

ELECTRICAL SYMBOL LEGEND

NOTES:			
1. COORDINATE ALL DEVICE COLORS WITH THE ARCHITECT		4. RECEPTACLES TO BE MOUNTED AT 18" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.	
2. SWITCHES SHALL BE MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.		5. REFER TO FIRE ALARM SPECIFICATIONS FOR DETAILS AND ADDITIONAL INFORMATION.	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE, HUBBELL #HBL53K2 (SPECIFICATION GRADE).		HEAVY DUTY 20 AMP, SINGLE POLE SWITCH, HUBBELL #HBL1221.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, HUBBELL #GFR120 (SPECIFICATION GRADE).		HEAVY DUTY 20 AMP, THREE-WAY SWITCH, HUBBELL #HBL1223.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX TAMPER-RESISTANT RECEPTACLE, HUBBELL #HBL53K2TR (SPECIFICATION GRADE).		HEAVY DUTY 20 AMP, FOUR-WAY SWITCH, HUBBELL #HBL1224.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX TAMPER-RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE, HUBBELL #GFR120 (SPECIFICATION GRADE).		"WP" SUBSCRIPT INDICATES TO PROVIDE WEATHERPROOF COVER WITH HINGE ON TOP.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, TAMPER AND WEATHER RESISTANT DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, HUBBELL #GFTWR120 (SPECIFICATION GRADE) WITH WEATHERPROOF "IN-USE" COVERPLATE, MOUNT VERTICALLY AT 24" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.		SINGLE LEVEL SWITCH TYPE OCCUPANCY SENSOR SWITCH CAN BE CONFIGURED AS EITHER AUTO-ON OR VACANCY OPERATION. SENSORSWITCH #VX5X (PASSIVE INFRARED).
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE, HUBBELL #GFR120 (SPECIFICATION GRADE) FOR ELECTRIC WATER COOLER, COORDINATE LOCATION WITH MANUFACTURER.		BOX AROUND DEVICE INDICATES SURFACE MOUNTED IN 4" SQUARE BOX WITH EXPOSED WORK COVER.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, WEATHER RESISTANT DUPLEX RECEPTACLE IN THERMOPLASTIC WATER TIGHT HOUSING WITH WATER TIGHT RECEPTACLE PLUG COVERS, HUBBELL #HBL60W30 (SPECIFICATION GRADE), MOUNT VERTICALLY AT 24" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.		LIGHTING CONTROL REFERENCE TAG. REFER TO DETAILS FOR INFORMATION.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE WITH (1) TYPE A USB CHARGING PORT AND (1) TYPE C USB CHARGING PORT, HUBBELL #USB0AC (SPECIFICATION GRADE).		LED LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	TWO EXTRA HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLES, HUBBELL #HBL53K2 (SPECIFICATION GRADE), MOUNT IN COMMON BOX WITH COMMON PLATE.		CEILING OR WALL MOUNTED EXIT SIGN WITH (2) EMERGENCY LED HEADS. SHADED AREA INDICATES LOCATION OF FACE(S). ARROWS INDICATE CHEVRONS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	EXTRA HEAVY DUTY 20 AMP, 125 VOLT, SIMPLEX GROUNDING TYPE RECEPTACLE, HUBBELL #HBL810 (SPECIFICATION GRADE).		EMERGENCY LIGHTING FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	SPECIAL PURPOSE OUTLET. REFER TO DRAWINGS FOR DESCRIPTION. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.		EMERGENCY LIGHTING REMOTE HEAD UL LISTED FOR USE FOR WET LOCATIONS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	BOX AROUND DEVICE INDICATES SURFACE MOUNTED IN 4" SQUARE BOX WITH EXPOSED WORK COVER UNLESS OTHERWISE NOTED.		OUTDOOR PHOTOCCELL AND DIGITAL INTERFACE KIT WITH 120V POWER SUPPLY. #LIGHT #HIO-PC-KIT.
	4-GANG RECESSED ON-GRADE FLOOR BOX (HUBBELL SYSTEMONE #CFB4330RCR). COORDINATE COVER FINISH, FLOOR TYPE, AND EXACT LOCATION WITH ARCHITECT. PROVIDE WITH RECTANGULAR COVER, EQUIP WITH THE FOLLOWING: • PROVIDE (2) DUPLEX RECEPTACLE SUBPLATES (#FBMPDUP), CIRCUIT PER FLOOR PLAN. • PROVIDE BLANK PLATES OVER UNUSED OPENINGS.		DIGITAL SINGLE-CHANNEL WALL SWITCH. #LIGHT #HPODMA.
	4-GANG RECESSED ON-GRADE FLOOR BOX (HUBBELL SYSTEMONE #CFB4330RCR). COORDINATE COVER FINISH, FLOOR TYPE, AND EXACT LOCATION WITH ARCHITECT. PROVIDE WITH RECTANGULAR COVER, EQUIP WITH THE FOLLOWING: • PROVIDE (2) DUPLEX RECEPTACLE SUBPLATE (#FBMPDUP), CIRCUIT PER FLOOR PLAN. • PROVIDE (1) DECORATOR OPENING SUBPLATE (#FBMPREC) FOR TELECOM. • PROVIDE (1) DECORATOR OPENING SUBPLATE (#FBMPREC) FOR AV CONNECTIONS.		DIGITAL SINGLE-CHANNEL DIMMING WALL SWITCH. #LIGHT #HPODMA-DX.
	STANDARD STEEL JUNCTION BOX WITH COVER. LOCATE AND CONNECT AS DIRECTED.		DMX TOUCHSCREEN CONTROL STATION. REFER TO LIGHTING FIXTURE SCHEDULE TYPE "SSA" FOR DESCRIPTION.
	POWER SUPPLY FOR AUTOMATIC FAUCET, HARD-WIRED (120V). REFER TO DETAIL.		DIGITAL CEILING MOUNT OCCUPANCY SENSOR. #LIGHT #CM-PDT (DUAL-TECHNOLOGY).
	TEMPERATURE CONTROLS JUNCTION BOX (120V) FOR VAV BOX CONTROL POWER. MOUNT ABOVE CEILING AND COIL CONDUCTORS INSIDE BOX FOR FINAL CONNECTION BY TEMPERATURE CONTROLS CONTRACTOR.		DIGITAL SINGLE-RELAY 0-10V DIMMING ROOM CONTROLLER. #LIGHT #PP16-EFP.
	SECURED DOOR POWER SUPPLY (120V).		DIGITAL SINGLE-RELAY 0-10V DIMMING ROOM CONTROLLER. #LIGHT #PP16-D-EFP.
	POINT OF CONNECTION TO ELECTRIFIED EQUIPMENT. VERIFY EXACT LOCATION WITH RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.		DIGITAL NETWORK BRIDGE WITH 120V POWER SUPPLY. #LIGHT #NBRG-8-KIT.
	MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR. CONNECT AS DIRECTED BY MOTOR SUPPLIER.		DIGITAL CENTRAL LIGHTING CONTROLLER IN NEMA 1 ENCLOSURE WITH TOUCHSCREEN INTERFACE. #LIGHT #ECY-MVOLT-BAC-ENG-GFKX.
	FUSIBLE DISCONNECT SWITCH, HEAVY DUTY TYPE, (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPLETE WITH FUSIBLE TRIPS SIZED TO PROTECT MOTOR, EQUIPMENT OR CONDUCTORS (WHICHEVER IS APPLICABLE), SIZE, POLES, AND TYPE AS INDICATED. HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK.		MANUAL FIRE ALARM SENDING STATION. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.
	COMBINATION MAGNETIC MOTOR STARTER. REFER TO MOTOR STARTER SCHEDULE FOR DETAILS.		FIRE ALARM SYSTEM AUTOMATIC DETECTOR. SUBSCRIPT INDICATES TYPE. CO - CARBON MONOXIDE DETECTOR. FT - FIXED TEMPERATURE (190°F) HEAT DETECTOR, CEILING MOUNTED. SMD - SMOKE DETECTOR, DUCT TYPE COMPLETE WITH SAMPLING TUBES AND REMOTE KEY TEST SWITCH INDICATOR LIGHT. INSTALL IN AIR HANDLING UNIT OR DUCT AS RECOMMENDED BY RESPECTIVE MANUFACTURER AND COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. REMOTE KEY TEST SWITCH SHALL BE INSTALLED IN CEILING AS CLOSE AS POSSIBLE TO DETECTOR LOCATION, UNLESS OTHERWISE NOTED. SMP - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED. SMP/S12 - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 512HZ SOUNDER BASE.
	PUSH BUTTON. REFER TO DRAWINGS FOR DETAILS.		FIRE ALARM SYSTEM NOTIFICATION DEVICE, WALL-MOUNTED AT 82" AFF TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES TYPE. NO - COMBINATION HORN / STROBE. SUBSCRIPT - V - VISUAL-ONLY WP - WEATHERPROOF DEVICE CLG - CEILING-MOUNTED
	SPECIAL PUSH BUTTON STATION. REFER TO DRAWINGS FOR DETAILS.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (CONTROL TYPE).
	MANUAL MOTOR STARTER WITH NEON PILOT LIGHT, ALLEN-BRADLEY #600TQX216. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (INDIVIDUAL TYPE).
	UTILITY METER. REFER TO DETAILS.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (MONITOR TYPE).
	208/120V, 3Ø, 4W PANELBOARD. REFER TO PANELBOARD SCHEDULE AND/OR SPECIFICATIONS FOR DETAILS.		FIRE ALARM SYSTEM CONTROL PANEL.
	DISTRIBUTION PANEL. REFER TO PANELBOARD SCHEDULE AND/OR SPECIFICATIONS FOR DETAILS.		FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL.
			SPRINKLER SYSTEM TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. VERIFY LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
			SPRINKLER SYSTEM FLOW SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. VERIFY LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
			FLUSH-MOUNTED COMMUNICATIONS OUTLET BOX. USE 5" SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL). REFER TO TYPICAL FLUSH COMMUNICATIONS OUTLET ROUGH-IN DETAIL.
			SURFACE-MOUNTED COMMUNICATIONS OUTLET BOX. USE 5" SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL). REFER TO TYPICAL SURFACE COMMUNICATIONS OUTLET ROUGH-IN DETAIL.
			COMMUNICATIONS CEILING OUTLET. THIS OUTLET IS TO FLOAT ABOVE CEILING OR WITHIN AN EQUIPMENT ENCLOSURE AS NOTED. THIS OUTLET REQUIRES NO CONDUIT BOX ROUGH-IN WHERE INSTALLED IN ACCESSIBLE CEILING. WHERE INSTALLED IN NON-ACCESSIBLE CEILING OR EXPOSED CEILING, USE 4" SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL) WITH 1-GANG REDUCER RING. PROVIDE 1" C FROM SAME TO NEAREST ACCESSIBLE AREA ABOVE FINISHED CEILING. WAP - WIRELESS ACCESS POINT.
			FLUSH-MOUNTED BOX FOR FIRE ALARM ALERTING SYSTEM VOLUME CONTROL STATION. USE 5" SQ X 4" DEEP BACK BOX (BY RANDL OR EQUAL). MOUNT AT 48" AFF. EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. COORDINATE WITH OWNER'S VENDOR.
			SURFACE-MOUNTED BOX FOR FIRE ALARM ALERTING SYSTEM VOLUME CONTROL STATION. USE 5" SQ X 4" DEEP BACK BOX (BY RANDL OR EQUAL). MOUNT AT 48" AFF. EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. COORDINATE WITH OWNER'S VENDOR.
			FLUSH-MOUNTED BOX FOR FIRE ALARM ALERTING SYSTEM STROBE LIGHT. USE 2-GANG BACK BOX (BY RANDL OR EQUAL). MOUNT AT 78" AFF. EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. COORDINATE WITH OWNER'S VENDOR.
			SURFACE-MOUNTED BOX FOR FIRE ALARM ALERTING SYSTEM CEILING SPEAKER. USE 5" SQ X 3" DEEP BACK BOX (BY RANDL OR EQUAL). EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. COORDINATE WITH OWNER'S VENDOR.
			SURFACE-MOUNTED BOX FOR FIRE ALARM ALERTING SYSTEM WALL SPEAKER. USE 5" SQ X 3" DEEP BACK BOX (BY RANDL OR EQUAL). MOUNT AT 78" AFF. EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. COORDINATE WITH OWNER'S VENDOR.
			CEILING-MOUNTED SECURITY CAMERA. WHERE LOCATED ON INACCESSIBLE OR EXPOSED CEILING, PROVIDE FLUSH ROUND CEILING BACK BOX AND EXTEND 1" C TO NEAREST ACCESSIBLE CEILING. WHERE LOCATED ON ACCESSIBLE CEILING, CONDUIT BOX ROUGH-IN IS NOT REQUIRED.
			WALL-MOUNTED SECURITY CAMERA. FOR INTERIOR LOCATIONS, USE 5" SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL) WITH 1-GANG REDUCER RING. FOR EXTERIOR LOCATIONS, USE A 1-GANG OUTDOOR RATED BACK BOX. EXTEND 1" C TO ACCESSIBLE INTERIOR CEILING. WEATHERSEAL AS REQUIRED. COORDINATE HEIGHT WITH OWNER'S SECURITY VENDOR.

ABBREVIATION LEGEND

SYMBOL	DESCRIPTION
#"	NUMBER INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINISHED GRADE
'C'	SUBSCRIPT 'C' INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP TO CENTERLINE.
CLG	CEILING
COFFEE	COFFEE MACHINE
DP	DISTRIBUTION PANEL
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	GALVANIZED ELECTRIC METALLIC TUBING (THINWALL). UL LISTED
FBO	FURNISHED BY OTHER TRADES, BUT INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
FFC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED, RIGID, HEAVY WALL CONDUIT, UL LISTED
H	DEVICE MOUNTED HORIZONTALLY.
MC	MECHANICAL CONTRACTOR (HVAC)
MICRO	MICROWAVE
N	NORMAL BRANCH CIRCUIT
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
PAN	PANELBOARD
PC	PLUMBING CONTRACTOR
PROJ	PROJECTOR. MOUNT RECEPTACLE FACEPLATE FLUSH WITH CEILING TILE. DO NOT MOUNT ABOVE CEILING.
PVC	CARLON PLASTIC CONDUIT, HEAVY WALL TYPE, POLYVINYL CHLORIDE, UL LISTED, SCHEDULE 40 UNLESS NOTED OTHERWISE.
REF	REFRIGERATOR
SPD	SURGE PROTECTION DEVICE
TR	TAMPER RESISTANT
TV	TELEVISION. COORDINATE HEIGHT WITH ARCHITECT.
UC	DEVICE MOUNTED UNDERCOUNTER.
VEND	VENDING MACHINE. CONNECT TO GFI-TYPE CIRCUIT BREAKER.
WP	WEATHERPROOF

ELECTRICAL GENERAL NOTES

- THE GENERAL NOTES LISTED HERE APPLY TO ALL ELECTRICAL DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
- SEE CODED NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
- FIELD VERIFY EXISTING CONDITIONS.
- COORDINATE ELECTRICAL WORK WITH ALL CONTRACTORS ON SITE (GENERAL TRADES, PLUMBING, FIRE PROTECTION, HVAC, ETC) PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK.
- THE ELECTRICAL DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, LIGHTING, AND DEVICES UNLESS DIMENSIONS ARE GIVEN FOR CLEARANCES, ETC. LIGHTING DEVICES AND ELECTRICAL EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFIRMED WITHIN THE ACTUAL WORK AREA. CONTRACTORS, IN THEIR BIDS, ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN ELECTRICAL INSTALLATION TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT, OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
- PHASING - SEE DIVISION 1 PROJECT SPECIFICATION PHASING DOCUMENTS FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER WITH OTHER TRADES.
- E. C. IS TO COORDINATE ALL MASONRY PENETRATION LOCATIONS AND SIZES WITH G.C.
- POWER AND TELECOM RISER PULL BOXES MAY NOT BE SHOWN. PROVIDE PULL BOXES AT LOCATIONS REQUIRED. IN NO CASE SHALL A FEEDER CONDUIT HAVE BENDS OF MORE THAN 270° WITHOUT THE INSTALLATION OF A PULL BOX.
- PROVIDE FIRESEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS AND ASSEMBLIES. SEE DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- E.C. TO COORDINATE ELECTRICAL AND TELECOMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. IF ELEVATIONS ARE NOT PROVIDED ON DOCUMENTS, E.C. SHALL COORDINATE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT. DEVICE REQUIRED TO BE RELOCATED DUE TO LACK OF COORDINATION WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
- FOR NORMAL BRANCH CIRCUIT WIRING, CONTRACTOR MAY COMBINE UP TO THREE HOMERUNS IN ONE RACEWAY ON A WYE SYSTEM AND TWO HOMERUNS IN ONE RACEWAY ON A DELTA SYSTEM. #12 AVG MINIMUM SIZE CONDUCTORS UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN CIRCUITS. REFER TO SPECIFICATIONS FOR RACEWAY TYPE.



1027 Mt. DeChantal Rd.
Wheeling, WV 26003
Ph: (304) 242-8248
Fax: (304) 242-8249

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DATE: 2/3/2022
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DRAWING STATUS
DESIGN STAGE:
 SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DRAWINGS
 RELEASED FOR:
 REVIEW
 BIDDING
 CONSTRUCTION

CITY OF WHEELING
W.F.D. - FIRE HEADQUARTERS
 168 17TH STREET, WHEELING, WV 26003
NOTES & LEGENDS - ELECTRICAL

REVISION	

DRAWN BY: Author	CHECKED BY: Checker
PROJECT NO: 20-108B	
SCALE: AS NOTED	DATE: 2/3/2022

SHEET
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PLAN NOTES

A. SITE BRANCH CIRCUITS SHALL BE #10AWG IN 3/4" AT 36" BFG UNLESS OTHERWISE NOTED.

CODED NOTES

1. UNDERGROUND PRIMARY DUCTBANK. REFER TO SECTION DETAIL.
2. NEW UTILITY POLE. TURN UP DUCTBANK AT BASE WITH LONG-SWEEP ELBOWS.
3. RECEPTACLE FOR DIESEL VEHICLE BLOCK HEATER. PROVIDE UNISTRUT MOUNTING STAND. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. 1-1/4" FOR POLE-MOUNTED SECURITY CAMERA. STUB UP INTO ACCESSIBLE CEILING IN BUILDING AND TAG.

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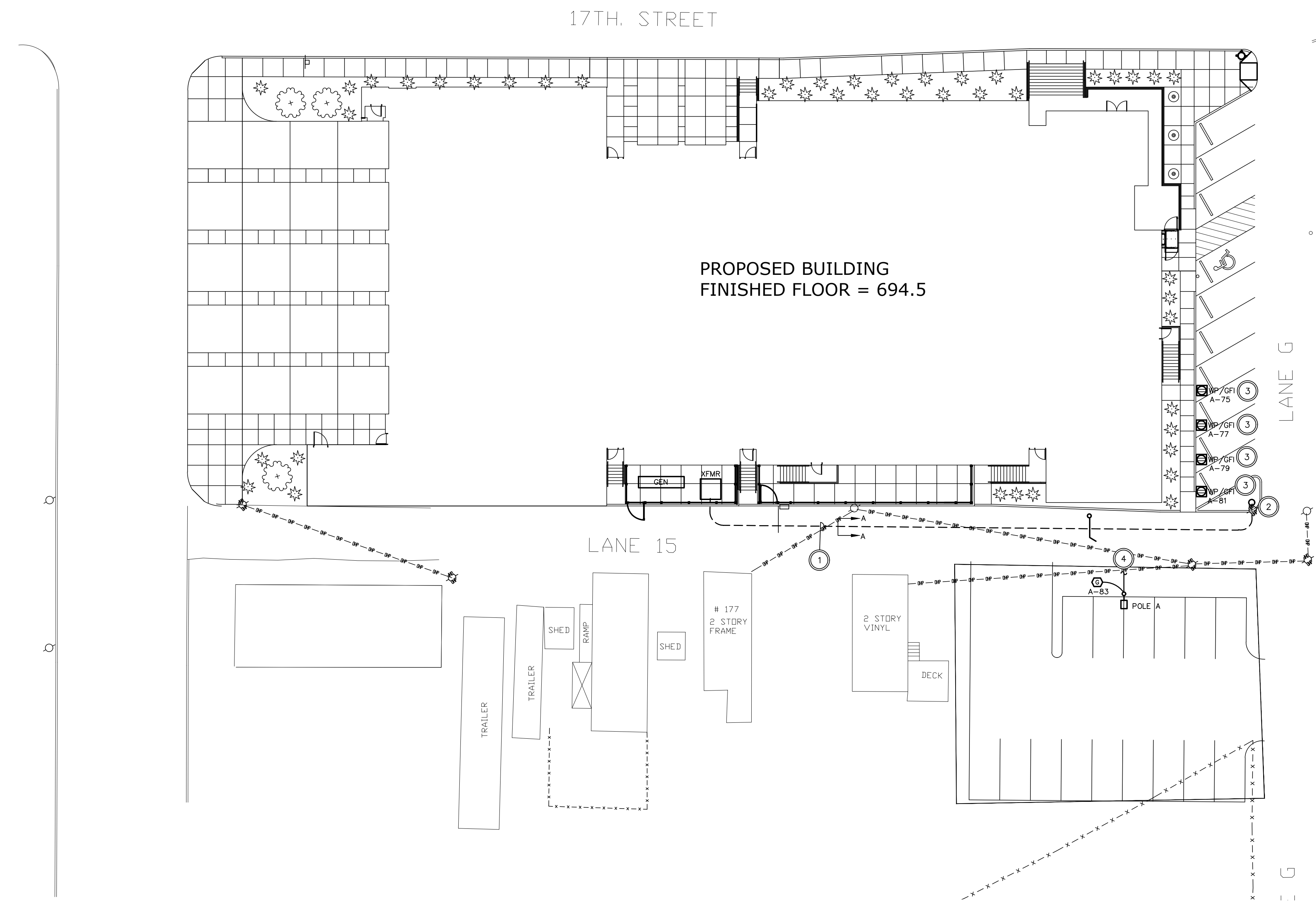
DRAWING STATUS

DESIGN STAGE

SCHEMATIC DESIGN
 DESIGN DEVELOPMENT
 CONSTRUCTION DRAWINGS

RELEASED FOR:

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 CONSTRUCTION



SITE PLAN - ELECTRICAL

0 20' 40'
 SCALE

N

CITY OF WHEELING
W.F.D. - FIRE HEADQUARTERS
 168 17TH STREET, WHEELING, WV 26003
 SITE PLAN - ELECTRICAL

REVISION	

DRAWN BY: P.E.K	CHECKED BY: K.M.N
PROJECT NO. 20-108B	
SCALE: AS NOTED	DATE: 2/3/2022

SHEET
ES.1

REVISION	

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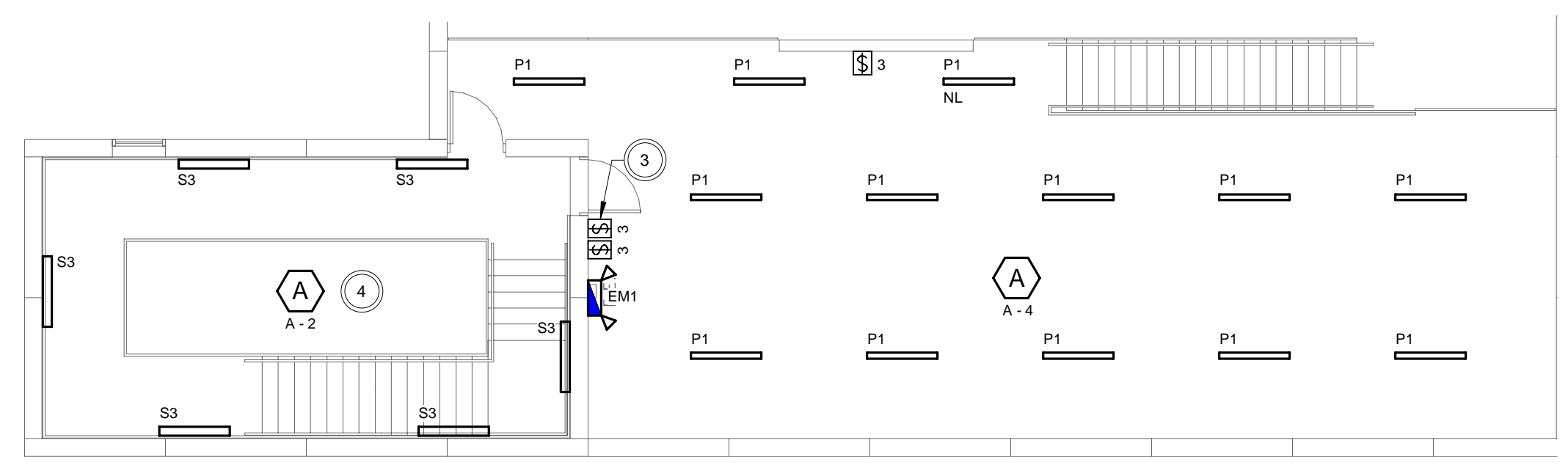
PLAN NOTES

- ALL DEVICES MOUNTED TO PRE-CAST CONCRETE PANELS SHALL BE SURFACE-MOUNTED. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- EXTERIOR WALL-MOUNTED LIGHT FIXTURE HEIGHTS AND LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

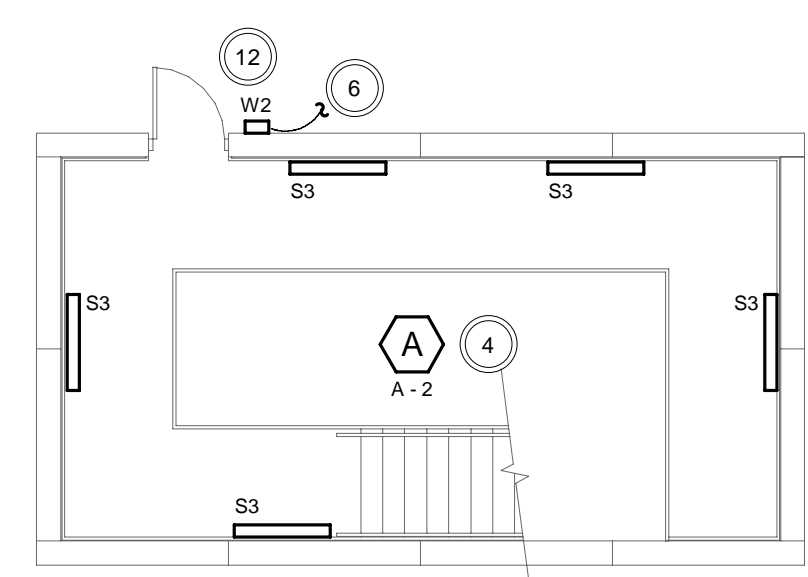
CODED NOTES

- RGBW LIGHTS MOUNTED HIGH IN LOBBY - COORDINATE EXACT MOUNTING DETAILS WITH ARCHITECT. DMX CONTROL STATION LOCATED AT RECEPTION DESK.
- DMX CONTROL STATION FOR ALL TYPE 'SSA' AND 'SSB' FIXTURES.
- LIGHT SWITCH FOR TOWER LIGHTING.
- WALL-MOUNTED FIXTURES IN THE TOWER SHALL BE 7' AFF UNLESS OTHERWISE NOTED.
- UP TO FIXTURE ON TOWER LANDING.
- DOWN TO FIXTURE BELOW.
- MOUNTED AT 15' ABOVE FIRST FLOOR ELEVATION TO BOTTOM OF FIXTURE.
- MOUNTED AT 22' ABOVE FIRST FLOOR ELEVATION TO BOTTOM OF FIXTURE.
- MOUNTED AT 10' ABOVE FIRST FLOOR ELEVATION TO BOTTOM OF FIXTURE.
- MOUNTED AT 2' ABOVE FIRST FLOOR ELEVATION TO BOTTOM OF FIXTURE.
- MOUNTED AT 2'-6" BELOW FIRST FLOOR ELEVATION TO TOP OF FIXTURE.
- MOUNTED AT 8' ABOVE FINISHED MEZZANINE FLOOR.
- MOUNTED AT 18' ABOVE FIRST FLOOR ELEVATION TO BOTTOM OF FIXTURE.
- MOUNTED ABOVE DOOR.
- POWER FOR EXTERIOR WALL-MOUNTED BACK LIT LETTERING. COORDINATE EXACT LOCATION WITH ARCHITECT AND MANUFACTURER.
- RGBW LIGHTS MOUNTED ABOVE OVERHEAD DOORS (TYPICAL FOR ALL) - COORDINATE EXACT MOUNTING DETAILS WITH ARCHITECT. DMX CONTROL STATION LOCATED AT RECEPTION DESK.

ROOM LEGEND	
100	VESTIBULE
101	LOBBY
102	TREATMENT ROOM
103	RECEPTION
104	CORRIDOR
105	UNISEX R.R.
106	UNISEX R.R.
107	CORRIDOR
108	TRAINING ROOM
109	TRAINING SIMULATION
110	STORAGE
111	KITCHENETTE
112	WAITING AREA/ADMIN. ASSIST.
113	FILE ROOM
114	CONFERENCE ROOM
115	CHIEF OFFICE
116	BUNK ROOM
117	SHOWER ROOM
118	INVESTIGATOR OFFICE
119	EVIDENCE
120	INVESTIGATOR OFFICE
121	WORK ROOM
122	INSPECTOR OFFICE
123	CORRIDOR
124	UNISEX R.R.
125	UNISEX R.R.
126	EMERGENCY
127	TRAINING OFFICE
128	CORRIDOR
129A	FITNESS ROOM
129B	FITNESS STORAGE
130	KITCHEN/DINING ROOM
131	UNISEX R.R.
132	JANITOR CLOSET
133	STOR.
134	BUNK ROOM
135	SHOWER ROOM
136	BUNK ROOM
137	SHOWER ROOM
138	BUNK ROOM
139	SHOWER ROOM
140	BUNK ROOM
141	SHOWER ROOM
142	BUNK ROOM
143	SHOWER ROOM
144	BUNK ROOM
145	SHOWER ROOM
146	LAUNDRY ROOM
147	IT SERVER ROOM
148	INSPECTOR OFFICE
149	STAFF LOCKERS
150	SHOWER ROOM
151A	HONOR GUARD STOR.
151B	ELECT. CLOSET
152	CAPTAIN OFFICE
153	BUNK ROOM
154	SHOWER ROOM
155	CAPTAIN OFFICE
156	BUNK ROOM
157	SHOWER ROOM
158	CAPTAIN OFFICE
159	BUNK ROOM
160	SHOWER ROOM
161	REPORT WRITING
162	VESTIBULE
163	CORRIDOR
164	CORRIDOR
165	CORRIDOR
166	UNISEX R.R.
167A	CORRIDOR
167B	MECH. CLOSET
167C	ELECT. CLOSET
168	VESTIBULE
169	CORRIDOR
170A	MECHANICAL ROOM
170B	ELECTRICAL ROOM
171	UNISEX R.R.
172	EMS STORAGE
173A	CLEAN/DECON
173B	SHOW. ROOM
174	TGS LAUNDRY
175	QUARTERMASTER
176	LOW VEHICLE BAY
177	HIGH APPARATUS BAY
178	TGS
179	FIRE EQUIP. STOR.
180	WORKSHOP/TOOL STOR.
181	TRAINING TOWER



LIGHTING - MEZZANINE FLOOR PLAN - ELECTRICAL
 1/8" = 1'-0"



LIGHTING - TOWER FLOOR PLAN - ELECTRICAL
 1/8" = 1'-0"



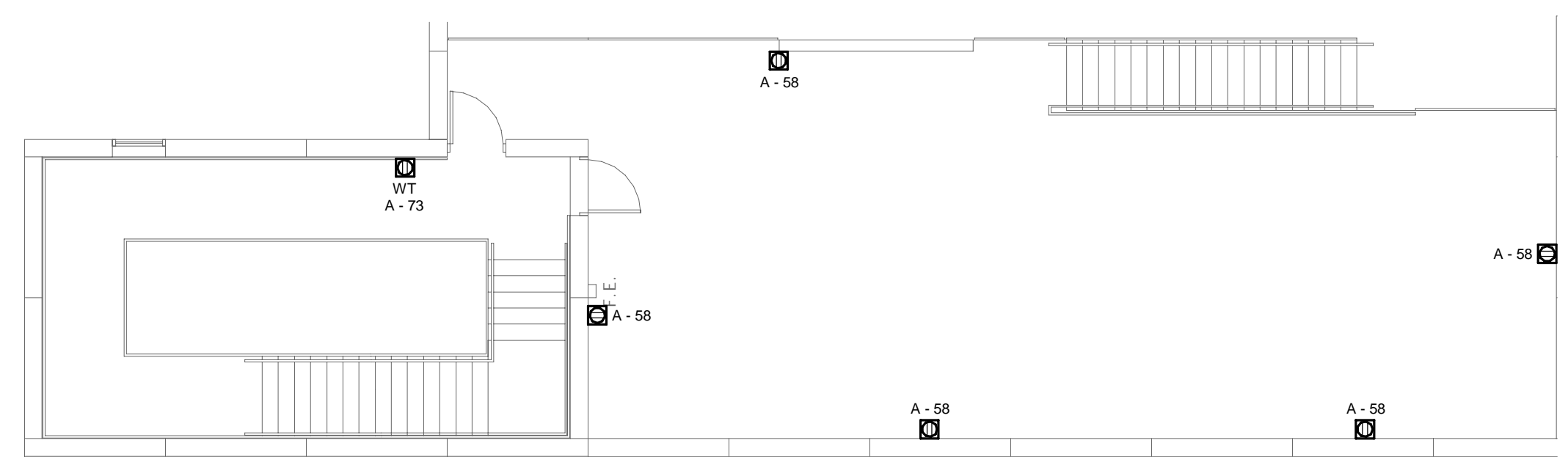
PLAN NOTES

A. ALL DEVICES MOUNTED TO PRE-CAST CONCRETE PANELS SHALL BE SURFACE-MOUNTED. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS.

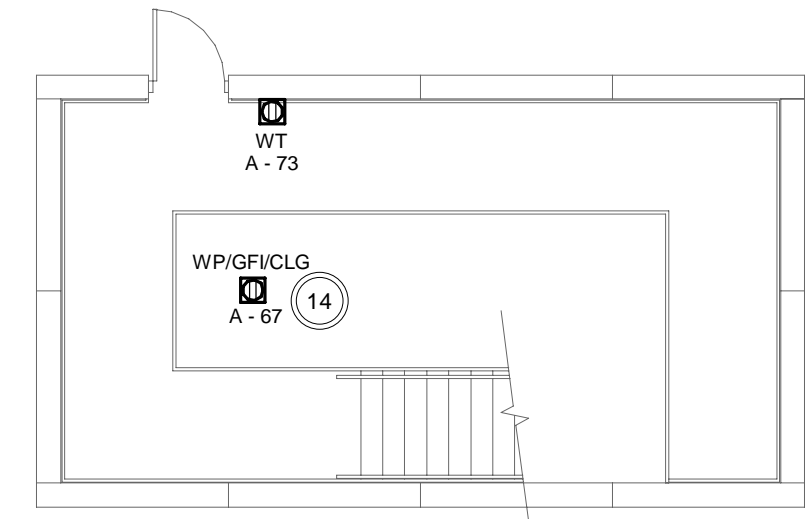
CODED NOTES

- RECEPTACLE FOR MIXING VALVE. COORDINATE LOCATION WITH PC
- MOUNTED JUST BELOW COUNTERTOP. COORDINATE LOCATION WITH ARCHITECT.
- NEMA 6-30R RECEPTACLE FOR DRYER. CONNECT TO PANEL WITH (2)#10, (1)#10G IN 3/4" C.
- GENERATOR BLOCK HEATER (2400W, 208V, 1PH).
- GENERATOR BATTERY CHARGER (120V).
- NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO PANEL WITH (3)#8, (1)#10G IN 3/4" C.
- NEMA 6-30R OUTLET FOR SALINA (2890 WATTS, 240V, 1PH). COORDINATE EXACT LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
- STORM SHELTER OVERHEAD DOOR (3/4HP, 120V, 1PH). PROVIDE 30A/1P TOGGLE SWITCH DISCONNECT ADJACENT TO MOTOR. PROVIDE DEDICATED 3/4" CONDUIT AND BACKBOX FOR WALL-MOUNTED CONTROL STATION - COORDINATE LOCATION WITH MANUFACTURER.
- RECEPTACLE FOR DISHWASHER SHALL BE LOCATED IN THE ADJACENT CABINET UNDER THE SINK.
- RECEPTACLE FOR UNDERCOUNTER MICROWAVE. COORDINATE LOCATION WITH ARCHITECT.
- POWER CONNECTION TO LIFT STATION (120V, 1PH, INTEGRAL DISCONNECT). COORDINATE EXACT LOCATION WITH MANUFACTURER.
- RECEPTACLE FOR BABY BOX. COORDINATE LOCATION WITH ARCHITECT.
- CEILING-MOUNTED RECEPTACLE FOR CHAIN HOIST. COORDINATE LOCATION WITH ARCHITECT.
- BOILER OUTSIDE AIR DAMPERS (120V). COORDINATE EXACT LOCATIONS WITH MC.

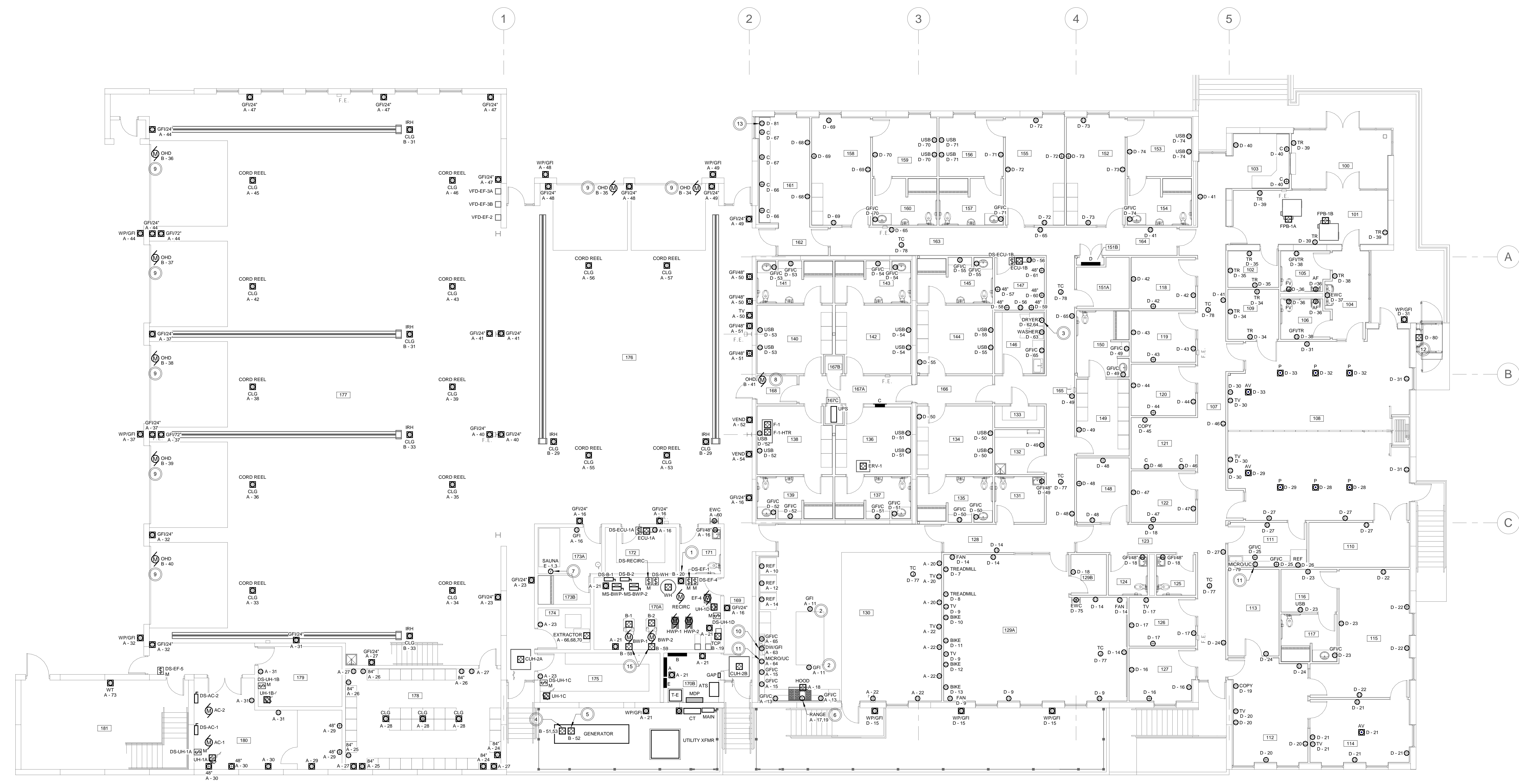
ROOM LEGEND		ROOM LEGEND	
100	VESTIBULE	143	SHOWER ROOM
101	LOBBY	144	BUNK ROOM
102	TREATMENT ROOM	145	SHOWER ROOM
103	RECEPTION	146	LAUNDRY ROOM
104	CORRIDOR	147	IT SERVER ROOM
105	UNISEX R.R.	148	INSPECTOR OFFICE
106	UNISEX R.R.	149	STAFF LOCKERS
107	CORRIDOR	150	SHOWER ROOM
108	TRAINING ROOM	151A	HONOR GUARD STOR.
109	TRAINING SIMULATION	151B	ELECT. CLOSET
110	STORAGE	152	CAPTAIN OFFICE
111	KITCHENETTE	153	BUNK ROOM
112	WAITING AREA/ADMIN. ASSIST.	154	SHOWER ROOM
113	FILE ROOM	155	CAPTAIN OFFICE
114	CONFERENCE ROOM	156	BUNK ROOM
115	CHIEF OFFICE	157	SHOWER ROOM
116	BUNK ROOM	158	CAPTAIN OFFICE
117	SHOWER ROOM	159	BUNK ROOM
118	INVESTIGATOR OFFICE	160	SHOWER ROOM
119	EVIDENCE	161	REPORT WRITING
120	INVESTIGATOR OFFICE	162	VESTIBULE
121	WORK ROOM	163	CORRIDOR
122	INSPECTOR OFFICE	164	CORRIDOR
123	CORRIDOR	165	CORRIDOR
124	UNISEX R.R.	166	CORRIDOR
125	UNISEX R.R.	167A	CORRIDOR
126	EMS OFFICE	167B	MECH. CLOSET
127	TRAINING OFFICE	167C	ELECT. CLOSET
128	CORRIDOR	168	VESTIBULE
129A	FITNESS ROOM	169	CORRIDOR
129B	FITNESS STORAGE	170A	MECHANICAL ROOM
130	KITCHEN/DINING ROOM	170B	ELECTRICAL ROOM
131	UNISEX R.R.	171	UNISEX R.R.
132	JANITOR CLOSET	172	EMS STORAGE
133	STOR.	173A	CLEAN/DECON
134	BUNK ROOM	173B	SHOW. ROOM
135	SHOWER ROOM	174	TGS LAUNDRY
136	BUNK ROOM	175	QUARTERMASTER
137	SHOWER ROOM	176	LOW VEHICLE BAY
138	BUNK ROOM	177	HIGH APPARATUS BAY
139	SHOWER ROOM	178	TGS
140	BUNK ROOM	179	FIRE EQUIP. STOR.
141	SHOWER ROOM	180	WORKSHOP/TOOL STOR.
142	BUNK ROOM	181	TRAINING TOWER



POWER - MEZZANINE FLOOR PLAN - ELECTRICAL
 1/8" = 1'-0"



POWER - TOWER FLOOR PLAN - ELECTRICAL
 1/8" = 1'-0"



POWER - FIRST FLOOR PLAN - ELECTRICAL
 1/8" = 1'-0"

DRAWING STATUS

DESIGN STAGE:

- SCHEMATIC DESIGN
- DESIGN DEVELOPMENT
- CONSTRUCTION DRAWINGS

RELEASED FOR:

- REVIEW
- BIDDING
- CONSTRUCTION

PRELIMINARY
 DO NOT USE FOR CONSTRUCTION
 DATE: 2/3/2022
 Schesher Buckley S-M Mayfield

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CITY OF WHEELING
W.F.D. - FIRE HEADQUARTERS
 168 17TH STREET, WHEELING, WV 26003
POWER - FIRST FLOOR PLAN - ELECTRICAL

REVISION

NO.	DESCRIPTION

DRAWN BY: Author
 CHECKED BY: Checker


PROJECT NO: 20-108B

SCALE: AS NOTED
 DATE: 2/3/2022

SHEET
E2.1

PLAN NOTES	
A.	
B.	
C.	
D.	

CODED NOTES	
1.	RECEPTACLE INTEGRAL TO RTU.
2.	PROVIDE UNISTRUT MOUNTING FOR DISCONNECT SWITCH AND/OR RECEPTACLE.

PRELIMINARY
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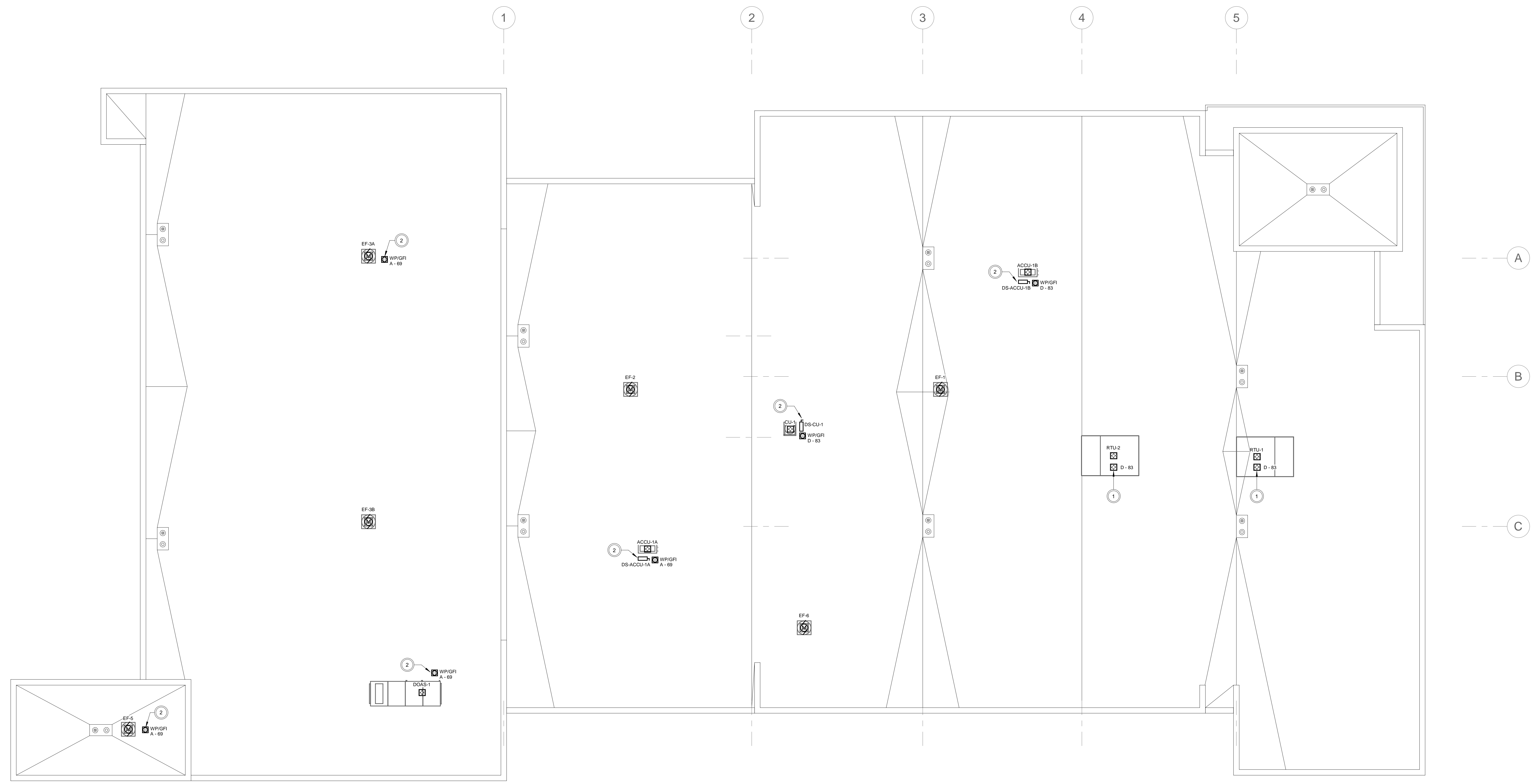
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CITY OF WHEELING
W.F.D. - FIRE HEADQUARTERS
 168 17TH STREET, WHEELING, WV 26003
POWER - ROOF PLAN - ELECTRICAL

REVISION	

DRAWN BY: Author	CHECKED BY: Checker
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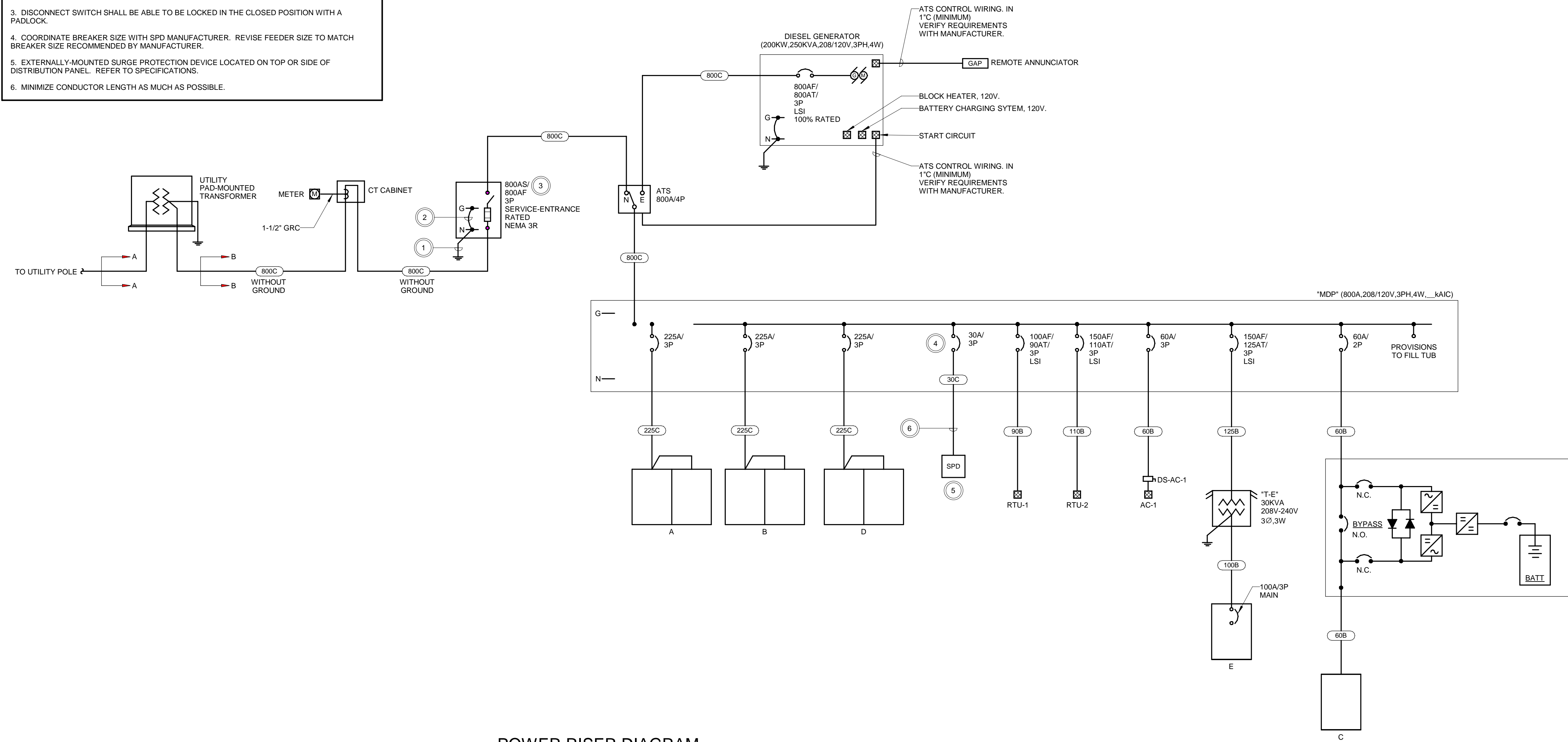
SHEET
E2.2



POWER - ROOF PLAN - ELECTRICAL
 1/8" = 1'-0"

CODED NOTES

- SERVICE ENTRANCE GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTOR. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- BOND NEUTRAL AND GROUND AT SERVICE ENTRANCE. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- DISCONNECT SWITCH SHALL BE ABLE TO BE LOCKED IN THE CLOSED POSITION WITH A PADLOCK.
- COORDINATE BREAKER SIZE WITH SPD MANUFACTURER. REVISE FEEDER SIZE TO MATCH BREAKER SIZE RECOMMENDED BY MANUFACTURER.
- EXTERNALLY-MOUNTED SURGE PROTECTION DEVICE LOCATED ON TOP OR SIDE OF DISTRIBUTION PANEL. REFER TO SPECIFICATIONS.
- MINIMIZE CONDUCTOR LENGTH AS MUCH AS POSSIBLE.



POWER RISER DIAGRAM

N.T.S.

STANDARD FEEDER SCHEDULE

FEEDER NO.	WIRE SIZE AMPS NOMINAL FEEDER SIZE (AMPS)	CONDUCTOR SIZE (AWG)		CONDUIT SIZE		
		PHASE/ NEUTRAL	GROUND	A	B	C
				W/G	W/G	W/G
		CU	CU	CU	CU	CU
15	15	12	12	3/4"	3/4"	3/4"
20	20	12	12	3/4"	3/4"	3/4"
25	25	10	10	3/4"	3/4"	3/4"
30	30	10	10	3/4"	3/4"	3/4"
35	35	8	10	3/4"	3/4"	3/4"
40	40	8	10	3/4"	3/4"	3/4"
45	45	8	10	3/4"	3/4"	3/4"
50	50	8	10	3/4"	3/4"	3/4"
60	60	6	10	3/4"	3/4"	1"
70	70	4	8	1"	1"	1-1/2"
80	80	4	8	1"	1"	1-1/2"
90	90	3	8	1"	1-1/2"	1-1/2"
100	100	2	8	1"	1-1/2"	1-1/2"
110	110	2	6	1"	1-1/2"	1-1/2"
125	125	1	6	1-1/2"	1-1/2"	1-1/2"
150	150	1/0	6	1-1/2"	1-1/2"	2"
175	175	2/0	6	1-1/2"	2"	2"
200	200	3/0	6	1-1/2"	2"	2"
225	225	4/0	4	2"	2"	2"
250	250	4	4	2"	2-1/2"	2-1/2"
300	300	350	4	2-1/2"	3"	3"
350	350	500	3	3"	3"	3"
400	400	500	3	3"	3"	3"
450	450	4/0	2	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2-1/2"
500	500	250	2	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"
600	600	350	1	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"
700	700	500	1/0	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"
800	800	350	1/0	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"	3 PARALLEL RUNS OF 3"

LIGHTING FIXTURE SCHEDULE

NOTES:

- ALL FIXTURE FINISHES TO BE SELECTED BY ARCHITECT.
- "NL" SUBSCRIPT INDICATES THAT THE FIXTURE IS CONNECTED TO AN UNSWITCHED CIRCUIT FOR "NIGHT LIGHT" ILLUMINATION.
- "EM" SUBSCRIPT INDICATES THAT THE FIXTURE IS CONNECTED TO AN EMERGENCY POWER SOURCE FOR EMERGENCY ILLUMINATION.
- PROVIDE LUMINAIRE DISCONNECT SWITCH, POWER PLUG OR EQUAL IN ACCORDANCE WITH NEC 410.103.
- VERIFY CEILING TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE MOUNTING TYPE AS REQUIRED TO ACCOMMODATE THE CEILING. (i.e. FLANGE OR GRID MOUNT).
- CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECT.
- PROPOSED EQUAL FIXTURE CUTSHEETS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

SYMBOL	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP(S)	APPROVED EQUAL	POWER REQUIREMENT
D1	EV04-3007-AR-MD-LSS-MVOLT-GZ1	GOTHAM: EVO 4' APERTURE DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR AND FLANGE, MEDIUM DISTRIBUTION, 750 LUMENS, 3500K, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING DOWN TO 1%).	CEILING RECESSED	INTEGRAL LED	PRESCOLITE, PORTFOLIO, FOCAL POINT, INTENSE, PATHWAY, ACULUX, LIGHTOLIER, H.E. WILLIAMS	8 VA
D2	EV04-2707-WR-MD-MVOLT-GZ1	SAME AS D1, EXCEPT WHITE REFLECTOR AND FLANGE AND 2700K.	CEILING RECESSED	INTEGRAL LED	SAME AS D1	8 VA
D3	EV04SH-3510-DFR-SQL-MVOLT-EZ10	GOTHAM: EVO 4' APERTURE SHOWER DOWNLIGHT, REGRESSED ACRYLIC LENS WITH NON-CONDUCTIVE "DEAD-FRONT" TRIM, 1000 LUMENS, 3500K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	CEILING RECESSED	INTEGRAL LED	SAME AS D1	9 VA
EM1	ELM4L-UVOLT-LTP	LITHONIA: QUANTUM EMERGENCY REMOTE FIXTURE WITH (2) ADJUSTABLE LED HEADS, 640 LUMENS, WHITE FINISH, LITHIUM IRON PHOSPHATE BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT 7' AFF	INTEGRAL LED	DUAL-LITES, EMERGLITE, SURE-LITES, EXTRONIX, CHLORIDE, EVENLITE	2 VA
EM2	ELMRW-LP220L-TBD-T	LITHONIA: QUANTUM EMERGENCY REMOTE FIXTURE WITH (2) ADJUSTABLE LED HEADS, 110 LUMENS EACH, WET LOCATION LISTED, CONNECT TO EXIST SIGN WITH HIGH-OUTPUT BATTERY PER DETAIL.	WALL OR CEILING SURFACE AS INDICATED ON PLANS	INTEGRAL LED	SAME AS EM1	2 VA
EM3	ELM6L-UVOLT-LTP	SAME AS EM1, EXCEPT 1100 LUMENS	WALL SURFACE AT 10' AFF	INTEGRAL LED	SAME AS EM1	2 VA
EX1	LHQM-LED-R	LITHONIA: QUANTUM EXIT SIGN WITH (2) ADJUSTABLE LED HEADS, WHITE THERMOPLASTIC HOUSING, RED LETTERS, NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL OR CEILING SURFACE AS INDICATED ON PLANS	INTEGRAL LED	DUAL-LITES, EMERGLITE, SURE-LITES, EXTRONIX, CHLORIDE, EVENLITE	2 VA
EX2	LHQM-LED-R-HO	SAME AS EX1, EXCEPT WITH HIGH-OUTPUT BATTERY FOR CONNECTION TO REMOTE HEAD	WALL OR CEILING SURFACE AS INDICATED ON PLANS	INTEGRAL LED	SAME AS EX1	2 VA
EX3	WLTC-1-R	LITHONIA: WET LOCATION EXIT SIGN WITH TWO EMERGENCY HEADS, WHITE THERMOPLASTIC HOUSING, CLEAR POLYCARBONATE LENS, RED LETTERS, NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE ABOVE DOOR	INTEGRAL LED	SAME AS EX1	2 VA
P1	ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-WH-HC36	LITHONIA: Z-SERIES STRIP FIXTURE, 4' LONG, STEEL HOUSING, FROSTED ACRYLIC LENS, 3000 LUMENS, 3500K, AND (1) MULTI-VOLT LED DRIVER.	CHAIN SUSPENDED	INTEGRAL LED	EATON, HUBBELL, H.E. WILLIAMS, COOPER, SIGNIFY	25 VA
P2	CAMPSIB-PMO-LED-80-750-35-8020-8FT-UNV-D1-1-55WAC18	LUMENWERX: CAMBER SIB DIRECT/INDIRECT LINEAR SUSPENDED FIXTURE, 8-3/4" WIDE x 8' LONG x 1-1/2" DEEP, EXTRUDED ALUMINUM HOUSING WITH ACRYLIC CENTER LENS, 750 LUMENS PER FOOT, 80% DOWN, 20% UP DISTRIBUTION, 3500K, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING DOWN TO 1%).	AIRCRAFT CABLE SUSPENDED AT 18" BELOW CEILING	INTEGRAL LED	SEE NOTE 7	60 VA
P3	IGB-18000LM-SEF-AFL-GND-MVOLT-GZ10-40K-80CRI-TBD-HBBS36	LITHONIA: I-BEAM HIGH BAY FIXTURE, 25.6' LONG, 15.5' WIDE, 2.6' DEEP, FROSTED ACRYLIC LENS, 18000 LUMENS, 4000K, AND (1) MULTI-VOLT LED DRIVER.	CHAIN SUSPENDED AT HEIGHT INDICATED ON PLANS	INTEGRAL LED	106 VA	
P4	IGB-12000LM-SEF-AFL-GND-MVOLT-GZ10-40K-80CRI-TBD-HBBS36	SAME AS P3, EXCEPT 12000 LUMENS AND 12' WIDE.	CHAIN SUSPENDED AT HEIGHT INDICATED ON PLANS	INTEGRAL LED	77 VA	
P5	ZL1N-L24-2500LM-FST-MVOLT-35K-80CRI-WH-HC36	SAME AS P1, EXCEPT 2' LONG.	CHAIN SUSPENDED	INTEGRAL LED	SAME AS P1	19 VA
P6	RIMMTP-TR2-3+4-ULO-SV-90-8800-13000-17100-35-UNV-D1-1C-RDB-TBD	LUMENWERX: RM MULTIPLE TRIANGLE PENDANT, (3) TRIANGLE SHAPED FIXTURES WITH INNER LENS (2, 3 AND 4 SIZES) SUSPENDED IN STACKED GEOMETRIC PATTERN, 3500K, AND MULTI-VOLT 0-10V LED DRIVER, REMOTE-MOUNTED. COORDINATE EXACT CONFIGURATION WITH ARCHITECT.	AIRCRAFT CABLE SUSPENDED	INTEGRAL LED	0 VA	
POLE A	FIXTURE: DSX0-LED-P2-40K-T4M-MVOLT-SPA-HS-TBD, POLE: SSS-2P-4C-20S18AS1P	LITHONIA: D-SERIES SIZE 0 AREA FIXTURE, TYPE IV MEDIUM DISTRIBUTION, 4000K, 8700 LUMENS, AND (1) MULTI-VOLT LED DRIVER, MOUNTED ON 2" SQUARE STEEL POLE WITH HANGHOLE AND BASE COVER.	RAISED CONCRETE BASE	INTEGRAL LED	EATON, HUBBELL, LSI, PHILIPS	70 VA
R1	EPANL-2X4-4000LM-80CRI-35K-MINI-ZT-MVOLT	LITHONIA: EPANL FLAT-PANEL FIXTURE, 2' x 4' WHITE ACRYLIC LENS IN ALUMINUM FRAME, 4000 LUMENS, 3500K, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING DOWN TO 1%).	CEILING RECESSED	INTEGRAL LED	EATON, HUBBELL, H.E. WILLIAMS, COOPER, SIGNIFY	38 VA
R2A	EPANL-2X2-2000LM-80CRI-35K-MINI-ZT-MVOLT	LITHONIA: EPANL FLAT-PANEL FIXTURE, 2' x 2' WHITE ACRYLIC LENS IN ALUMINUM FRAME, 2000 LUMENS, 3500K, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING DOWN TO 1%).	CEILING RECESSED	INTEGRAL LED	SAME AS R1	19 VA
R2B	EPANL-2X2-3400LM-80CRI-35K-MINI-ZT-MVOLT	SAME AS R2A, EXCEPT 3400 LUMENS	CEILING RECESSED	INTEGRAL LED	SAME AS R1	30 VA
R2C	WHSR-2X2-80CRI-35K-3300LM-MINI-MVOLT-SVC-ZT	MARK ARCHITECTURAL- WHSPER SERIES TROFFER, 2' x 2' x 4-1/2" DEEP, WHITE ACRYLIC SIDE PANELS AND CENTER SQUARE PANEL, 3300 LUMENS, 3500K, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING DOWN TO 1%).	CEILING RECESSED	INTEGRAL LED	LITECONTROL, LEDALITE, FINELITE, LUMAX, CURRENT, PINNACLE	30 VA
S1	EPANL-2X4-3000LM-80CRI-35K-MINI-ZT-MVOLT-2XASMSKH	SAME AS R1, EXCEPT 3000 LUMENS AND SURFACE MOUNTED.	CEILING SURFACE	INTEGRAL LED	SAME AS R1	29 VA
S2	EPANL-2X2-3400LM-80CRI-35K-MINI-ZT-MVOLT-2X2SMKSH	SAME AS R2A, EXCEPT SURFACE MOUNTED.	CEILING SURFACE	INTEGRAL LED	SAME AS R1	19 VA
S3	FEM-L48-4000LM-LP-AFL-MD-MVOLT-GZ10-35K-80CRI	LITHONIA: ENCLOSED AND GASKETED INDUSTRIAL FIXTURE, 4' LONG, FIBERGLASS HOUSING WITH FROSTED ACRYLIC LENS, 4000 LUMENS, MEDIUM DISTRIBUTION, 3500K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	CEILING SURFACE	INTEGRAL LED	EATON, HUBBELL, H.E. WILLIAMS, COOPER, SIGNIFY	24 VA
S4	ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-WH	SAME AS P1, EXCEPT SURFACE MOUNTED	WALL OR CEILING SURFACE AS INDICATED ON PLANS	INTEGRAL LED	SAME AS P1	25 VA
SSA	CLCV-4-RGBW-9W-110-CCL-4	SOLID STATE LUMINAIRE: COLOURLINE COVE RGBW FIXTURE WITH L/OVER, 2" WIDE x 4" DEEP x 4" LONG, 180 DEGREE FULL ROTATION, 110 DEGREE BEAM, AND (1) DMX DRIVER. PROVIDE WITH ALL STARTER CORDS, EXTENSION CORDS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM AS SHOWN ON THE DRAWINGS. PROVIDE WITH NICOLAUDIE "STICK-DE3" TOUCHSCREEN DMX CONTROLS FOR ALL FIXTURES ON THE PROJECT.	SURFACE-MOUNTED AS INDICATED ON DRAWINGS	INTEGRAL LED	WINONA, INSIGHT, COLOR KINETICS, LUMENPULSE	36 VA
SSB	CLCV-1-RGBW-9W-110-CCL-1	SAME AS SSA, EXCEPT 12" LONG	SURFACE-MOUNTED AS INDICATED ON DRAWINGS	INTEGRAL LED	SAME AS SSA	9 VA
W1	FMVCL-24IN-MVOLT-35K-80CRI-8N	LITHONIA: VANITY FIXTURE, 22-1/2" LONG, CYLINDRICAL HOUSING WITH WHITE ACRYLIC LENS, 1300 LUMENS, 3000K, BRUSHED NICKEL FINISH, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE ABOVE MIRROR	INTEGRAL LED	TERON, AFX, BROWNLEE	18 VA
W2	DSXW1-LED-10C-350-40K-T3S-MVOLT-TBD	LITHONIA: D-SERIES SIZE 1 WALL FIXTURE, 13-3/4" WIDE x 10" DEEP x 8-3/8" TALL, ALUMINUM HOUSING, TYPE III DISTRIBUTION, 1500 LUMENS, 4000K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT HEIGHT INDICATED ON PLANS	INTEGRAL LED	13 VA	
W3	22292-K4	BEGA: ARCHITECTURAL STEPLIGHT, ALUMINUM HOUSING, 6-1/4" WIDE, 6-1/4" TALL, 3-3/4" DEEP, 620 LUMENS, 4000K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE	INTEGRAL LED	10 VA	
W4	WDGE1-LED-P1-40K-80CRI-VF-MVOLT-TBD	LITHONIA: WDGE SERIES WALL FIXTURE, 9" WIDE, 5-1/2" DEEP, 8" TALL, ALUMINUM HOUSING, FORWARD THROW DISTRIBUTION, 1200 LUMENS, 4000K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT HEIGHT INDICATED ON PLANS	INTEGRAL LED	11 VA	

REVISION

PANEL NAME: A												
LOCATION: MAIN ELECTRICAL ROOM				VOLTAGE: 120/208 NP				A.I.C. RATING: 22K				
SUPPLIED FROM: MDP				PHASE: 3				MANS TYPE: MLO				
MOUNTING: SURFACE				WIRES: 4				MANS RATING: 225 A				
				MCB RATING: N/A								
NOTES: PANEL SHALL BE DOUBLE-TUB WITH 42 CIRCUITS PER TUB. PROVIDE SUB-FEED LUGS AS REQUIRED.												
CCT	LOAD NAME	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CCT	
1	LIGHTING - HIGH APPARATUS BAY		20A	1	1511 VA / 360 VA			1	20A	LIGHTING - TOWER	2	
3	LIGHTING - HIGH APPARATUS BAY		20A	1		1482 VA / 754 VA		1	20A	LIGHTING - INFRARED HEATERS TOWER, STORAGE, MEZZANINE	4	
5	LIGHTING - LOW VEHICLE BAY		20A	1			1537 VA / 402 VA	1	20A	LIGHTING - MECHANICAL ROOM, RESTROOM, STORAGE, RESTROOM LAUNDRY	6	
7	LIGHTING - DAYROOM, FITNESS, OFFICES, RESTROOMS		20A	1	998 VA / 122 VA			1	20A	LIGHTING - EXTERIOR ENTRY ENTRANCES, UTILITY YARD	8	
9	LIGHTING - EXTERIOR HIGH AND LOW VEHICLE DOORS		20A	1	157 VA / 1000 VA			1	20A	RECEPT - REFRIGERATOR	10	
11	RECEPT - KITCHEN ISLAND		20A	1		360 VA / 1000 VA		1	20A	RECEPT - REFRIGERATOR	12	
13	RECEPT - KITCHEN COUNTER		20A	1	360 VA / 1000 VA			1	20A	RECEPT - REFRIGERATOR	14	
15	RECEPT - KITCHEN COUNTER		20A	1		360 VA / 1280 VA		1	20A	RECEPT - UNSEX'ED R. & T. & T. & T. STORAGE & CLEAN DECON & LOW VEHICLE BAY	16	
17	RECEPT - KITCHEN RANGE		20A	3			0 VA / 940 VA	1	20A	KITCHEN HOOD 1400 FAN	18	
19	RECEPT - KITCHEN RANGE		20A	3			0 VA / 940 VA	1	20A	RECEPT - DAYROOM	20	
21	RECEPT - MECHANICAL ROOM & ELECTRICAL ROOM		20A	1		1000 VA / 900 VA		1	20A	RECEPT - DAYROOM	22	
23	RECEPT - TOOL LAUNDRY & QUARTERMASTER & HIGH APPARATUS BAY		20A	1		720 VA / 360 VA		1	20A	RECEPT - TOE	24	
25	RECEPT - TOE		20A	1	360 VA / 540 VA			1	20A	RECEPT - TOE	26	
27	RECEPT - TOE & HIGH APPARATUS BAY		20A	1	900 VA / 540 VA			1	20A	RECEPT - TOE	28	
29	RECEPT - WORKSHOP/TOOL STOR.		20A	1		900 VA / 900 VA		1	20A	RECEPT - WORKSHOP/TOOL STOR.	30	
31	RECEPT - FIRE EQUIP. STOR. & WORKSHOP/TOOL STOR. & HIGH APPARATUS BAY		20A	1	720 VA / 540 VA			1	20A	RECEPT - HIGH APPARATUS BAY & OUTSIDE	32	
33	RECEPT - HIGH APPARATUS BAY - CORID REEL		20A	1		180 VA / 180 VA		1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	34	
35	RECEPT - HIGH APPARATUS BAY - CORID REEL		20A	1		180 VA / 180 VA		1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	36	
37	RECEPT - HIGH APPARATUS BAY		20A	1	720 VA / 180 VA			1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	38	
39	RECEPT - HIGH APPARATUS BAY - CORID REEL		20A	1		180 VA / 360 VA		1	20A	RECEPT - HIGH APPARATUS BAY	40	
41	RECEPT - HIGH APPARATUS BAY		20A	1		360 VA / 180 VA		1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	42	
43	RECEPT - HIGH APPARATUS BAY - CORID REEL		20A	1	180 VA / 720 VA			1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	44	
45	RECEPT - HIGH APPARATUS BAY - CORID REEL		20A	1	180 VA / 180 VA			1	20A	RECEPT - HIGH APPARATUS BAY - CORID REEL	46	
47	RECEPT - HIGH APPARATUS BAY		20A	1		720 VA / 540 VA		1	20A	RECEPT - LOW VEHICLE BAY	48	
49	RECEPT - LOW VEHICLE BAY		20A	1	640 VA / 900 VA			1	20A	RECEPT - LOW VEHICLE BAY	50	
51	RECEPT - LOW VEHICLE BAY		20A	1	720 VA / 1200 VA			1	20A	GFI RECEPT - LOW VEHICLE BAY - VENDING MACHINE	52	
53	RECEPT - LOW VEHICLE BAY - CORID REEL		20A	1		180 VA / 1200 VA		1	20A	GFI RECEPT - LOW VEHICLE BAY - VENDING MACHINE	54	
55	RECEPT - LOW VEHICLE BAY - CORID REEL		20A	1	180 VA / 180 VA			1	20A	RECEPT - LOW VEHICLE BAY - CORID REEL	56	
57	RECEPT - LOW VEHICLE BAY - CORID REEL		20A	1		180 VA / 900 VA		1	20A	RECEPT - MEZZANINE	58	
59	LIGHTING CONTROLLER		20A	1		100 VA / 600 VA		1	20A	RECEPT - DRINKING FOUNTAIN	60	
61	BACKLIT EXTERIOR LETTERING - FRONT OF BUILDING		20A	1	900 VA / 500 VA			1	20A	BACKLIT EXTERIOR LETTERING - FRONT OF BUILDING	62	
63	RECEPT - DEHWASHER		20A	1	1000 VA / 180 VA			1	20A	RECEPT - MICROWAVE	64	
65	RECEPT - KITCHEN COUNTER		20A	1		180 VA / 900 VA		1	20A	EXTRACTOR	66	
67	RECEPT - TRAINING TOWER CHAIR HOIST		20A	1	180 VA / 980 VA						68	
69	RECEPT - ROOF		20A	1		720 VA / 980 VA					70	
71	LIGHTING - COLOR CHANGING AT HIGH BAY DOORS		20A	1		360 VA / 0 VA		1	20A	Space	72	
73	RECEPT - TRAINING TOWER		20A	1	540 VA / 0 VA			1	20A	Space	74	
75	RECEPT - BLOCK HEATER		20A	1		180 VA / 0 VA		1	20A	Space	76	
77	RECEPT - BLOCK HEATER		20A	1		180 VA / 0 VA		1	20A	Space	78	
79	RECEPT - BLOCK HEATER		20A	1	180 VA / 0 VA			1	20A	Space	80	
81	RECEPT - BLOCK HEATER		20A	1		180 VA / 0 VA		1	20A	Space	82	
83	POLE LIGHT - PARKING LOT		20A	1		70 VA / 0 VA		1	20A	Space	84	
					13422 VA	15833 VA	12800 VA					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTAL							
HVAC		696 VA	100.00%	696 VA	TOTAL CONNECTED: 42031 VA							
Lighting		8983 VA	100.00%	8983 VA	TOTAL ESTIMATED DEMAND: 32118 VA							
Power		3443 VA	100.00%	3443 VA	TOTAL CONNECTED CURRENT: 117 A							
Receptacle		29860 VA	66.74%	19930 VA	TOTAL ESTIMATED DEMAND CURRENT: 89 A							

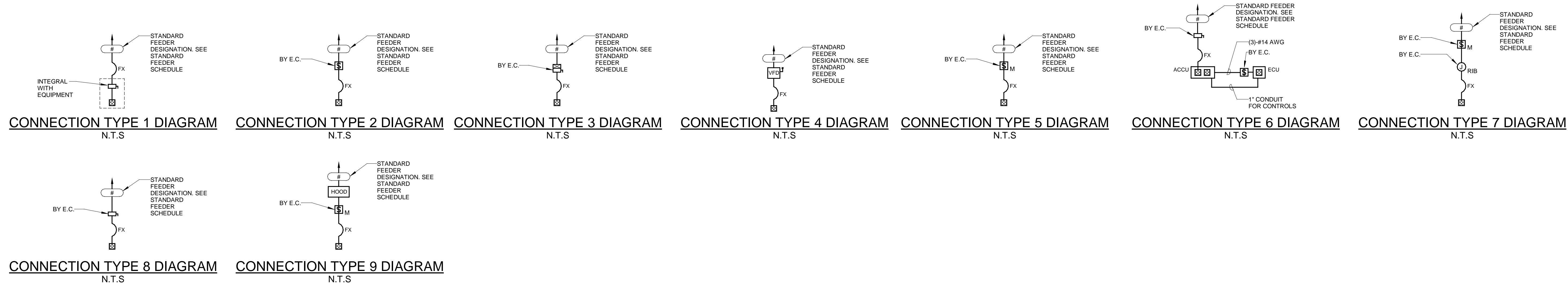
PANEL NAME: B												
LOCATION: MAIN ELECTRICAL ROOM				VOLTAGE: 120/208 NP				A.I.C. RATING: 22K				
SUPPLIED FROM: MDP				PHASE: 3				MANS TYPE: MLO				
MOUNTING: SURFACE				WIRES: 4				MANS RATING: 225 A				
				MCB RATING: N/A								
NOTES: PANEL SHALL BE DOUBLE-TUB WITH 42 CIRCUITS PER TUB. PROVIDE SUB-FEED LUGS AS REQUIRED.												
CCT	LOAD NAME	NOTES	TRIP	POLES	A	B	C	POLES	TRIP	NOTES	CCT	
1	BOILER B-1		20A	2	300 VA / 300 VA			2	20A	BOILER B-2	2	
3						300 VA / 300 VA					4	
5	BOILER PUMP BWP-1		15A	3			576 VA / 576 VA	3	15A	BOILER PUMP BWP-2	6	
7							576 VA / 576 VA				8	
9							576 VA / 576 VA				10	
11	HWP-1		20A	3			628 VA / 628 VA	3	20A	HWP-2	12	
13						628 VA / 628 VA					14	
15						628 VA / 628 VA					16	
17	WATER HEATER		20A	1		1000 VA / 50 VA		1	15A	DOMESTIC MISC PUMP	18	
19	TEMPERATURE CONTROL PANEL		20A	1	100 VA / 180 VA			1	20A	RECEPT - MAIN VALVE	20	
21	UN-1C MESH ROOM		20A	1		16 VA / 16 VA		1	20A	UN-1C QUARTERMASTER	22	
23	LH 16 FIRE EQUIP. STORAGE		20A	1		16 VA / 16 VA		1	20A	LH 1A WORKSHOP	24	
25	Space		20A	1	0 VA / 100 VA			1	20A	DUHAL LOW BAY ENTRY	26	
27	CLH-28 LOW BAY ENTRY		20A	1		100 VA / 3274 VA		3	45A	DOAS-1 - TURNOUT GEAR	28	
29	RECEPT - INFRARED HEATERS LOW BAY		20A	1		360 VA / 3274 VA					30	
31	RECEPT - INFRARED HEATERS HIGH BAY NORTH		20A	1	360 VA / 3274 VA						32	
33	RECEPT - INFRARED HEATERS HIGH BAY SOUTH		20A	1		360 VA / 1176 VA		1	20A	OVERHEAD DOOR - LOW BAY	34	
35	OVERHEAD DOOR - LOW BAY		20A	1		1176 VA / 1176 VA		1	20A	OVERHEAD DOOR - HIGH BAY	36	
37	OVERHEAD DOOR - HIGH BAY		20A	1	1176 VA / 1176 VA			1	20A	OVERHEAD DOOR - HIGH BAY	38	
39	OVERHEAD DOOR - HIGH BAY		20A	1		1176 VA / 1176 VA		1	20A	OVERHEAD DOOR - HIGH BAY	40	
41	OVERHEAD DOOR - STORM SHELTER		20A	1		1665 VA / 696 VA		1	20A	EP-1	42	
43	STORM SHELTER FURNACE HEATER		20A	2	3600 VA / 333 VA			2	15A	STORM SHELTER FURNACE	44	
45						3600 VA / 333 VA					46	
47	EP-4		20A	1		100 VA / 1656 VA		1	25A	EP-2 LOW BAY	48	
49	EP-3A HIGH BAY		20A	1	1176 VA / 1176 VA			1	20A	EP-3B HIGH BAY	50	
51	GENERATOR BLOCK HEATER		20A	2		1200 VA / 500 VA		1	20A	GENERATOR BATTERY CHARGER	52	
53						1200 VA / 100 VA		1	20A	EP-5 TRAINING TOWER	54	
55	ACCUECU-1A - EMS STORAGE		25A	2	965 VA / 999 VA			2	20A	STORM SHELTER CONDENSING UNIT CU-1	56	
57						965 VA / 999 VA					58	
59	BOILER DAMPERS		20A	1		200 VA / 0 VA		1	20A	Space	60	
61	Space		20A	1	0 VA / 0 VA			1	20A	Space	62	
63	Space		20A	1	0 VA / 0 VA			1	20A	Space	64	
65	Space		20A	1	0 VA / 0 VA			1	20A	Space	66	
67	Space		20A	1	0 VA / 0 VA			1	20A	Space	68	
69	Space		20A	1	0 VA / 0 VA			1	20A	Space	70	
71	Space		20A	1	0 VA / 0 VA			1	20A	Space	72	
73	Space		20A	1	0 VA / 0 VA			1	20A	Space	74	
75	Space		20A	1	0 VA / 0 VA			1	20A	Space	76	
77	Space		20A	1	0 VA / 0 VA			1	20A	Space	78	
79	Space		20A	1	0 VA / 0 VA			1	20A	Space	80	
81	Space		20A	1	0 VA / 0 VA			1	20A	Space	82	
83	Space		20A	1	0 VA / 0 VA			1	20A	Space	84	
					15202 VA	15699 VA	13112 VA					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTAL							
HVAC		32285 VA	100.00%	32285 VA	TOTAL CONNECTED: 43612 VA							
Power		12156 VA	100.00%	12156 VA	TOTAL ESTIMATED DEMAND: 43612 VA							
Receptacle		180 VA	100.00%	180 VA	TOTAL CONNECTED CURRENT: 121 A							
					TOTAL ESTIMATED DEMAND CURRENT: 121 A							

PANEL NAME: C											
LOCATION: STORM SHELTER CORRIDOR				VOLTAGE: 120/208 Single				A.I.C. RATING: 22K			
SUPPLIED FROM: MDP				PHASE: 1				MANS TYPE: MLO			
MOUNTING: FLUSH				WIRES: 3				MANS RATING: 100 A			
				MCB RATING: N/A							
NOTES:											
CCT	LOAD NAME	NOTES	TRIP	POLES	A	B	POLES	TRIP	NOTES	LOAD NAME	CCT
1	LIGHTING - STORM SHELTER ROOMS		20A	1	759 VA / 400 VA		1	20A		ERV-1 VENTILATOR FAN	2
3	Space		20A	1		0 VA / 0 VA		1	20A	Space	4
5	Space		20A	1	0 VA / 0 VA			1	20A	Space	6
7	Space		20A	1	0 VA / 0 VA			1	20A	Space	8
9	Space		20A	1	0 VA / 0 VA			1	20A	Space	10
11	Space		20A	1	0 VA / 0 VA			1			

MECHANICAL EQUIPMENT SCHEDULE

NOTES:
 1. SEE STANDARD FEEDER SCHEDULE FOR MORE INFORMATION.
 2. WHERE THE DISCONNECT IS LISTED AS "INTEGRAL", THE UNIT IS BEING SUPPLIED WITH AN "INTEGRAL" DISCONNECTING MEANS. WHERE A SIZE, TYPE, ETC. IS SHOWN, IT IS TO BE PROVIDED BY THE E.C.
 3. WHERE THE STARTER IS LISTED AS "INTEGRAL", THE UNIT IS BEING SUPPLIED WITH AN "INTEGRAL" STARTER. WHERE A STARTER DESIGNATION IS SHOWN, IT IS TO BE PROVIDED BY THE E.C. SEE THE MOTOR STARTER SCHEDULE FOR MORE INFORMATION.
 4. SEE CONNECTION TYPE DIAGRAMS FOR MORE INFORMATION.

DESIGNATION	DESCRIPTION	APPARENT POWER	HP	VOLTAGE	PHASE (NUMBER OF POLES)	WIRE/CONDUIT (NOTE 1)	PANEL	CIRCUIT(S)	DISCONNECT DESIGNATION	DISCONNECT DESCRIPTION (NOTE 2)	DISCONNECT LOCATION	STARTER DESCRIPTION (NOTE 3)	CONNECTION TYPE (NOTE 4)	REMARKS
AC-1	AIR COMPRESSOR	11592 VA	10	208 V	3	60B	MDP	SEE POWER RISER	DS-AC-1	60A240V/3P/NF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	
AC-2	AIR COMPRESSOR	22447 VA	20	240 V	3	90B	E	2,4,6	DS-AC-2	100A240V/3P/NF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	
ACCU-1A	SPLIT-SYSTEM CONDENSING UNIT	1830 VA	-	208 V	2	25A	B	55,57	DS-ACCU-1A	30A240V/2P/25A/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	6	11 MCA, 28A MOP. INTERCONNECT WITH ECU-1A PER MANUFACTURER'S INSTRUCTIONS.
ACCU-1B	SPLIT-SYSTEM CONDENSING UNIT	1830 VA	-	208 V	2	25A	D	82,84	DS-ACCU-1B	30A240V/2P/25A/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	6	11 MCA, 28A MOP. INTERCONNECT WITH ECU-1B PER MANUFACTURER'S INSTRUCTIONS.
B-1	BOILER	600 VA	-	208 V	2	20A	B	1,3	DS-B-1	30A240V/2P/NF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	
B-2	BOILER	600 VA	-	208 V	2	20A	B	2,4	DS-B-2	30A240V/2P/NF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	
BWP-1	BOILER PUMP	1728 VA	1	208 V	3	15B	B	5,1,9	-	INTEGRAL TO MOTOR STARTER	-	MS-BWP-1	3	
BWP-2	BOILER PUMP	1728 VA	1	208 V	3	15B	B	6,8,10	-	INTEGRAL TO MOTOR STARTER	-	MS-BWP-1	3	
CU-1	CONDENSING UNIT	1997 VA	-	208 V	2	20A	B	36,58	DS-CU-1	30A240V/2P/20A/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	8	12 MCA, 20A MOP
CUH-2A	HYDRONIC CABINET UNIT HEATER	100 VA	1/15	120 V	1	20A	B	28	-	INTEGRAL	-	INTEGRAL	1	
CUH-2B	HYDRONIC CABINET UNIT HEATER	100 VA	1/15	120 V	1	20A	B	27	-	INTEGRAL	-	INTEGRAL	1	
DOAS-1	ROOFTOP UNIT	9821 VA	-	208 V	3	45B	B	28,30,32	-	INTEGRAL	-	INTEGRAL	1	42.1 MCA, 45A MOP
ECU-1A	SPLIT-SYSTEM INDOOR UNIT	100 VA	-	208 V	2	(3)-#16	B	55,57	DS-ECU-1A	2P TOGGLE DISCONNECT	ADJACENT TO UNIT	INTEGRAL	6	INTERCONNECT WITH ACCU-1A PER MANUFACTURER'S INSTRUCTIONS
ECU-1B	SPLIT-SYSTEM INDOOR UNIT	100 VA	-	208 V	2	(3)-#16	D	82,84	DS-ECU-1B	2P TOGGLE DISCONNECT	ADJACENT TO UNIT	INTEGRAL	6	INTERCONNECT WITH ACCU-1B PER MANUFACTURER'S INSTRUCTIONS
EF-1	ROOFTOP EXHAUST FAN	696 VA	1/4	120 V	1	20A	B	42	DS-EF-1	MANUAL MOTOR STARTER	MECHANICAL ROOM	SEE REMARKS	7	PROVIDE RELAY-IN-A-BOX FOR CONNECTION TO TEMPERATURE CONTROLS
EF-2	ROOFTOP EXHAUST FAN	1656 VA	3/4	120 V	1	25A	B	48	-	INTEGRAL TO VFD	LOW BAY	VFD-EF-2	4	VFD FURNISHED BY MC, INSTALLED AND WIRED BY EC
EF-3A	ROOFTOP EXHAUST FAN	1176 VA	1/2	120 V	1	20A	B	49	-	INTEGRAL TO VFD	HIGH BAY	VFD-EF-3A	4	VFD FURNISHED BY MC, INSTALLED AND WIRED BY EC
EF-3B	ROOFTOP EXHAUST FAN	1176 VA	1/2	120 V	1	20A	B	50	-	INTEGRAL TO VFD	HIGH BAY	VFD-EF-3B	4	VFD FURNISHED BY MC, INSTALLED AND WIRED BY EC
EF-4	TUNING EXHAUST FAN	100 VA	1/10	120 V	1	20A	B	47	DS-EF-4	MANUAL MOTOR STARTER	MECHANICAL ROOM	SEE REMARKS	7	PROVIDE RELAY-IN-A-BOX FOR CONNECTION TO TEMPERATURE CONTROLS
EF-5	TRAINING TOWER EXHAUST FAN	100 VA	1/10	120 V	1	20A	B	54	DS-EF-5	MANUAL MOTOR STARTER	BASE OF TRAINING TOWER	SEE REMARKS	7	PROVIDE RELAY-IN-A-BOX FOR CONNECTION TO TEMPERATURE CONTROLS
EF-6	KITCHEN HOOD EXHAUST FAN	696 VA	1/4	120 V	1	20A	A	18	-	-	-	INTEGRAL	9	FAN IS POWERED BY THE RANGE HOOD.
ERV-1	ENERGY RECOVERY VENTILATOR	400 VA	1/5	120 V	1	15A	C	2	-	INTEGRAL	-	INTEGRAL	1	
F-1	FURNACE	665 VA	-	208 V	2	15A	B	44,46	DS-F-1	30A240V/2P/15A/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	4 MCA, 15A MOP
F-1-HTR	FURNACE ELECTRIC HEAT	7200 VA	-	208 V	2	50A	B	43,45	DS-F-1-HTR	60A240V/2P/NF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	8	47 MCA, 50A MOP
FPB-1A	FAN-POWERED BOX	804 VA	-	120 V	1	20A	D	87	-	INTEGRAL	-	INTEGRAL	1	
FPB-1B	FAN-POWERED BOX	804 VA	-	120 V	1	20A	D	89	-	INTEGRAL	-	INTEGRAL	1	
HWP-1	HEATING WATER PUMP	2484 VA	1-1/2	208 V	3	20B	B	11,13,15	-	INTEGRAL TO VFD	-	VFD-HWP-1	4	VFD FURNISHED BY MC, INSTALLED AND WIRED BY EC
HWP-2	HEATING WATER PUMP	2484 VA	1-1/2	208 V	3	20B	B	12,14,16	-	INTEGRAL TO VFD	-	VFD-HWP-2	4	VFD FURNISHED BY MC, INSTALLED AND WIRED BY EC
RECIRC	RECIRCULATION PUMP	50 VA	1/40	120 V	1	15A	B	18	-	INTEGRAL	-	INTEGRAL	1	
RECIRC	RECIRCULATION PUMP	21312 VA	-	208 V	3	90B	MDP	SEE POWER RISER	DS-RECIRC	MANUAL MOTOR STARTER	ADJACENT TO UNIT	SEE REMARKS	7	PROVIDE RELAY-IN-A-BOX FOR CONNECTION TO TEMPERATURE CONTROLS
RTU-1	ROOFTOP UNIT	27360 VA	-	208 V	3	110B	MDP	SEE POWER RISER	-	INTEGRAL	-	INTEGRAL	1	85 MCA, 110A MOP
UH-1A	HYDRONIC UNIT HEATER	16 VA	-	120 V	1	20A	B	24	DS-UH-1A	MANUAL MOTOR STARTER	ADJACENT TO UNIT	INTEGRAL	5	
UH-1B	HYDRONIC UNIT HEATER	16 VA	-	120 V	1	20A	B	23	DS-UH-1B	MANUAL MOTOR STARTER	ADJACENT TO UNIT	INTEGRAL	5	
UH-1C	HYDRONIC UNIT HEATER	16 VA	-	120 V	1	20A	B	22	DS-UH-1C	MANUAL MOTOR STARTER	ADJACENT TO UNIT	INTEGRAL	5	
UH-1D	HYDRONIC UNIT HEATER	16 VA	-	120 V	1	20A	B	21	DS-UH-1D	MANUAL MOTOR STARTER	ADJACENT TO UNIT	INTEGRAL	5	
WH	WATER HEATER	1000 VA	-	120 V	1	20A	B	17	DS-WH	TOGGLE SWITCH DISCONNECT	ADJACENT TO UNIT	INTEGRAL	2	



PRELIMINARY
 DO NOT USE FOR CONSTRUCTION
 DATE: 2/3/2022
 Schesher Buckley S-M Mayfield

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 SCHEDULES - ELECTRICAL

MOTOR STARTER SCHEDULE

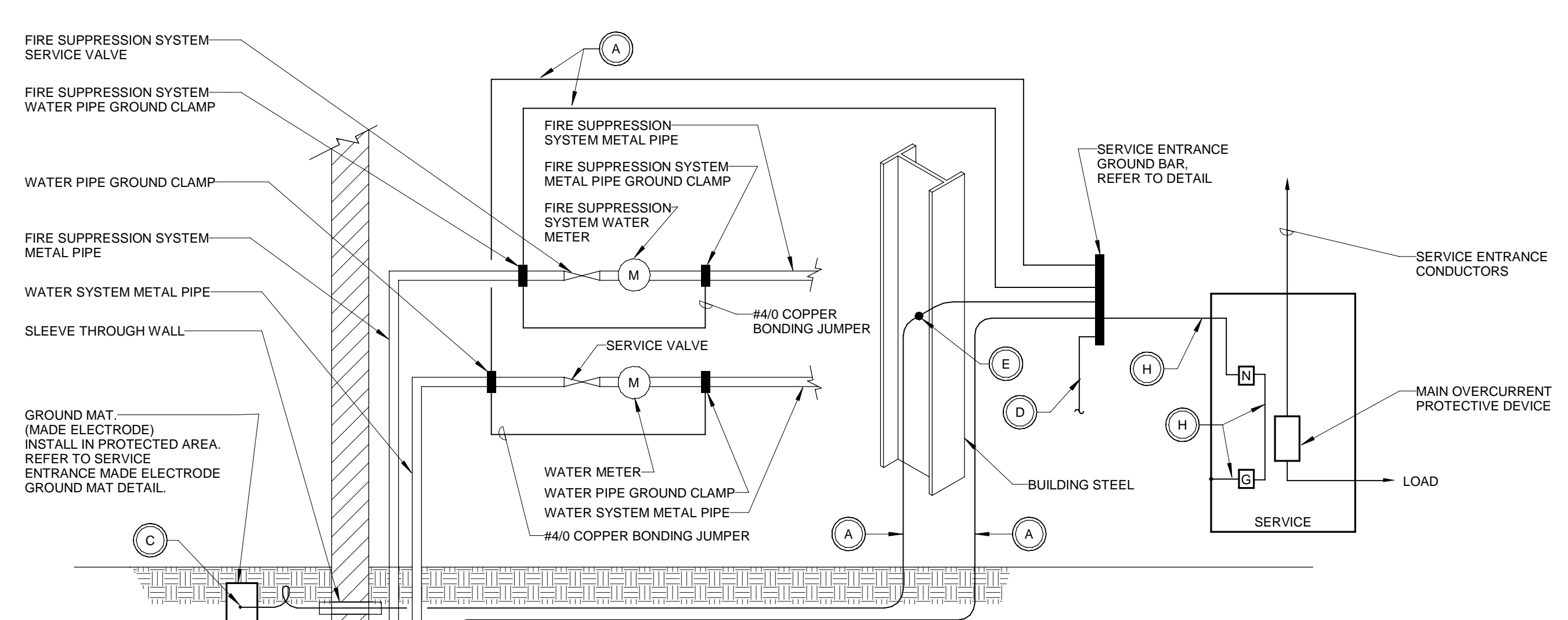
NOTES:
 1. COMBINATION FUSIBLE DISCONNECT SWITCH AND MAGNETIC FVNR STARTER.
 2. SURFACE MOUNTED, NEMA 1 ENCLOSURE.
 3. EXTRA SET OF NO-NC CONTACTS.
 4. HAND-OFF-AUTO SELECTOR SWITCH COVER.
 5. PULL-TO-TEST (RED) PILOT LIGHT IN COVER ILLUMINATE WHILE MOTOR IS RUNNING.
 6. CONTROL CIRCUIT TRANSFORMER WITH TWO (2) PRIMARY FUSES AND 120V SINGLE FUSE SECONDARY.
 7. DISCONNECT SWITCH TO BE SIZED FOR AND EQUIPPED WITH FUSETRONS.
 8. SIZE FUSETRONS TO PROTECT MOTOR, PER MANUFACTURER'S RECOMMENDATIONS.

SYMBOL	STARTER LOCATION	STARTER SIZE	STARTER POLES	STARTER COIL VOLTAGE	STARTER DISCONNECT SIZE	STARTER DISCONNECT FUSETRON	FOR	MOTOR HP	MOTOR VOLTAGE	MOTOR PHASE	MOTOR LOCATION	MOTOR STARTER CODE
MS-BWP-1	MECHANICAL ROOM	0	3	120	30A	SEE NOTE 8	BWP-1	1	208 V	3	MECH ROOM	1,2,3,4,5,6,7,8
MS-BWP-2	MECHANICAL ROOM	0	3	120	30A	SEE NOTE 8	BWP-2	1	208 V	3	MECH ROOM	1,2,3,4,5,6,7,8

REVISION	

DRAWN BY: Author
 CHECKED BY: Checker
 PROJECT NO: 20-108B
 SCALE: AS NOTED
 DATE: 2/3/2022

SHEET
E5.2



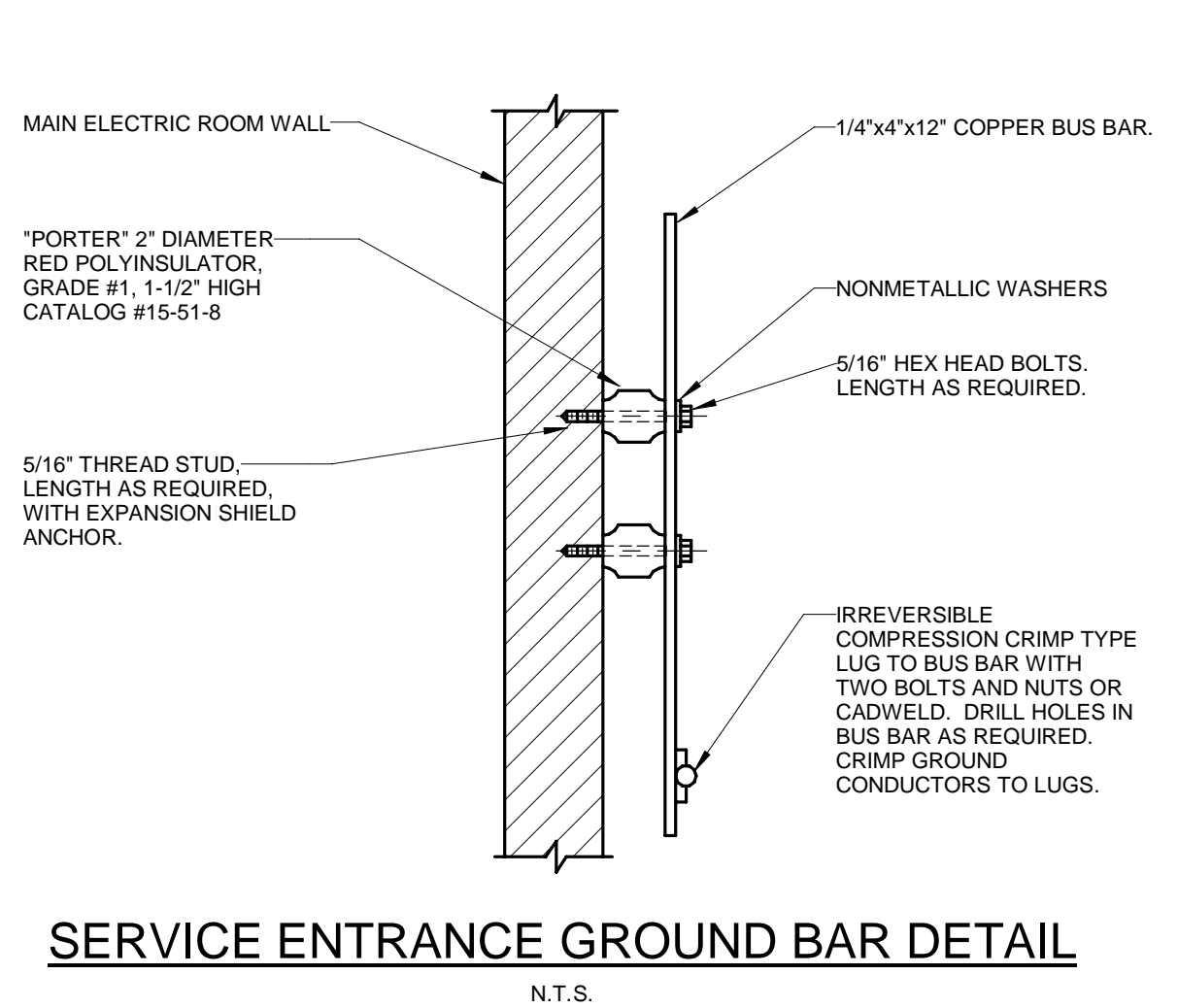
CODED NOTES

- #40 COPPER GROUNDING ELECTRODE CONDUCTOR.
- UNDERGROUND WATER PIPE SHALL BE SUPPLEMENTED BY THIS ADDITIONAL MADE ELECTRODE.
- EXOTHERMIC WELDING CONNECTION BETWEEN GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTOR.
- #6 COPPER WIRE TO MAIN TELECOMMUNICATIONS BACKBOARD COPPER BUS GROUND BAR. REFER TO DRAWINGS FOR LOCATION.
- EXOTHERMIC WELDING CONNECTION BETWEEN BUILDING STEEL AND GROUNDING ELECTRODE CONNECTION.
- FOUNDATION REBAR NEAR BASE OF FOOTER WHERE AVAILABLE. WHERE NOT AVAILABLE, FURNISH AND INSTALL 20 FT. MIN. OF #40 BARE COPPER CABLE NEAR BOTTOM OF FOOTER WITH AT LEAST 2" OF CONCRETE COVER.
- EXOTHERMIC WELDED CONNECTION TO FOOTER REBAR NEAR BASE OF FOOTER.
- MAIN BONDING JUMPER. SIZE PER NEC 250.28(D).

SERVICE ENTRANCE ELECTRODE SYSTEM DETAIL
 N.T.S.

NOTES

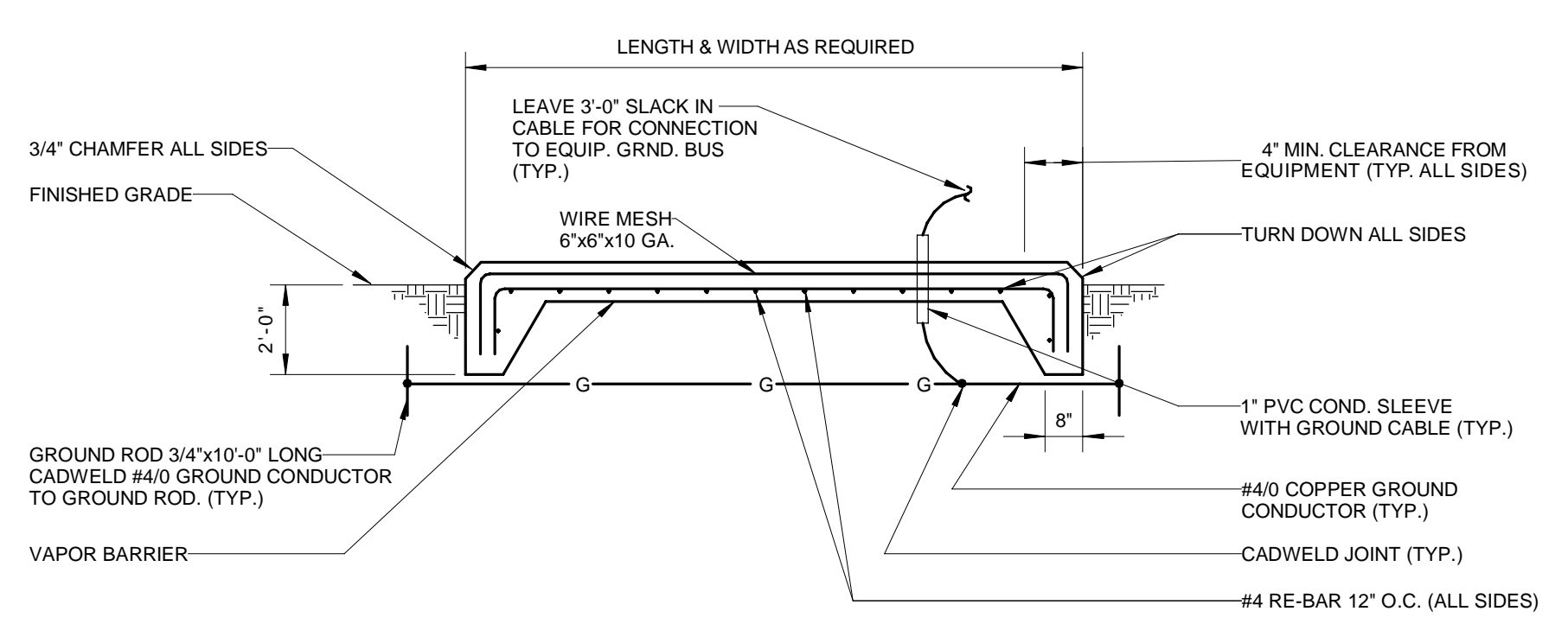
- CT CABINET FURNISHED AND INSTALLED BY EC SHALL BE OF SUBSTANTIAL STRENGTH WITH CORROSION PROTECTION, SUCH AS PAINTED GALVANIZED STEEL NEMA 3R. ALUMINUM OR FIBER REINFORCED POLYESTER ENCLOSURES MUST BE USED IN CORROSIVE AREAS. IT SHALL HAVE PROVISIONS FOR INSTALLING A UTILITY PADLOCK AND SEAL. THE INSIDE BACK OF THE CABINET SHALL BE ENTIRELY COVERED BY 3/4" TREATED PLYWOOD FOR MOUNTING THE CURRENT TRANSFORMERS OR SUITABLE MOUNTING BRACKETS MAY BE PROVIDED. A GROUNDING LUG SHALL BE PROVIDED TO GROUND THE CABINET.
- THE WHITE DOT POLARITY MARK ON THE CT SHALL BE TOWARD THE ENERGY SOURCE OR LINE SIDE.
- EC SHALL MOUNT THE METER SOCKET OR CABINET NEXT TO THE CT CABINET AND INSTALL 1-1/2" GRC CONDUIT BETWEEN THE TWO. IF THE METER SOCKET CANNOT BE INSTALLED NEXT TO THE CT CABINET, IT MAY BE LOCATED UP TO 20 FEET AWAY WITH METER SERVICES APPROVAL. 1-1/2" CONDUIT SHALL CONNECT THE SOCKET AND CT CABINET.
- THE CT CABINET AND METER SOCKET SHALL BE GROUNDING. BONDING TO THE SYSTEM NEUTRAL IS REQUIRED IF THE SYSTEM NEUTRAL IS GROUNDING. GROUND WIRE SHALL REMAIN CONTINUOUS AND UNBROKEN BETWEEN GROUND ROD AND CT CABINET.
- UTILITY WILL INSTALL THE SECONDARY WIRING BETWEEN THE CT AND THE METER SOCKET.
- THE CONDUCTOR SPLICE SHALL BE MADE WITH BOLTED CONNECTIONS FURNISHED AND INSTALLED BY CUSTOMER WHERE REQUIRED. WHERE THE CUSTOMER OWNS AND INSTALLS BOTH THE LINE AND LOAD CONDUCTORS, THE CONDUCTOR MAY PASS THROUGH THE CT'S WITHOUT SPLICE.



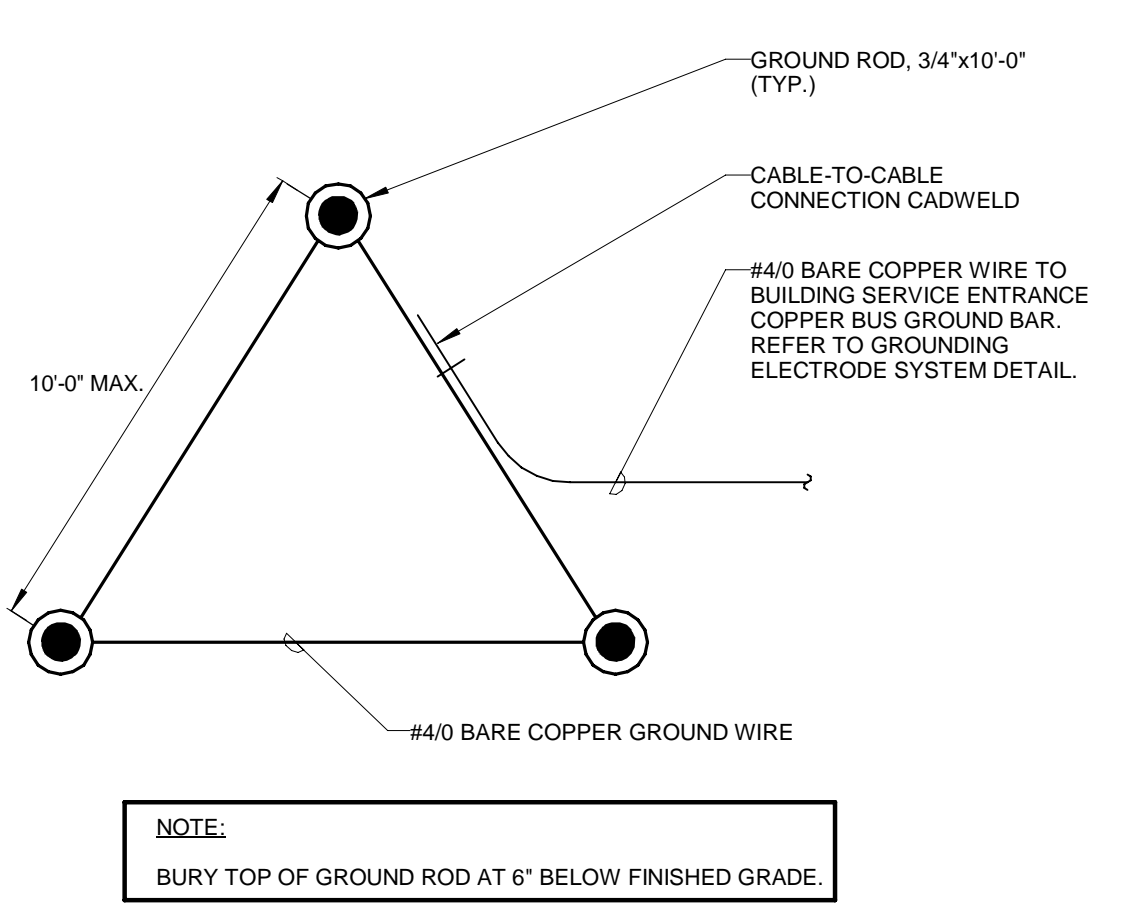
SERVICE ENTRANCE GROUND BAR DETAIL
 N.T.S.

GENERAL NOTES

- FINISH TOP SMOOTH AND LEVEL.
- VERIFY ALL PAD DIMENSIONS WITH GENERATOR SUPPLIER.
- CONCRETE FINE AGGREGATE WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS, APPROXIMATE VOLUME OF .42 CU. YDS.

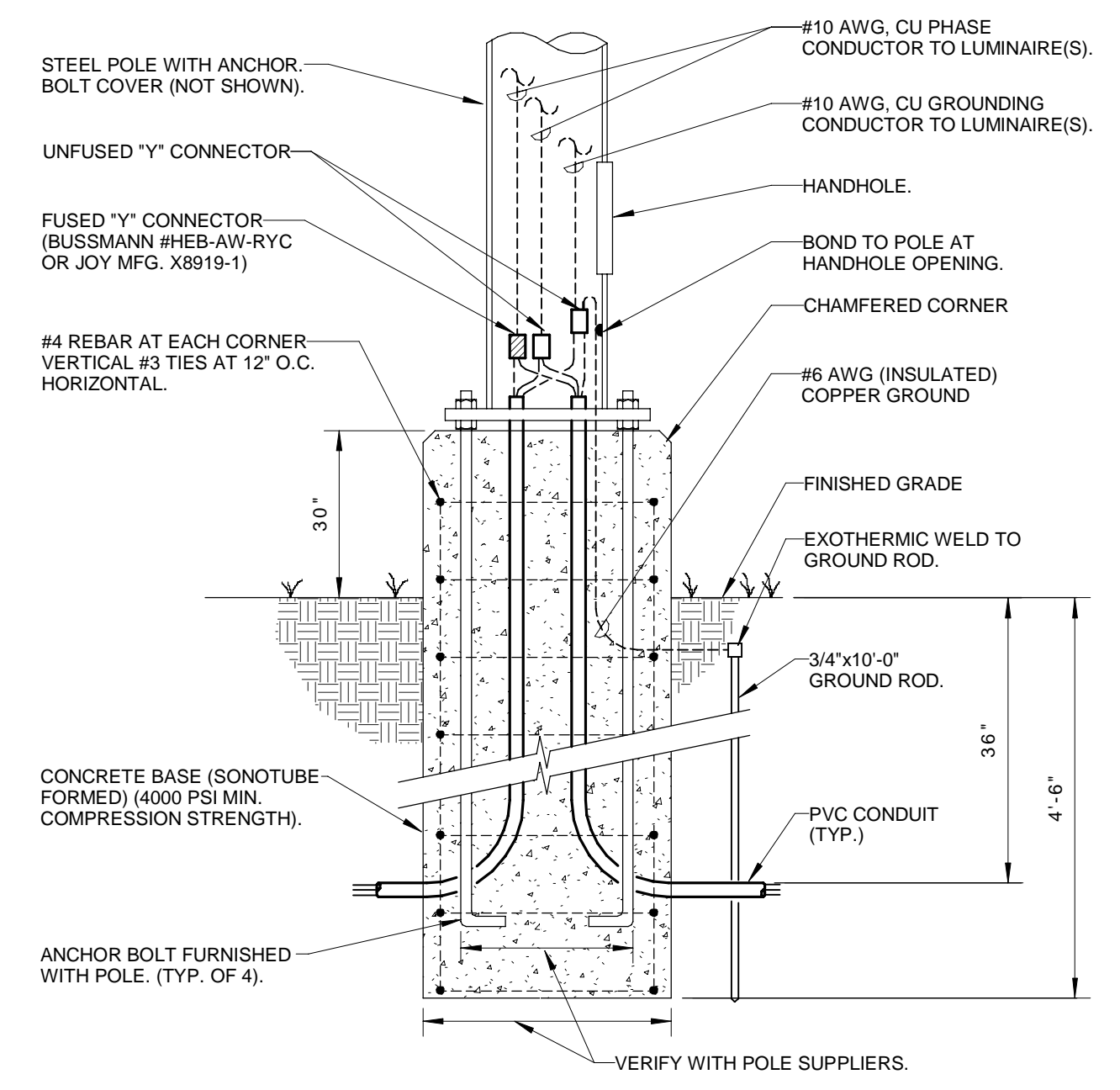


GENERATOR PAD DETAIL
 N.T.S.



NOTE:
 BURY TOP OF GROUND ROD AT 6" BELOW FINISHED GRADE.

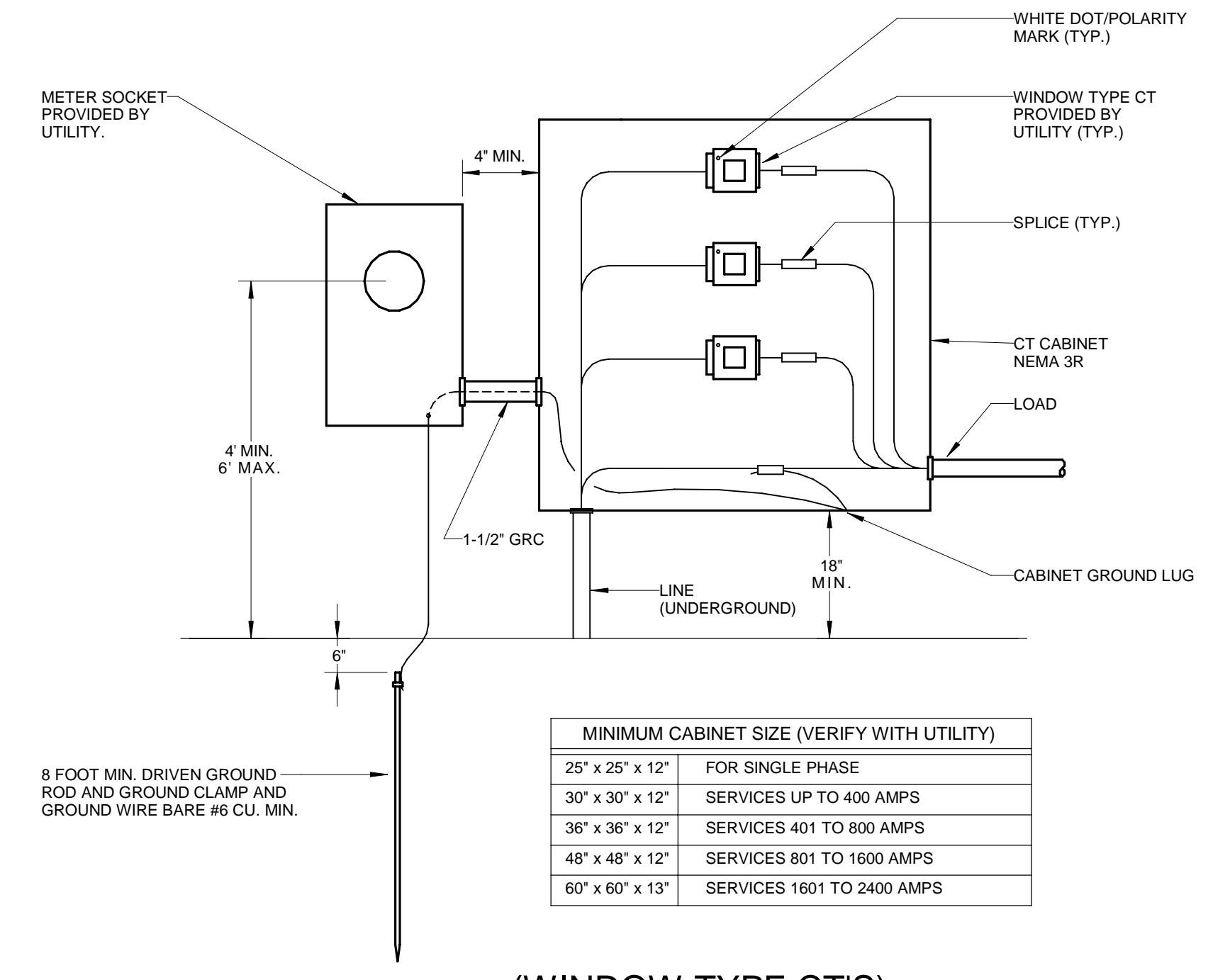
SERVICE ENTRANCE MADE ELECTRODE GROUND MAT DETAIL
 N.T.S.



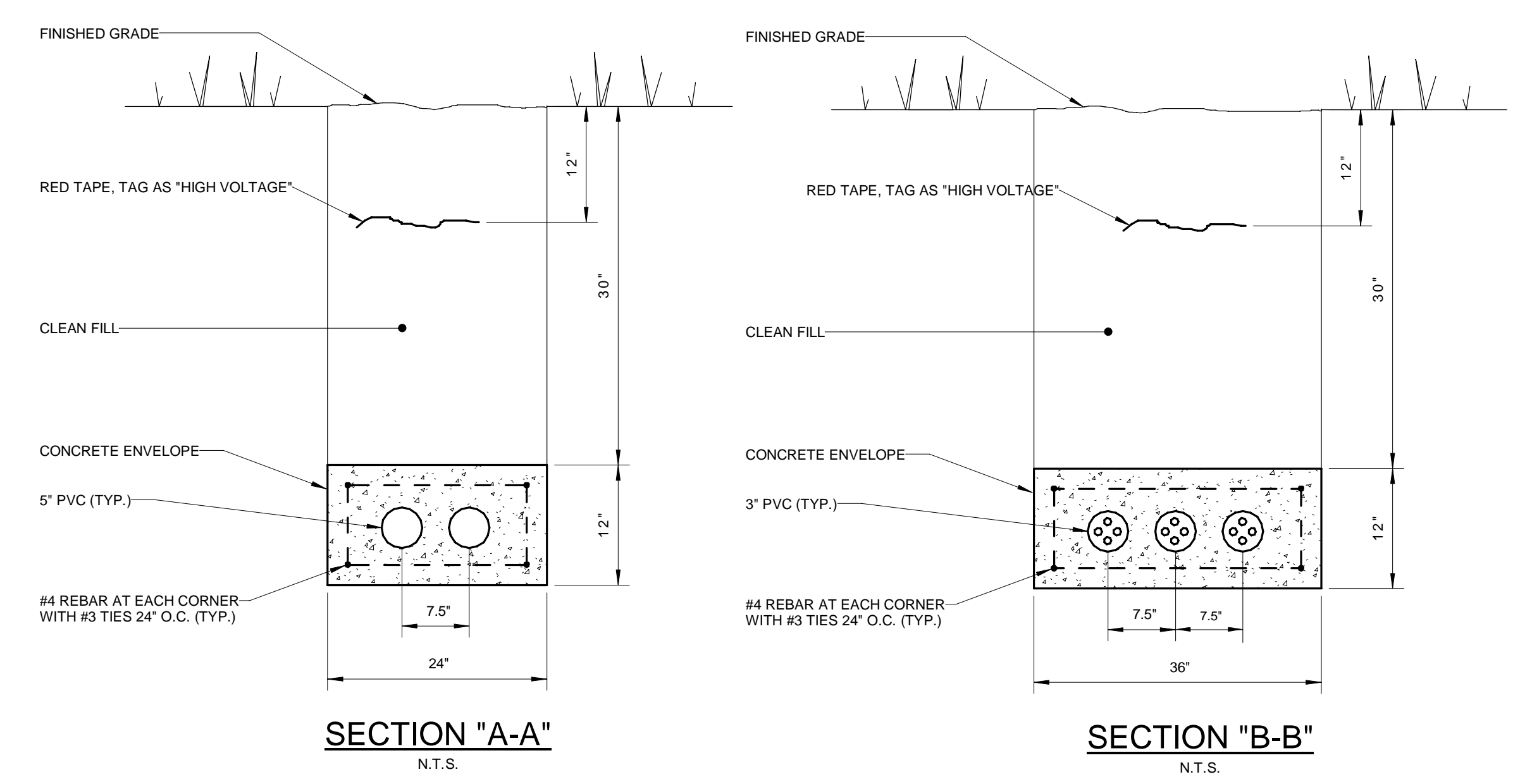
POLE BASE DETAIL
 N.T.S.

NOTE TO ENGINEER:

- VERIFY ALL DIMENSIONS AND REQUIREMENTS WITH UTILITY COMPANY.
- ALLEGHENY POWER SYSTEM CONCRETE PAD DETAIL FOR 75 TO 500 KVA TRANSFORMER.
- DETAIL IS FOR REFERENCE ONLY. EXACT DETAIL SHALL BE PROJECT SPECIFIC.



(WINDOW TYPE CT'S) CURRENT TRANSFORMER CABINET
 N.T.S.



DUCT BANK GENERAL NOTES

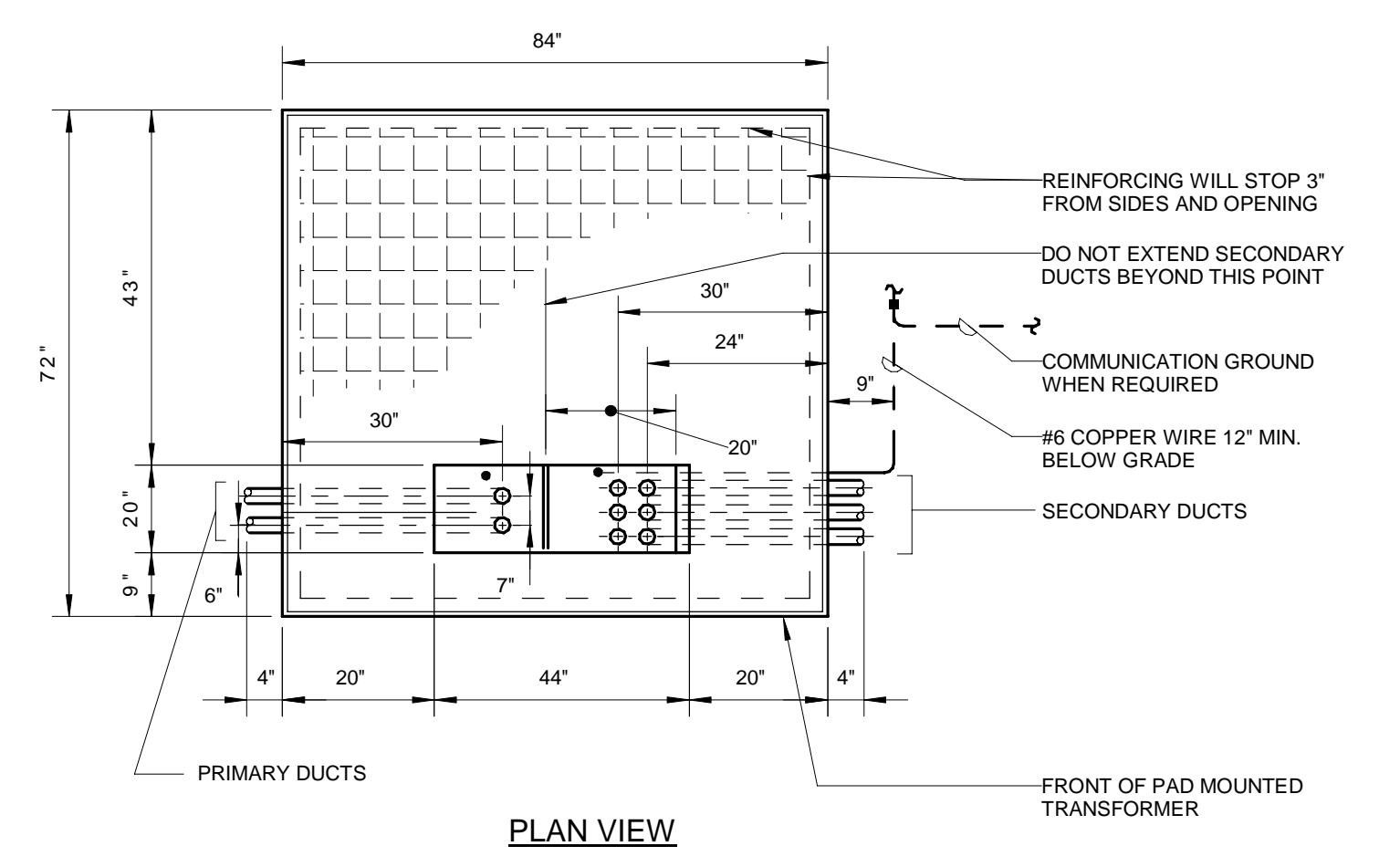
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON DUCT BANK CONSTRUCTION (I.E. CONCRETE REQUIREMENTS, ETC.)
- NONMETALLIC SPACERS OF REQUIRED SIZE SHALL BE PROVIDED TO SUPPORT PVC CONDUITS RUN ENCASED IN CONCRETE. SPACERS SHALL BE PROVIDED AT 8" INTERVALS MINIMUM.

CODED NOTES

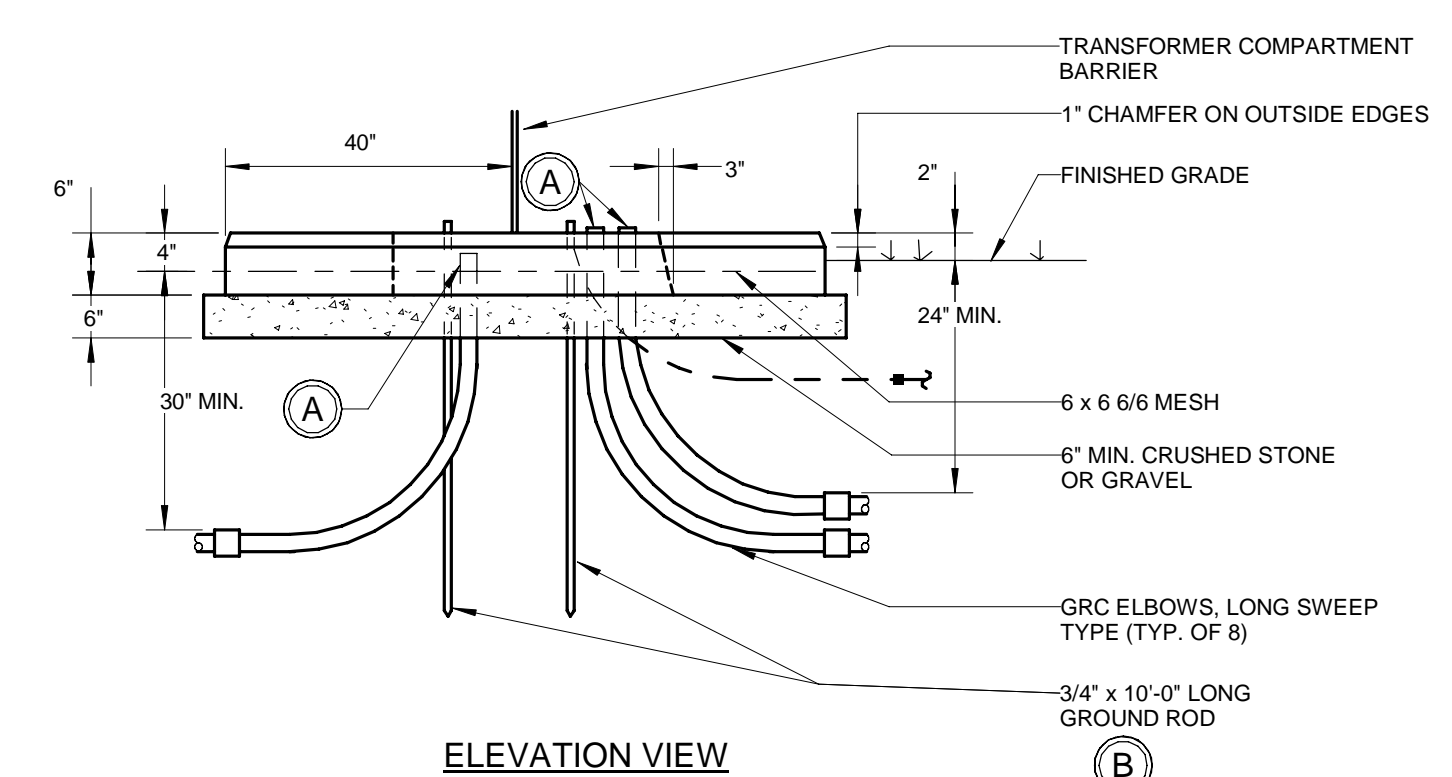
- SECONDARY DUCTS SHOULD NOT EXTEND MORE THAN 2' ABOVE THE TOP OF FOUNDATION. PRIMARY DUCT SHOULD BE CUT OFF 2' BELOW THE TOP OF THE FOUNDATION TO ALLOW FOR TERMINATING THE CABLES.
- EXTEND GROUND RODS 2" ABOVE THE TOP OF THE FOUNDATION SO THAT A GROUNDING JUMPER MAY BE ATTACHED.

GENERAL NOTES

- VERIFY ALL PAD DIMENSIONS WITH PAD MOUNTED TRANSFORMER SUPPLIER.
- CONCRETE 3000 PSI; APPROXIMATE VOLUME: 7 CU. YARDS. TOP AND SIDES TO BE FINISHED SMOOTH.



PLAN VIEW



ELEVATION VIEW TRANSFORMER PAD DETAIL
 N.T.S.

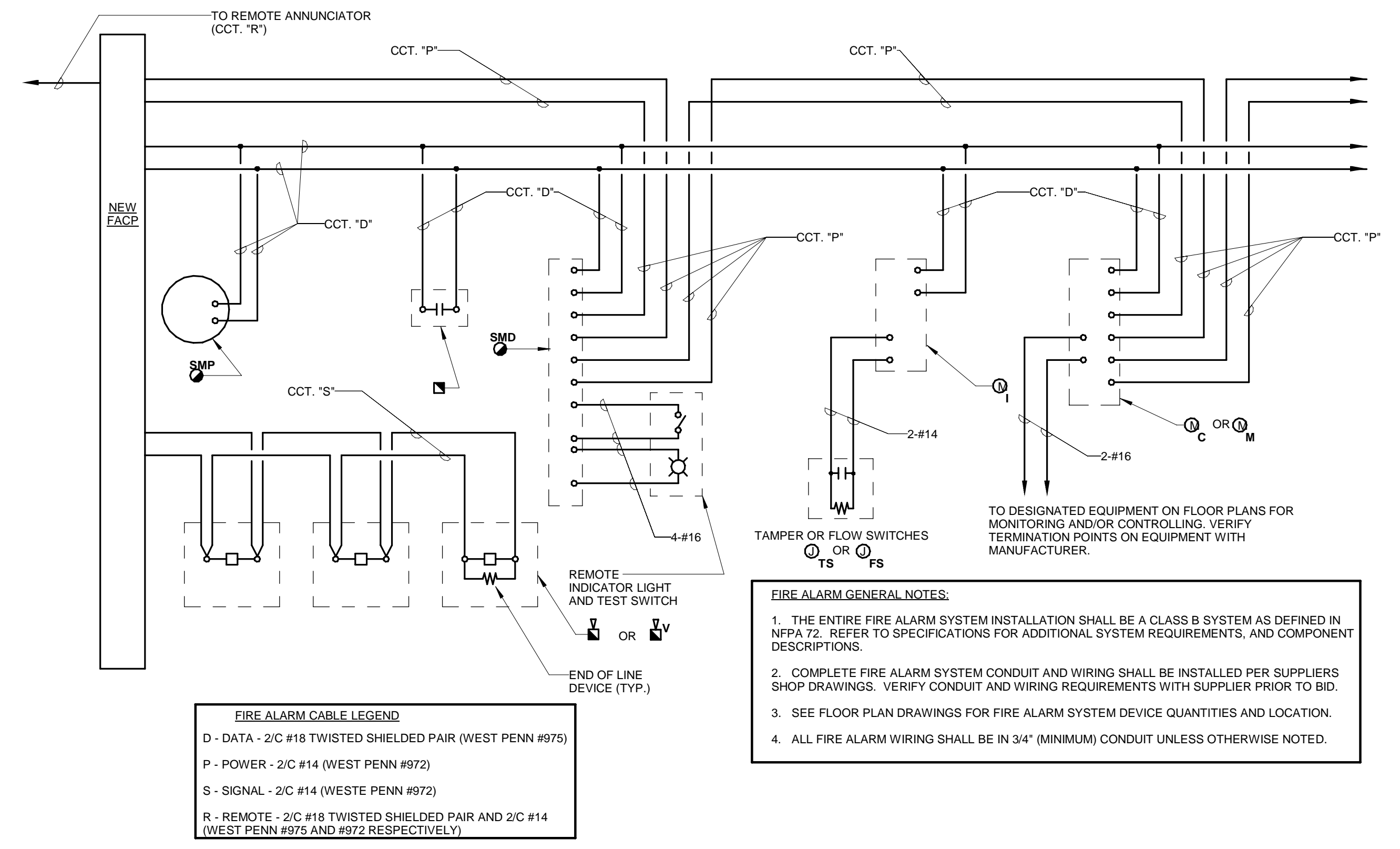
REVISION

NO.	DESCRIPTION

DRAWN BY: Author
CHECKED BY: Checker
PROJECT NO: 20-108B
SCALE: AS NOTED
DATE: 2/3/2022

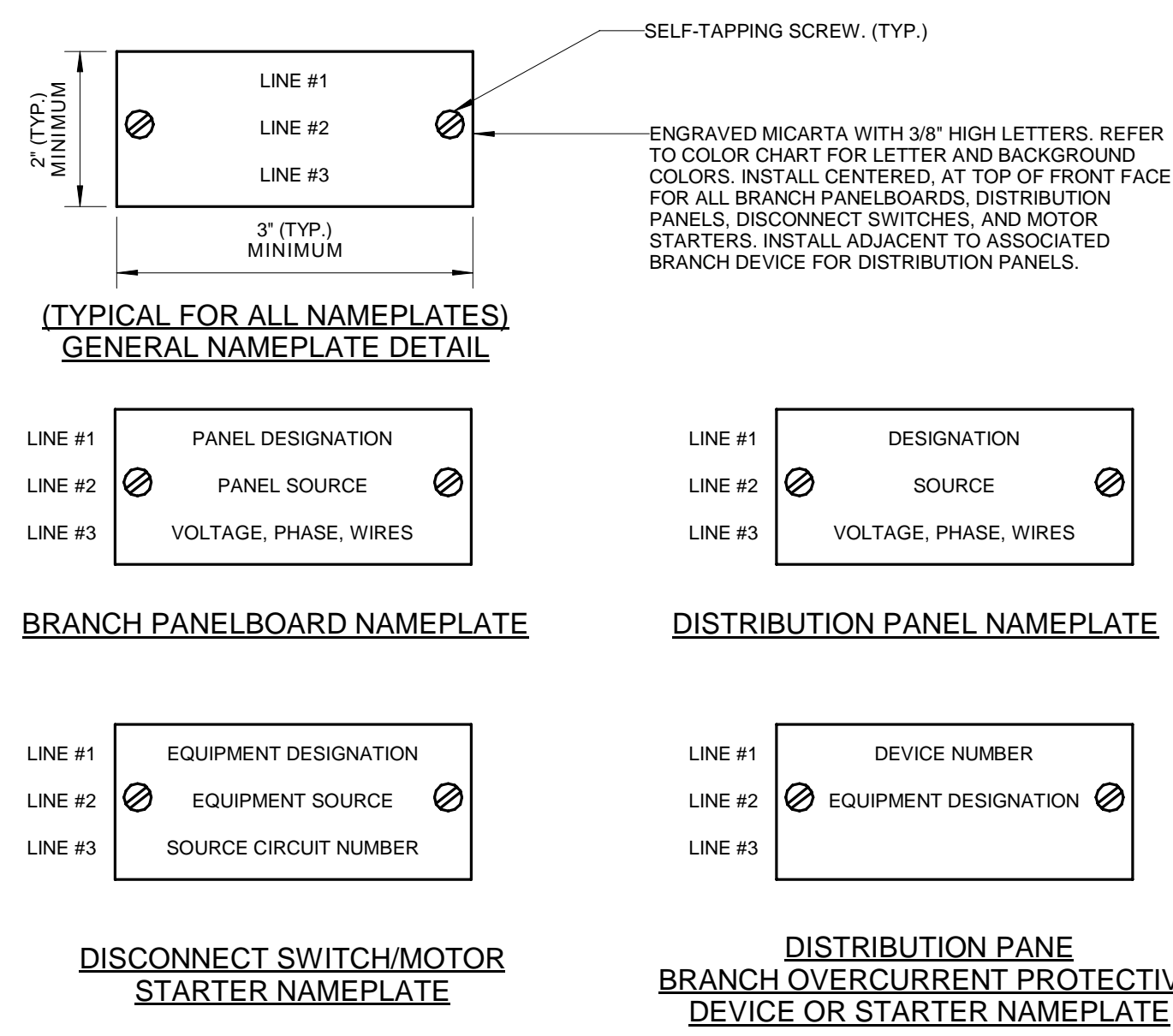
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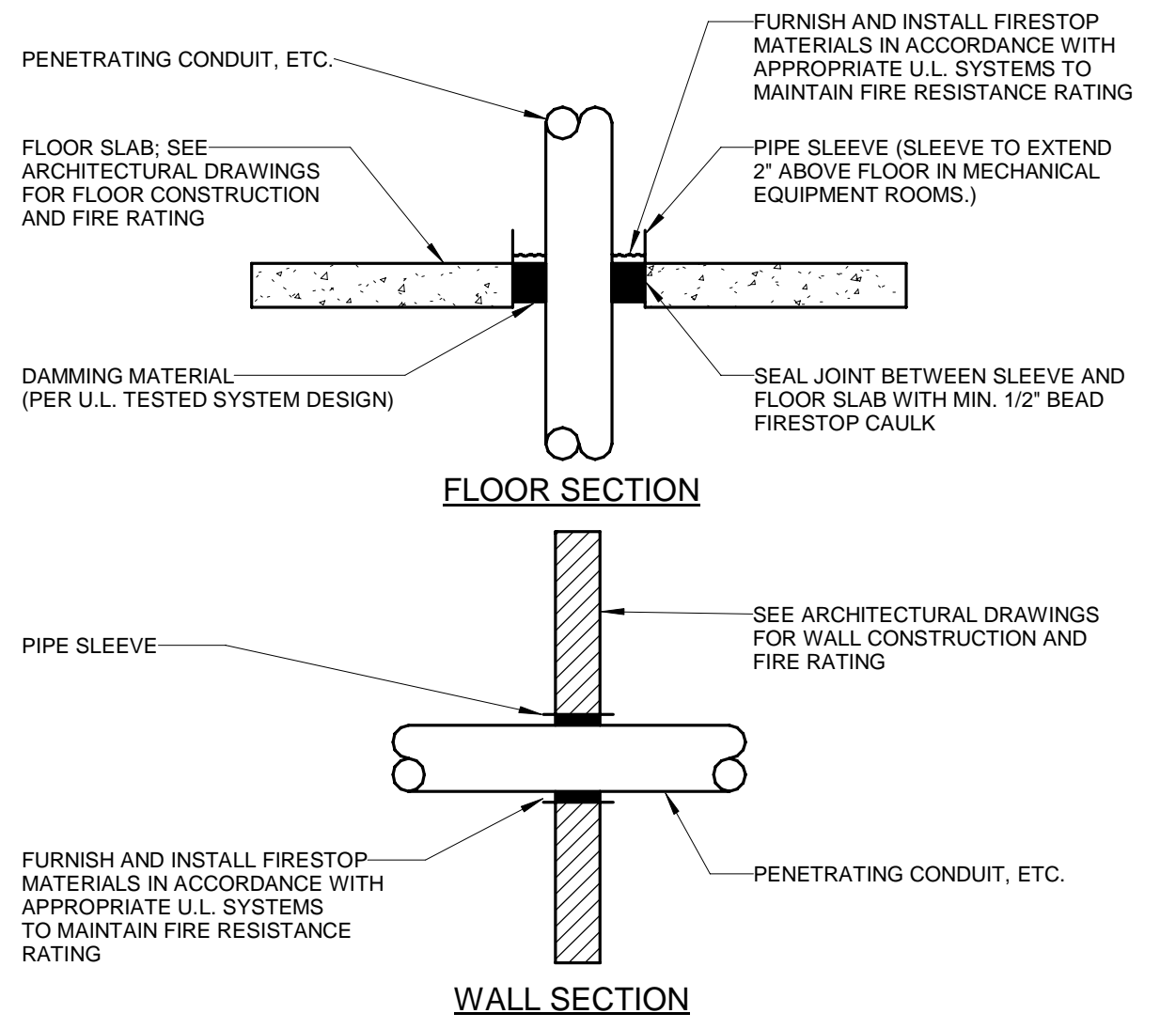
FIRE ALARM WIRING DIAGRAM
 N.T.S.

STANDARD COLORS:
 ELECTRICAL EQUIPMENT SUCH AS:
 1. PANELBOARDS, MOTOR STARTERS, DISTRIBUTION PANELS, DISCONNECT SWITCHES (IF APPLICABLE)
 A. 208Y/120 VOLTS (NORMAL) - BLACK BACKGROUND, WHITE LETTERS



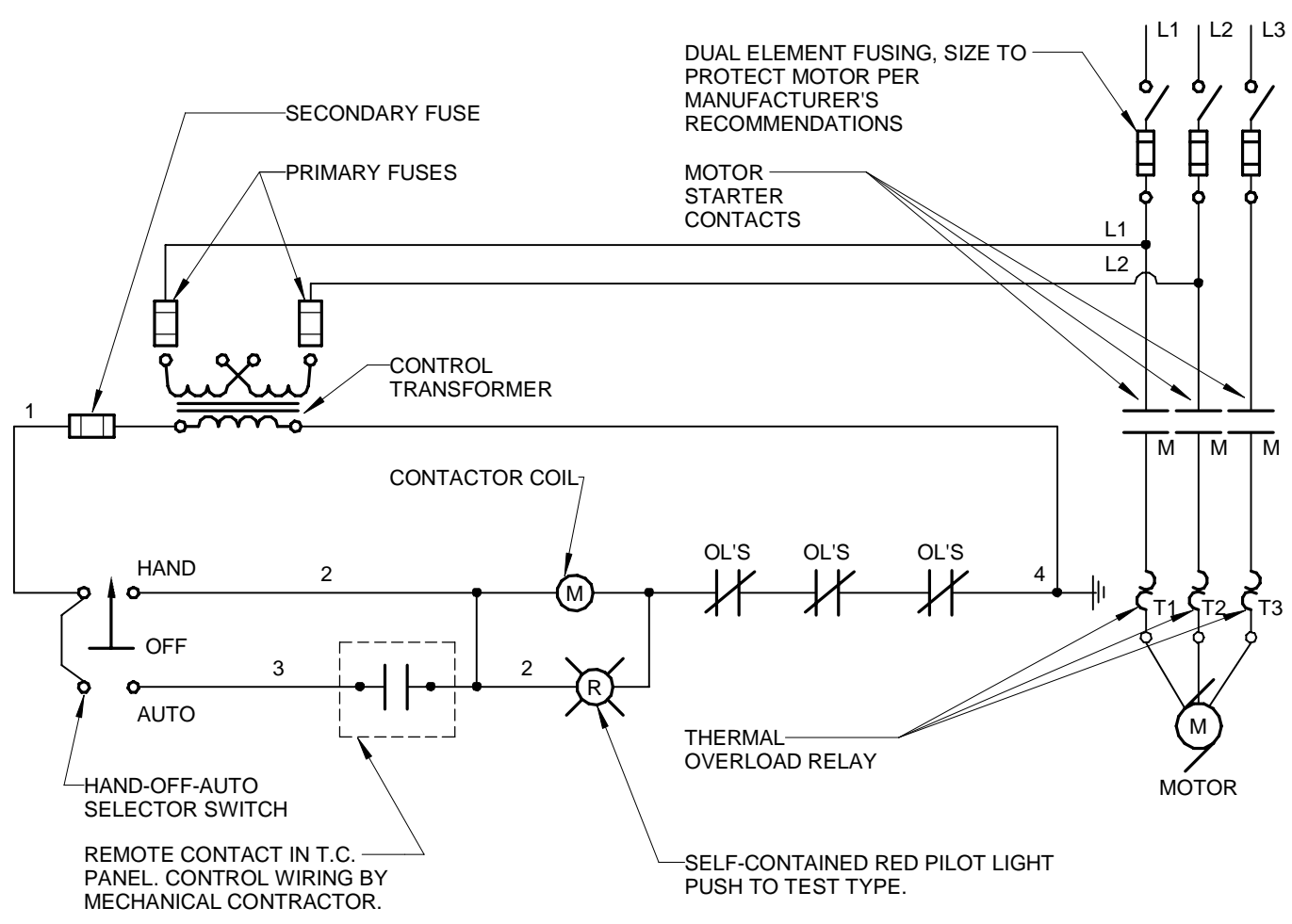
(REFER TO SPECIFICATIONS)
IDENTIFICATION TAGGING DETAILS
 N.T.S.

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES			
SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL ϵ 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL ϵ 2" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (ϵ 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008

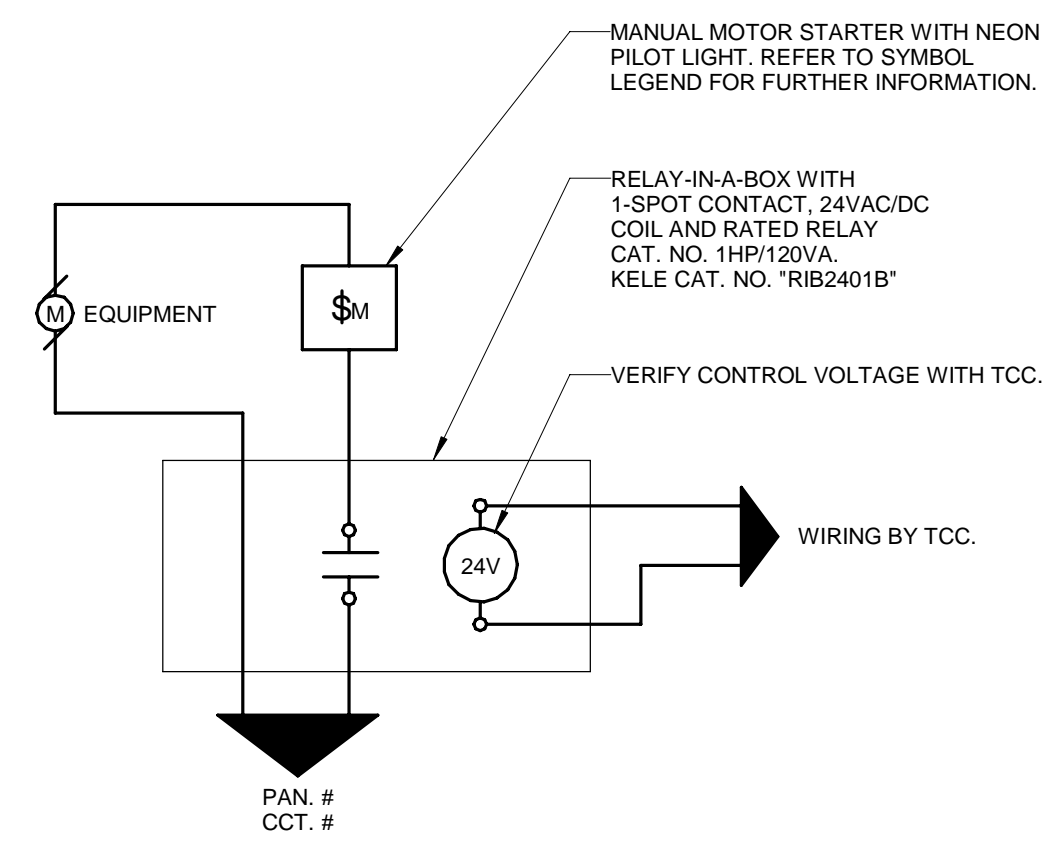


NOTES:
 1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ABRASIVE SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
 2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
 3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNUAL SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
 4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
 5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
 6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

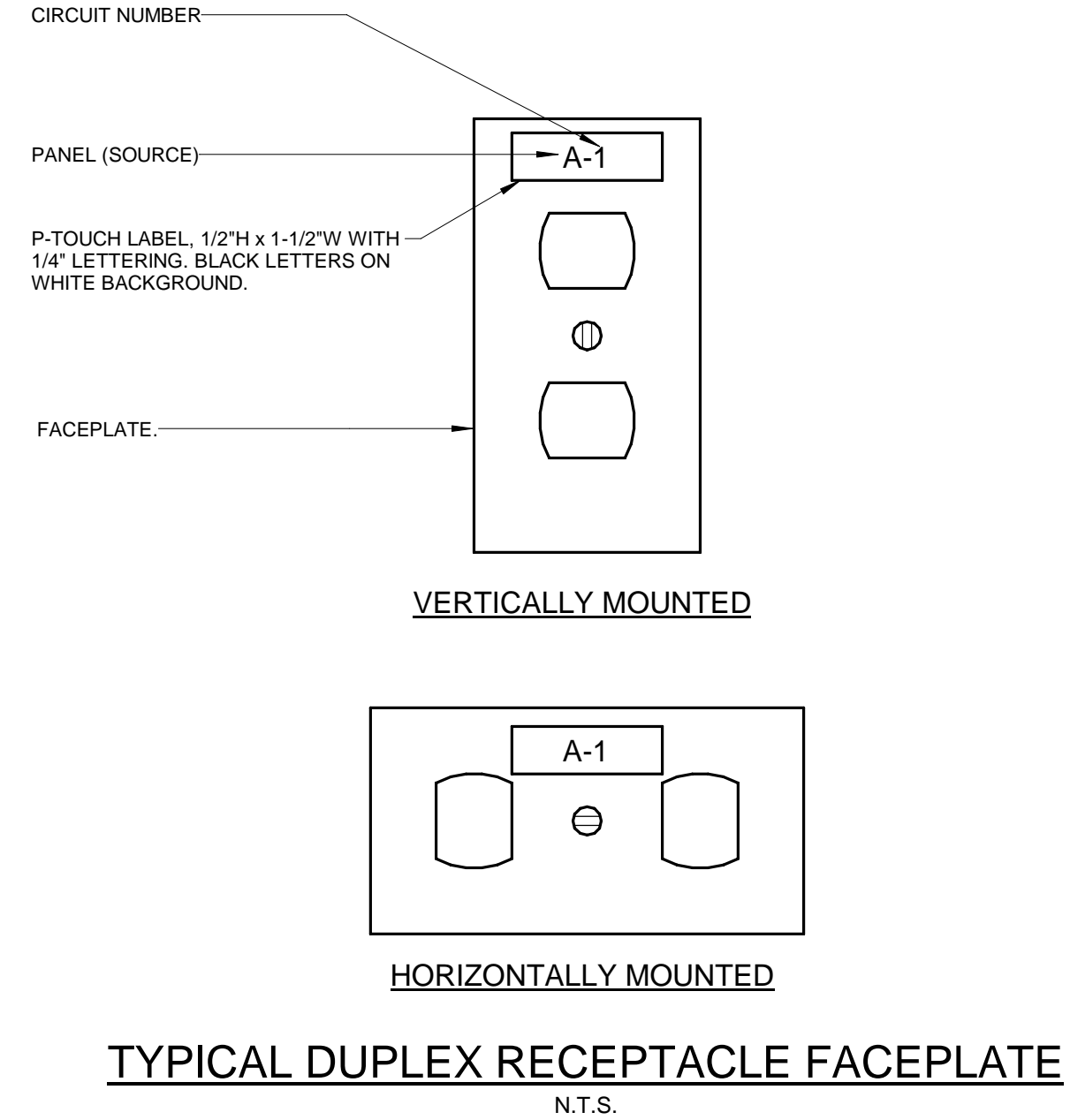
FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTIONS
 N.T.S.



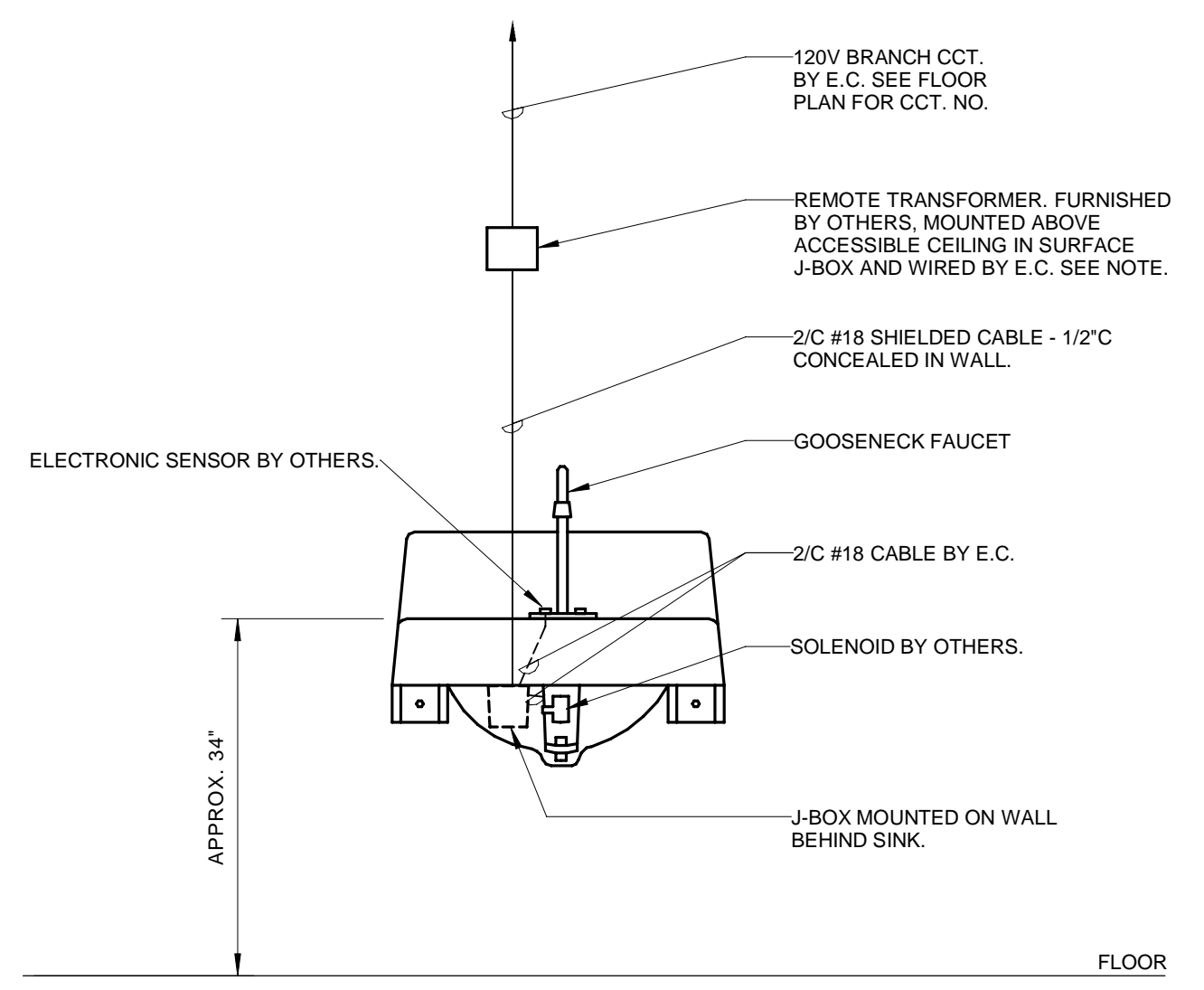
COMBINATION MOTOR STARTER WIRING DIAGRAM
 N.T.S.



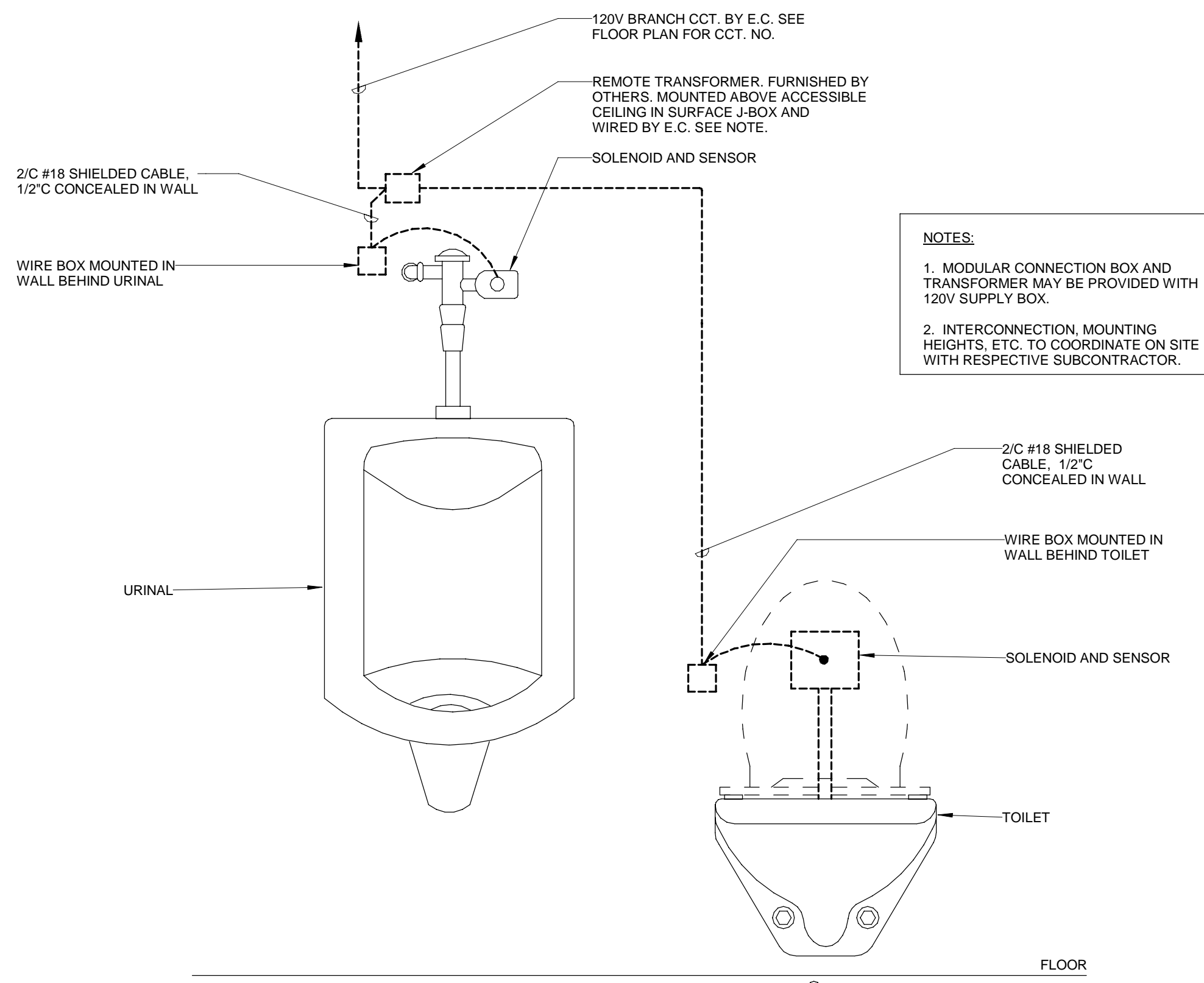
RELAY-IN-A-BOX DETAIL
 N.T.S.



TYPICAL DUPLEX RECEPTACLE FACEPLATE
 N.T.S.



(SYMBOL "Q" Rev 1)
ELECTRONIC SINK CONTROL WIRING DETAIL
 N.T.S.



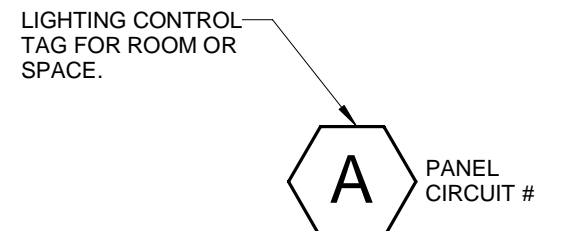
(SYMBOL "Q" Rev 1)
ELECTRONIC URINAL/TOILET WIRING DETAIL
 N.T.S.

LIGHTING CONTROLS NOTES

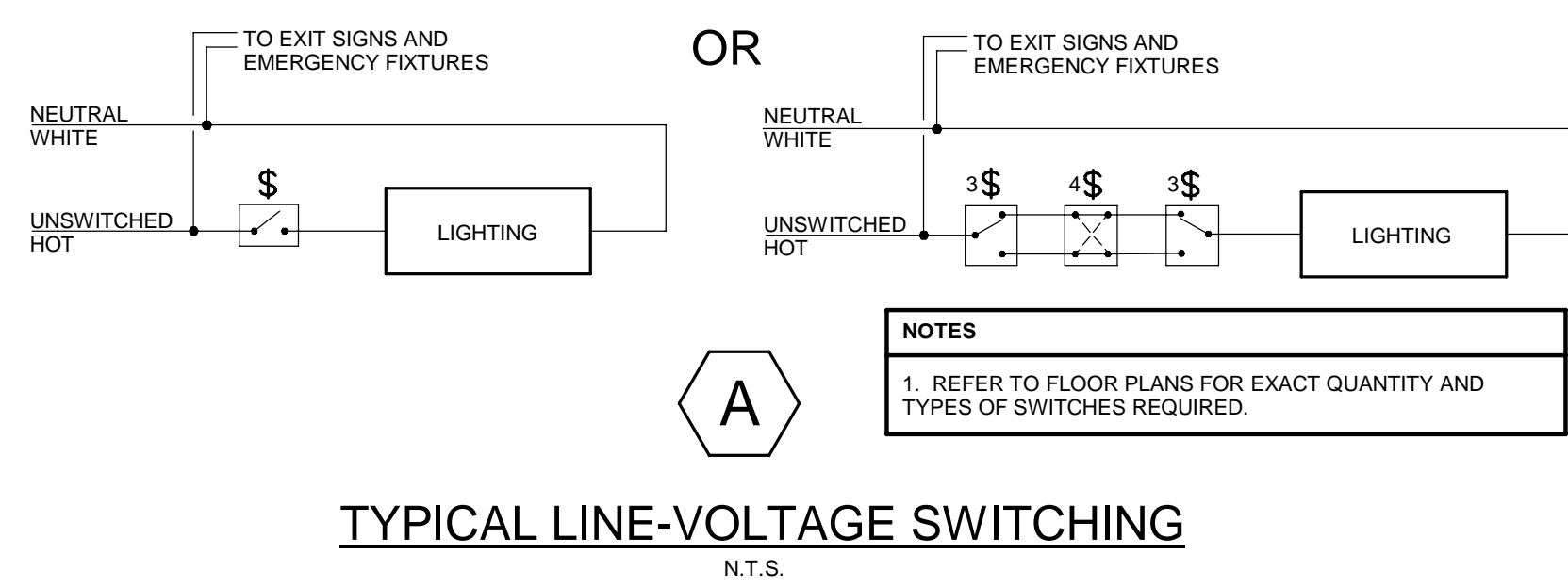
- REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF CONTROL DEVICES SUCH AS SWITCHES, OCCUPANCY SENSORS, ETC.
- REFER TO FLOOR PLANS FOR LOCATIONS OF UNSWITCHED "NIGHT-LIGHT" EMERGENCY FIXTURES.

OCCUPANCY SENSOR CONFIGURATION			
ROOM DESCRIPTION	AUTOMATIC ON	MANUAL ON	MANUAL ON/AUTOMATIC TO 50%
PRIVATE OFFICE			X
OPEN OFFICE		X	
RESTROOM	X		
STORAGE	X		
COURTROOM		X	
CONFERENCE/MEETING/TRAINING		X	
LUNCH/BREAK ROOM		X	
COPY/PRINT		X	

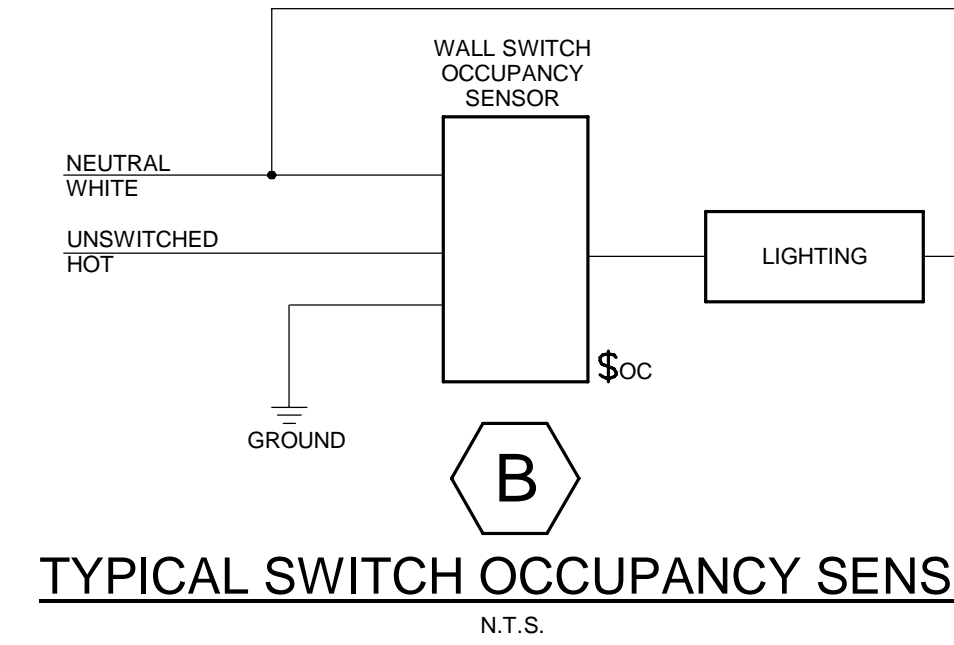
NOTES:
1. SENSOR MUST SHUT OFF LIGHTS WITHIN 30 MINUTES OF UNOCCUPIED USE



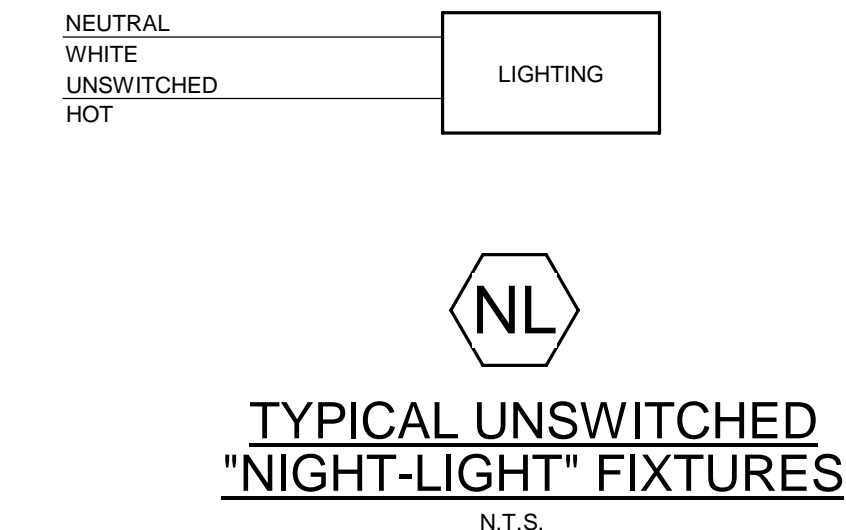
LIGHTING CONTROL TAG DETAILS
N.T.S.



TYPICAL LINE-VOLTAGE SWITCHING
N.T.S.



TYPICAL SWITCH OCCUPANCY SENSOR
N.T.S.

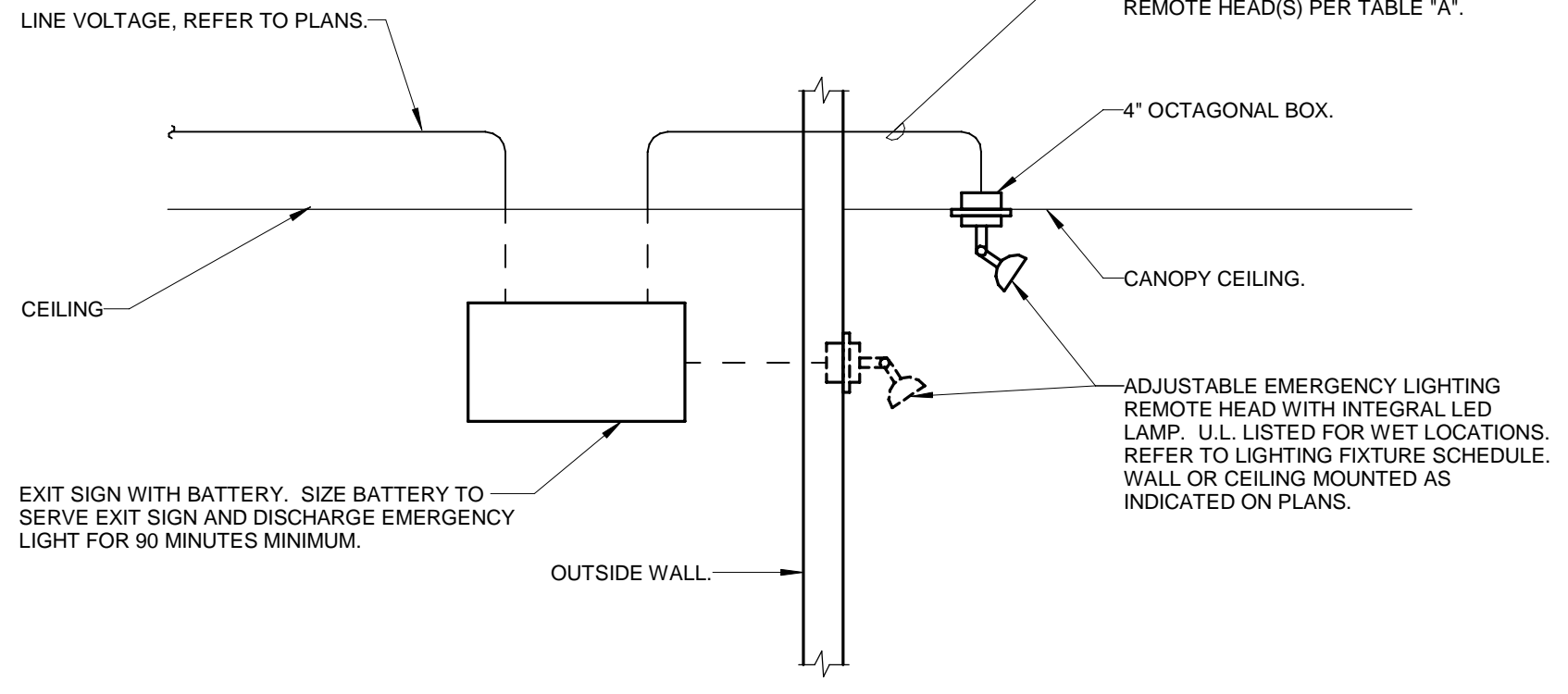


TYPICAL UNSWITCHED "NIGHT-LIGHT" FIXTURES
N.T.S.

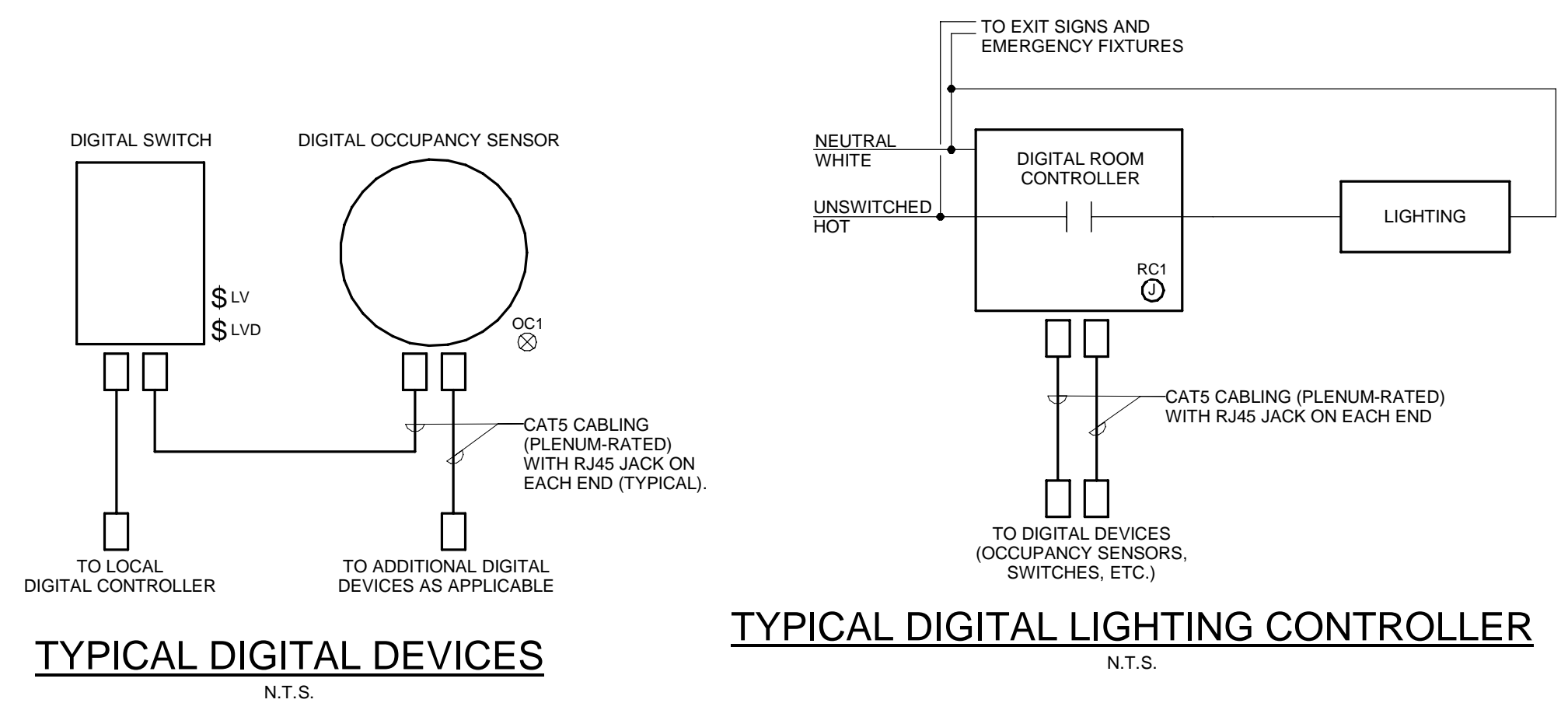
DIGITAL LIGHTING CONTROL TYPES			
CONTROL TAG	NON-DIM ZONES	0-10V DIM ZONES	ADDITIONAL REMARKS
C	1	-	
D	-	1	
E	-	2	
F	-	4	PROVIDE WITH PARTITION SENSOR FOR CENTER PARTITION. LIGHTING CONTROLS SHALL COMBINE OR SPLIT ZONE CONTROLS AS REQUIRED DEPENDING ON THE POSITION OF THE PARTITION.
G	1	-	EXTERIOR LIGHTING ZONE. CONNECT TO DIGITAL NETWORK BRIDGE. CONTROLLED BY TIME SCHEDULE AND PHOTOCELL.

WIRE SIZE	MAX. CIRCUIT LENGTH (FT)		
	1	2	3
#12	59	29	19
#10	94	47	31
#8	150	84	50

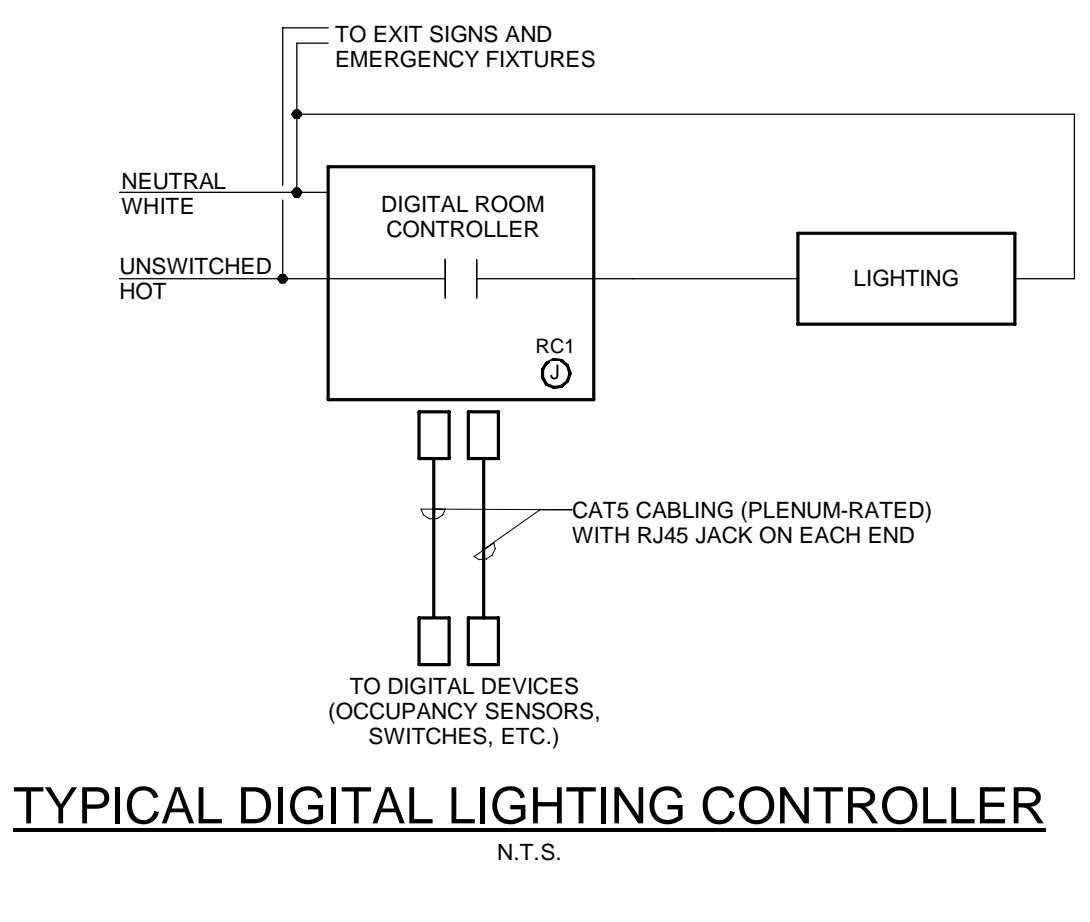
TABLE "A"



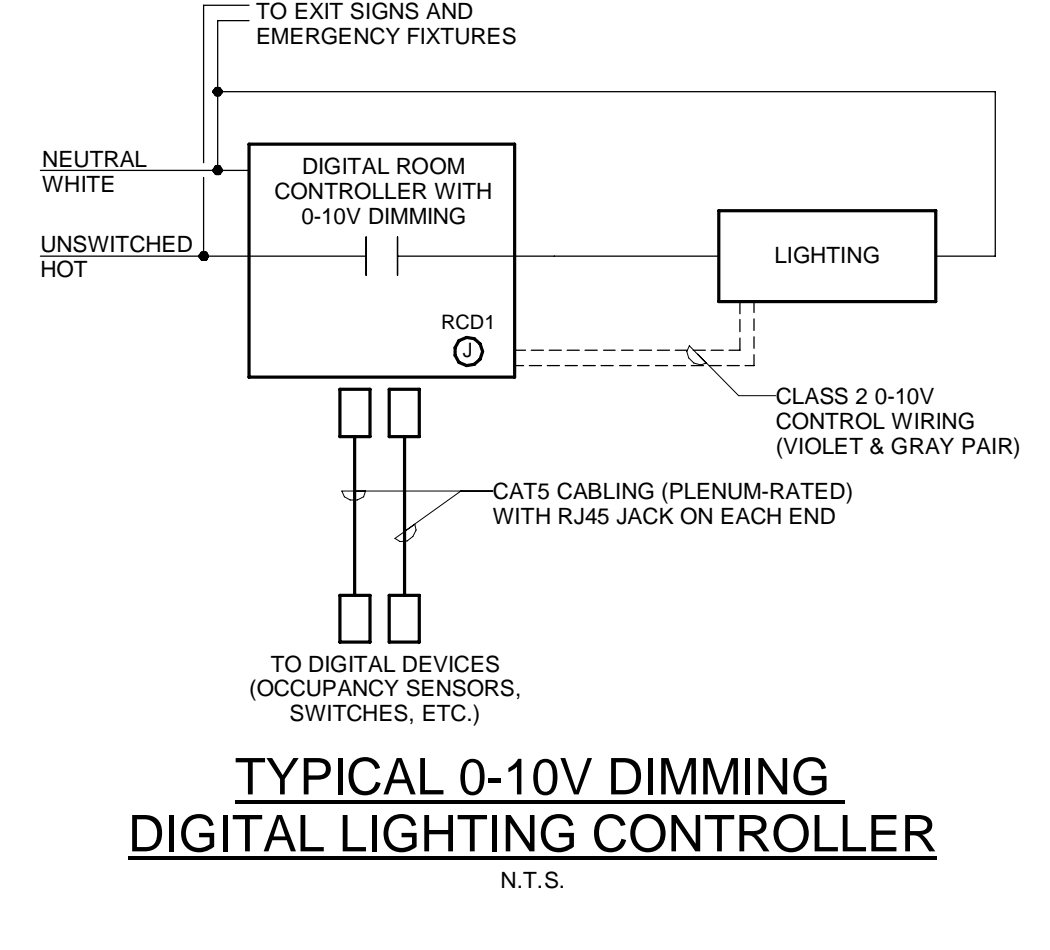
EXIT SIGN AND EXIT DISCHARGE EMERGENCY LIGHTING COMBO DETAIL
N.T.S.



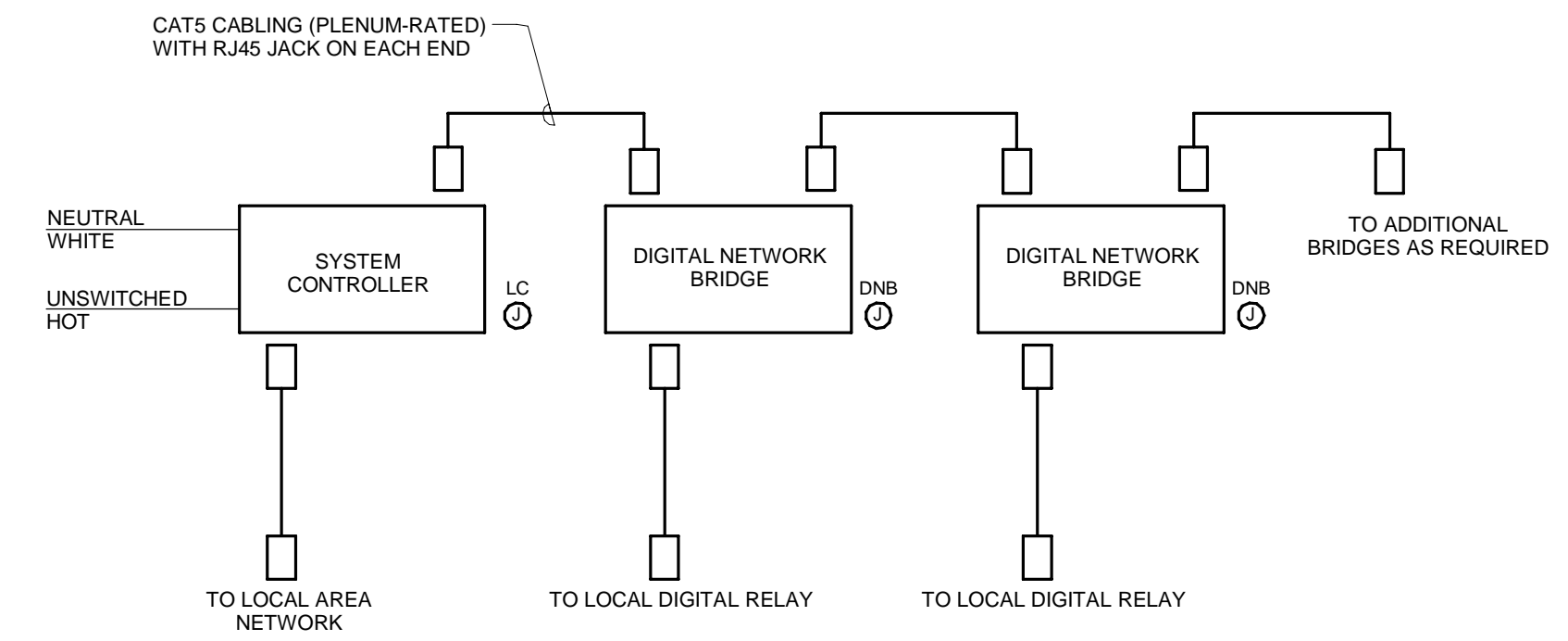
TYPICAL DIGITAL DEVICES
N.T.S.



TYPICAL DIGITAL LIGHTING CONTROLLER
N.T.S.



TYPICAL 0-10V DIMMING DIGITAL LIGHTING CONTROLLER
N.T.S.



DIGITAL LIGHTING CONTROL NETWORK
N.T.S.

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