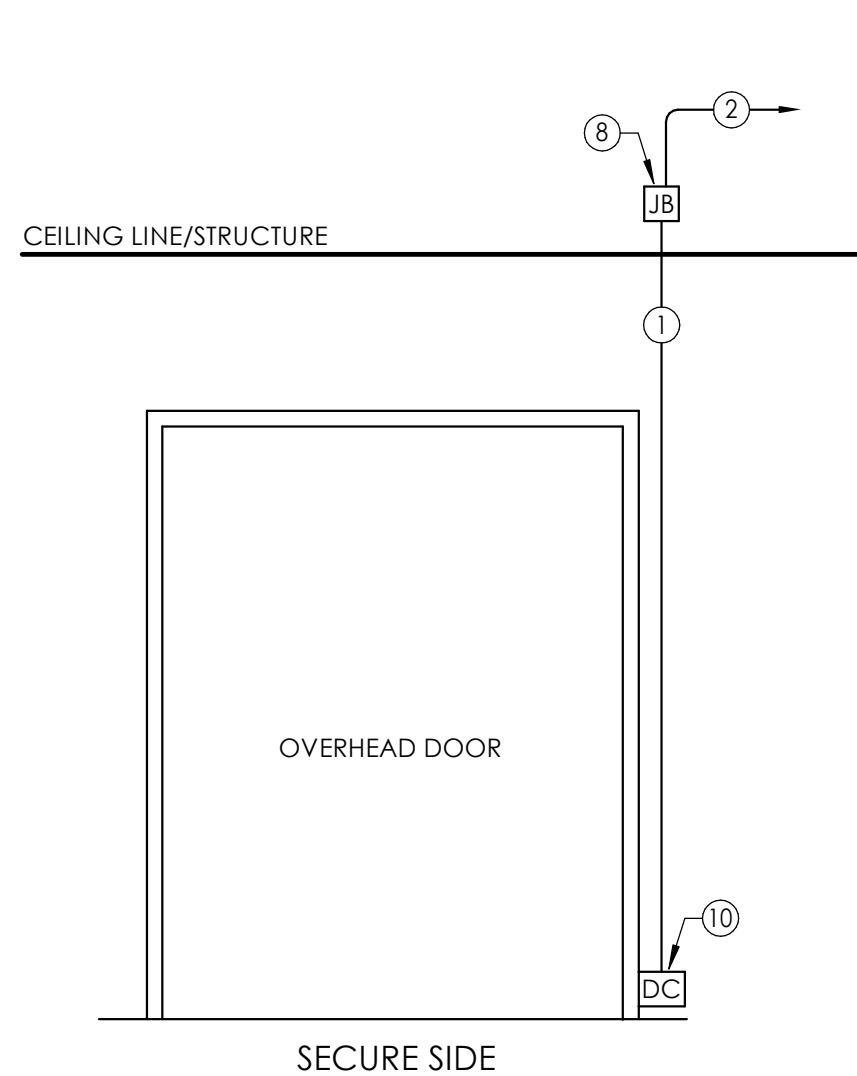
1 TYPICAL DOOR TYPE - DDCR

- NOT TO SCALE
NOTES:
1. SECURITY/ACCESS. DOOR TYPE "DDCR" (DOUBLE DOOR W/CARD READER). PROVIDE TWO (2) DOOR CONTACTS AND ONE (1) CARD READER. MOUNT SINGLE GANG ELECTRICAL BOX FOR CARD READER AT 48-INCHES A.F.F. FRAME TO BE PREPPED FOR DOOR CONTACTS BY DOOR SUPPLIER OR OTHERS.
 2. DOOR FRAME SHALL BE ORDERED PREPPED FOR 3/4" DOOR CONTACTOR.
 3. PROVIDE DUST BOX 6" FROM NON HINGED SIDE OF DOOR.
 4. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.



2 TYPICAL DOOR TYPE - DDCR-ADA

- NOT TO SCALE
NOTES:
1. SECURITY/ACCESS. DOOR TYPE "DDCR" (DOUBLE DOOR W/CARD READER). PROVIDE TWO (2) DOOR CONTACTS AND ONE (1) CARD READER. MOUNT SINGLE GANG ELECTRICAL BOX FOR CARD READER AT 48-INCHES A.F.F. FRAME TO BE PREPPED FOR DOOR CONTACTS BY DOOR SUPPLIER OR OTHERS.
 2. DOOR FRAME SHALL BE ORDERED PREPPED FOR 3/4" DOOR CONTACTOR.
 3. PROVIDE DUST BOX 6" FROM NON HINGED SIDE OF DOOR.
 4. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.



3 TYPICAL OVERHEAD DOOR - DC

- NOT TO SCALE
NOTES:
1. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.

DOOR/SECURITY/ACCESS HARDWARE KEY: ④

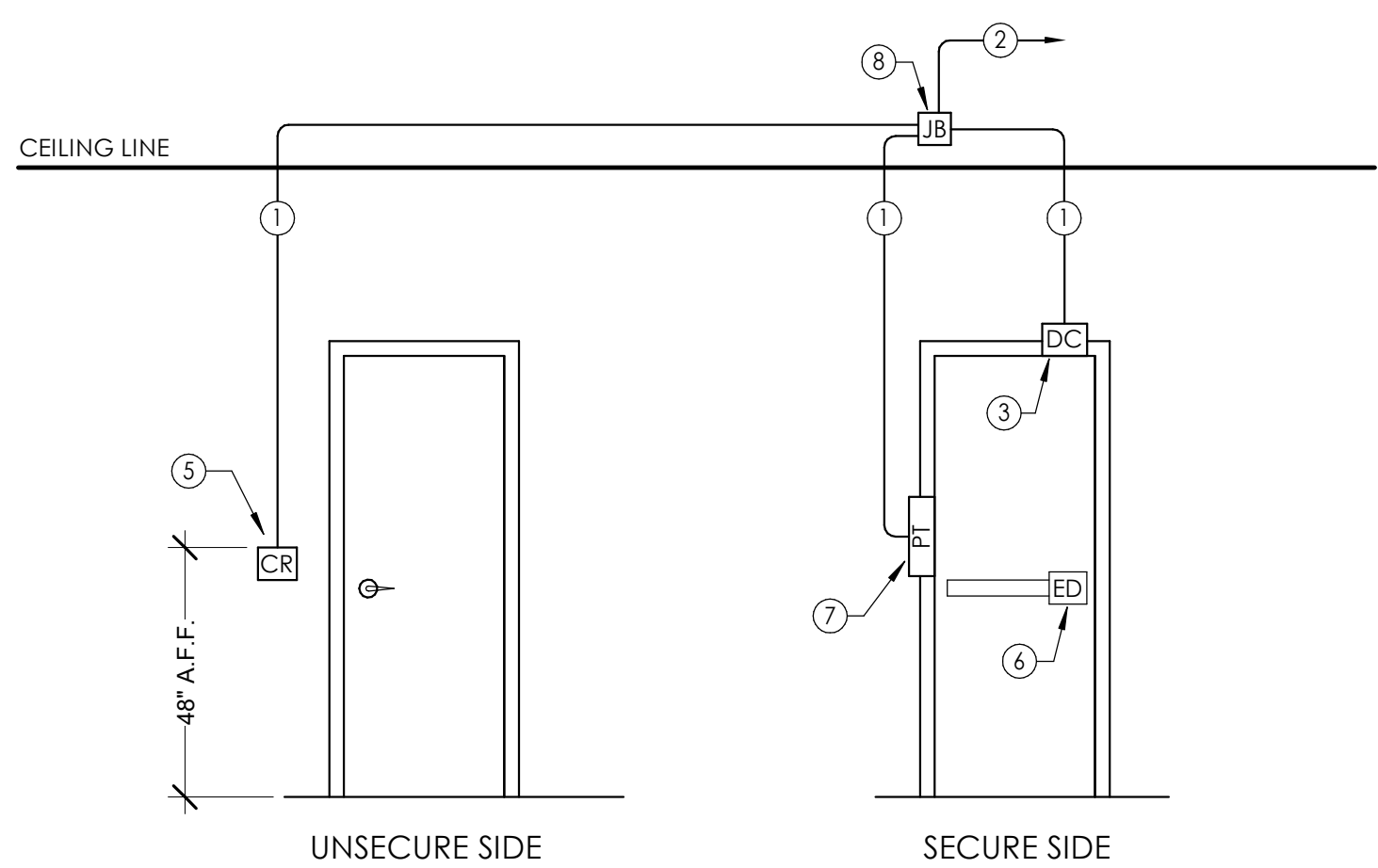
1. 3/4" CONDUIT TO JUNCTION BOX.
2. 3/4" CONDUIT STUBBED TO ABOVE NEAREST ACCESSIBLE CEILING.
3. RECESSED DOOR POSITION SWITCH. FRAME TO BE PREPPED FOR DOOR POSITION SWITCH BY DOOR SUPPLIER OR OTHERS.
4. ELECTRIC MORTISE LOCKSET WITH INTEGRAL REQUEST - TO - EXIT SWITCH. (BY OTHERS)
5. CARD READER MOUNTED 48" A.F.F. ON SINGLE GANG BOX.
6. EXIT DEVICE WITH LATCH RETRACTION AND INTEGRAL REQUEST - TO - EXIT SWITCH. (BY OTHERS)
7. POWER TRANSFER HINGE. (BY OTHERS)
8. 4 SQUARE JUNCTION BOX MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
9. INTERCOM DOOR BELL/SPEAKER. DOOR VIDEO INTERCOM STATION.
10. OVERHEAD DOOR POSITION SWITCH.
11. HANDICAP PUSH BUTTON. MOUNTED 48" A.F.F., VERTICAL ON SINGLE GANG BOX.
12. HANDICAP DOOR OPENER.
13. HANDICAP (ADA) DOOR POWER SUPPLY.
14. 3/4" CONDUIT TO DOOR OPEN AS REQUIRED.

GENERAL ACCESS CONTROL SYSTEM NOTES:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUITS, JUNCTION BOXES, PULL WIRES, ETC. ALL DEVICES AND HARDWARE ARE FURNISHED BY CONTRACTORS OTHER THAN ELECTRICAL.
2. INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND U.L.
3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, ETC., SHALL BE GROUNDED. SYSTEM SHALL BE BONDED TO THE FACILITY GROUND ELECTRODE SYSTEM AS NOTED.
4. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH N.E.C. WITH A MINIMUM SIZE OF 3/4". STENCIL IN 2" HIGH LETTERS ON EVERY JUNCTION BOX COVER ABOVE CEILING THE LETTERS "ACS". SEE ELECTRICAL SPECIFICATIONS FOR COLOR SCHEME.
5. ACCESS CONTROL CONTRACTOR SHALL CERTIFY ACCESS CONTROL NETWORK UTILIZING PROJECT DATA SYSTEM RCDD AND PROVIDE LETTER OF CERTIFICATION TO ENGINEER/ARCHITECT. ANY ASSOCIATED COSTS SHALL BE THE RESPONSIBILITY OF THE ACCESS CONTROL CONTRACTOR.
6. A "CERTIFICATE OF COMPLETION" FROM THE MANUFACTURER'S REPRESENTATIVE SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE ON MANUFACTURER'S LETTERHEAD.
7. PROVIDE ALL RACKS NEEDED FOR SECURITY ACCESS AND SECURITY SURVEILLANCE SYSTEMS.
8. ALL ELECTRONICS AND EQUIPMENT SHALL BE MOUNTED IN ACCESS CONTROL SYSTEM CONTRACTOR PROVIDED STEEL FLOOR MOUNTED RACKS. VENTILATION FANS SHALL BE PROVIDED IN RACKS AS NEEDED.
9. CARD READERS PROVIDED BY OTHERS. VERIFY LOCATIONS PRIOR TO INSTALLATION OF CONDUIT AND BOXES.
10. PROVIDE FIRE ALARM CONNECTIONS AS REQUIRED.

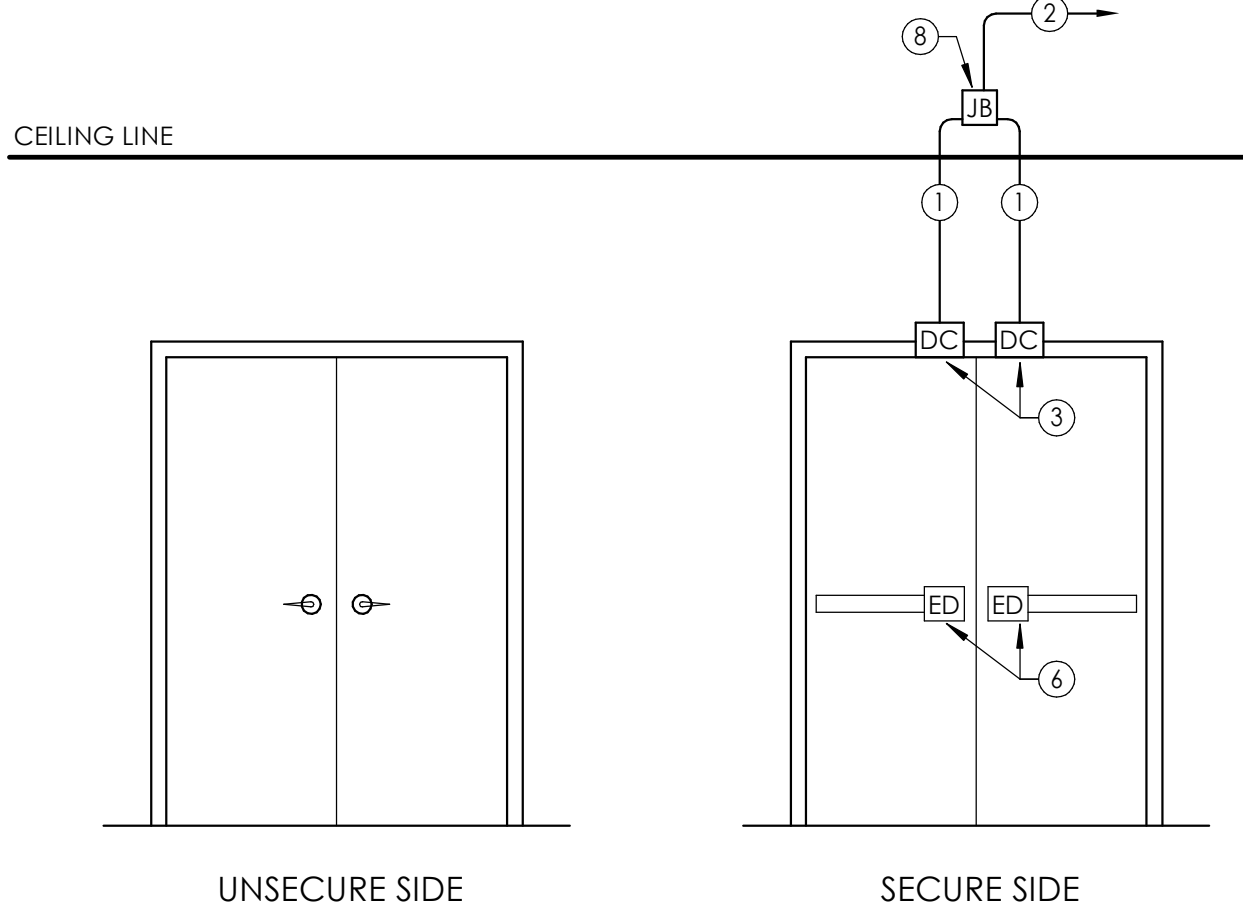
DOOR HARDWARE NOTES:

1. RACEWAYS, BACK BOXES AND JUNCTION BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING.
2. ELECTRIC LOCKING HARDWARE, MAGNETIC LOCKS, AND POWER TRANSFER HINGE PROVIDED UNDER DIVISION 8 SPECIFICATIONS. PROVIDE CABLING AND CONNECT TO ACCESS CONTROL SYSTEM.
3. COORDINATE EXACT HARDWARE REQUIREMENTS WITH THE DIVISION 8 HARDWARE SCHEDULE.
4. DOOR DETAILS ARE DIAGRAMMATIC AND SHALL NOT BE USED TO DETERMINE EQUIPMENT LOCATIONS. FLOOR PLANS INDICATE LOCATIONS OF EQUIPMENT AND COMPONENTS. COORDINATION WITH THE WORK OF OTHER TRADES SHALL BE MADE PRIOR TO INITIAL INSTALLATION.
5. PROVIDE PULL STRING IN EMPTY RACEWAY.
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUITS, JUNCTION BOXES, PULL WIRES, ETC. ALL DEVICES AND HARDWARE ARE FURNISHED BY CONTRACTORS OTHER THAN ELECTRICAL.
7. ALL ELECTRONIC AND SECURITY DEVICES ARE TO BE PROVIDED AND INSTALLED BY THE DOOR HARDWARE CONTRACTOR AND THE SECURITY CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUITS AND JUNCTION BOXES REQUIRED TO FACILITATE THE INSTALLATION OF THE SECURITY AND ALARM PACKAGE. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THESE CONTRACTORS TO INSURE THAT ALL SECURITY DEVICES ARE LOCATED AND CORRECTLY PRIOR TO INSTALLATION OF RACEWAYS, JUNCTION BOXES AND POWER.



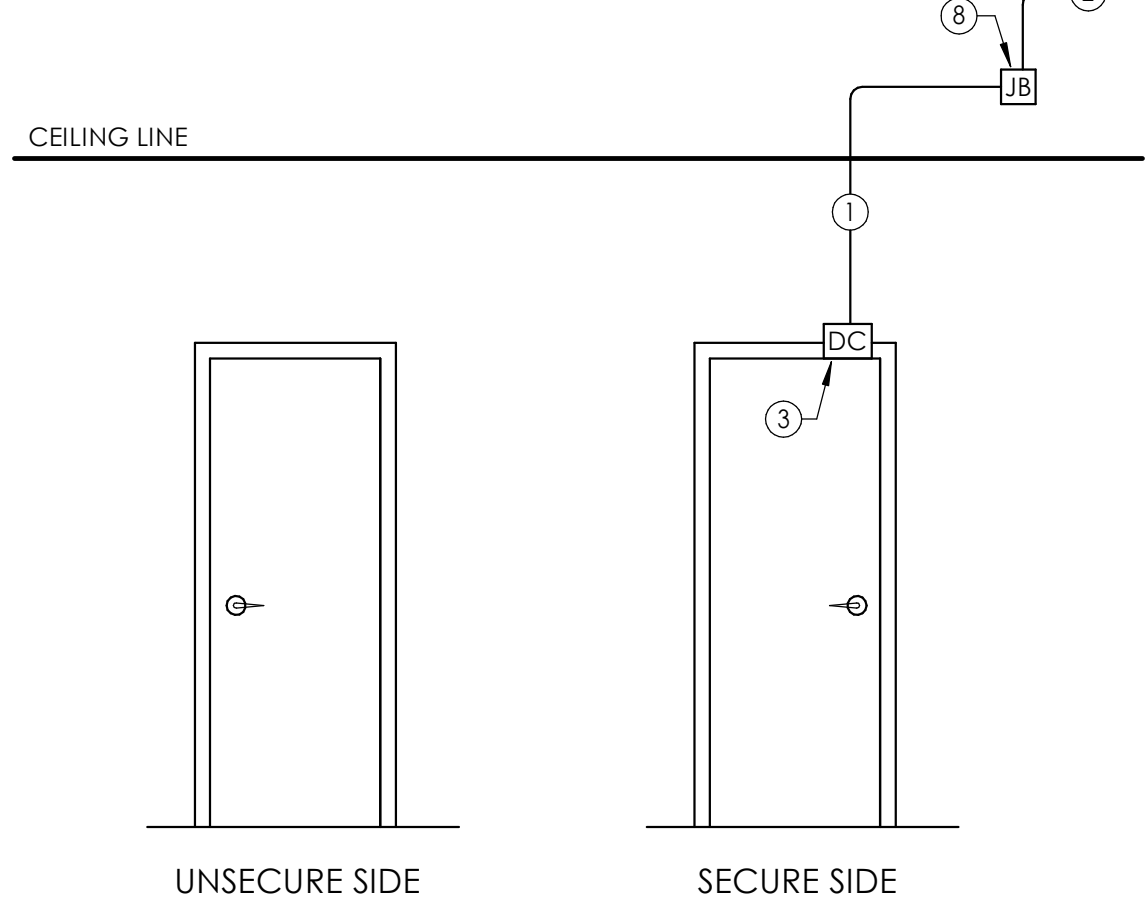
4 TYPICAL DOOR TYPE - SDCR

- NOT TO SCALE
NOTES:
1. SECURITY/ACCESS. DOOR TYPE "SDCR" (SINGLE DOOR W/CARD READER). PROVIDE ONE (1) DOOR CONTACT AND ONE (1) CARD READER. MOUNT SINGLE GANG ELECTRICAL BOX FOR CARD READER AT 48-INCHES A.F.F. FRAME TO BE PREPPED FOR DOOR CONTACTS BY DOOR SUPPLIER OR OTHERS.
 2. DOOR FRAME SHALL BE ORDERED PREPPED FOR 3/4" DOOR CONTACTOR.
 3. PROVIDE DUST BOX 6" FROM NON HINGED SIDE OF DOOR.
 4. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.



5 TYPICAL DOOR TYPE - DDDC

- NOT TO SCALE
NOTES:
1. SECURITY/ACCESS. DOOR TYPE "DDDC" (DOUBLE DOOR W/DOOR CONTACTS ONLY). PROVIDE TWO (2) DOOR CONTACTS. FRAME TO BE PREPPED FOR DOOR CONTACTS BY DOOR SUPPLIER OR OTHERS.
 2. DOOR FRAME SHALL BE ORDERED PREPPED FOR 3/4" DOOR CONTACTOR.
 3. PROVIDE DUST BOX 6" FROM NON HINGED SIDE OF DOOR.
 4. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.



6 TYPICAL DOOR TYPE - SDDC

- NOT TO SCALE
NOTES:
1. SECURITY/ACCESS. DOOR TYPE "SDDC" (SINGLE DOOR W/DOOR CONTACTS ONLY). PROVIDE ONE (1) DOOR CONTACT. FRAME TO BE PREPPED FOR DOOR CONTACTS BY DOOR SUPPLIER OR OTHERS.
 2. DOOR FRAME SHALL BE ORDERED PREPPED FOR 3/4" DOOR CONTACTOR.
 3. PROVIDE DUST BOX 6" FROM NON HINGED SIDE OF DOOR.
 4. ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION MAY VARY FROM DIAGRAM SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL ELECTRIFIED DOOR HARDWARE AND DOOR CONFIGURATION.

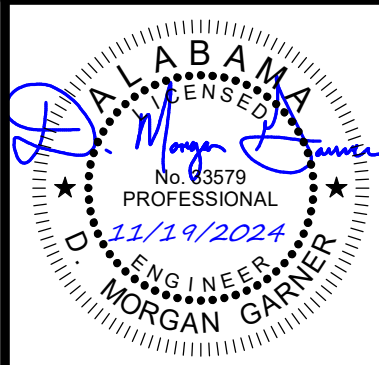
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FINAL
RE-SUBMITTAL

DATE: 11/19/24
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REVISIONS		
#	DESC	DATE
1	ADD #1	8/28/26

ACCESS CONTROL
DETAILS & NOTES

2-E008

SITE LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP	MOUNTING	WATTAGE	CCT	LUMENS	DESCRIPTION
LPA	EXO	ASL2-320L-255-4K7-4W-UNV-A5-TBD-NXW-XX	LED	POLE MOUNTED	255 W	4000 K	13600 lm	SINGLE LED FIXTURE WITH WIRELESS PROGRAMMING AND TYPE 4W DISTRIBUTION MOUNTED ON 6" ROUND, 30" STEEL POLE. COLOR TO BE SPECIFIED BY ARCHITECT. PROVIDE FOOTCANDLE CALCULATION AT TIME OF SUBMITAL.
LPB	EXO	ASL2-320L-255-4K7-4W-UNV-A5-TBD-NXW-XX	LED	POLE MOUNTED	510 W	4000 K	27220 lm	DOUBLE 180° LED FIXTURE WITH WIRELESS PROGRAMMING AND TYPE 4W DISTRIBUTION MOUNTED ON 6" ROUND, 30" STEEL POLE. COLOR TO BE SPECIFIED BY ARCHITECT. PROVIDE FOOTCANDLE CALCULATION AT TIME OF SUBMITAL.

LEGEND:

- | | |
|---|--|
|  | UNDERGROUND PRIMARY |
|  | UNDERGROUND SECONDARY - SERVICE ENTRANCE |
|  | UNDERGROUND POWER |
|  | UNDERGROUND COMMUNICATIONS FIBER |
|  | SITE LIGHTING - POLE MOUNTED (BY OTHERS) |
|  | ELECTRICAL TRANSFORMER |
|  | SERVICE ENTRANCE ELECTRICAL EQUIPMENT |
|  | PRIMARY POWER PULL BOX - 3x5x2D IN-GRADE
QUAZITE BOX WITH TIE 15 RATING |
|  | FIBER PULL BOX - 3x5x5D IN-GRADE QUAZITE BOX WITH
TIE 15 RATING. |
|  | LIGHTING POWER PULL BOX - 18"x21"x18"D IN-GRADE
QUAZITE BOX WITH TIE 15 RATING. |

SITE ELECTRICAL PLAN NOTES:

1. ALL PVC CONDUIT SHALL BE SCHEDULE 40 WITH LONG RADIUS SWEEPS AND BENDS.
2. UNDERGROUND CONDUIT SHALL TURN UP AT THE BASE OF EACH RISER POLE TO BE CONTINUED BY UTILITY COMPANY.
3. UNDERGROUND CONDUIT SHALL HAVE PULL STRINGS INSTALLED AND READILY ACCESSIBLE ON EACH END OF THE UNDERGROUND CONDUIT. PULL STRINGS SHALL BE EQUAL TO 1250W MULE TAPE.
4. ENSURE A MINIMUM SEPARATION OF 12" BETWEEN UNDERGROUND POLE AND UNDERGROUND COMMUNICATIONS UTILITIES.
5. UNDERGROUND COMMUNICATIONS UTILITIES SHALL NOT BE BURIED DIRECTLY ABOVE UNDERGROUND POWER.
6. COORDINATION INSTALLATION OF NEW UTILITIES WITH EXISTING UTILITIES AND ANY OTHER UTILITIES NOT SHOWN. ALL EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY.
6. ALL INSTALLATION INSTRUCTIONS REQUIRE MATERIAL PROVISIONS BY CONTRACTOR UNLESS NOTED OTHERWISE.
7. VOLTAGE DROP FOR FEEDER CONDUITS ARE CALCULATED WITH CONSIDERATION IN ROUTING AROUND FIELDS. IF BORING STRAIGHT FROM POLE TO PANEL, THE CONTRACTOR WILL BE RESPONSIBLE FOR CALCULATING VOLTAGE DROP, AVOIDING ALL OTHER UTILITIES, AND MUST ADJUST ACCORDINGLY.
8. ALL IN-GRADE PRIMARY PULL BOXES SHALL BE FURNISHED BY ALABAMA POWER AND CONTRACTOR INSTALLED.
9. SITE LIGHTING POLES, LIGHTS AND BASES FURNISHED AND INSTALLED BY ALABAMA POWER COMPANY. ALL CIRCUITRY AND JUNCTION BOXES LOCATED NEAR EACH LIGHT POLE BY ELECTRICAL CONTRACTOR.

UTILITY COMPANY CONTACT:
ROGER PIKE
MARSHALL DEKALB EC
256-593-4262

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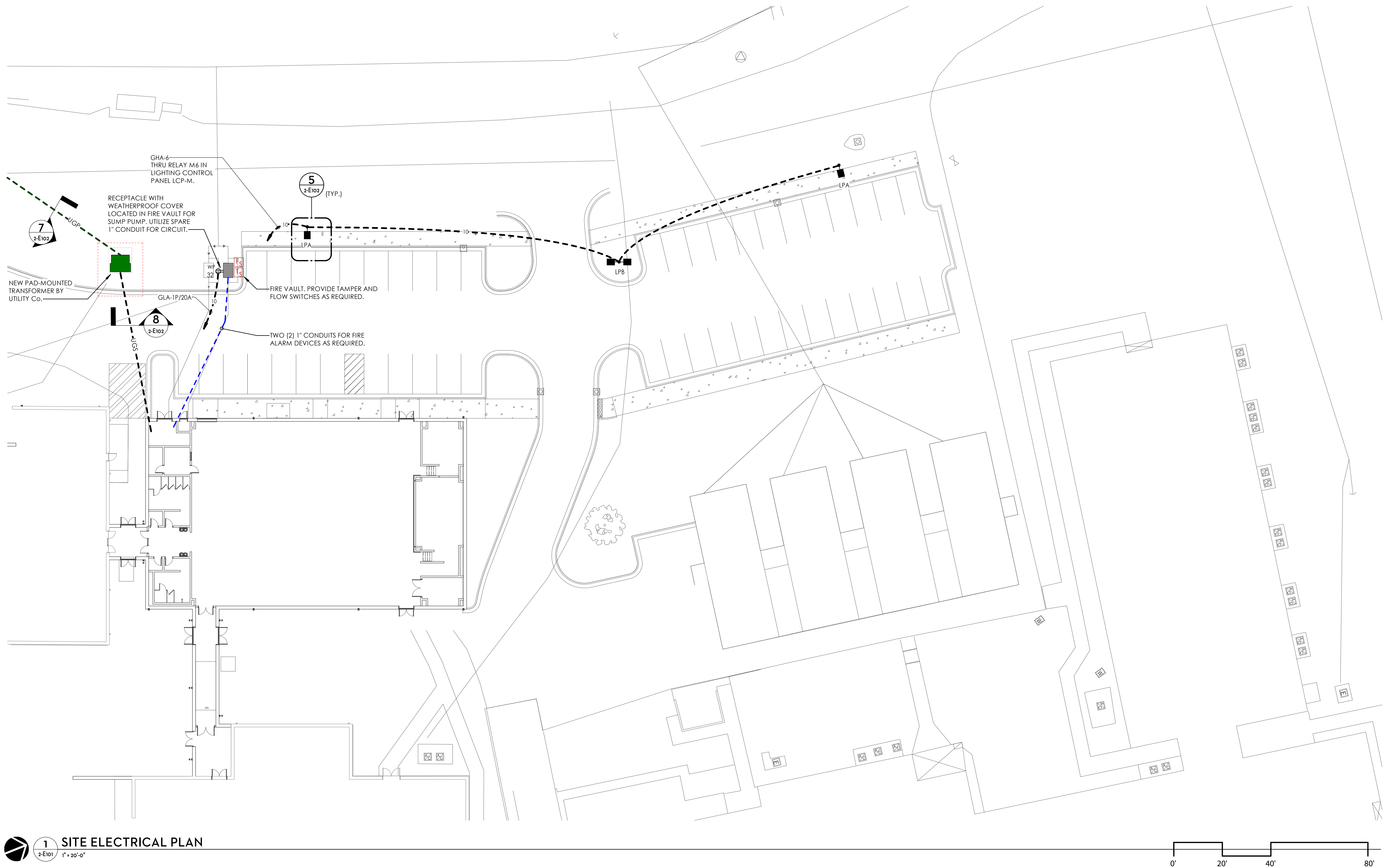
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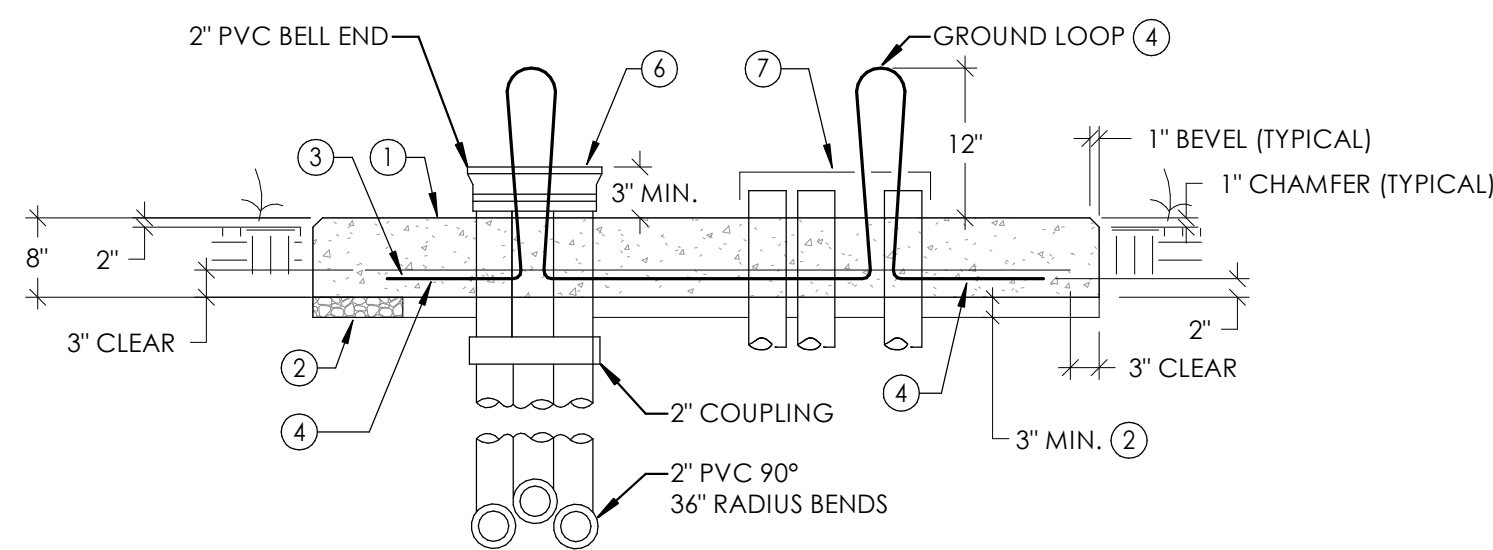
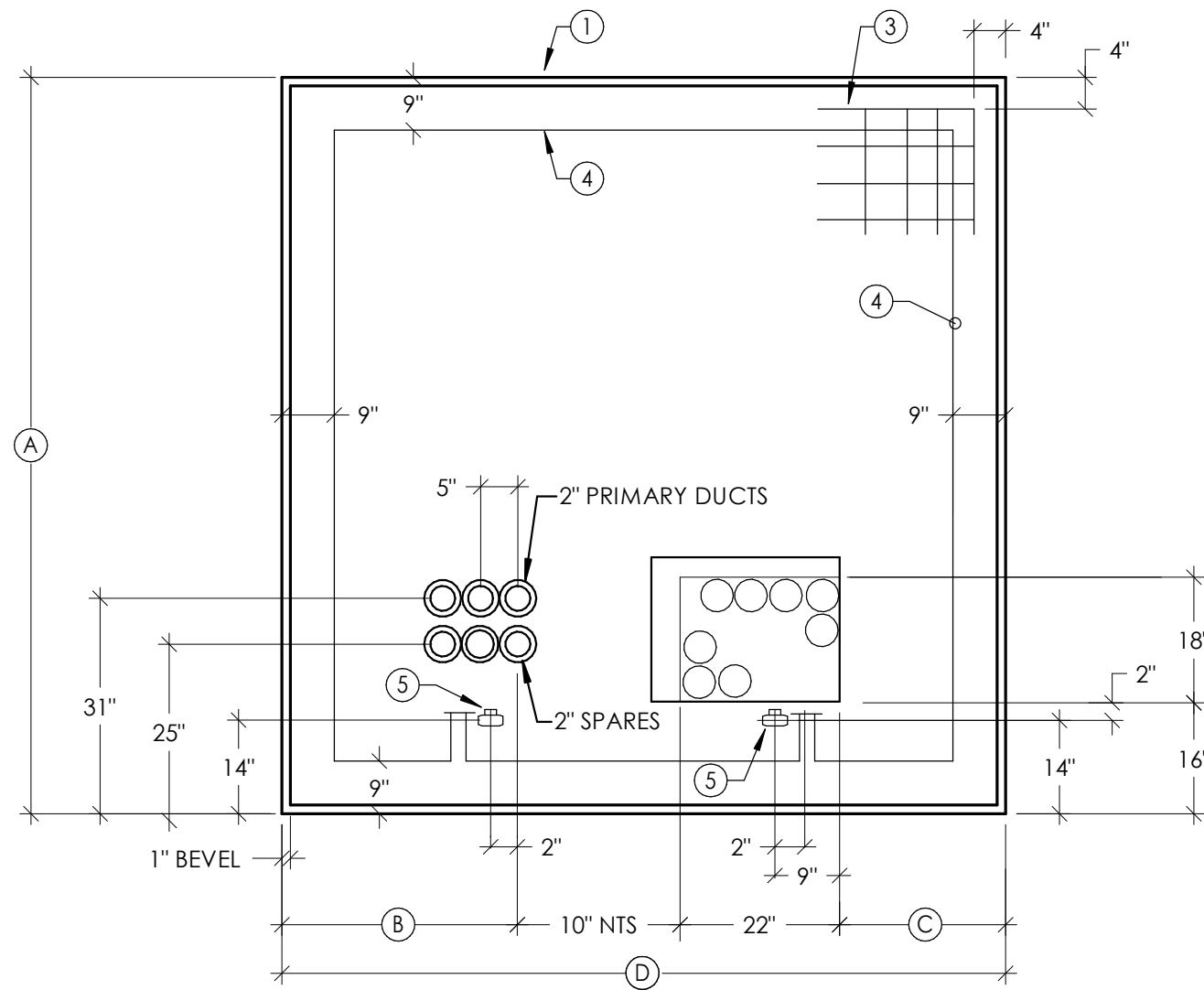
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SITE ELECTRICAL PLAN

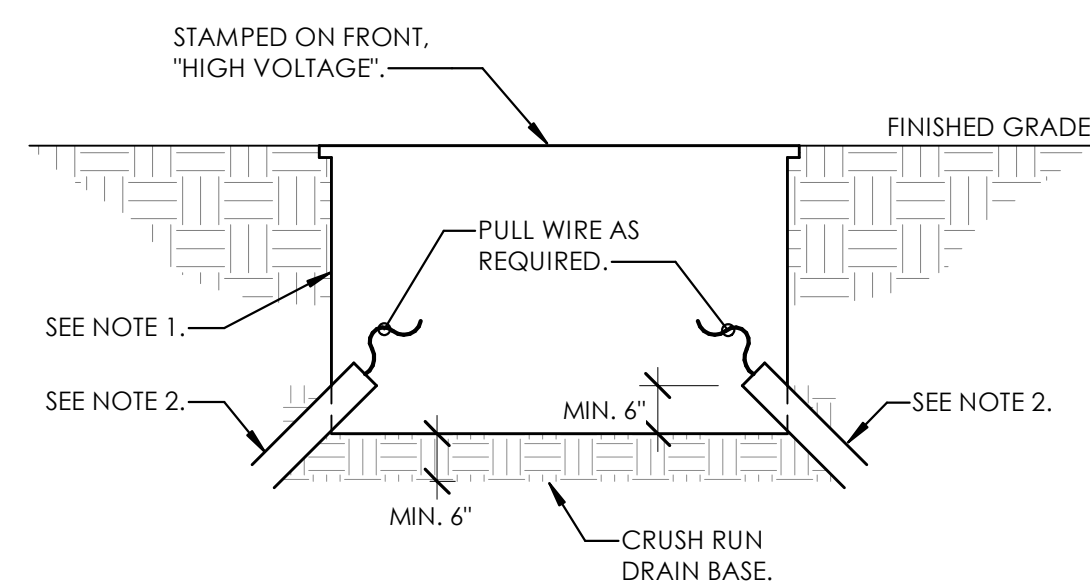
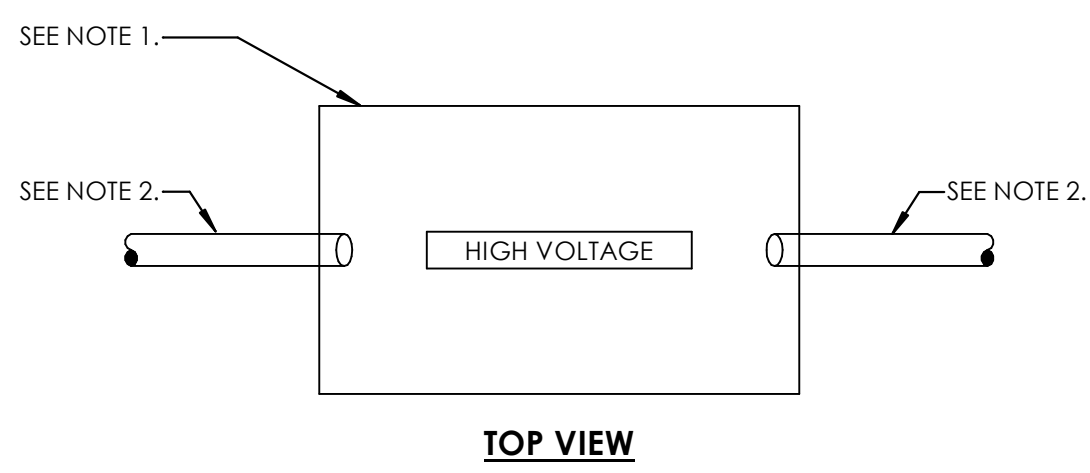
2-E101



DIMENSIONS				
208 OR 480 VOLT	A	B	C	D
75-500 KVA	90"	24"	16"	72"
750-2000 KVA	144"	36"	28"	96"



1 TYPICAL TRANSFORMER PAD INSTALLATION DETAIL
NOT TO SCALE



2 TYPICAL PB - PRIMARY PULL BOX DETAIL
NOT TO SCALE

NOTES:

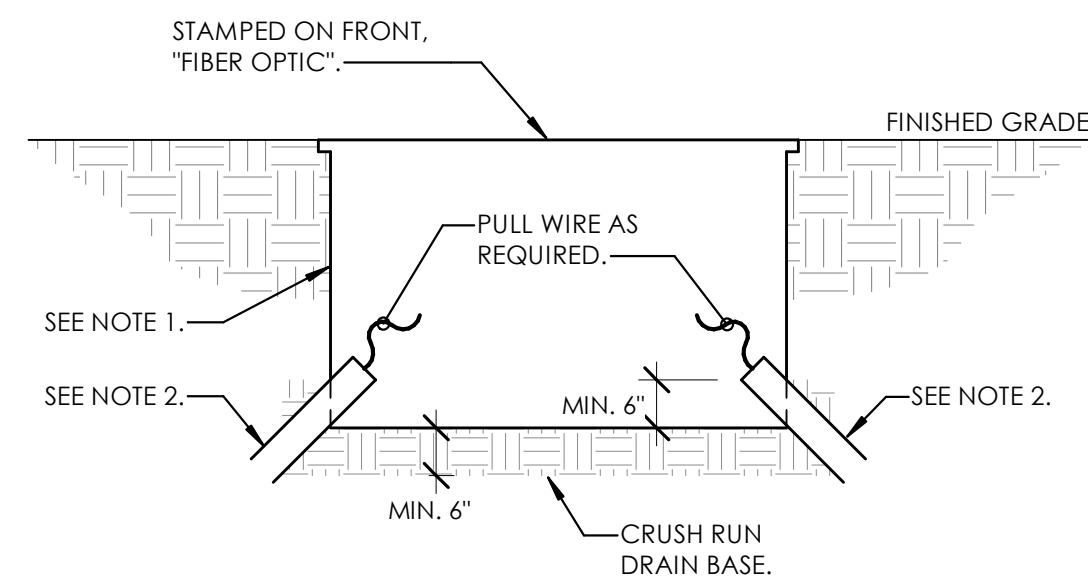
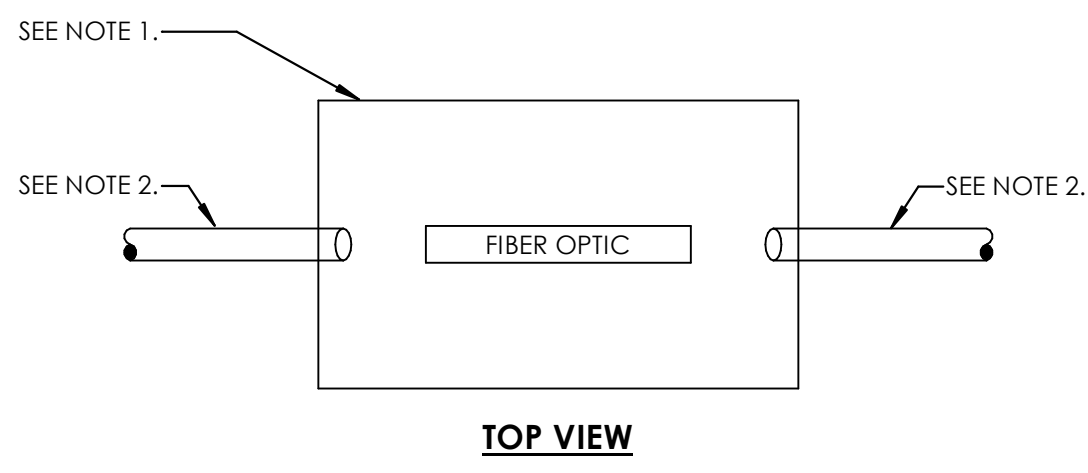
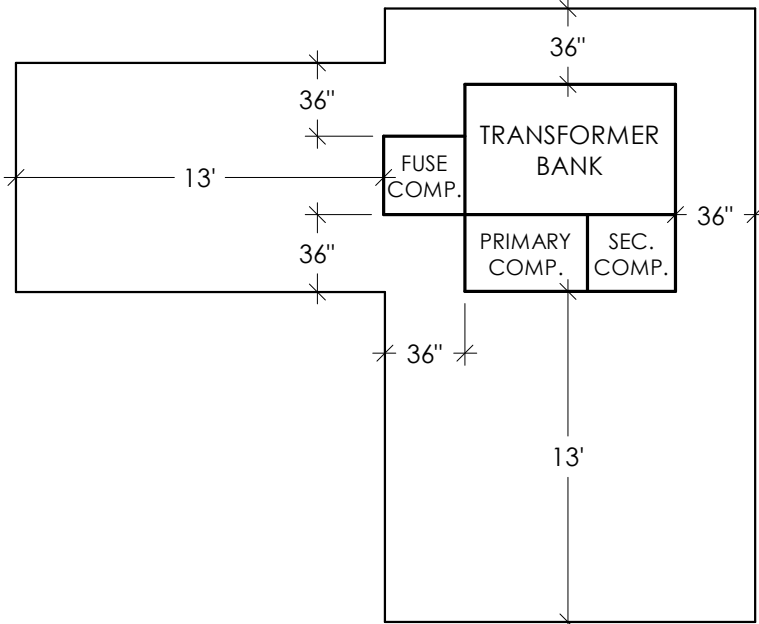
- 3' x 5' x 3' QUARTZITE POLYMER CONCRETE, TIER 15 RATED, IN-GRADE PULL BOX WITH CRUSH RUN DRAIN BASE.
- TYPICAL CONDUIT, 45 DEGREES UP TOWARDS THE ENDS AND 6" ABOVE GRAVEL BASE.

KEYED NOTES:

- CONCRETE PAD, CONCRETE TO DEVELOP 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS. OMIT 1" BEVEL ON ALL EDGES FLUSH WITH OTHER CONCRETE WORK. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- COMPACTED GRAVEL FILL, PAD SHOULD BE POURED AGAINST A 3" MINIMUM COMPACTED GRAVEL FILL THAT IS PLACED ON WELL COMPACTED EARTH. SEE ARCHITECTURAL PAD DETAILS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- #4 REBAR (GRADE 60) EQUALLY SPACE 6" EACH WAY.
- #2/0 STRANDED BARE COPPER, CONTINUOUS GROUND BUS, TWO 3/4" INCH x 10' FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- 3/4" (19.05mm) x 10'-0" (3.08m) GROUND ROD, TWO 3/4" INCH x 10' FOOT GALVANIZED GROUND RODS AND #2/0 COPPER GROUND BUS WIRE TO BE FURNISHED AND INSTALLED BY CONTRACTOR.
- PRIMARY DUCTS - 2" PVC.
- SECONDARY DUCTS, PROVIDE GROUNDING BUSHINGS ON EACH AND A CONTINUOUS GROUND BONDING CONDUCTOR.

GENERAL NOTES:

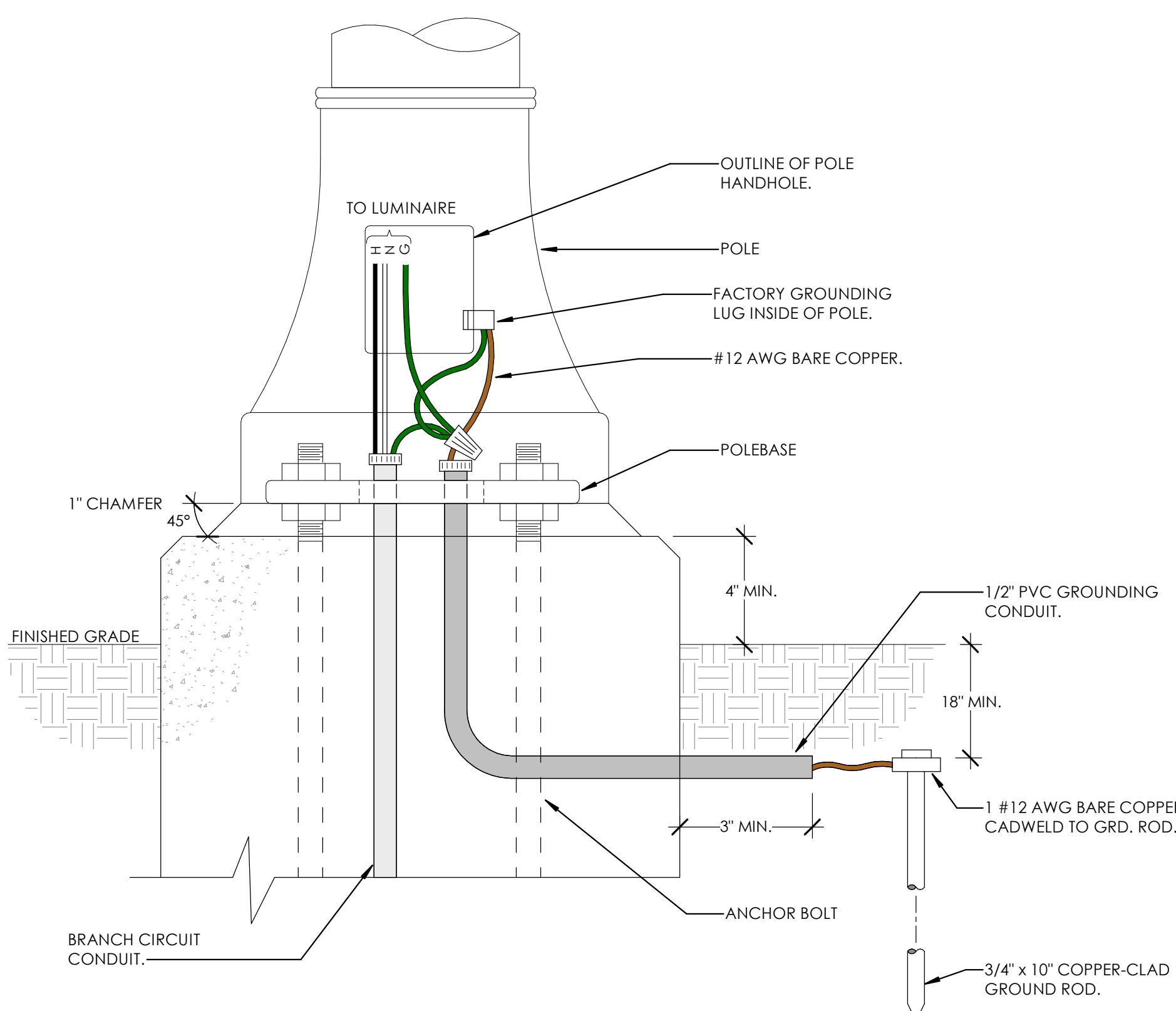
- THIS DETAIL IS TYPICAL ONLY. COORDINATE ACTUAL DIMENSIONS & REQUIREMENTS WITH THE UTILITY & ACTUAL TRANSFORMER TO BE FURNISHED.
- SECONDARY AND METERING DUCT ENTRANCES MUST BE KEPT WITHIN THE BOUNDARY LINES SHOWN. NUMBER AND LOCATION OF SECONDARY DUCTS TO BE DETERMINED BY LOCAL UTILITY COMPANY'S REPRESENTATIVE BEFORE PAD IS POURED. LOCAL UTILITY COMPANY WILL DETERMINE CONDUIT SPACING.
- FOR CLEARANCE TO OTHER STRUCTURES SEE MINIMUM CLEARANCE REQUIREMENTS. THERE SHALL BE NO ABOVE GROUND OBSTRUCTIONS SUCH AS FENCES, SHRUBS, PLANTS, GAS METERS, AIR CONDITIONERS, ETC., WITHIN 10 FEET OF THE FRONT OF THE TRANSFORMER OR WITHIN 3 FEET OF THE SIDES OR BACK.
- CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY'S ENGINEERING DEPARTMENT FOR FURTHER REQUIREMENTS AND SPECIFICATIONS PRIOR TO CONSTRUCTION OF PAD.



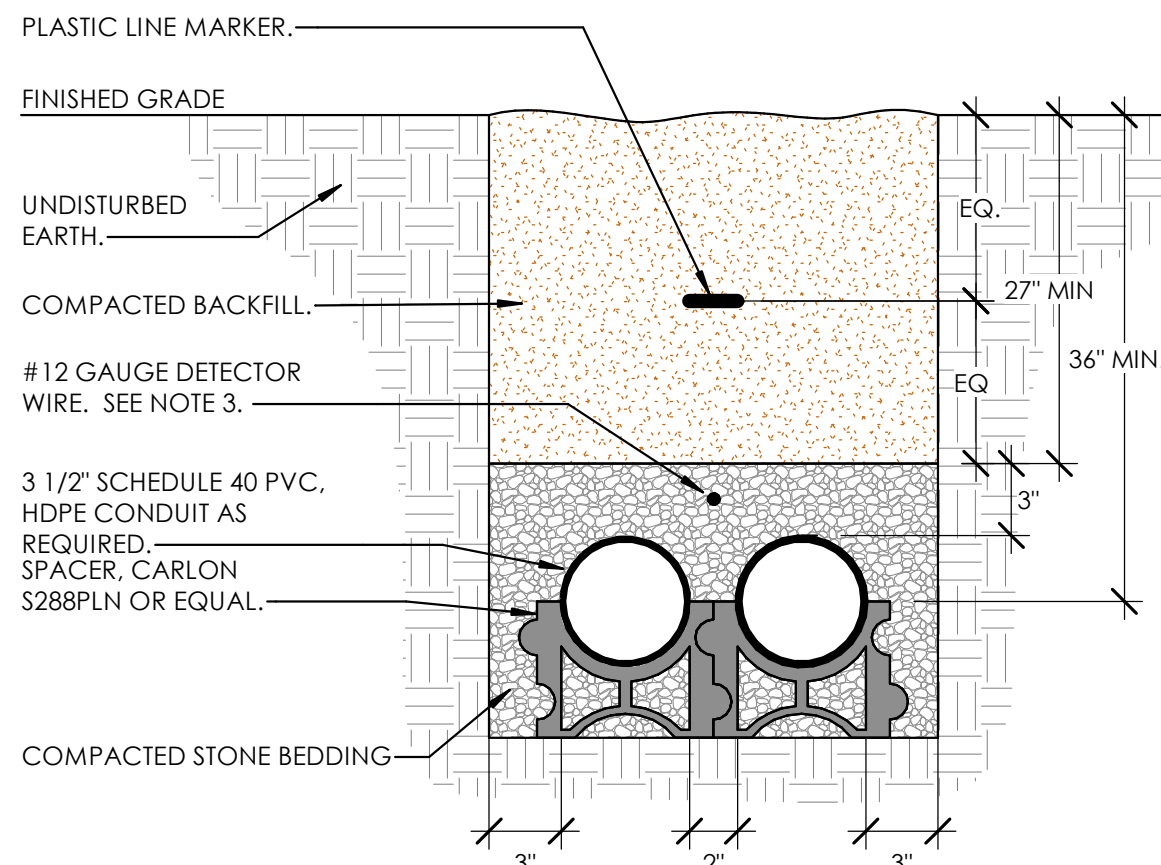
3 TYPICAL FB - FIBER PULL BOX DETAIL
NOT TO SCALE

NOTES:

- 3' x 5' x 3' QUARTZITE POLYMER CONCRETE, TIER 15 RATED, IN-GRADE PULL BOX WITH CRUSH RUN DRAIN BASE.
- TYPICAL CONDUIT, 45 DEGREES UP TOWARDS THE ENDS AND 6" ABOVE GRAVEL BASE.



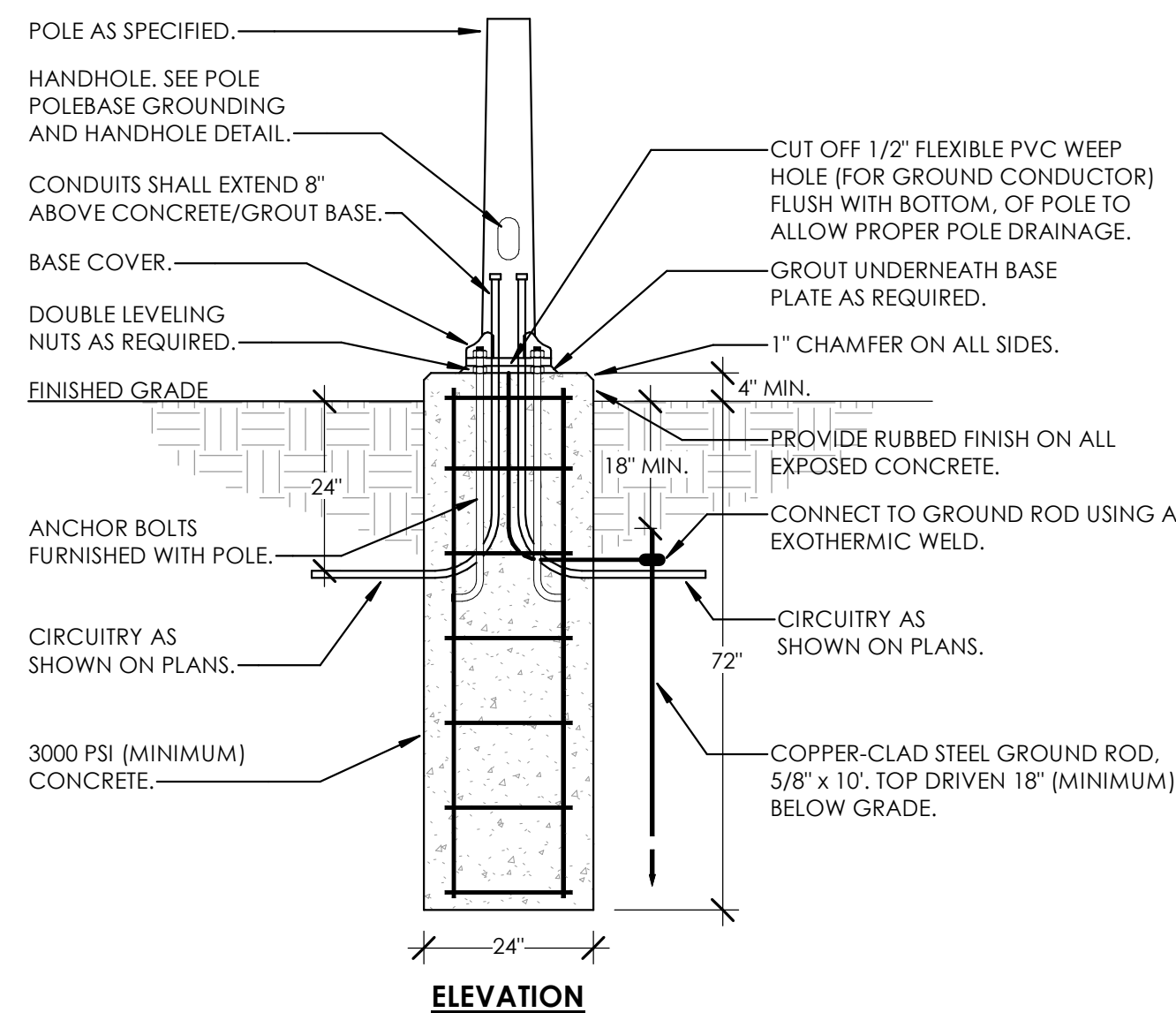
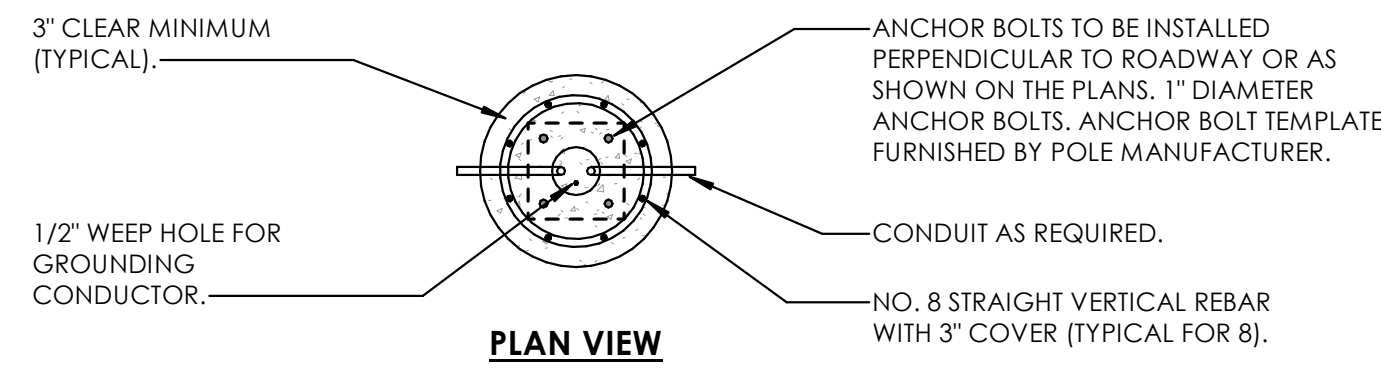
4 POLEBASE GROUNDING & HANDHOLE DETAIL
NOT TO SCALE



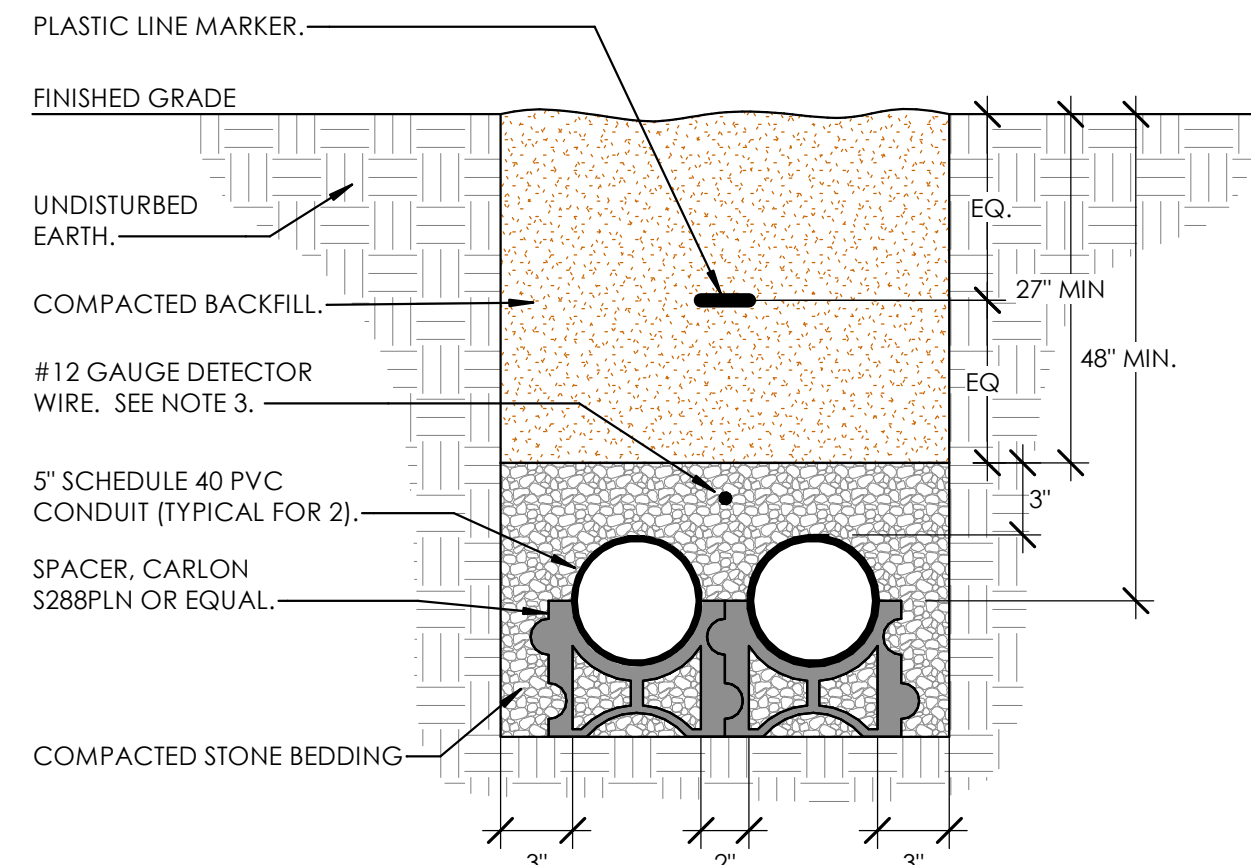
8 SECONDARY POWER DUCT BANK DETAIL 2C
NOT TO SCALE

NOTES:

- PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
- VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
- DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH 3 PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".



5 TYPICAL POLEBASE DETAIL
NOT TO SCALE



7 PRIMARY POWER DUCT BANK DETAIL
NOT TO SCALE

NOTES:

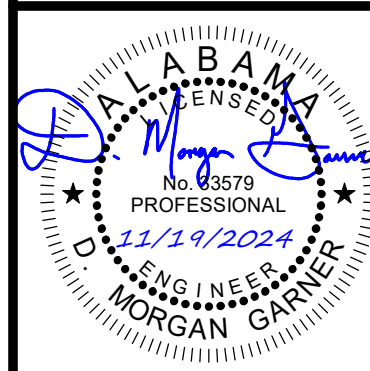
- PLASTIC LINE MARKER SHALL BE RED WITH BLACK WRITING THAT READS "WARNING HIGH VOLTAGE".
- VERIFY CONDUIT DEPTHS WITH LOCAL UTILITY COMPANY.
- DETECTOR WIRE SHALL HAVE A CONTINUOUS OUTER PROTECTIVE JACKET AND MARKED WITH 3 PURPLE STRIPES ON EACH END AND A LABEL MARKED "DETECTOR WIRE".

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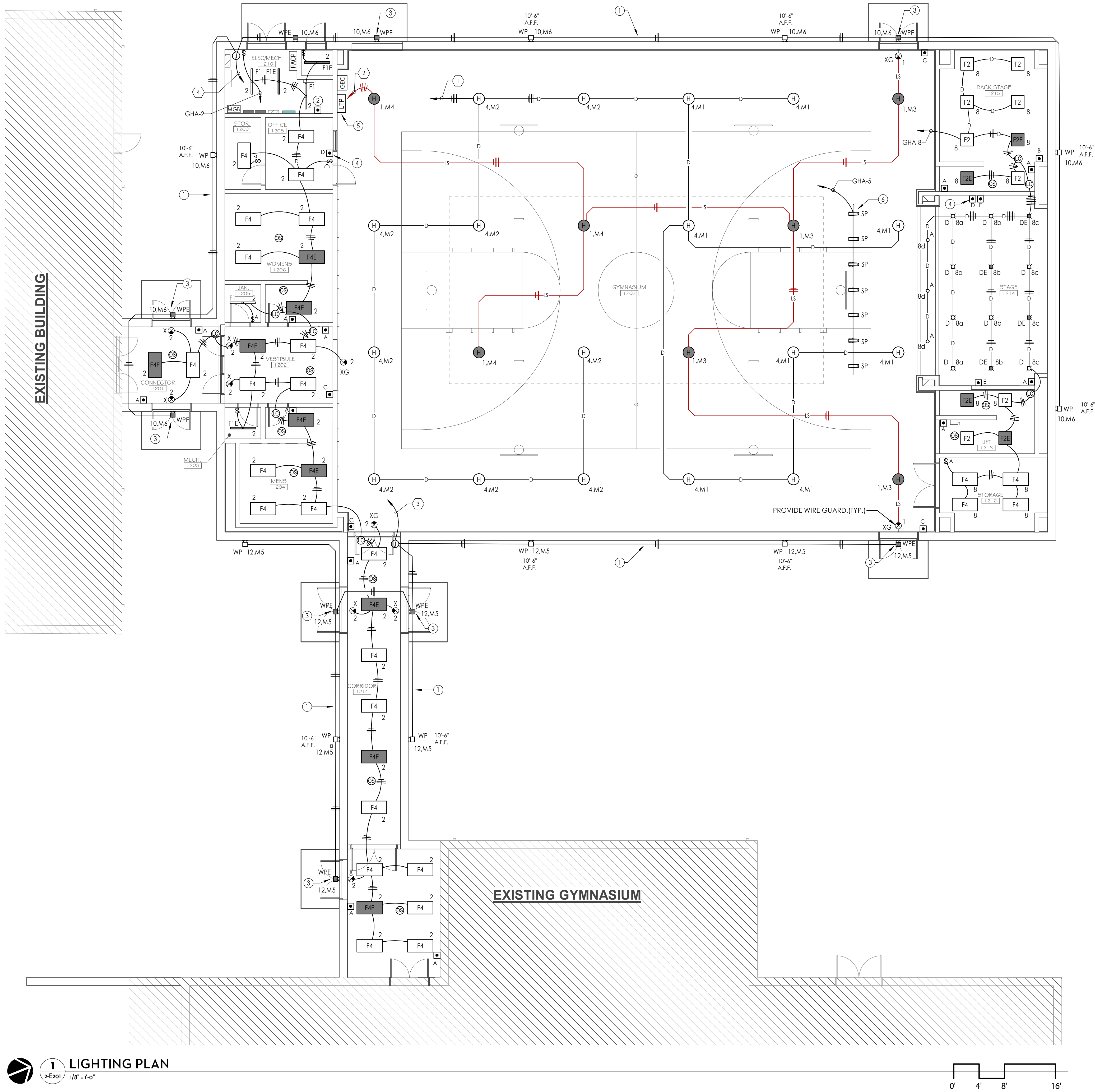
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SITE ELECTRICAL
DETAILS

2-E102



1 LIGHTING PLAN
2-E201 1/8" = 1'-0"

LIGHTING CONTROL SCHEME SCHEDULE					
MARK	ROOM	BUTTONS	ROOM CONTROLLER OR RELAY	LABEL - ENGRAVING	AUTOMATION
A	BATHROOMS, CORRIDORS & LOCKER ROOMS (APPLIES TO MULTIPLE ROOMS)	1	LC	ON	MANUAL ON
					* OFF CONTROLLED BY SENSOR
B	GENERAL USE SWITCH (APPLIES TO MULTIPLE ROOMS)	1	LC	ON	MANUAL ON
		2	LC	RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		3	LC	OFF	MANUAL OFF / TIMED OFF
C	GYMNASIUM	1	M1,M2,M3,M4	ON	MANUAL ON
D	GYMNASIUM	1	M1,M2,M3,M4	ALL LIGHTS ON	MANUAL ON
		2	M1,M3	FRONT RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		3	M2,M4	BACK RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		4	M1,M2,M3,M4	ALL LIGHTS OFF	MANUAL OFF
E	STAGE 1114	1	LC-a,b,c,d	ALL ON	MANUAL ON
		2	LC-a	FRONT RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		3	LC-b	MIDDLE RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		4	LC-c	BACK RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		5	LC-d	DOWNLIGHTS RAISE/LOWER	HOLD BUTTON TO RAISE/LOWER
		6	LC-a,b,c,d	ALL LIGHTS OFF	MANUAL OFF / TIMED OFF

LIGHTING CIRCUIT SCHEDULE

- GHA-4 THRU RELAYS M1 & M2 IN LIGHTING CONTROL PANEL 'LCP-M'.
- INV-1 THRU RELAYS M3 & M4 IN LIGHTING CONTROL PANEL 'LCP-M'.
- GHA-12 THRU RELAY M5 IN LIGHTING CONTROL PANEL 'LCP-M'.
- GHA-10 THRU RELAY M6 IN LIGHTING CONTROL PANEL 'LCP-M'.

KEYED NOTES:

- ROUTE CONDUIT CONCEALED IN BUILDING.
- MANUAL OVERRIDE SWITCH FOR ALL EXTERIOR BUILDING LIGHTING.
- FIXTURE TO BE MOUNTED BELOW AWNING. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ARCHITECT. (TYPICAL FOR ALL 'WPE' FIXTURES.)
- LOW VOLTAGE MASTER SWITCH FOR GYMNASIUM CONTROLS.
- STAGE SPOTLIGHT/FLOODLIGHT CONTROL STATION, ETC ECHOTOUCH CONTROLLER MK2 OR APPROVED EQUAL. PROVIDE REQUIRED DMX CONTROL CABLEING AS REQUIRED.
- VERIFY MOUNTING HEIGHT AND LOCATION OF STAGE SPOTLIGHTING.

GENERAL LIGHTING NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND CEILING TYPES.
- REFER TO POWER PLAN FOR ELECTRICAL PANEL AND LIGHTING CONTROL PANEL LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE SWITCH LOCATION WITH DOOR SWINGS BEFORE ROUGH IN.
- ALL AREAS SHALL BE CONTROLLED WITH MANUAL ON/OFF SWITCHING AND BE TIMED OFF OR BE CONTROLLED WITH OCCUPANCY SENSORS.
- ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST FIXTURE SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
- ALL 277 VOLT CIRCUITS MORE THAN 125' LONG FROM PANEL TO FIRST FIXTURE SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
- ALL EXTERIOR LIGHTS SHALL BE CONTROLLED AS NOTED ON DRAWINGS.
- ROOMS WITH ELECTRICAL PANELS SHALL NOT BE AUTOMATICALLY CONTROLLED.
- LIGHTS IN MECHANICAL ROOMS SHALL BE ADJUSTED AS REQUIRED TO AVOID CONFLICTS WITH DUCT WORK AND BEST LIGHT THE SPACE.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE LIGHTING CONTROL CABLEING ALTHOUGH NOT SPECIFICALLY SHOWN ON PLANS. LIGHTING CONTROL MANUFACTURER SHALL PROVIDE LAYOUT OF CABLEING WITH THEIR SUBMITTALS.
- CONTRACTOR SHALL LOCATE ALL ROOM CONTROLLERS ABOVE DOORS IN EACH ROOM 6" ABOVE CEILING GRID. PROVIDE ACCESS PANELS WHERE LOCATED ABOVE HARD CEILINGS OR MOUNT IN ADJACENT UTILITY TYPE ROOM WHENEVER POSSIBLE. ROOM CONTROLLERS SHOWN ON PLANS IS DIAGRAMMATIC FOR CIRCUITRY. DO NOT USE THESE FOR ACTUAL LOCATIONS. PROVIDE A WHITE PHENOLIC LABEL WITH 1" BLACK TEXT THAT READS "LC" GLUED ON CEILING GRID UNDER POWER PACK FOR EACH LOCATION FOR FUTURE MAINTENANCE.

LIGHTING CONTROL NOTES:

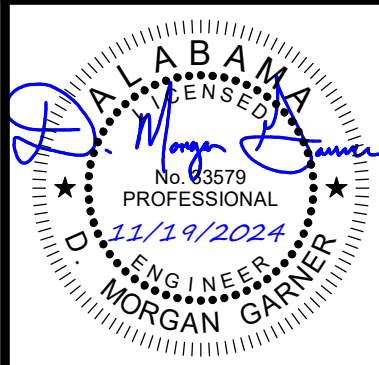
- PROVIDE COMPLETE LIGHTING CONTROL SYSTEM AS NOTED AND AS SHOWN ON DRAWINGS.
- ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
- ALL LIGHTING CONTROLS SHALL BE "MANUAL ON" EXCEPT FOR EXTERIOR AT DOORWAYS.
- FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLEING AS REQUIRED TO EACH FIXTURE. REFER TO TYPICAL ROOM LIGHTING CONTROL WIRING DIAGRAM.
- SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL - AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS. 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION. 3) FINAL CHECK - AFTER FINAL INSPECTION IS COMPLETED, OWNER TRAINING.
- MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH OWNER.
- PROVIDE CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS AS REQUIRED.
- EMERGENCY LIGHTS IN CORRIDORS ARE INTENDED TO BE 24/7 NIGHT LIGHTS UNLESS NOTED OTHERWISE. EMERGENCY LIGHTS IN ALL OTHER ROOMS ARE INTENDED TO OPERATE THE SAME AS ALL OTHER LIGHTS DURING NORMAL OPERATION AND GO TO 100% FULL POWER IN EMERGENCY OPERATION.
- INTERIOR LIGHTING CONTROLLED BY A TIMED SENSOR SHALL FLASH ONE MINUTE PRIOR TO SHUT OFF. SYSTEM SHALL ALLOW LOCAL OVERRIDE OF AUTOMATIC SHUT OFF FOR UP TO 2 HOURS.
- OCCUPANCY SENSORS SHALL BE VACANCY TYPE WITH DUAL TECHNOLOGY DETECTION AND 30 MINUTE CUTOFF TIME.
- OCCUPANCY SENSOR MANUFACTURER WILL BE RESPONSIBLE FOR SIZING THE OCCUPANCY SENSORS IN EACH SPACE. PROVIDE THIS SIZING TO THE ENGINEER DURING SUBMITTAL PHASE FOR APPROVAL. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS REQUIRED TO FULLY COVER ALL SPACES. IF ADDITIONAL OCCUPANCY SENSORS OR ANY OTHER EQUIPMENT IS REQUIRED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THIS WITH LIGHTING MANUFACTURER PRIOR TO BIDS AND COVER THE COST OF ALL MATERIAL AND LABOR FOR ANY ADDITIONAL OCCUPANCY SENSORS.
- ALL OCCUPANCY SENSORS LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EXACT MOUNTING AND SPACING REQUIREMENTS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY / RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR OCCUPANCY SENSORS. FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT, OCCUPANCY SENSORS MOUNTED OVER DOORWAYS SHALL BE ONE (1) FOOT INSIDE THRESHOLD.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, DEVICES, WIRING, CONNECTIONS, AND PROGRAMMING NEEDED.
- CONTRACTOR SHALL GROUND ALL JUNCTION BOXES CONTAINING LOW VOLTAGE SWITCHES OR ANY OTHER LIGHTING CONTROL DEVICE WITH #12 GROUND.
- PROVIDE A UL924 DEVICE FOR THE LIGHTING CONTROLS SUCH THAT UPON POWER LOSS THE LOCAL CONTROLS ARE BYPASSED TO ALLOW THE EMERGENCY LIGHTS TO ILLUMINATE 100%. ALL EMERGENCY LIGHTS.

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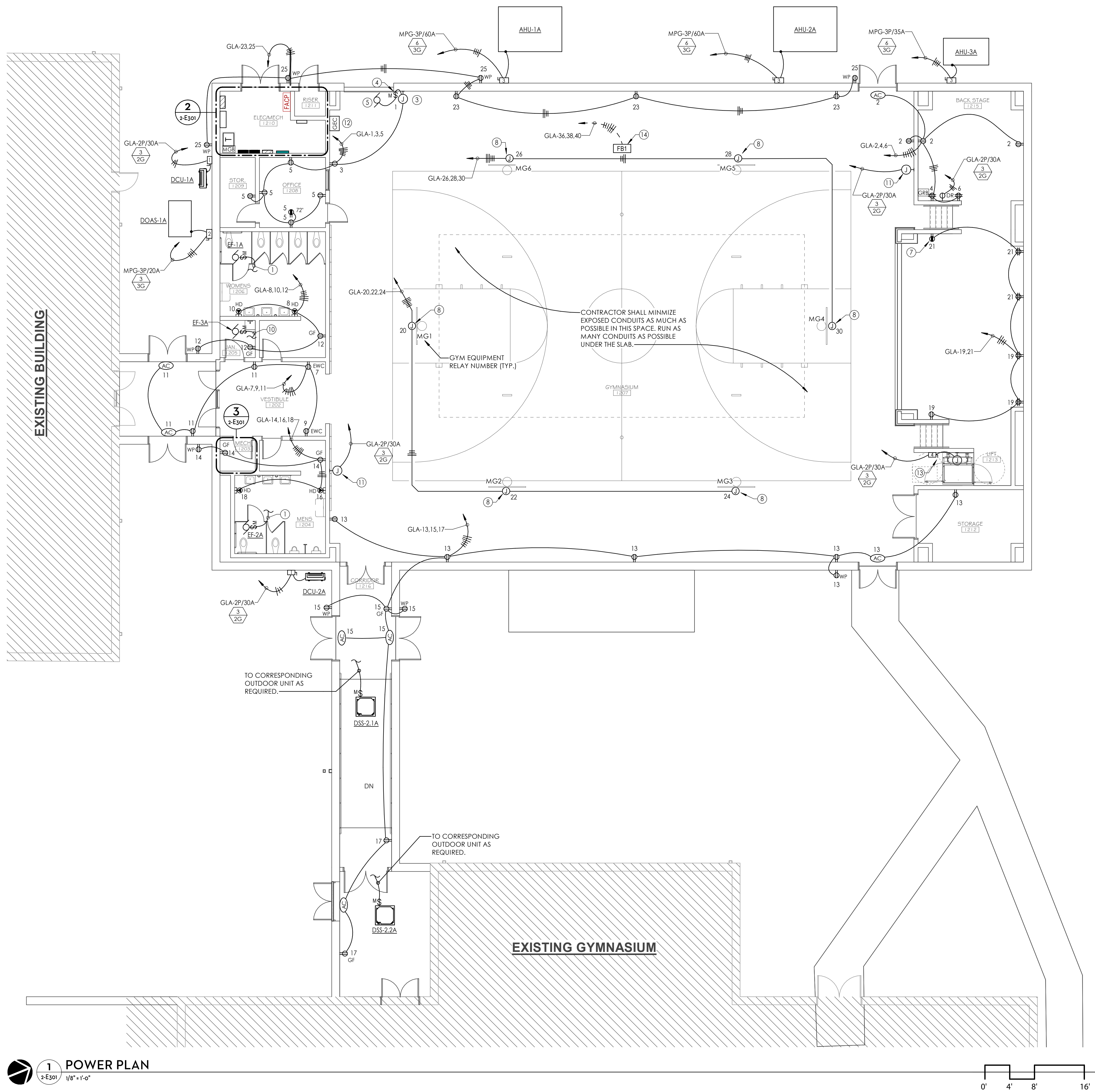
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LIGHTING PLAN

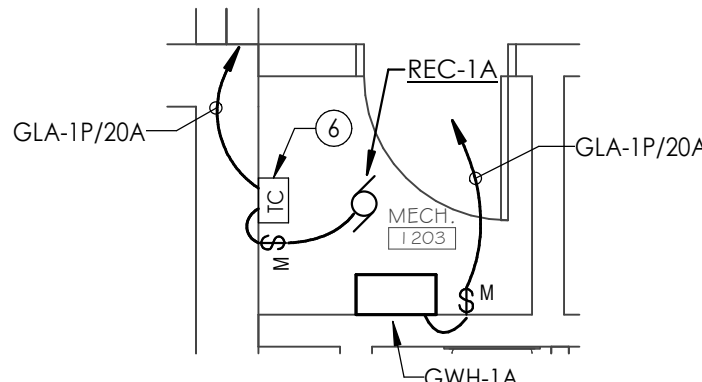
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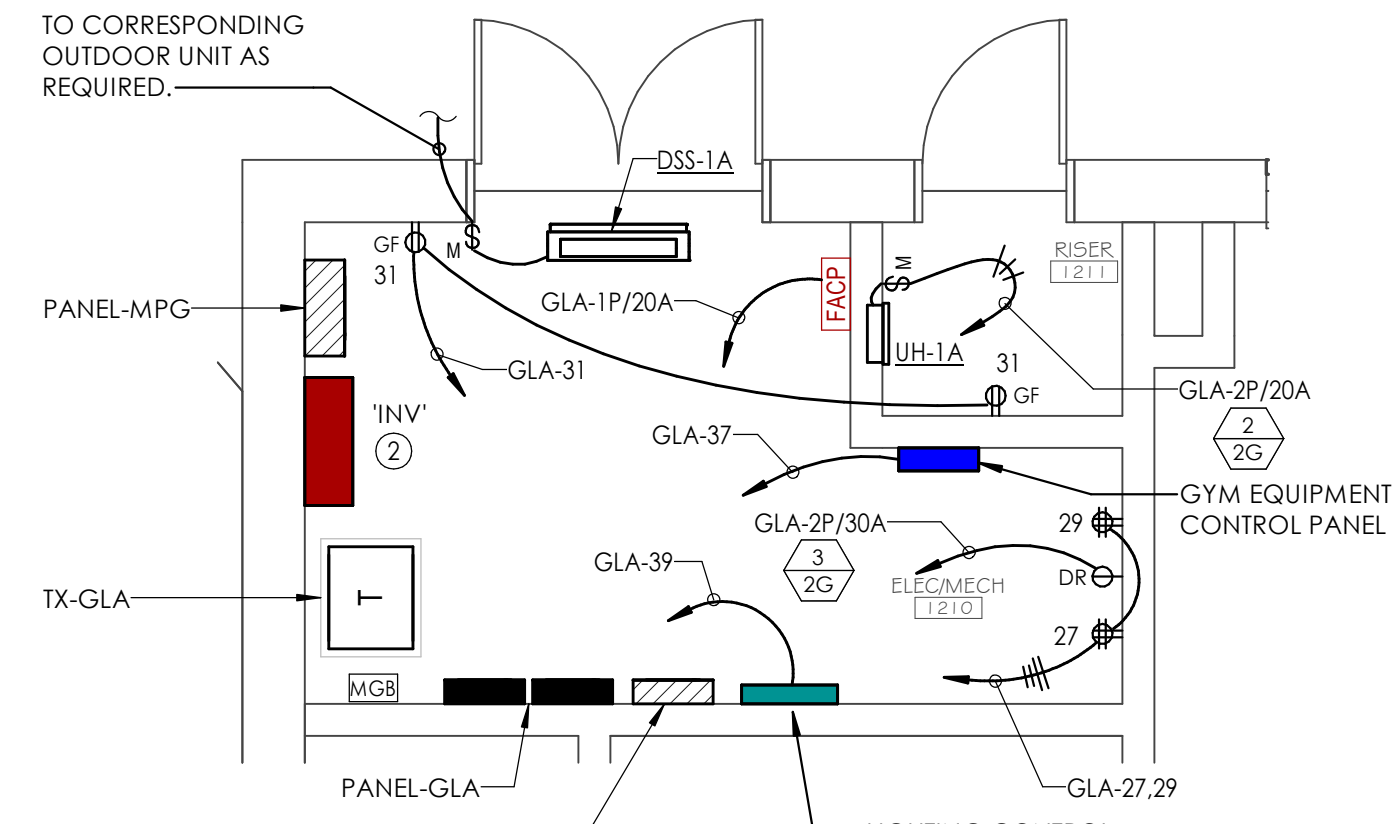
1 POWER PLAN
2-E301 1/8"=1'-0"

GYM EQUIPMENT RELAY PANEL - MG				
ROOM: ELEC/MECH 1210				
RELAY	VOLT.	CIRCUIT	DESCRIPTION	
MG1	120	GLA-20	BASKETBALL GOAL	
MG2	120	GLA-22	BASKETBALL GOAL	
MG3	120	GLA-24	BASKETBALL GOAL	
MG4	120	GLA-26	BASKETBALL GOAL	
MG5	120	GLA-28	BASKETBALL GOAL	
MG6	120	GLA-30	BASKETBALL GOAL	

NOTE: RELAY PANEL PROVIDED BY GYM EQUIPMENT SUPPLIER. AUTOMATION REQUIREMENTS AS SPECIFIED BY ARCHITECT. PROVIDE CONTROL WIRING AND ADDITIONAL CONDUITS AS REQUIRED BY MANUFACTURER.



3 MECH. 1203 - POWER PLAN
2-E301 1/4"=1'-0"



2 ELEC./MECH 1210 - POWER PLAN
2-E301 1/4"=1'-0"

- GYMNASIUM NOTES:**
- COORDINATE ALL DEVICE LOCATIONS IN GYMNASIUM WITH ARCHITECTURAL ELEVATIONS AND WALL FINISHES.
 - ALL ELECTRICAL DEVICES SHALL BE FURNISHED WITH WIRE GUARDS IN THE GYMNASIUM.
 - CONTRACTOR SHALL MINIMIZE EXPOSED CONDUITS AS MUCH AS POSSIBLE IN GYMNASIUM.
 - ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH CEILING.

POWER PLAN NOTES:

- COORDINATE THE LOCATION OF ALL DESKS, TV, AND PRINTER RECEPTACLES WITH THE FURNITURE PLAN/ ARCHITECT PRIOR TO INSTALLATION.
- ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST OUTLET SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
- ALL ELECTRICAL WORK AND MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE N.E.C. AND THE REQUIREMENTS OF THE STATE AND LOCAL AUTHORITY HAVING JURISDICTION.

KEYED NOTES:

- CONNECT 120V EXHAUST FAN CIRCUITRY THROUGH RELAY CONTROLLED BY 277V LIGHT SWITCH ASSOCIATED WITH THE CORRESPONDING ROOM. EXHAUST FAN SHALL BE CONTROLLED WITH THE LIGHTS IN THE CORRESPONDING ROOM.
- INVERTER-INVT 1500W INVERTER SYSTEM FOR LIFE SAFETY LIGHTING. DUAL-LITE DLS SERIES #DLS-1500-277-B-2001-FSS OR APPROVED EQUAL. UL 924 WITH TYPE S' BATTERIES AND 90 MINUTE RUN TIME. PROVIDE WITH ONE(1) NORMALLY ON OUTPUT BREAKER AS REQUIRED.
- PROVIDE 2 GANG DEEP BOX FLUSH AT 48" A.F.F. TO TOP OF BOX FOR DOOR CONTROLS WITH 1" C. TO DOOR MOTOR. CONTROLS TO BE PROVIDED WITH DOOR EQUIPMENT AND INSTALLED BY E.C. VERIFY LOCATION OF BUTTONS WITH OWNER PRIOR TO ROUGH-IN.
- LOCATE MOTOR RATED TOGGLE SWITCH ADJACENT TO OVERHEAD DOOR MOTOR AND MAKE CONNECTION TO OVERHEAD DOOR MOTOR AS REQUIRED.
- POWER CONNECTION FOR ROLL-UP DOOR. VERIFY DOOR AND MOTOR REQUIREMENTS WITH ARCHITECT AND OWNER.
- PROVIDE AND INSTALL TIME CLOCK FOR CONNECTION TO CIRCULATION PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- AV WIRELESS ACCESS POINT RECEPTACLE. MOUNT RECEPTACLE AT 10'-0" A.F.F. TO THE TOP OF BOX. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- POWER CONNECTION FOR BASKETBALL GOAL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GOAL SUPPLIER. PROVIDE ALL CONTROL WIRING AS REQUIRED.
- INVERTER-INVT 1500W INVERTER SYSTEM FOR LIFE SAFETY LIGHTING. DUAL-LITE DLS SERIES #DLS-1500-277-B-2001-FSS OR APPROVED EQUAL. UL 924 WITH TYPE S' BATTERIES AND 90 MINUTE RUN TIME. PROVIDE WITH ONE(1) NORMALLY ON OUTPUT BREAKER AS REQUIRED.
- CONNECT 120V EXHAUST FAN CIRCUITRY THROUGH RELAY CONTROLLED BY 277V LIGHT SWITCH ASSOCIATED WITH THE CORRESPONDING ROOM. EXHAUST FAN SHALL BE CONTROLLED WITH THE LIGHTS IN THE CORRESPONDING ROOM.
- PROVIDE POWER FOR SCOREBOARD. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF SCOREBOARD PRIOR TO ROUGH-IN.
- GYM EQUIPMENT CONTROL STATION. PROVIDE CONDUITS AND CABLEING TO GYM EQUIPMENT CONTROL PANEL AS REQUIRED. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN WITH OWNER/ARCHITECT AND EQUIPMENT MANUFACTURER.
- ELECTRICAL CONNECTION FOR LIFT. MAKE CONNECTION TO LIFT AS REQUIRED.
- FLOOR BOX. PROVIDE THREE(3) 120V 20A CIRCUITS IN FLOOR BOX. VERIFY EXACT LOCATION OF FLOOR BOX WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT NOTES:

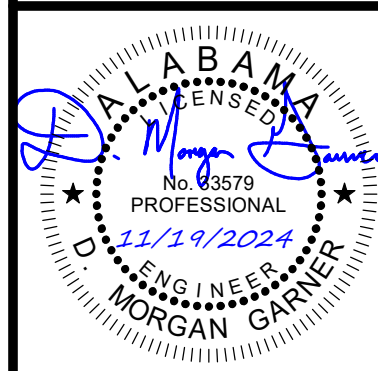
- COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH N.E.C. AND LOCAL CODES.
- ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
- ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA.
- MOUNT MANUAL MOTOR START SWITCH NEAR UNIT, ABOVE ACCESSIBLE CEILING SPACE OR 48" A.F.F. TO THE TOP OF THE BOX AND LABEL AS REQUIRED.
- VERIFY ALL EQUIPMENT ELECTRICAL SIZE REQUIREMENTS PRIOR TO ORDERING EQUIPMENT.

SHEET MUST BE PRINTED IN COLOR.

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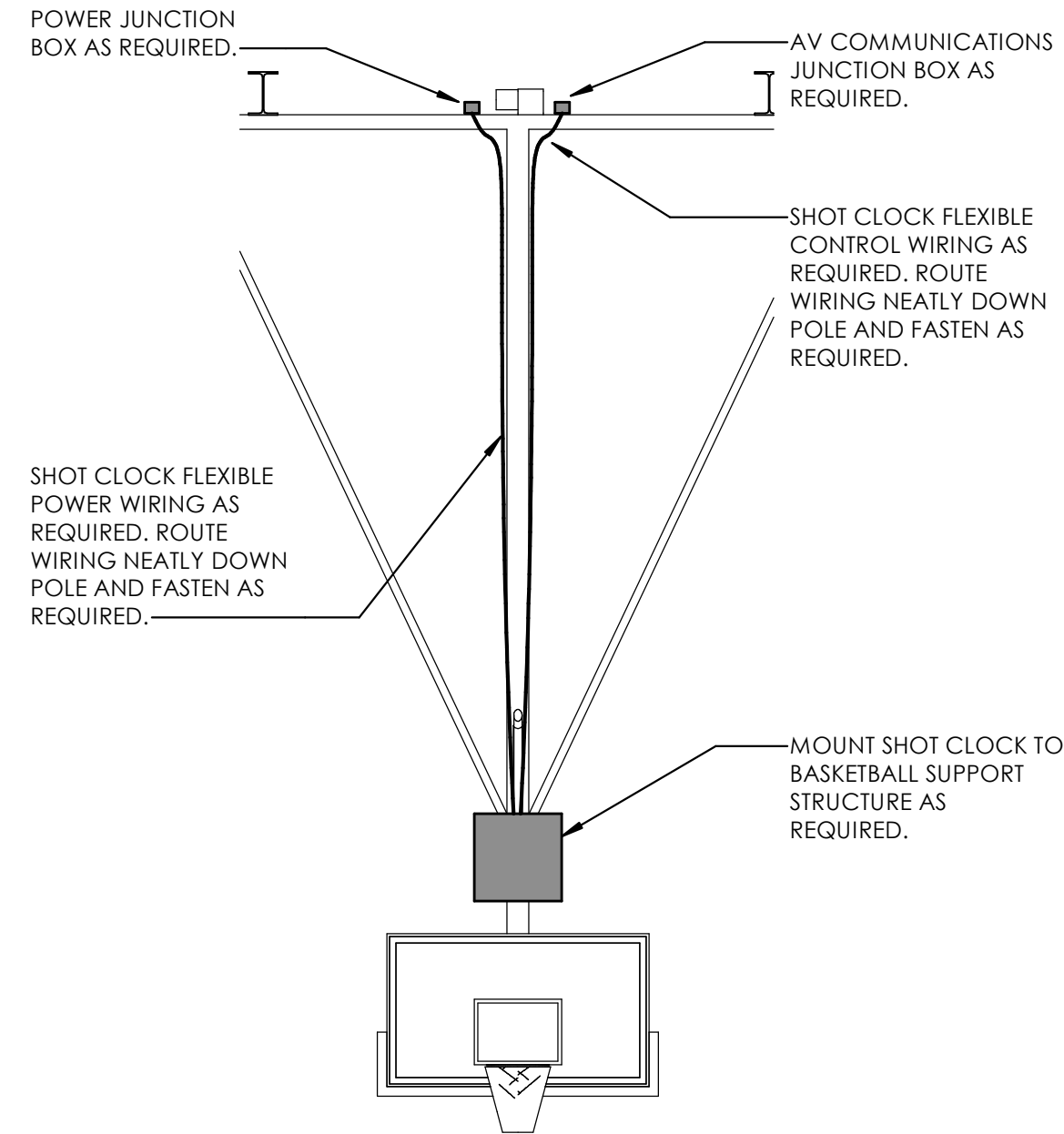
REVISIONS

#	DESC	DATE
1	ADD #1	8/28/26

POWER PLAN

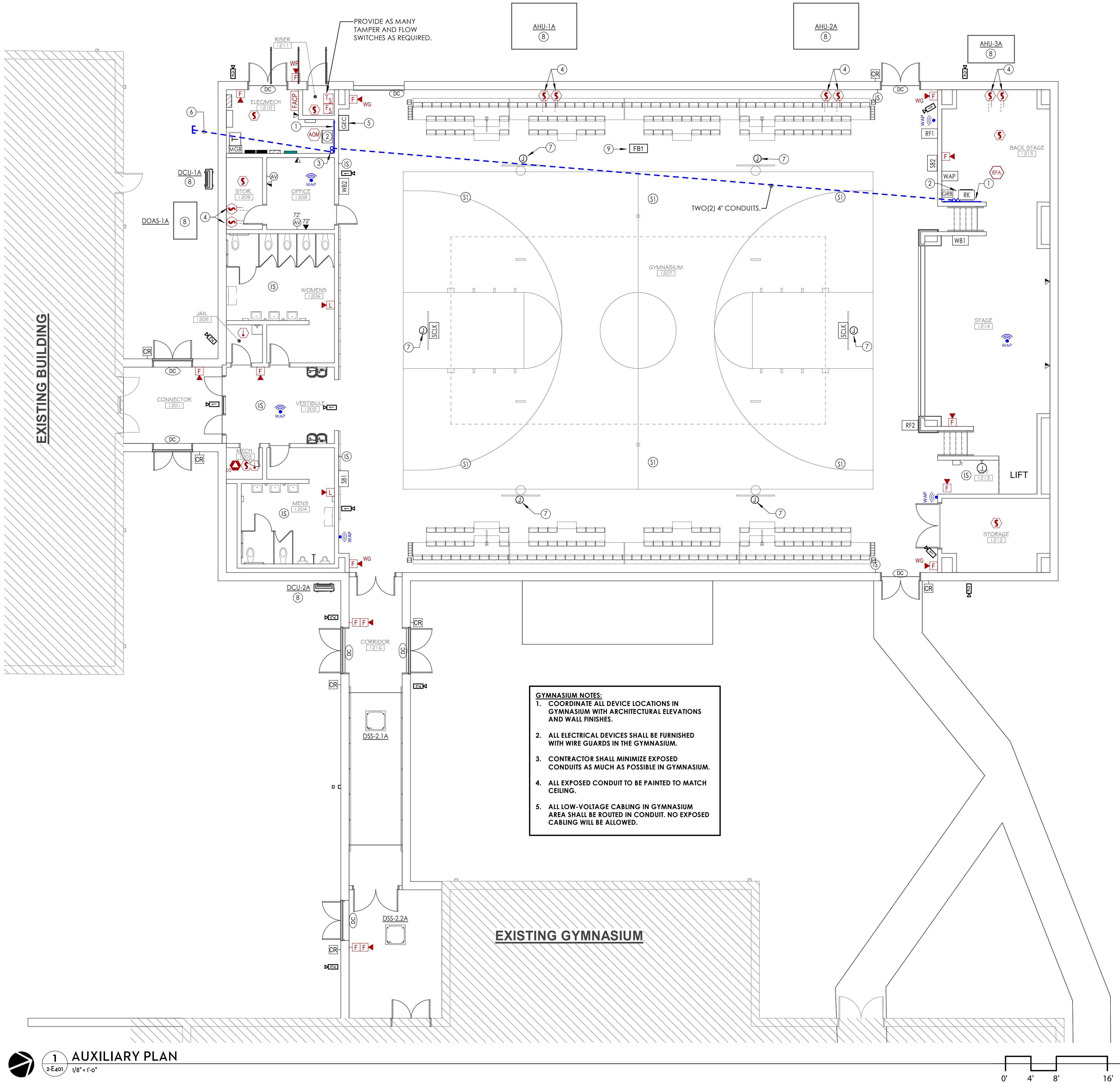
2-E301

AV EQUIPMENT SCHEDULE - MULTIPURPOSE							
ITEM NO.	SYMBOL	DESCRIPTION	ELEVATION AND/OR LOCATION	LV BACKBOX TYPE	FLUSH OR SURFACE MOUNTED	AC POWER REQUIRED	MODEL/SPEC NOTES
1	[RK]	AV RACK	24" A.F.F.	MIDDLE ATLANTIC SR SERIES WALL BACKPLANE	FLUSH	YES, SEE POWER PLAN	MIDDLE ATLANTIC SR-40-32
2	[S]	CEILING SPEAKER	CEILING JOIST	12"X12"X6" LV BOX WITH KO AS REQ.	SURFACE	NO	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
3	[FB]	FLOOR BOX, SEE SPECS	FLOOR	FSR FLOOR BOX, SEE SPECIFICATIONS.	FLUSH	YES, SEE POWER PLAN	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
4	[WAP]	WIRELESS ACCESS POINT	12'-0" A.F.F.	HUBBELL #985	FLUSH	YES, SEE POWER PLAN	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
5	[RF1] [RF2]	RADIO TRANSMITTER	12'-0" A.F.F.	HUBBELL #985	FLUSH	NO	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
6	[WB1] [WB2]	AV WALL BOX	18" A.F.F.	FSR #WB-X3-PLT-B	FLUSH	YES, SEE POWER PLAN	VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
7	[SB1] [SB2]	SCORE BOARD	14'-0" A.F.F. TO BOTTOM OF SCREEN	(1) 18"X24"X8" SCREWCOVER FLUSH MOUNTED BACK BOX, FLUSH MOUNT BEHIND BOARD.	SURFACE	YES, SEE POWER PLAN	FINAL LOCATION & ELEVATION TBD AS DIRECTED BY OWNER
8	[SCLK]	SHOT CLOCK	ON GOAL		SURFACE		GC/OWNER TO PROVIDE BASKETBALL GOAL FRAMING WITH HOLDER ON BACKBOARD FRAMING FOR SHOT CLOCK TO ATTACH TO.



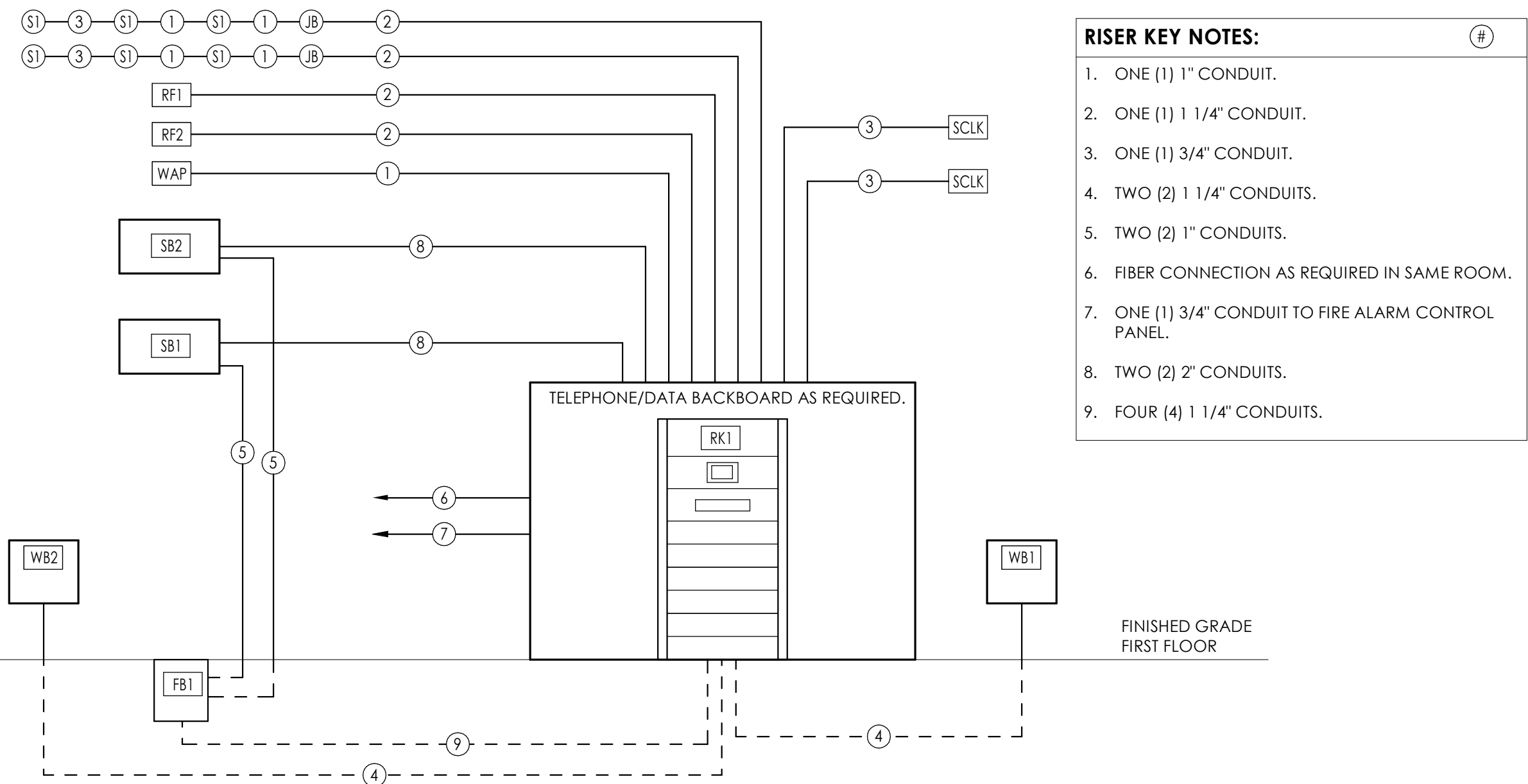
3 TYPICAL BASKETBALL SHOT CLOCK DETAIL
NOT TO SCALE

1 AUXILIARY PLAN
NOT TO SCALE



- AV SYSTEM NOTES:**
- CONTRACTOR SHALL PROVIDE A DETAILED WIRING DIAGRAM SHOP DRAWING.
 - CONTRACTOR IS REQUIRED TO COORDINATE THE INSTALLATION OF ALL COMPONENTS WITH ALL TRADES PRIOR TO ROUGH-IN.
 - CONTRACTOR IS REQUIRED TO PROVIDE POWER TO ALL DEVICES FOR A COMPLETE INSTALLATION AS REQUIRED.
 - CONTRACTOR SHALL VERIFY ALL CONDUIT REQUIREMENTS WITH AUDIO VISUAL SUB PRIOR TO ROUGH-IN.

2 AV RISER DIAGRAM
NOT TO SCALE



- RISER KEY NOTES:**
- ONE (1) 1" CONDUIT.
 - ONE (1) 1 1/4" CONDUIT.
 - ONE (1) 3/4" CONDUIT.
 - TWO (2) 1 1/4" CONDUITS.
 - TWO (2) 1" CONDUITS.
 - FIBER CONNECTION AS REQUIRED IN SAME ROOM.
 - ONE (1) 3/4" CONDUIT TO FIRE ALARM CONTROL PANEL.
 - TWO (2) 2" CONDUITS.
 - FOUR (4) 1 1/4" CONDUITS.

KEYED NOTES:

- AUXILIARY SYSTEMS BACKBOARD, 8" TALL FIRE-RATED 3/4" PLYWOOD, WHERE SHOWN, PAINTED ON ALL SIDES AND EDGES WITH AT LEAST TWO COATS OF GRAY PAINT.
- WALL MOUNTED DATA/AV RACK, MAINTAIN 3" CLEARANCE ON FRONT AND SIDES OF RACKS.
- STUB CONDUITS UP AT INTERIOR WALL, ENSURE CONDUITS STUB-UP AT A MINIMUM OF 12" ABOVE FINISHED FLOOR, COORDINATE EXACT LOCATION WITH OTHER EQUIPMENT AND DISCIPLINES NOT SHOWN.
- DUCT SMOKE DETECTORS TO BE LOCATED INSIDE BUILDING. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- GYM EQUIPMENT CONTROL STATION, PROVIDE CONDUITS AND CABLEING TO GYM EQUIPMENT CONTROL PANEL AS REQUIRED, VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN WITH OWNER/ARCHITECT AND EQUIPMENT MANUFACTURER.
- TWO (2) 4" CONDUITS, STUB OUT 5'-0" PAST BUILDING FOOTPRINT AND CAP.
- PROVIDE RACEWAY CONNECTION FOR BASKETBALL GOAL CONTROLS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GOAL SUPPLIER.
- OUTDOOR MECHANICAL UNIT, REFER TO SHEET 2-E301 POWER PLAN.
- FLOOR BOX, COORDINATE EXACT LOCATION OF FLOOR BOX WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN, PROVIDE CONDUITS AS REQUIRED.

AUXILIARY PLAN NOTES:

- STRUCTURED CABLING, RACEWAY, JUNCTION BOXES, ETC., SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. VERIFY ALL DEVICE LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
- ALL STRUCTURED CABLING, AUXILIARY CABLING AND AUDIO VISUAL CABLING SHALL BE PLENUM RATED.
- FIRE ALARM CONTRACTOR SHALL BE PERMITTED THROUGH THE STATE OF ALABAMA FIRE MARSHALL'S OFFICE.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING IN CONDUIT FOR FIRE ALARM SYSTEM ALTHOUGH NOT SPECIFICALLY SHOWN ON DRAWING. FIRE ALARM DEVICES AND EQUIPMENT ARE SHOWN AND MUST BE PROPERLY CONNECTED TO PROVIDE A COMPLETE WORKING SYSTEM. WIRING AND ZONING SHALL BE AS RECOMMENDED BY MANUFACTURER.
- FIRE ALARM SYSTEM SHALL BE TESTED AND CERTIFIED.
- VERIFY EXACT LOCATION OF ALL DEVICES IN WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT'S INTERIOR ELEVATIONS AND SECTIONS TO LOCATE DEVICES.
- ALL CEILING MOUNTED DEVICES SHALL BE MOUNTED IN THE CENTER OF CEILING TILES. SEE ARCHITECTURAL REFLECTED CEILING PLANS.
- SEE ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL DEVICES.
- ALL TV OUTLETS ARE TO BE CENTERED ON WALLS. SEE MOUNTING DETAILS.
- VERIFY EXACT LOCATION OF ALL CCTV EQUIPMENT WITH SECURITY CONTRACTOR/OWNER PRIOR TO ROUGH-IN.
- PROVIDE J-HOOKS ABOVE ACCESSIBLE CORRIDOR CEILINGS EVERY 3' ON BOTH SIDES FOR AUXILIARY SYSTEMS RACEWAY. IF CEILING IS EXPOSED, ALL CABLING SHALL BE ROUTED IN CONDUIT. ALL EXPOSED WIRING SHALL BE KEPT TO A MINIMUM.
- ALL WIRELESS ACCESS POINTS SHALL HAVE 15' OF SLACK CONDUCTOR ROLLED UP ABOVE ACCESSIBLE CEILING FOR THE OWNER TO BE ABLE TO MODIFY THE POSITION OF THE EQUIPMENT.
- ALL AUDIO VISUAL EQUIPMENT BY CONTRACTOR VIA ALLOWANCE**
CONTRACTOR SHALL VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER/ARCHITECT. SEE SPECIFICATIONS.
- ACCESS CONTROL EQUIPMENT BY OWNER. CONTRACTOR SHALL VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER/ARCHITECT.
- CAMERAS AND CCTV EQUIPMENT BY OWNER. CONTRACTOR SHALL VERIFY ALL BOX LOCATIONS PRIOR TO ROUGH-IN WITH OWNER/ARCHITECT.

LOW VOLTAGE CABLING LEGEND:

THE FOLLOWING COLOR SCHEME SHALL APPLY TO ALL WIRING, FACE PLATES, PATCH PANELS, ETC FOR THE ENTIRE SYSTEM:

- DATA - BLUE
- VOIP - WHITE
- WIRELESS ACCESS POINTS (WIFI) - PURPLE
- LIGHTING CONTROLS - GREEN
- CCTV - YELLOW
- ACCESS CONTROLS - ORANGE

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AUXILIARY PLAN

2-E401