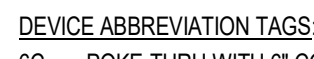



































































BASIC MATERIALS		LIGHTING	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	62 = POKE-THRU WITH 6" CORE DRILL 8C = POKE-THRU WITH 8" CORE DRILL 4G = FOUR-GANG FLOOR BOX 6G = SIX-GANG FLOOR BOX 8V = EIGHT-GANG FLOOR BOX AV = DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART E+ = EXISTING TO REMAIN H+ = HIGH BAY IG = ISOLATED GROUND (ORANGE DEVICE) P = PENDANT MOUNTED R = RELAY/REMOTE CONTROL OF RECEPTACLE CIRCUIT FOR AUTOMATIC SHUTOFF RL = RELOCATED T = TAMPERPROOF TV = RECEPTACLE MOUNTED ADJACENT TO TV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. UP = DUPLEX RECEPTACLE WITH (2) USB PORTS WB = WEATHERPROOF	 MH  PB  HH  T  ATS NEMA RATING, NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH. RATING AS NOTED NF = NON-FUSED AF = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA RATING, NEMA 1 UNLESS OTHERWISE NOTED  FUSED DISCONNECT AF = AMPERE RATING OF FUSE AF = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE  MCP RATING # OF POLES NEMA RATING, NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE  SWITCHBOARD/SWITCHGEAR/DISTRIBUTION PANEL  BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED  BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, FLUSH MOUNTED  BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED  BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED  CONDUIT CONCEALED ABOVE CEILING OR IN WALL  CONDUIT EXPOSED  CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR  CONDUIT HOMERUN TO ELECTRICAL PANEL  CONDUIT TURNING UP  CONDUIT TURNING DOWN  CONDUIT STUBBED OUT OR UP  CONDUIT CONTINUED  FLEXIBLE CONDUIT  CONDUIT SEAL-OFF FITTING  GROUND OR GROUND ROD AS NOTED  EXISTING TO BE REMOVED (HEAVY, DASHED LINE)  EXISTING TO REMAIN (LIGHT, SOLID LINE)  NEW (HEAVY, SOLID LINE)	 LED OR FLUORESCENT STRIP FIXTURE  FIXTURE TYPE  LED OR FLUORESCENT FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER  LED OR FLUORESCENT FIXTURE RECESSED, PENDANT OR SURFACE CEILING  LED, FLUORESCENT, HID, RECESSED, PENDANT OR SURFACE CEILING LED, FLUORESCENT, HID, WALL MOUNTED LED, FLUORESCENT, HID - CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACENT LIGHT, FACADE LIGHT  TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS)  EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED  LINEAR FLUORESCENT, LED, RECESSED, PENDANT OR SURFACE CEILING  EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS  EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE  EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE  EXIT LIGHT, LED, WALL MOUNTED
		LIGHTNING PROTECTION SYSTEM	
		 CI CLASS I MAIN CONDUCTOR CABLE  CII CLASS II MAIN CONDUCTOR CABLE  TEE SPLICE  FOUR-WAY SPLICE  BONDING PLATE AIR TERMINAL: PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE SLANT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS  GROUND TERMINAL  BONDING CONDUCTOR  COUNTERPOISE CONDUCTOR  THRU-ROOF CONDUCTOR	
FIRE ALARM/DETECTION SYSTEM			
SYMBOL	DESCRIPTION		
 	MANUAL PULL STATION CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION		
	DUCT SMOKE DETECTOR R = RETURN S = SUPPLY		
	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER		
	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED		
	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY		
	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED		
	COMBINATION SPEAKER-STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING		
	HORN ONLY, WALL MOUNTED		
	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING		
	COMBINATION SPEAKER-STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING		
	SPEAKER ONLY, CEILING MOUNTED		
	SPEAKER ONLY, WALL MOUNTED		
	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED		
	FIREMAN'S PHONE JACK		
	SPRINKLER TAMPER SWITCH CONNECTION		
	SPRINKLER WATERFLOW SWITCH CONNECTION		
	PRESSURE SWITCH CONNECTION		
	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM TERMINAL CABINET		
	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED		
	VOICE EVACUATION PANEL		
	MASS NOTIFICATION SYSTEM PANEL		
	KNOX BOX, MOUNT AT 6'-0" AFF		
		AC ALTERNATING CURRENT ABV CLG ABOVE CEILING ADA AMERICANS WITH DISABILITIES ACT AF AMPERE FRAME AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHU AIR HANDLING UNIT AMP AMPERE INTERRUPTING CAPACITY AL ALUMINUM ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ASA AMERICAN STANDARDS ASSOCIATION AT AMPERE TRIP ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY AWG AMERICAN WIRE GAUGE BC BASIC COPPER BDA BUILDING AUTOMATION SYSTEM BMS BUILDING MANAGEMENT SYSTEM BRKR OR BKR BREAKER C CABINET CB CONDUIT OR RACEWAY CCT CRUIT CB CIRCUIT BREAKER CATV CABLE TELEVISION CCTV CLOSED CIRCUIT TELEVISION CLG CEILING CO CONDUIT OR RACEWAY ONLY CONAX COAXIAL CABLE COND CONDUCTOR CONN CONNECTION CENTRAL PROCESSING UNIT CR CONTROLLED RECEPTACLE CURRENT TRANSFORMER CUT COPPER DC DIRECT CURRENT DDC DIRECT DIGITAL CONTROL DEG DEGREE DF DEMAND FLOOR DISC DISCONNECT DISC SW DISCONNECT SWITCH DOWN DOWN EDH ELECTRIC DUCT HEATER EMT EXISTING TO REMAIN EOL END OF LINE EOR ENGINEER OF RECORD ETR EXISTING TO REMAIN EWC ELECTRIC WATER COOLER FA FIRE ALARM FALP FIRE ALARM ANNUNCIATOR PANEL FATC FIRE ALARM TERMINAL CABINET FBC FLORIDA BUILDING CODE FCU FAN COIL UNIT FLA FULL LOAD AMPERES FT FEET GF GROUND FAULT GFCI GROUND FAULT CIRCUIT INTERRUPTER GFR GROUND FAULT RELAY GROUND GROUND HP HORSEPOWER HORZ HORIZONTAL IBC INTERNATIONAL BUILDING CODE IECC INTERNATIONAL ENERGY CONSERVATION CODE IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS IES ILLUMINATING ENGINEERING SOCIETY IMC INTERMEDIATE METAL CONDUIT IN INCHES IPCEA INSULATED POWER CABLE ENGINEERS ASSOCIATION INST INSTANTANEOUS TRIP JB OR JBOX JUNCTION BOX KCML ONE THOUSAND CIRCULAR MILS KV KILOVOLT KVA KILOVOLT AMPERES KW KILOWATT KWH KILOWATT HOURS LBS POUNDS LED LIGHT EMITTING DIODE LIGHT LIGHTING PROTECTION LT LIGHT LTG LIGHTING LSIG LONG TIME, SHORT TIME, INSTANTANEOUS GROUND LSIA LONG TIME, SHORT TIME, INSTANTANEOUS ALARM LSI LONG TIME, SHORT TIME, INSTANTANEOUS MAX MAXIMUM MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MDP MAIN SERVICE DISTRIBUTION PANEL MIC MICROPHONE MIN MINIMUM MNL MANN LUIS ONLY MOCP MAXIMUM OVERCURRENT PROTECTION MSB MAIN SERVICE SWITCHBOARD MNT MOUNTED MTO MOUNTING MTR MOTOR MTS MANUAL TRANSFER SWITCH MUX MULTIPLEX (TRANSPONDER) PANEL N NEUTRAL NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NFPA NATIONAL FIRE PROTECTION ASSOCIATION NOT NOT IN CONTRACT NF NON-FUSED NL NON-LINEAR NO NORMALLY OPEN OR NUMBER OVERLOAD OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION P POLE P-B PUSHBOX PF POWER FACTOR PV POST INDICATOR VALVE PNL PANEL PR PAIR PRI PRIMARY PVC POLYVINYL CHLORIDE PWR POWER REC RECEPT REF REFRIGERATOR RGS, GRG RIGID GALVANIZED STEEL CONDUIT RTU ROOF TOP UNIT SCA SHORT CIRCUIT AMPERES SD SMOKE DETECTOR SEC SECONDARY SN SOLID NEUTRAL SPD SURGE PROTECTIVE DEVICE SPST SINGLE POLE SINGLE THROW SS STAINLESS STEEL STD SOLID STATE TRIP STT SHORT TIME TRIP SW SWITCH SWBD SWITCHBOARD SWGR SWITCHGEAR TYP TYPICAL UG UNDERGROUND UN UNLESS OTHERWISE NOTED UL UNDERWRITERS LABORATORIES UTIL UTILITY V VOLT VA VOLT-AMPERE VAR VOLT AMPERE REACTIVE VARIABLE AR VOLUME VFD VARIABLE FREQUENCY DRIVE W WIRE WP WEATHER PROOF XMR TRANSFORMER XFR TRANSFER	
NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.			

SHEET	DESCRIPTION
E001	ELECTRICAL SYMBOLS, LEGENDS, AND INDEX
E002	GENERAL NOTES
E011	ELECTRICAL SITE PLAN
E012	ELECTRICAL PLUMB PLAN
E013	PHOTOMETRICS PLAN
E101	POWER PLAN - BASEMENT LEVEL - AREA 1 - LIBRARY
E111	POWER PLAN - 1ST LEVEL - AREA 1 - LIBRARY
E112	POWER PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER
E113	POWER PLAN - 1ST LEVEL AND ROOF PLAN - AREA 3 - PORTE COCHERE
E121	POWER PLAN - 2ND LEVEL - AREA 1 - LIBRARY
E122	POWER PLAN - 2ND LEVEL AND ROOF - AREA 2 - EVENTS CENTER
E131	ELECTRICAL ROOF PLAN - AREA 1 - LIBRARY
E132	ELECTRICAL HIGH ROOF PLAN - AREA 2 - EVENTS CENTER
E201	LIGHTING PLAN - BASEMENT LEVEL - AREA 1 - LIBRARY
E211	LIGHTING PLAN - 1ST LEVEL - AREA 1 - LIBRARY
E212	LIGHTING PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER
E213	LIGHTING PLAN - 1ST LEVEL AND ROOF - AREA 3 - PORTE COCHERE
E221	LIGHTING PLAN - 2ND LEVEL - AREA 1 - LIBRARY
E222	LIGHTING PLAN - 2ND LEVEL AND ROOF - AREA 2 - EVENTS CENTER
E500	ENLARGED PLANS - ELECTRICAL
E501	ENLARGED PLANS - ELECTRICAL
E601	POWER RISER DIAGRAM
E602	FIRE ALARM RISER DIAGRAM
E701	ELECTRICAL DETAILS
E702	ELECTRICAL DETAILS
E703	ELECTRICAL DETAILS
E704	ELECTRICAL DETAILS
E705	ELECTRICAL DETAILS
E801	LIGHT FIXTURE AND ZONING SCHEDULES
E802	MECHANICAL EQUIPMENT CONNECTION SCHEDULE
E811	PANEL SCHEDULES
E812	PANEL SCHEDULES
E813	PANEL SCHEDULES
E814	PANEL SCHEDULES



SEAL

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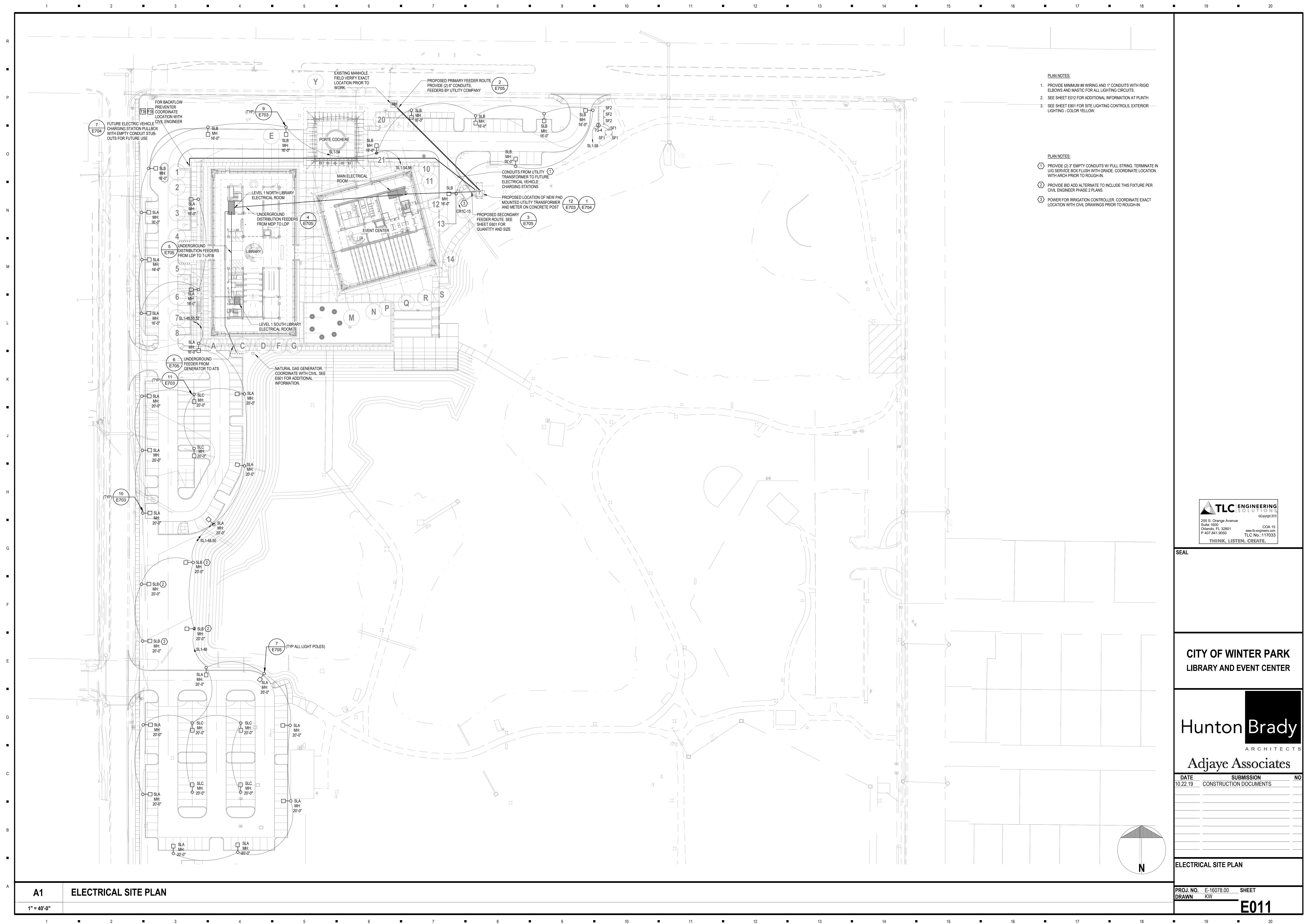
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ELECTRICAL SYMBOLS, LEGENDS, AND INDEX

PROJ. NO.	E-16078.00	SHEET
DRAWN	KW	

E001



PLAN NOTES

1. PROVIDE MINIMUM #8 WIRING AND 1" CONDUITS WITH RIGID ELBOWS AND MASTIC FOR ALL LIGHTING CIRCUITS.
2. SEE SHEET E012 FOR ADDITIONAL INFORMATION AT PLINTH
3. SEE SHEET E801 FOR SITE LIGHTING CONTROLS, EXTERIOR LIGHTING - COLOR YELLOW.

PLAN NOTES

- ① PROVIDE (2) 3" EMPTY CONDUITS W/ PULL STRING. TERMINATE U/G SERVICE BOX FLUSH WITH GRADE. COORDINATE LOCATION WITH ARCH PRIOR TO ROUGH-IN.
- ② PROVIDE BID ADD ALTERNATE TO INCLUDE THIS FIXTURE PER CIVIL ENGINEER PHASE 2 PLANS.
- ③ POWER FOR IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS PRIOR TO ROUGH-IN.

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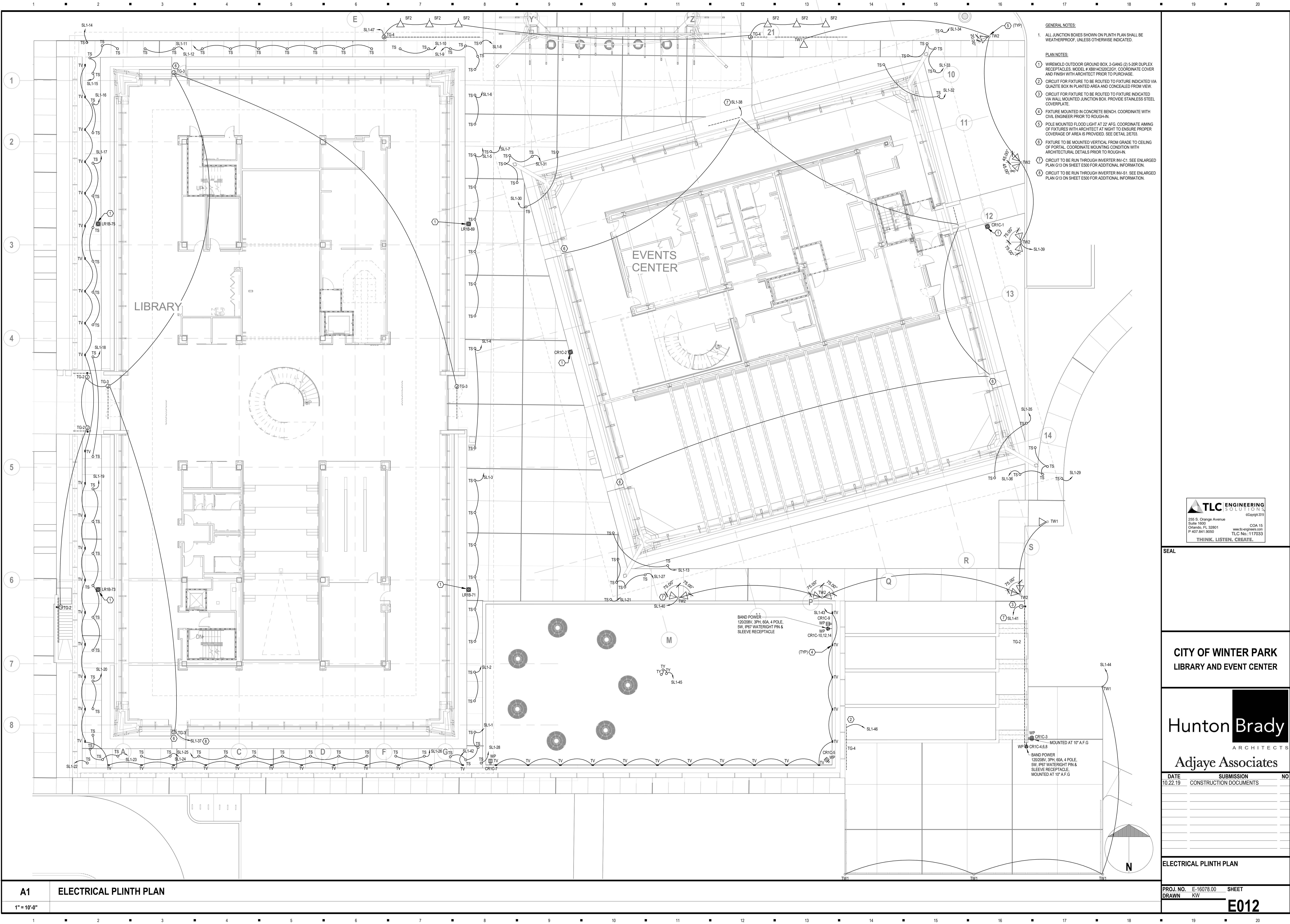
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ELECTRICAL SITE PLAN

PROJ. NO.	E-16078.00	SHEET
DRAWN	KW	

E011



- GENERAL NOTES:
1. ALL JUNCTION BOXES SHOWN ON PLINTH PLAN SHALL BE WEATHERPROOF, UNLESS OTHERWISE INDICATED.
- PLAN NOTES:
- ① WIREMOLD OUTDOOR GROUND BOX, 2-GANG (2) 5-20R DUPLEX RECEPTACLES, MODEL # X8814C5202GV, COORDINATE COVER AND FINISH WITH ARCHITECT PRIOR TO PURCHASE.
 - ② CIRCUIT FOR FIXTURE TO BE ROUTED TO FIXTURE INDICATED VIA QUARTZITE BOX IN PLANTED AREA AND CONCEALED FROM VIEW.
 - ③ CIRCUIT FOR FIXTURE TO BE ROUTED TO FIXTURE INDICATED VIA WALL MOUNTED JUNCTION BOX. PROVIDE STAINLESS STEEL COVERPLATE.
 - ④ FIXTURE MOUNTED IN CONCRETE BENCH. COORDINATE WITH CIVIL ENGINEER PRIOR TO ROUGH-IN.
 - ⑤ POLE MOUNTED FLOOD LIGHT AT 22' AFG. COORDINATE AIMING OF FIXTURES WITH ARCHITECT AT NIGHT TO ENSURE PROPER COVERAGE OF AREA IS PROVIDED. SEE DETAIL 2/E03.
 - ⑥ FIXTURE TO BE MOUNTED VERTICAL FROM GRADE TO CEILING OF PORTAL. COORDINATE MOUNTING CONDITION WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN.
 - ⑦ CIRCUIT TO BE RUN THROUGH INVERTER INV-C1. SEE ENLARGED PLAN G13 ON SHEET E500 FOR ADDITIONAL INFORMATION.
 - ⑧ CIRCUIT TO BE RUN THROUGH INVERTER INV-S1. SEE ENLARGED PLAN G13 ON SHEET E500 FOR ADDITIONAL INFORMATION.

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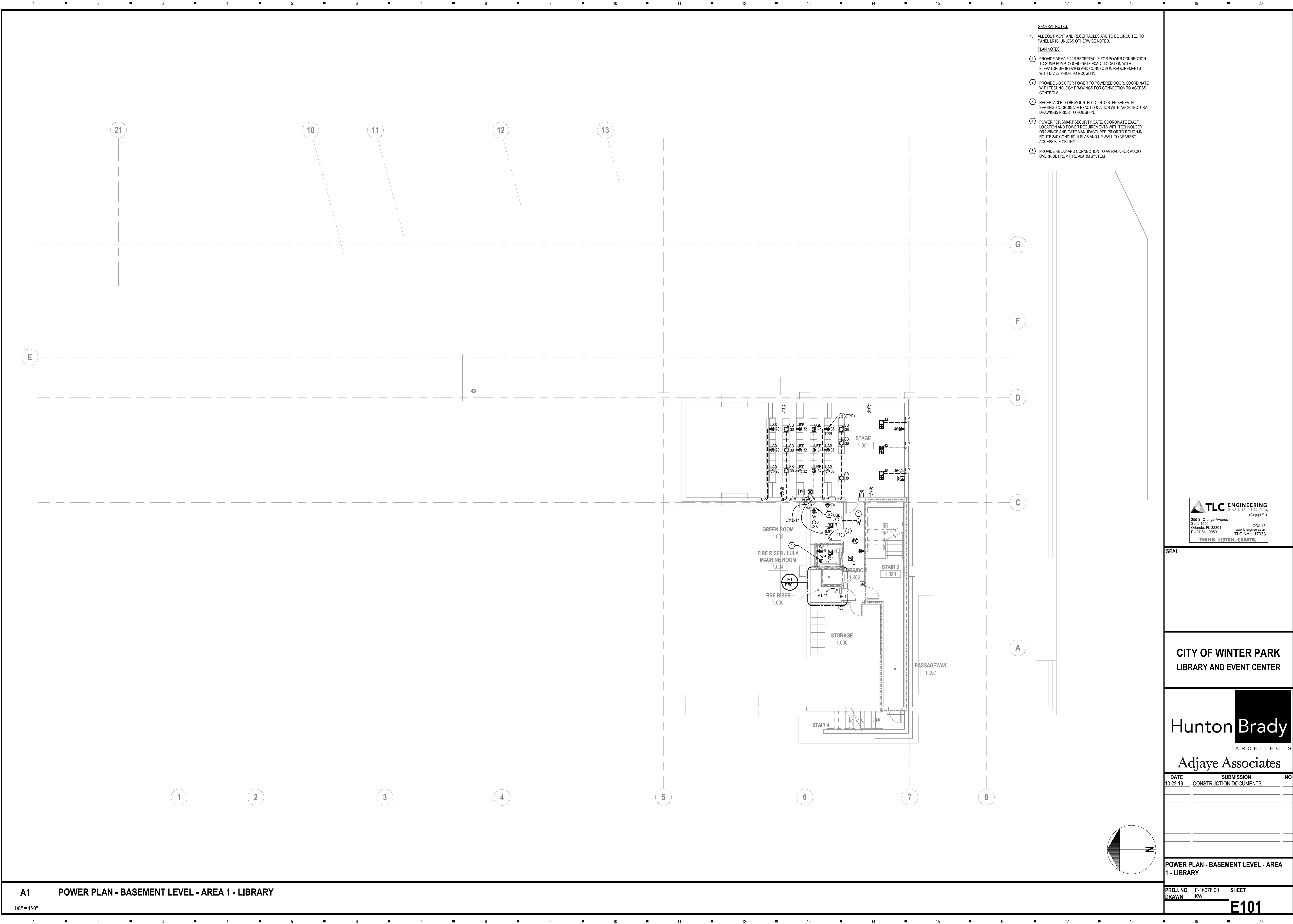
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10.22.19	CONSTRUCTION DOCUMENTS	

ELECTRICAL PLINTH PLAN

PROJ. NO. E-16078.00 SHEET
DRAWN KV
E012



GENERAL NOTES:

1. ALL EQUIPMENT AND RECEPTACLES ARE TO BE CIRCUITED TO PANEL LR1B, UNLESS OTHERWISE NOTED.

PLAN NOTES:

① PROVIDE NEMA 6-20R RECEPTACLE FOR POWER CONNECTION TO SUMP PUMP. COORDINATE EXACT LOCATION WITH ELEVATOR SHOP DWGS AND CONNECTION REQUIREMENTS WITH DIV 22 PRIOR TO ROUGH-IN.

② PROVIDE J-BOX FOR POWER TO POWERED DOOR. COORDINATE WITH TECHNOLOGY DRAWINGS FOR CONNECTION TO ACCESS CONTROLS.

③ RECEPTACLE TO BE MOUNTED TO INTO STEP BENEATH SEATING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

④ POWER FOR SMART SECURITY GATE. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH TECHNOLOGY DRAWINGS AND GATE MANUFACTURER PRIOR TO ROUGH-IN. ROUTE 3/4" CONDUIT IN SLAB AND UP WALL TO NEAREST ACCESSIBLE CEILING.

⑤ PROVIDE RELAY AND CONNECTION TO AV RACK FOR AUDIO OVERRIDE FROM FIRE ALARM SYSTEM.



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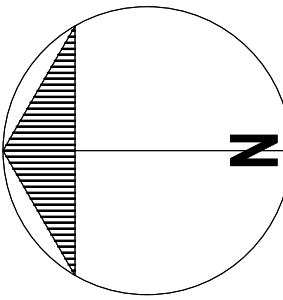
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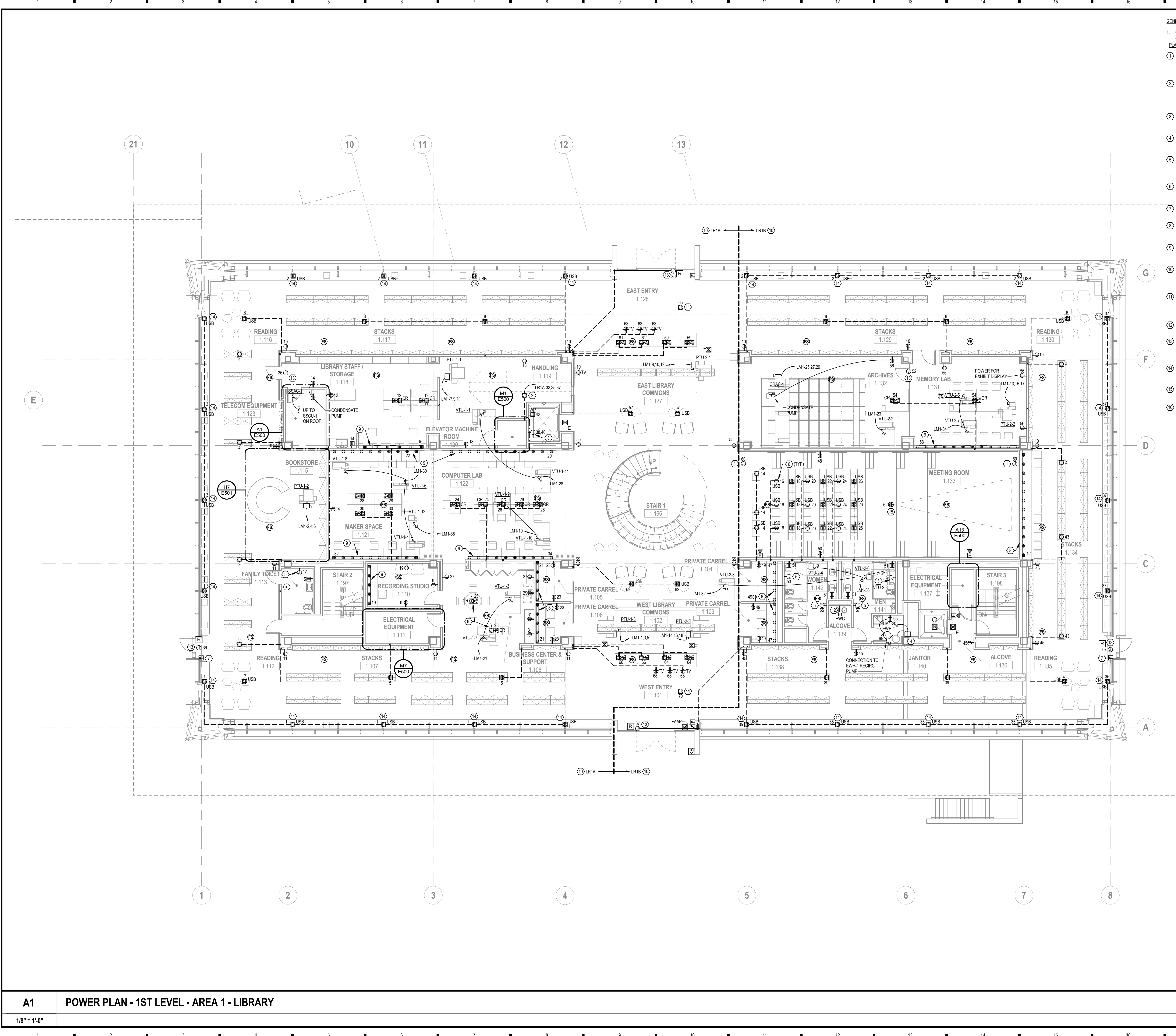
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E101



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- GENERAL NOTES:
1. CEILING MOUNTED FIRE ALARM DEVICES IN THE MEETING ROOM SHALL BE RED IN COLOR.
 2. POWER FOR RETRACTABLE ACOUSTIC BANNER. COORDINATE POWER REQUIREMENTS AND MOUNTING WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN. COORDINATE CONTROLS WITH CRESTRON SYSTEM WITHIN ROOM.
 3. PROVIDE NEMA L21-4R RECEPTACLE IN FLOOR MOUNTED JUNCTION BOX FOR MATERIAL HANDLER WITH #8, 1800ND, 17C. VERIFY NEMA PLUG CONFIGURATION WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION AND ROUTING OF CONDUIT AND WIRE.
 4. PROVIDE CONNECTION TO SLUMP PUMP. COORDINATE LOCATION WITH ELEVATOR SHOP DINGS AND CONNECTION REQUIREMENTS WITH DIV 22 PRIOR TO ROUGH-IN.
 5. PROVIDE CONNECTION TO ELECTRICAL WATER HEATER. COORDINATE LOCATION AND POWER REQUIREMENTS WITH DIV 23 CONTRACTOR PRIOR TO ROUGH-IN.
 6. POWER FOR HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
 7. RECEPTACLE TO BE MOUNTED TO NTO STEP BENEATH SEATING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
 8. FIRE ALARM PULL STATION MOUNTED TO MULLION. COORDINATE MULLION MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.
 9. WIREMOLD AL2000 SERIES PLUG MOLD. 9" SPACING OF OUTLETS AND USB OUTLETS. HARDWIRED CONNECTION. TAMPER RESISTANT OUTLETS.
 10. WIREMOLD AL4800 SERIES DUAL CHANNEL PLUG MOLD. 12" SPACING OF OUTLETS AND DATA OUTLETS. HARDWIRED CONNECTION. TAMPER RESISTANT OUTLETS.
 11. ALL EQUIPMENT AND RECEPTACLES ON THIS SIDE OF DASHED LINE ARE TO PANEL INDICATED, UNLESS OTHERWISE NOTED. CIRCUIT NUMBERS ARE LOCATED ADJACENT TO EQUIPMENT OR DEVICE.
 12. PROVIDE POWER TO SECURITY GATES. COORDINATE CONNECTION WITH TECHNOLOGY DETAIL 2 SHEET T703. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
 13. POWER FOR ELECTRIC WATER COOLER. COORDINATE WITH PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
 14. PROVIDE CONNECTION TO POWERED DOOR. COORDINATE WITH TECHNOLOGY DRAWINGS AND DOOR HARDWARE VENDOR FOR CONNECTION REQUIREMENTS AND EXACT LOCATION PRIOR TO ROUGH-IN.
 15. PROVIDE POP-UP RECEPTACLE MOUNTED IN TOP OF BENCH. BASIS OF DESIGN IS LEVITON #PFUS2. COORDINATE ROUGH-IN WITH STRUCTURAL.
 16. POWER FOR PROJECTOR. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
 17. PROVIDE CONNECTION TO MODULAR FURNITURE. COORDINATE EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.

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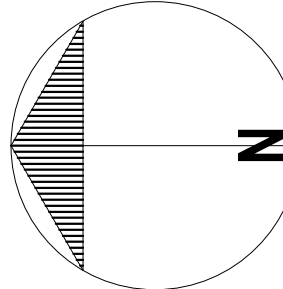
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POWER PLAN - 1ST LEVEL - AREA 1 - LIBRARY

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E111





GENERAL NOTES:

1. ALL ELECTRICAL FIXTURES ARE TO BE CIRCUITED TO PANEL CRIA UNLESS OTHERWISE NOTED.
2. CEILING MOUNTED FIRE ALARM DEVICES IN THE PREFUNCTION, CORRIDORS, AND MAIN ASSEMBLY SHALL BE RED IN COLOR.

PLAN NOTES:

- ① POWER FOR HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- ② POWER FOR UNDERCOUNTER REFRIGERATOR.
- ③ POWER FOR ELECTRIC WATER COOLER. COORDINATE WITH PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
- ④ PROVIDE CONNECTION TO POWERED DOOR. COORDINATE WITH TECHNOLOGY DRAWINGS AND DOOR HARDWARE VENDOR FOR CONNECTION REQUIREMENTS AND EXACT LOCATION PRIOR TO ROUGH-IN.
- ⑤ PROVIDE CONNECTION TO LIGHTED MIRROR. WIRE THRU LIGHTING CONTROLS WITHIN ROOM TO TURN ON/OFF WITH GENERAL ROOM LIGHTING. COORDINATE SPECIFICATION AND POWER REQUIREMENTS WITH ARCHITECT DWGS PRIOR TO ROUGH-IN.
- ⑥ PROVIDE CONNECTION TO MOTORIZED ROLLER SHADES AND WALL MOUNTED SWITCH FOR CONTROL. COORDINATE SPECIFICATION AND POWER REQUIREMENTS WITH ARCHITECT DWGS PRIOR TO ROUGH-IN.
- ⑦ PROVIDE POP-UP RECEPTACLE MOUNTED IN TOP OF BENCH. BASIS OF DESIGN IS LEVITON #PFUS2. COORDINATE ROUGH-IN WITH STRUCTURAL.
- ⑧ POWER FOR PROJECTOR. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.

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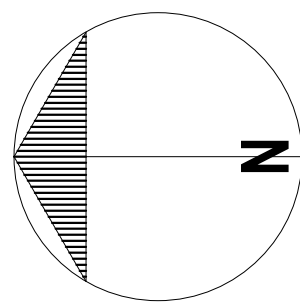
POWER PLAN - 1ST LEVEL - AREA 2 -
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E112

A1 POWER PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



1. PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780, FOR UL MASTER LABEL, INCLUDING BURIED COUNTERPOISE; CONDUCTOR, BONDED TO COPPER DOWN CONDUCTORS; COPPER DOWN CONDUCTORS ARE TO BE A MAXIMUM 100' CENTER TO CENTER AT ROOF EDGE, CONCEALED UNDER ROOFING, OR UNDER DOWN COLUMN OR WALL, DOWN TO BURIED COUNTERPOISE. PROVIDE GROUND TEST WELDS, WITH APPROPRIATE TRAFFIC RATED COVERS, FOR GROUND RODS; COORDINATE LOCATION WITH LANDSCAPING AND HARDSCAPE AROUND BUILDING, AND PROVIDE UNBLENDED ALL CONNECTIONS ARE TO BE A FULL EXOTHERMIC WELD. ALL CONDUCTORS FROM HIGHER TO LOWER ROOFS SHALL BE CONCEALED FROM VIEW. PROVIDE COMPLETE 1/8" SCALE = 1'-0" SHOD SHOP DRAWINGS SHOWING ALL COMPONENTS, MOUNTING DETAILS, ROOF PENETRATION DETAILS, BONDING POINTS, ROOF EQUIPMENT, ETC. ALL LIGHTNING PROTECTION SYSTEM CONNECTIONS AND AIR TERMINALS MOUNTED IN THE INTERIOR OF THE ROOF SHALL BE BLUNT TYPED.



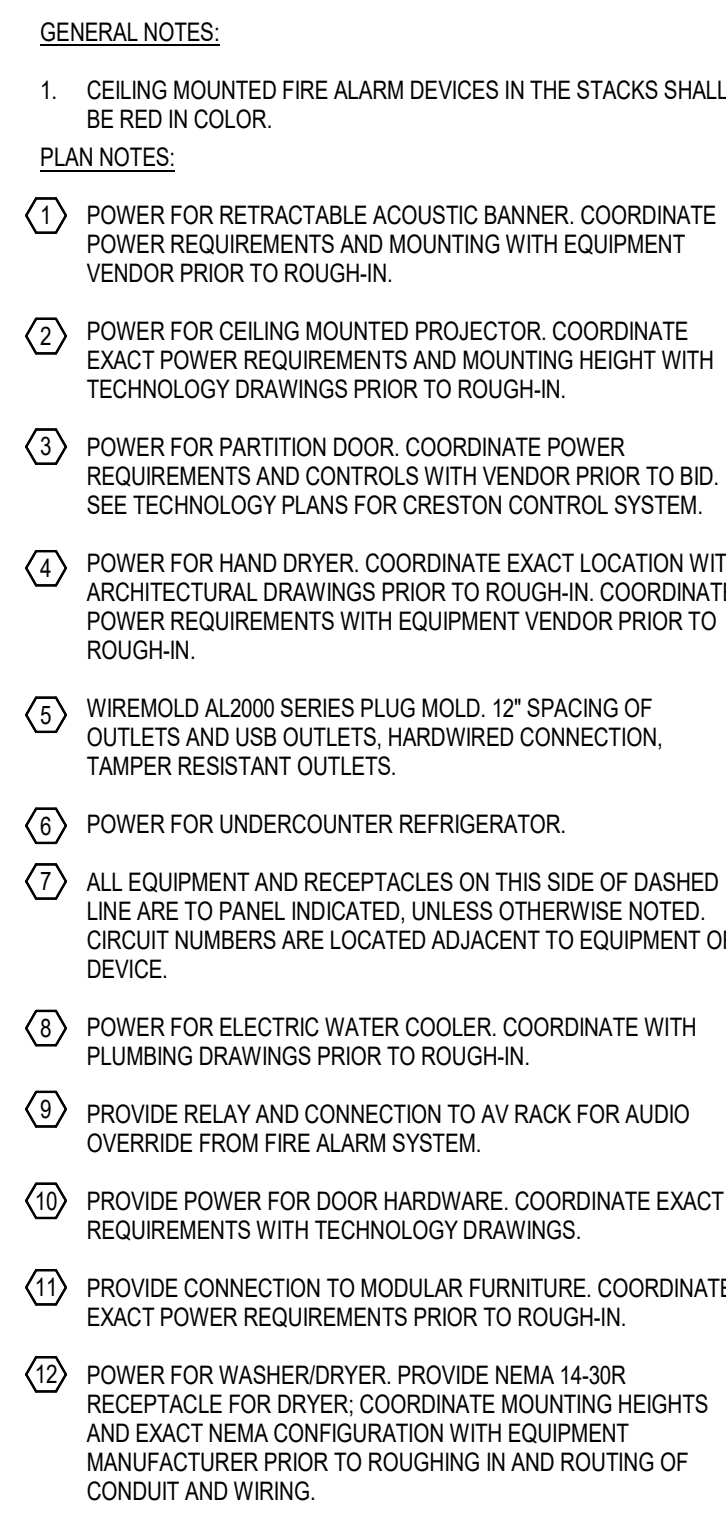
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POWER PLAN - 1ST LEVEL AND ROOF
PLAN - AREA 3 - PORTE COCHERE

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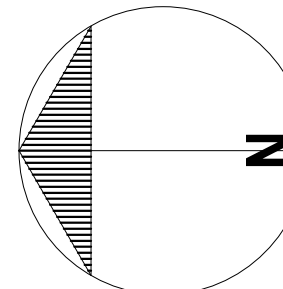
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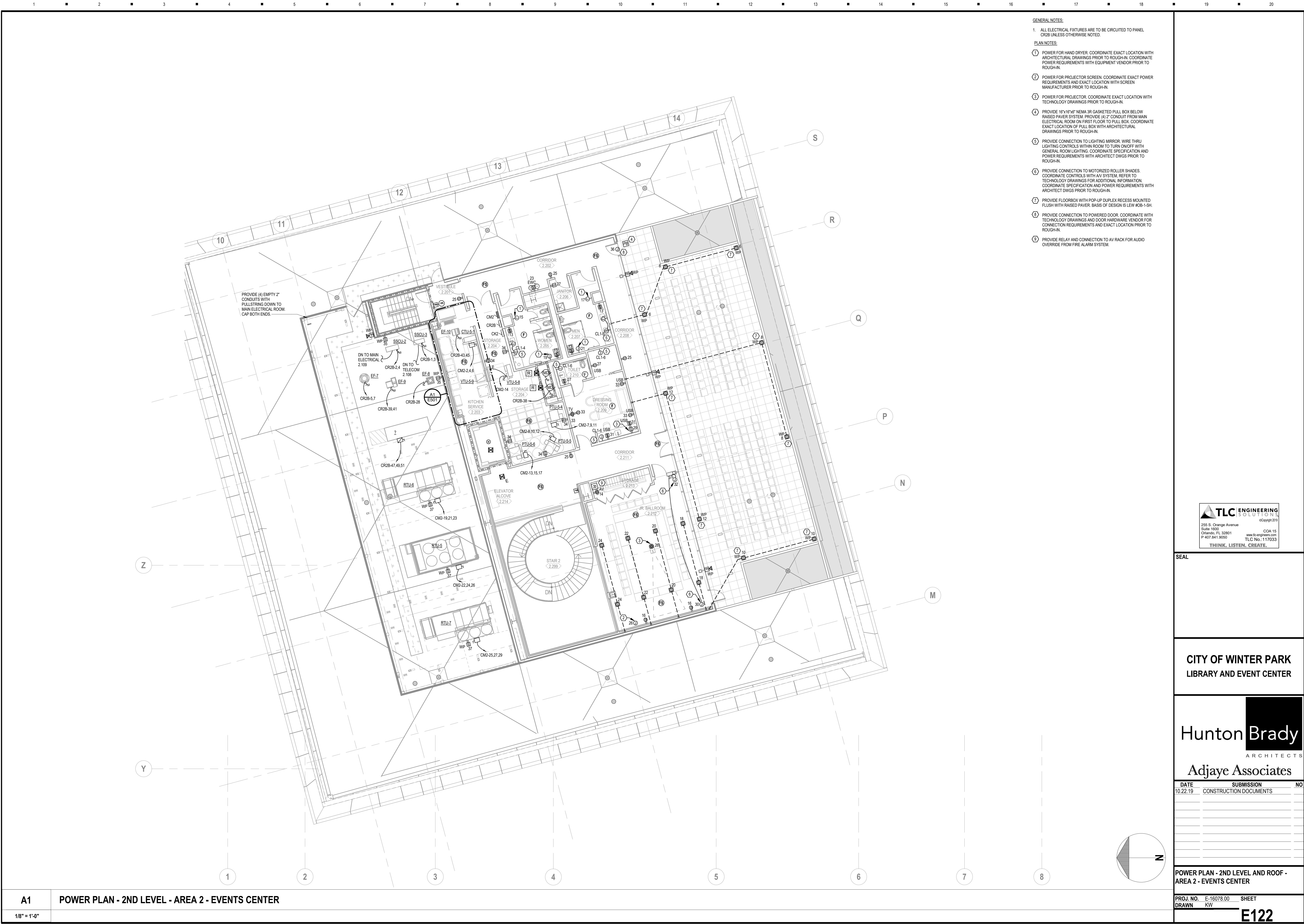


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POWER PLAN - 2ND LEVEL - AREA 1 -
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GENERAL NOTES:

1. ALL ELECTRICAL FIXTURES ARE TO BE CIRCUITED TO PANEL CR2B UNLESS OTHERWISE NOTED.

PLAN NOTES:

- POWER FOR HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. COORDINATE POWER REQUIREMENTS WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- POWER FOR PROJECTOR SCREEN. COORDINATE EXACT POWER REQUIREMENTS AND EXACT LOCATION WITH SCREEN MANUFACTURER PRIOR TO ROUGH-IN.
- POWER FOR PROJECTOR. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE 16"x16"x4" NEMA 3R GASKETED PULL BOX BELOW RAISED PAVER SYSTEM. PROVIDE (4) 2" CONDUIT FROM MAIN ELECTRICAL ROOM ON FIRST FLOOR TO PULL BOX. COORDINATE EXACT LOCATION OF PULL BOX WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO LIGHTING MIRROR. WIRE THRU LIGHTING CONTROLS WITHIN ROOM TO TURN ON/OFF WITH GENERAL ROOM LIGHTING. COORDINATE SPECIFICATION AND POWER REQUIREMENTS WITH ARCHITECT DWGS PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO MOTORIZED ROLLER SHADES. COORDINATE CONTROLS WITH AV SYSTEM. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE SPECIFICATION AND POWER REQUIREMENTS WITH ARCHITECT DWGS PRIOR TO ROUGH-IN.
- PROVIDE FLOORBOX WITH POP-UP DUPLEX RECESS MOUNTED FLUSH WITH RAISED PAVER. BASIS OF DESIGN IS LEW #0B-1-SH.
- PROVIDE CONNECTION TO POWERED DOOR. COORDINATE WITH TECHNOLOGY DRAWINGS AND DOOR HARDWARE VENDOR FOR CONNECTION REQUIREMENTS AND EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE RELAY AND CONNECTION TO AV RACK FOR AUDIO OVERRIDE FROM FIRE ALARM SYSTEM.

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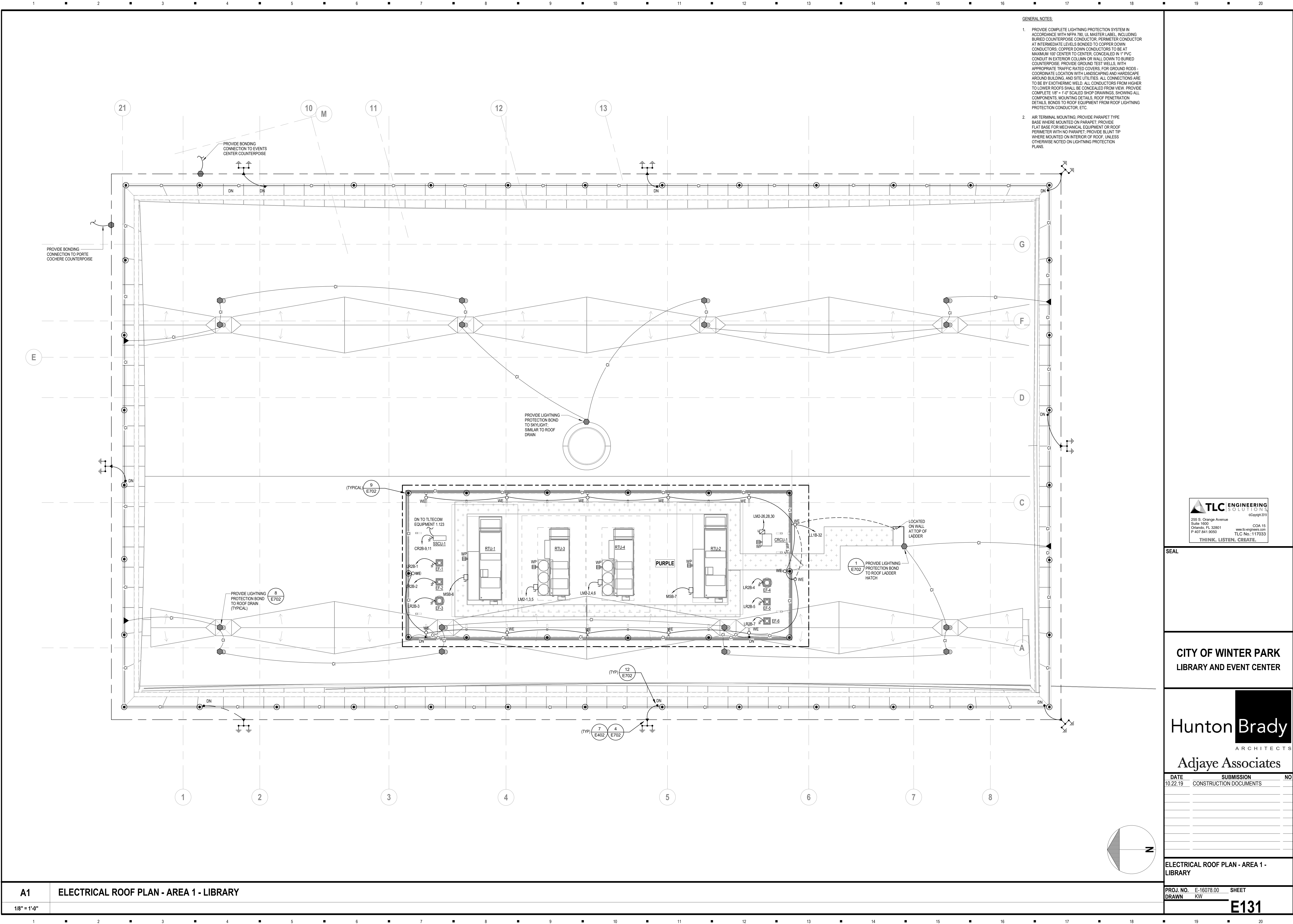
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POWER PLAN - 2ND LEVEL AND ROOF -
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E122



- GENERAL NOTES:
1. PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780, UL MASTER LABEL, INCLUDING BURIED COUNTERPOISE CONDUCTOR, PERIMETER CONDUCTOR AT INTERMEDIATE LEVELS BONDED TO COPPER DOWN CONDUCTORS, COPPER DOWN CONDUCTORS TO BE AT MAXIMUM 100' CENTER TO CENTER, CONCEALED IN 1" PVC CONDUIT IN EXTERIOR COLUMN OR WALL DOWN TO BURIED COUNTERPOISE. PROVIDE GROUND TEST WELLS, WITH APPROPRIATE TRAFFIC RATED COVERS, FOR GROUND RODS - COORDINATE LOCATION WITH LANDSCAPING AND HARDSCAPE AROUND BUILDING, AND SITE UTILITIES. ALL CONNECTIONS ARE TO BE BY EXOTHERMIC WELD. ALL CONDUCTORS FROM HIGHER TO LOWER ROOFS SHALL BE CONCEALED FROM VIEW. PROVIDE COMPLETE 1/8" x 1'-0" SCALED SHOP DRAWINGS, SHOWING ALL COMPONENTS, MOUNTING DETAILS, ROOF PENETRATION DETAILS, BONDS TO ROOF EQUIPMENT FROM ROOF LIGHTNING PROTECTION CONDUCTOR, ETC.
 2. AIR TERMINAL MOUNTING: PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS.

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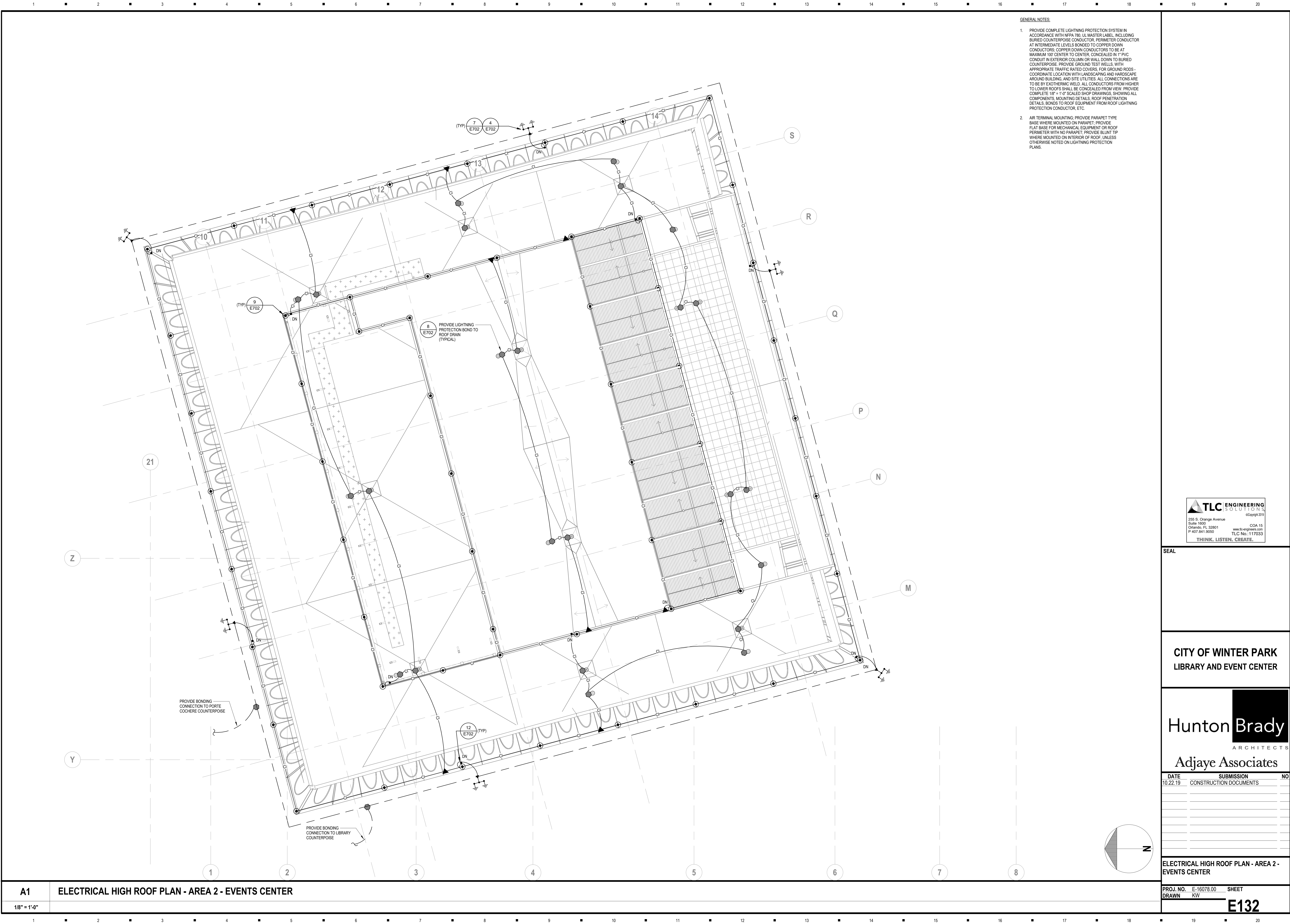
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ELECTRICAL ROOF PLAN - AREA 1 - LIBRARY

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E131



- GENERAL NOTES:
1. PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780, UL MASTER LABEL, INCLUDING BURIED COUNTERPOISE CONDUCTOR, PERIMETER CONDUCTOR AT INTERMEDIATE LEVELS BONDED TO COPPER DOWN CONDUCTORS, COPPER DOWN CONDUCTORS TO BE AT MAXIMUM 100' CENTER TO CENTER, CONCEALED IN 1" PVC CONDUIT IN EXTERIOR COLUMN OR WALL DOWN TO BURIED COUNTERPOISE. PROVIDE GROUND TEST WELLS, WITH APPROPRIATE TRAFFIC RATED COVERS, FOR GROUND RODS - COORDINATE LOCATION WITH LANDSCAPING AND HARDSCAPE AROUND BUILDING, AND SITE UTILITIES. ALL CONNECTIONS ARE TO BE BY EXOTHERMIC WELD. ALL CONDUCTORS FROM HIGHER TO LOWER ROOFS SHALL BE CONCEALED FROM VIEW. PROVIDE COMPLETE 1/8" x 1'-0" SCALED SHOP DRAWINGS, SHOWING ALL COMPONENTS, MOUNTING DETAILS, ROOF PENETRATION DETAILS, BONDS TO ROOF EQUIPMENT FROM ROOF LIGHTNING PROTECTION CONDUCTOR, ETC.
 2. AIR TERMINAL MOUNTING: PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS.

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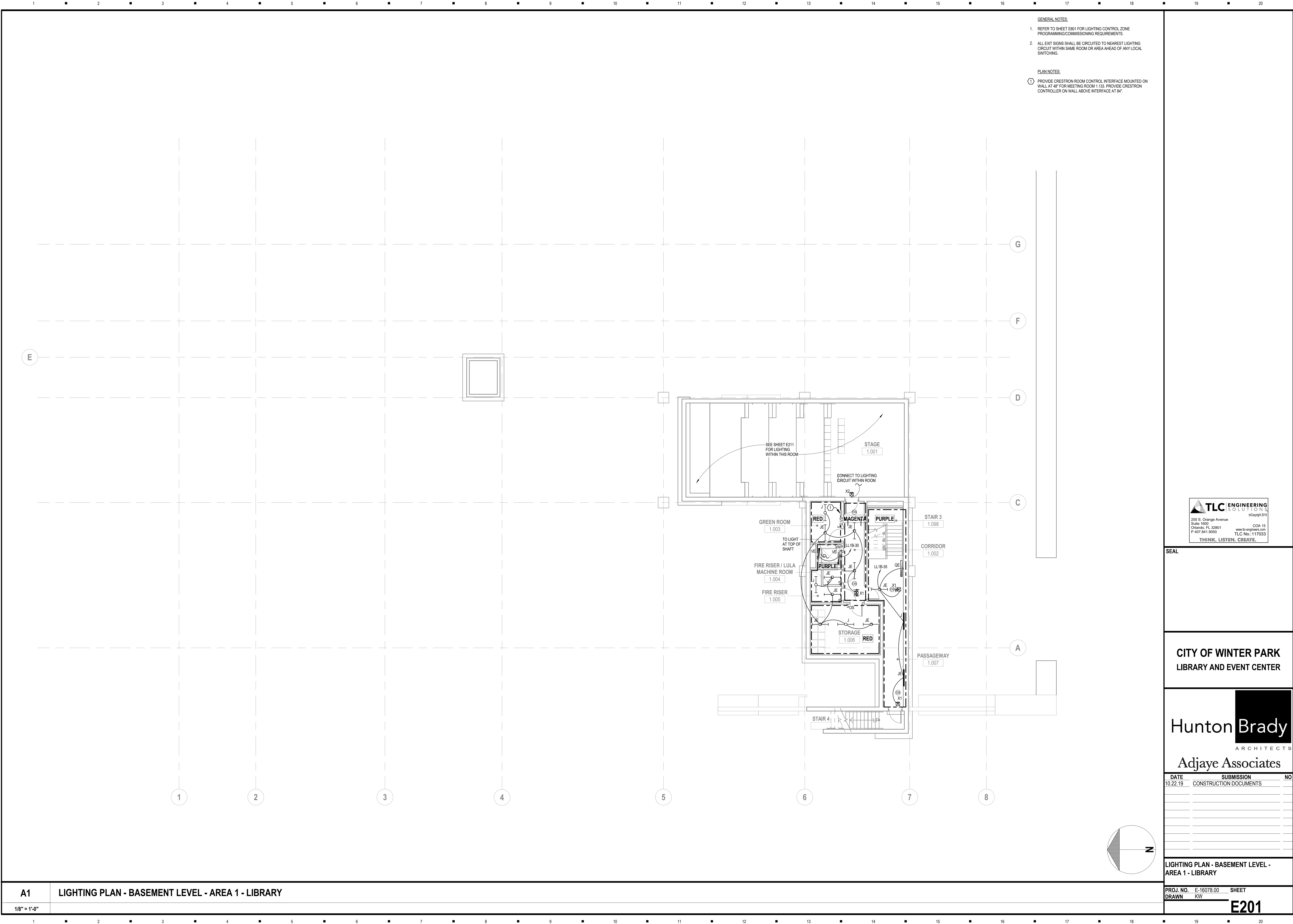
ELECTRICAL HIGH ROOF PLAN - AREA 2 -
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E132

A1 ELECTRICAL HIGH ROOF PLAN - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



GENERAL NOTES:

- REFER TO SHEET E801 FOR LIGHTING CONTROL ZONE PROGRAMMING/COMMISSIONING REQUIREMENTS.
- ALL EXIT SIGNS SHALL BE CIRCUITED TO NEAREST LIGHTING CIRCUIT WITHIN SAME ROOM OR AREA AHEAD OF ANY LOCAL SWITCHING.

PLAN NOTES:

- PROVIDE CRESTRON ROOM CONTROL INTERFACE MOUNTED ON WALL AT 48" FOR MEETING ROOM 1.133. PROVIDE CRESTRON CONTROLLER ON WALL ABOVE INTERFACE AT 84".

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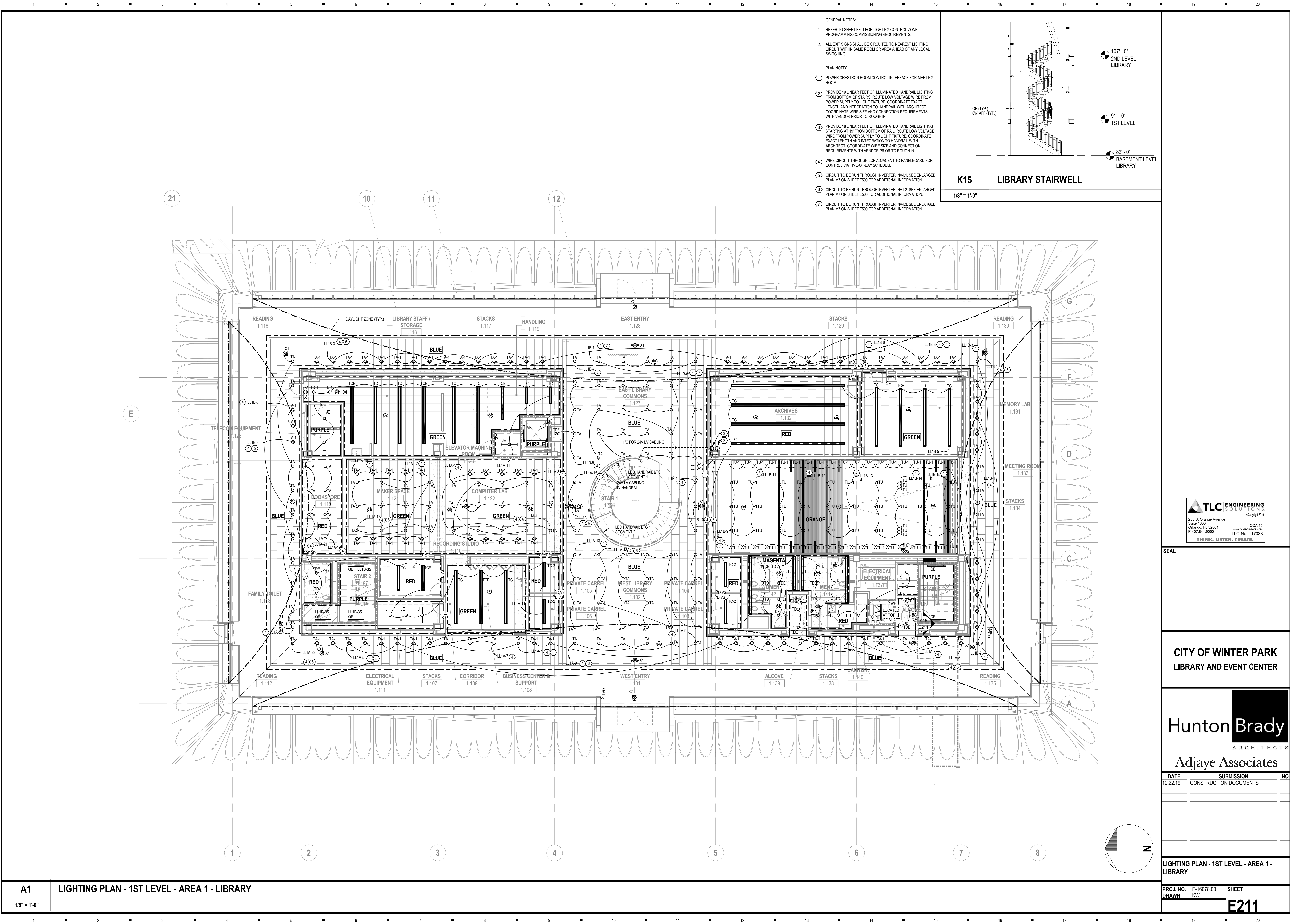
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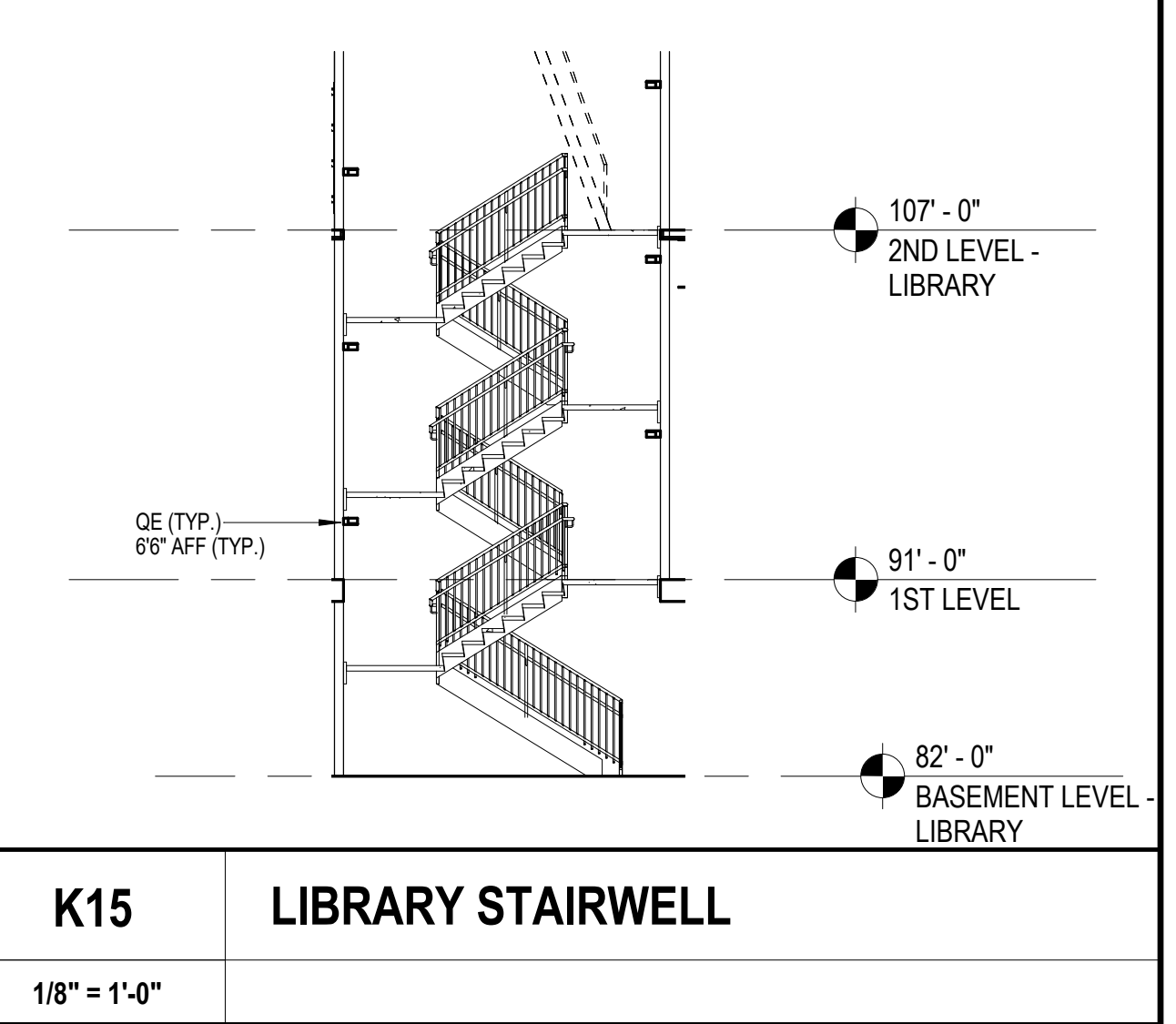
LIGHTING PLAN - BASEMENT LEVEL -
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E201



- GENERAL NOTES:
1. REFER TO SHEET E801 FOR LIGHTING CONTROL ZONE PROGRAMMING/COMMISSIONING REQUIREMENTS.
 2. ALL EXIT SIGNS SHALL BE CIRCUITED TO NEAREST LIGHTING CIRCUIT WITHIN SAME ROOM OR AREA AHEAD OF ANY LOCAL SWITCHING.
- PLAN NOTES:
1. POWER CRESTRON ROOM CONTROL INTERFACE FOR MEETING ROOM.
 2. PROVIDE 19 LINEAR FEET OF ILLUMINATED HANDRAIL LIGHTING FROM BOTTOM OF STAIRS. ROUTE LOW VOLTAGE WIRE FROM POWER SUPPLY TO LIGHT FIXTURE. COORDINATE EXACT LENGTH AND INTEGRATION TO HANDRAIL WITH ARCHITECT. COORDINATE WIRE SIZE AND CONNECTION REQUIREMENTS WITH VENDOR PRIOR TO ROUGH IN.
 3. PROVIDE 18 LINEAR FEET OF ILLUMINATED HANDRAIL LIGHTING STARTING AT 18' FROM BOTTOM OF RAIL. ROUTE LOW VOLTAGE WIRE FROM POWER SUPPLY TO LIGHT FIXTURE. COORDINATE EXACT LENGTH AND INTEGRATION TO HANDRAIL WITH ARCHITECT. COORDINATE WIRE SIZE AND CONNECTION REQUIREMENTS WITH VENDOR PRIOR TO ROUGH IN.
 4. WIRE CIRCUIT THROUGH LCP ADJACENT TO PANELBOARD FOR CONTROL VIA TIME-OF-DAY SCHEDULE.
 5. CIRCUIT TO BE RUN THROUGH INVERTER NV-1. SEE ENLARGED PLAN M7 ON SHEET E500 FOR ADDITIONAL INFORMATION.
 6. CIRCUIT TO BE RUN THROUGH INVERTER NV-2. SEE ENLARGED PLAN M7 ON SHEET E500 FOR ADDITIONAL INFORMATION.
 7. CIRCUIT TO BE RUN THROUGH INVERTER NV-3. SEE ENLARGED PLAN M7 ON SHEET E500 FOR ADDITIONAL INFORMATION.



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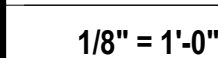
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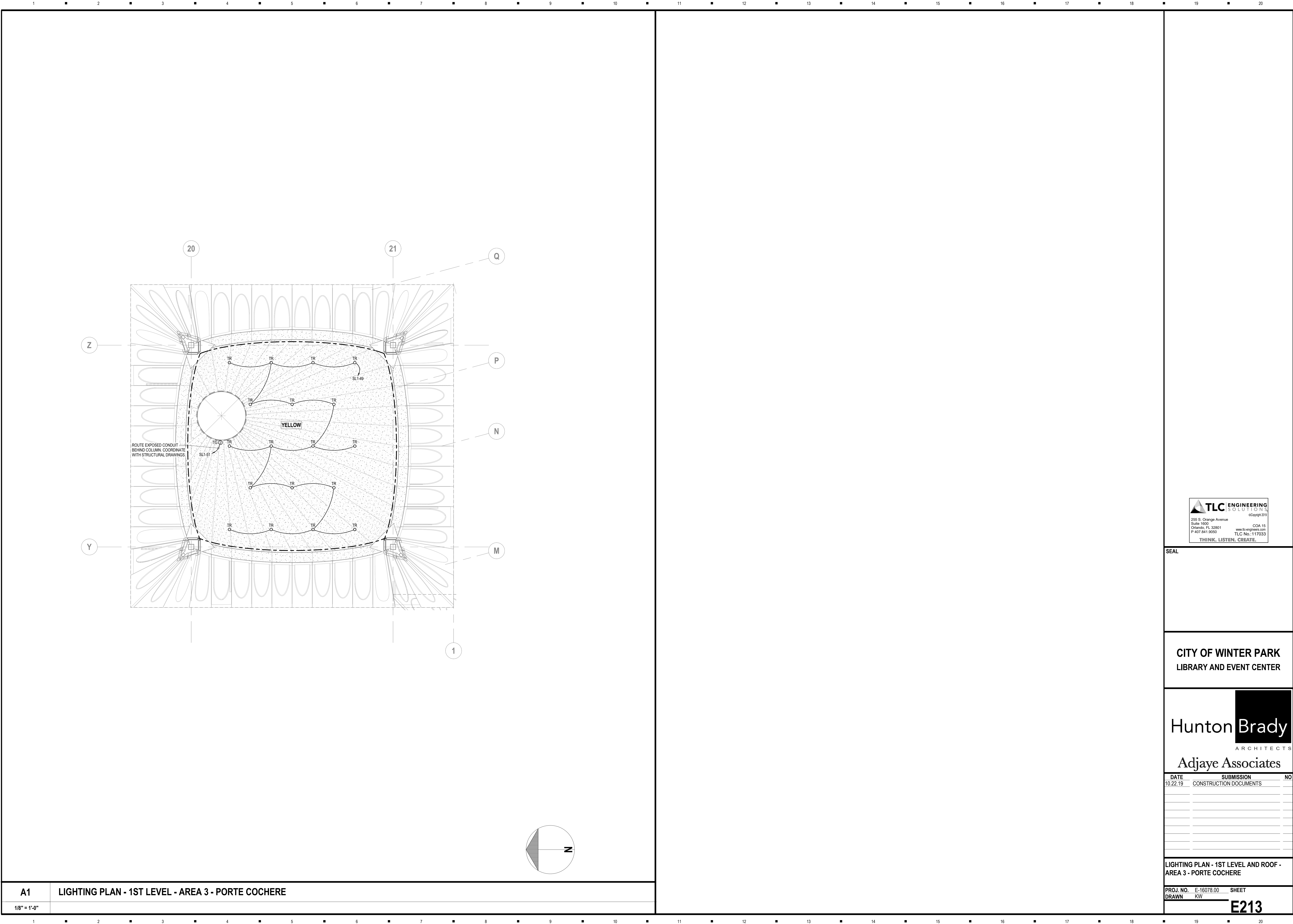
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LIGHTING PLAN - 1ST LEVEL - AREA 2 -
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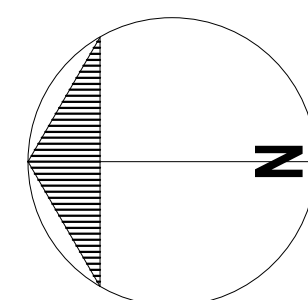
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LIGHTING PLAN - 1ST LEVEL AND ROOF -
AREA 3 - PORTE COCHERE

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E213

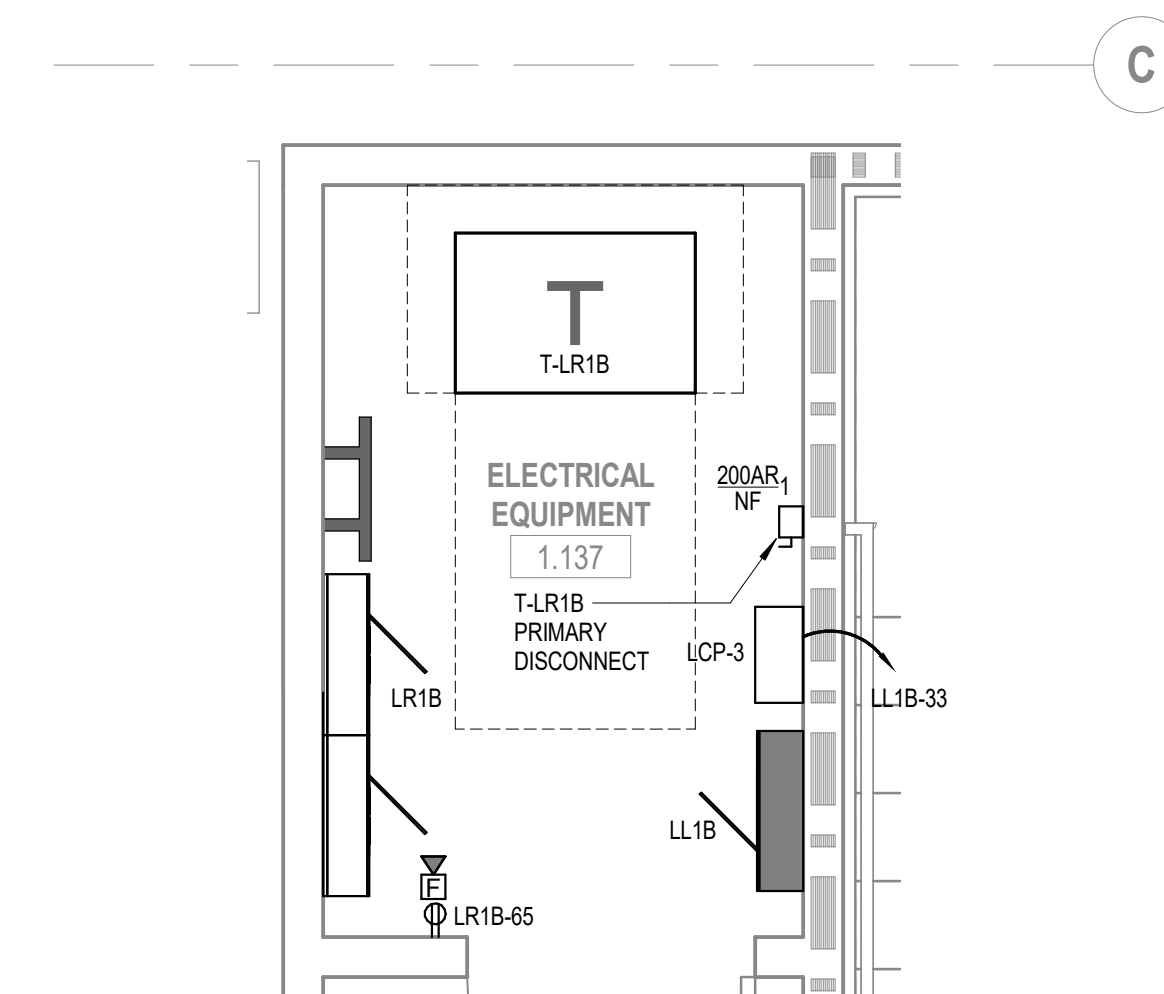
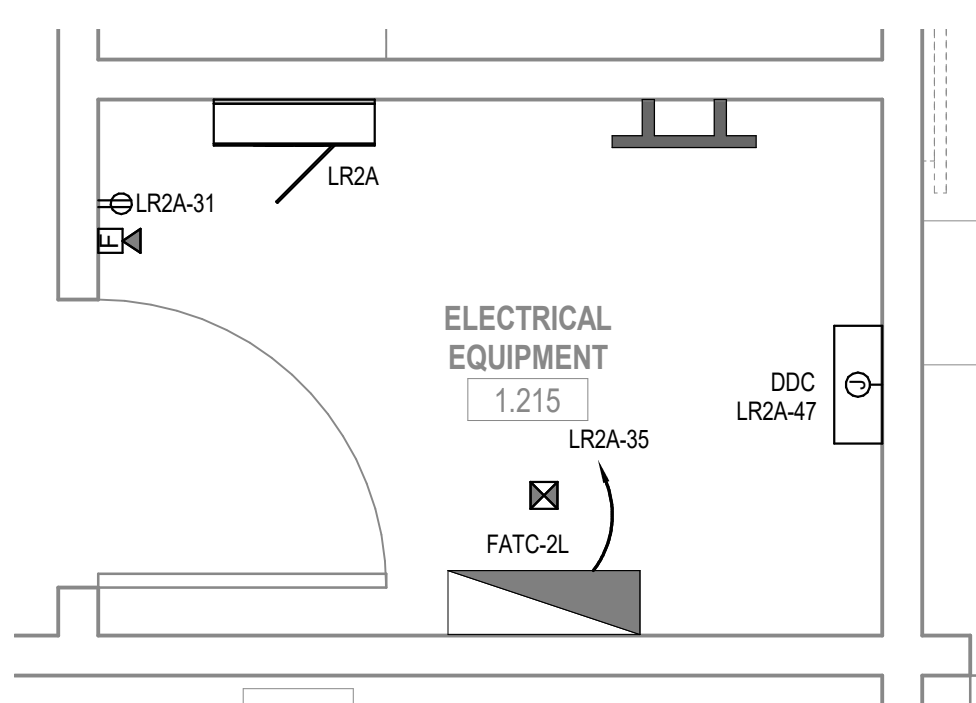
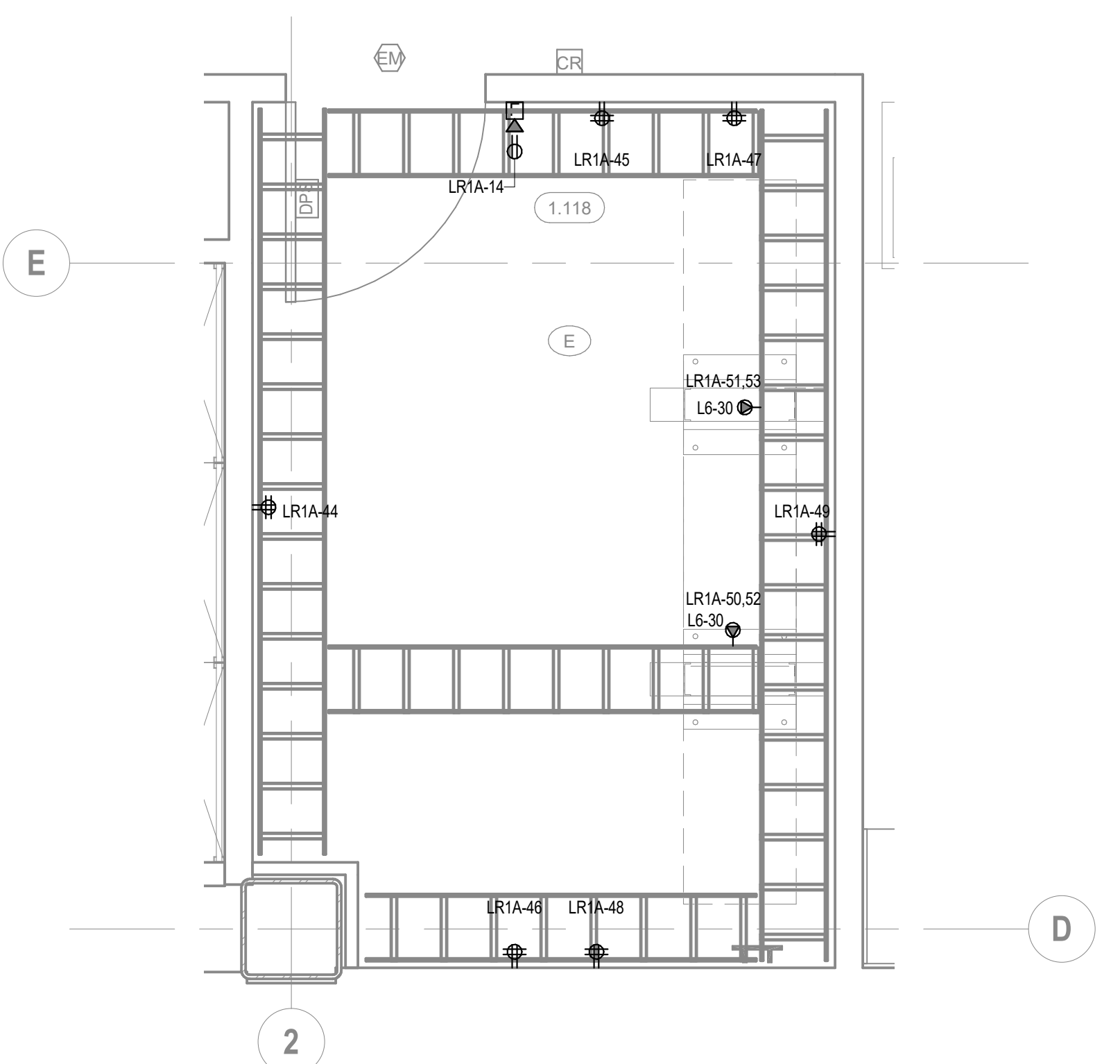
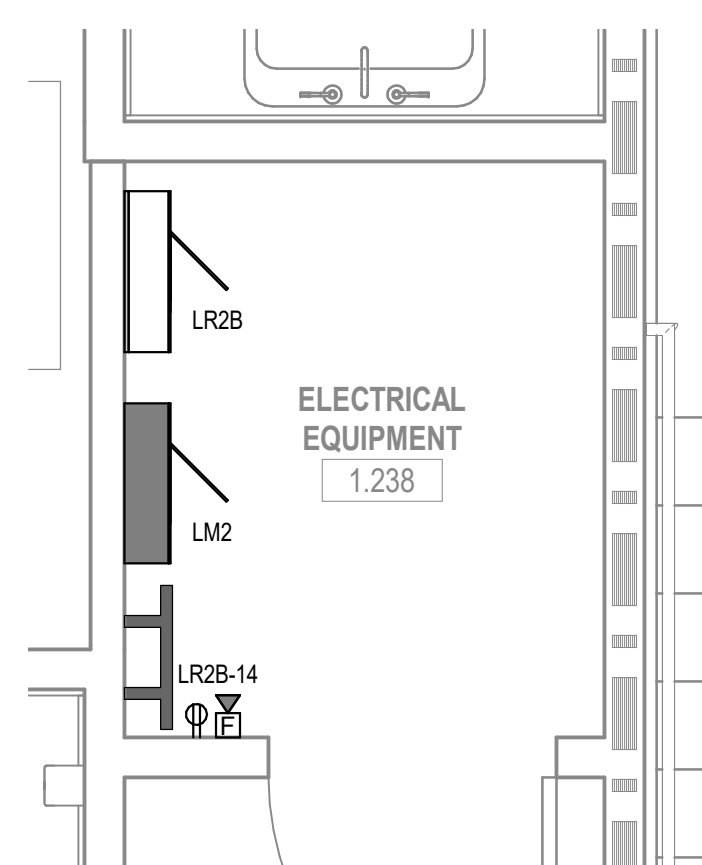
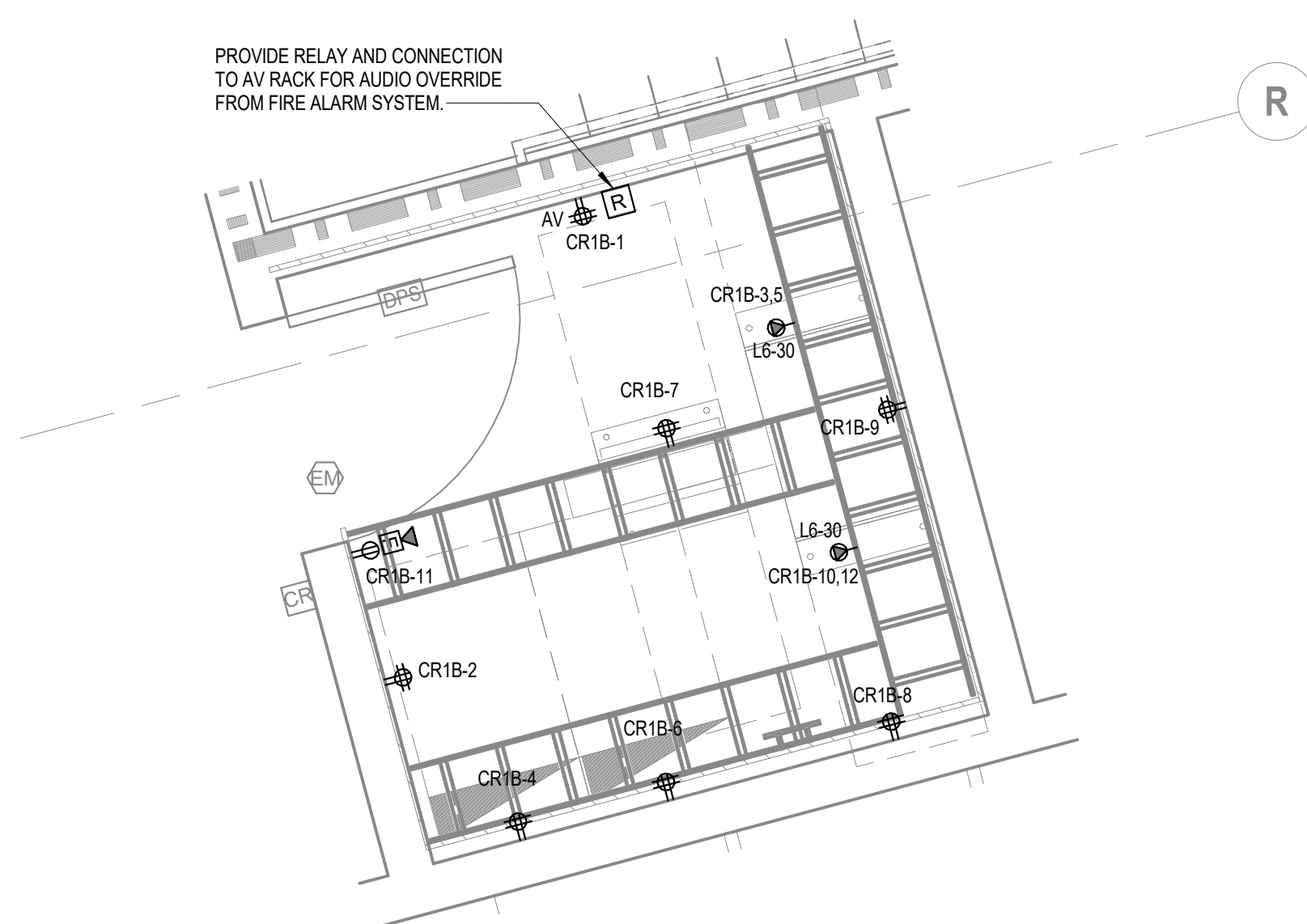
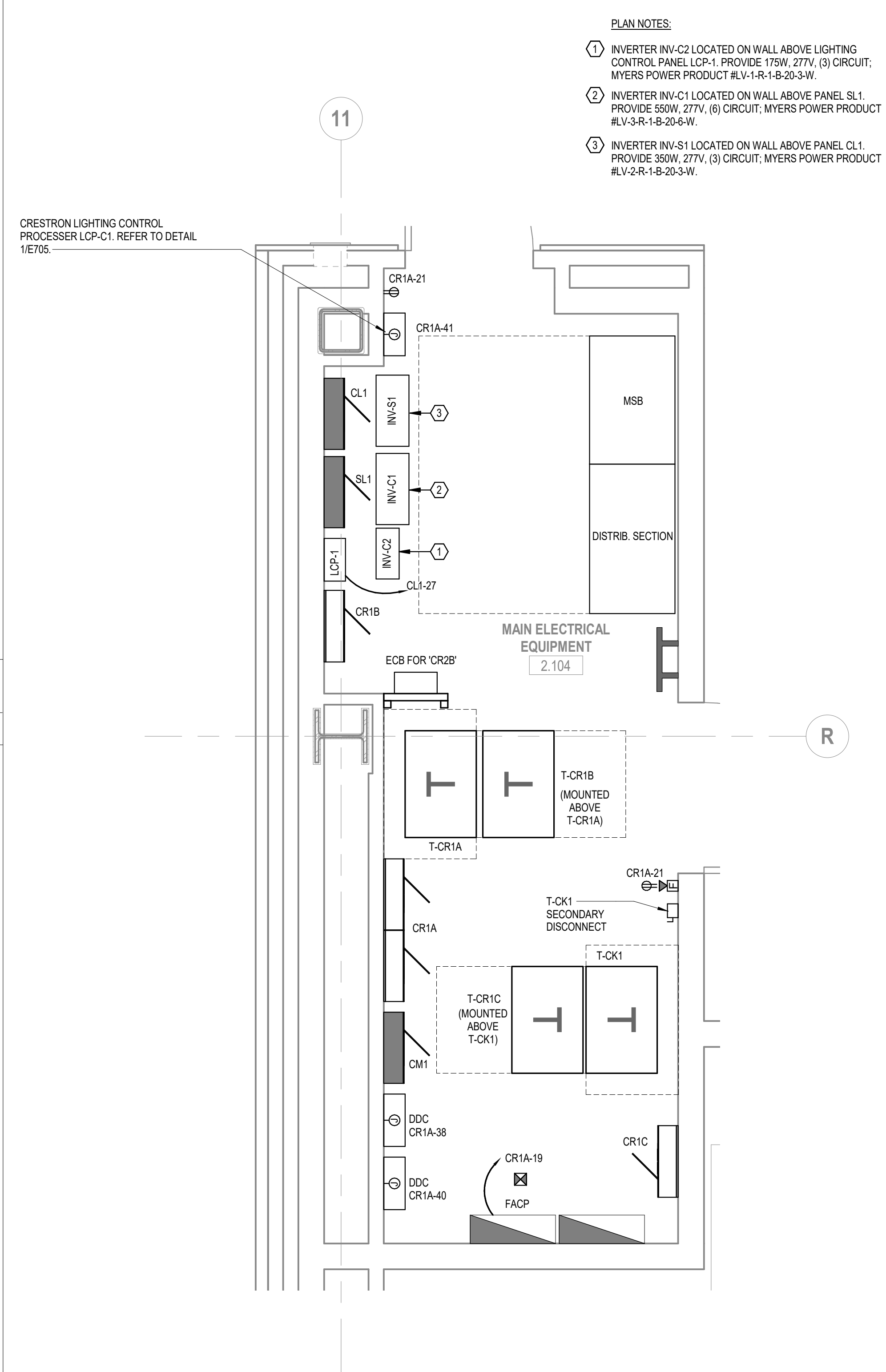
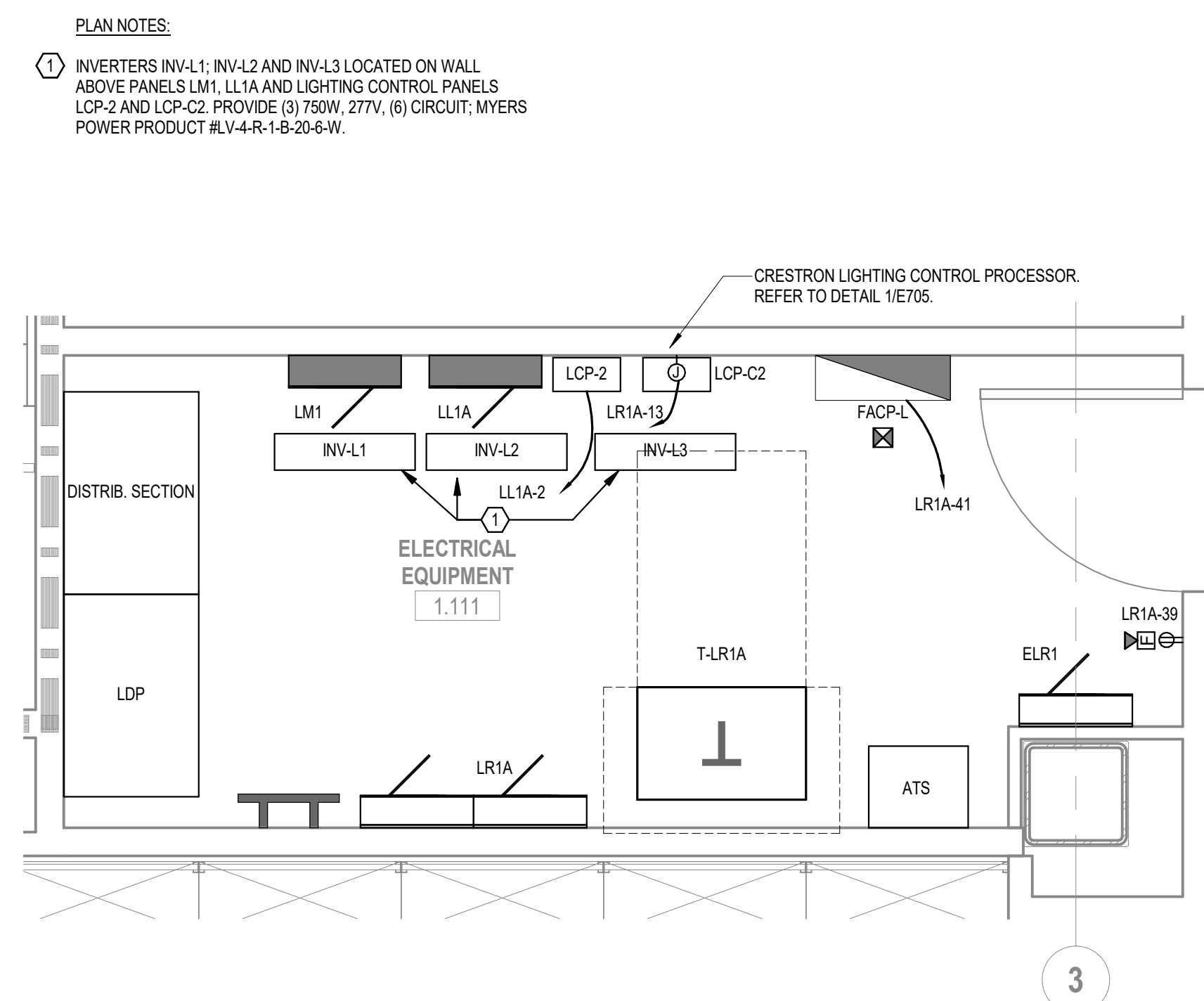
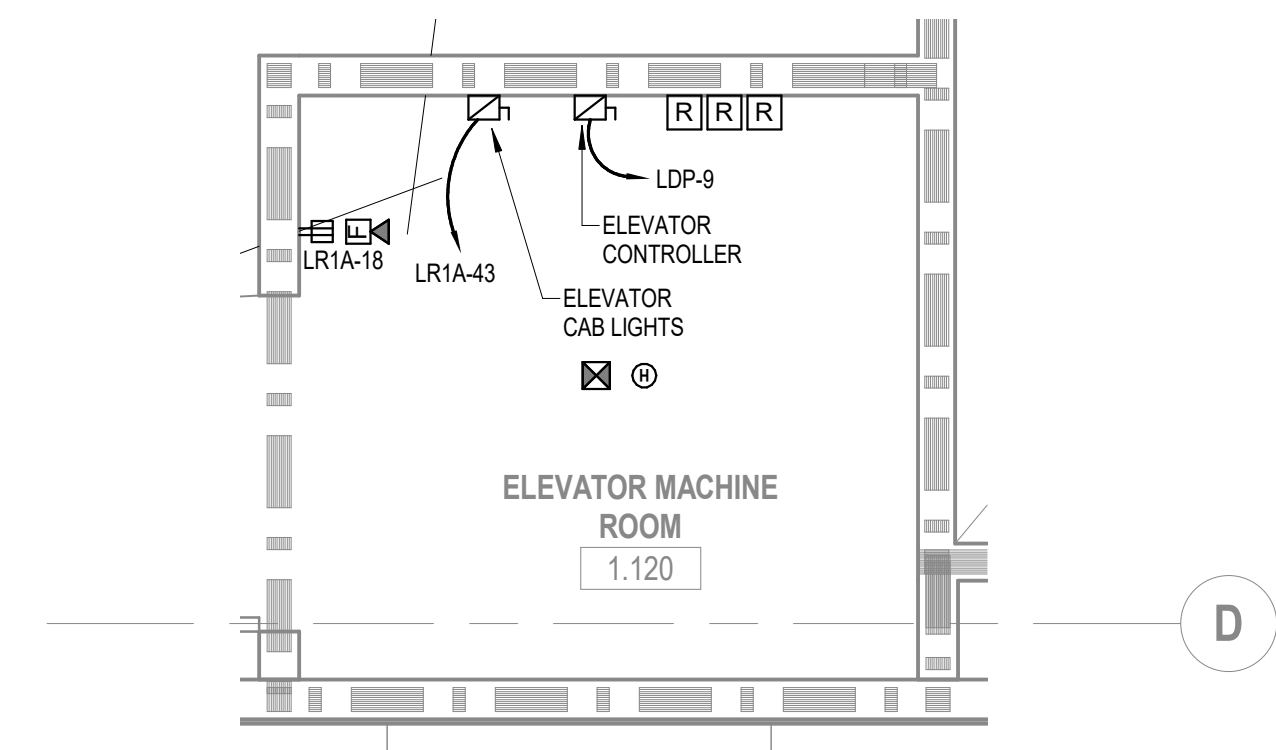


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ENLARGED PLANS - ELECTRICAL

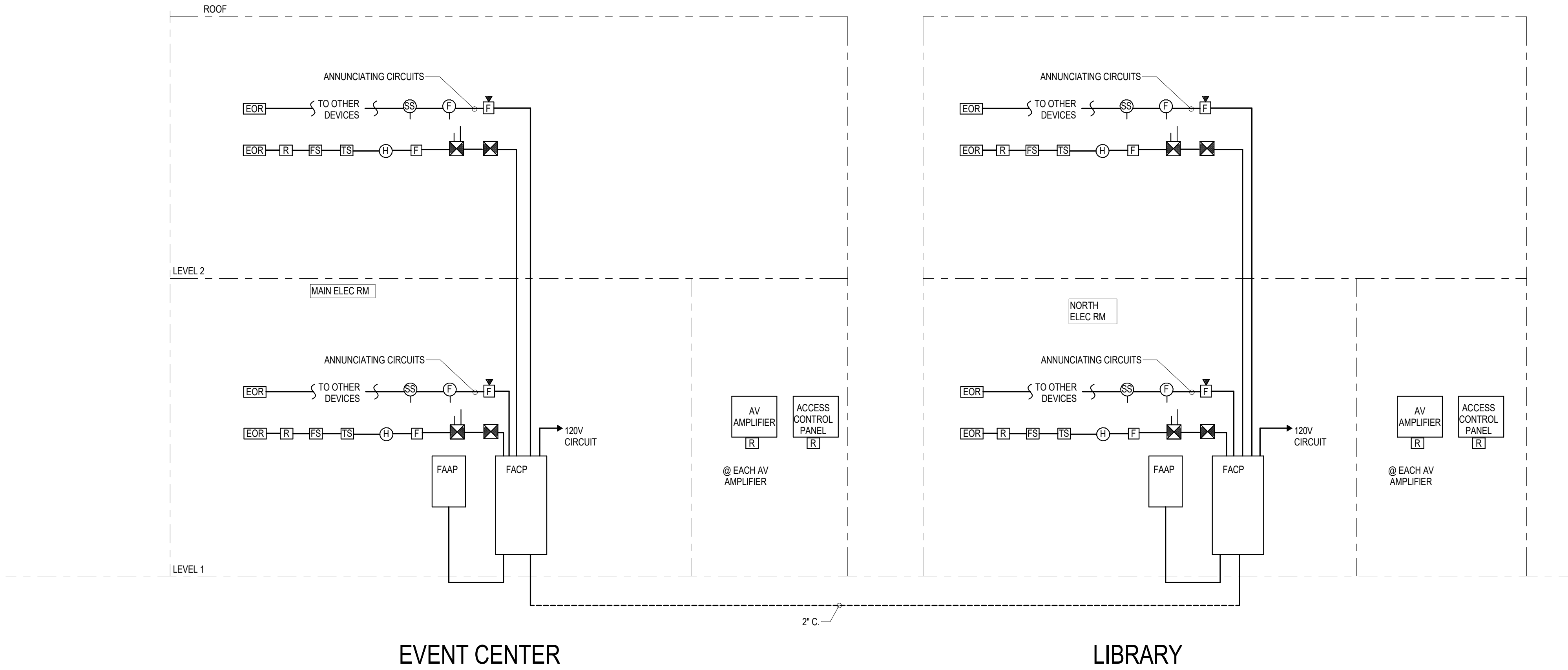
PROJ. NO.	E-16078.00	SHEET
DRAWN	KW	

E500

		CONTROL UNIT ANNUNCIATION										NOTIFICATION	FIRE SAFETY CONTROL									
		SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	SCHEMATIC ALARM SIGNAL INDICATOR	
1	MANUAL FIRE ALARM BOXES - 1ST FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2	MANUAL FIRE ALARM BOXES - 2ND FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
3	INDUCT SMOKE DETECTORS - 1ST FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4	INDUCT SMOKE DETECTORS - 2ND FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
5	HEAT DETECTOR IN ELEVATOR SHAFT / PIT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
6	ELEVATOR LOBBY SMOKE DETECTORS - 1ST FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
7	ELEVATOR LOBBY SMOKE DETECTORS - 2ND FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
8	WATER FLOW - 1ST FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
9	SPRINKLER CONTROL VALVE TAMPER SWITCH - 1ST FLOOR	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
10	SPRINKLER CONTROL VALVE TAMPER SWITCH - BACKFLOW PREVENTER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
11	OPEN CIRCUIT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
12	GROUND FAULT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
13	NOTIFICATION APPLIANCE CIRCUIT SHORT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
14																						
15																						
16																						
17																						
18																						
19																						
20																						

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX
SCALE: NONE

- FIRE ALARM RISER NOTES:**
1. WIRING SUPERVISION FOR THE FIRE ALARM SYSTEM SHALL BE PROVIDED AS DEFINED IN NFPA 72.
 2. ALL FIRE ALARM SYSTEM WIRING SHALL BE SOLID COPPER AND INSTALLED IN CONDUIT. STRANDED WIRING SHALL NOT BE USED.
 3. CONDUIT SHALL BE RIGID METAL OR ELECTRICAL METALLIC TUBING WITH A MINIMUM INSIDE DIAMETER OF 3/4", THAT UTILIZES COMPRESSION TYPE FITTINGS AND COUPLINGS.
 4. MC-TYPE CABLE SHALL NOT BE USED WITHIN FIRE ALARM SYSTEM.
 5. STAGE II PANELS ARE SHOWN FOR REFERENCE ONLY.
 6. PROVIDE AMPLIFIER CAPACITY FOR 175 SPEAKERS PER FLOOR.
 7. PROVIDE POWER SUPPLY CAPACITY FOR 75 VISUAL INDICATING DEVICES PER FLOOR.



**TLC** ENGINEERING
SOLUTIONS

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FIRE ALARM RISER DIAGRAM

PROJ. NO. E-16078.00 SHEET
DRAWN KV

E602

THE WIRE SIZE FOR 120VOLT, 208VOLT OR 240VOLT SINGLE PHASE, 20 AMP OR 30 AMP BRANCH CIRCUITS SHALL BE SELECTED FROM THE FOLLOWING TABLES. (SEE RISER DIAGRAM FOR VOLTAGE OF EACH SPECIFIC PROJECT)

120 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP					
DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		69	105	164	254
23		72	109	167	265
22		74	114	179	277
21		79	120	188	290
20		83	126	197	305
19		87	132	207	321
18		92	140	219	338
17		97	148	232	358
20 OR 30 AMP CIRCUIT:					
16	62	103	157	246	381
15	66	108	160	263	405
14	71	116	180	282	435
13	77	127	194	303	469
12	83	138	210	329	508
11	91	150	229	359	554
10	100	165	252	395	610
9	111	180	280	438	677
8	125	205	315	493	762
7	143	230	360	564	871
6	167	275	420	658	1016
5	200	330	505	790	1220
4	250	415	631	987	1525
3	334	550	841	1316	2033
2	501	830	1262	1975	3050
1	1003	1660	2525	3950	6101

208 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP					
DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		126	191	298	457
23		130	199	311	477
22		137	208	325	499
21		144	218	340	523
20		151	229	357	549
19		159	241	376	578
18		168	255	397	610
17		178	270	420	646
20 OR 30 AMP CIRCUIT:					
16	114	189	286	445	686
15	121	201	303	476	731
14	130	215	328	509	783
13	140	232	352	550	844
12	152	251	381	596	915
11	166	274	416	650	998
10	182	301	456	714	1096
9	203	336	507	793	1219
8	229	378	572	892	1372
7	262	431	655	1020	1568
6	305	504	762	1190	1829
5	365	604	915	1429	2195
4	457	757	1143	1786	2744
3	610	1008	1524	2382	3658
2	916	1514	2292	3573	5487
1	1833	3028	4581	7148	10974

277 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP					
DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		159	242	379	584
23		166	251	384	610
22		170	262	412	637
21		182	276	432	667
20		191	290	453	702
19		200	304	476	738
18		212	322	504	777
17		223	340	534	828
20 OR 30 AMP CIRCUIT:					
16	143	237	361	566	876
15	152	249	386	605	932
14	163	271	414	649	1001
13	177	292	446	697	1079
12	191	317	483	757	1168
11	209	345	527	826	1274
10	230	380	580	911	1403
9	255	414	644	1007	1557
8	288	472	725	1134	1753
7	329	530	828	1287	2003
6	384	633	966	1513	2337
5	460	759	1162	1817	2806
4	575	955	1451	2270	3508
3	768	1265	1934	3027	4676
2	1152	1909	2903	4543	7015
1	2307	3818	5808	9085	14032

BRANCH CIRCUIT VOLTAGE DROP

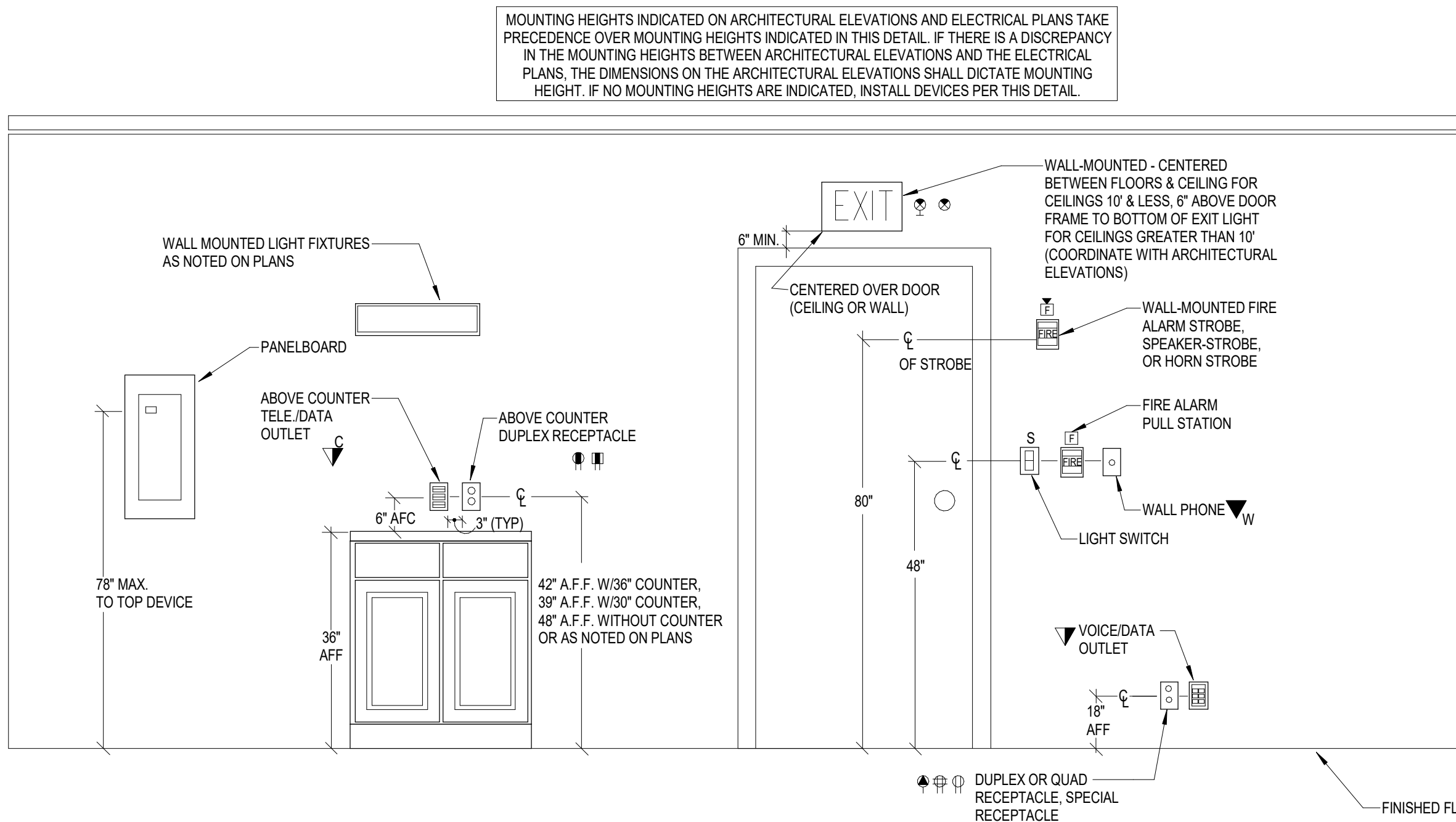
No Scale

4

UL W-L 1001 CONDUIT PENETRATION OF FIREWALL

No Scale

1



MOUNTING HEIGHTS

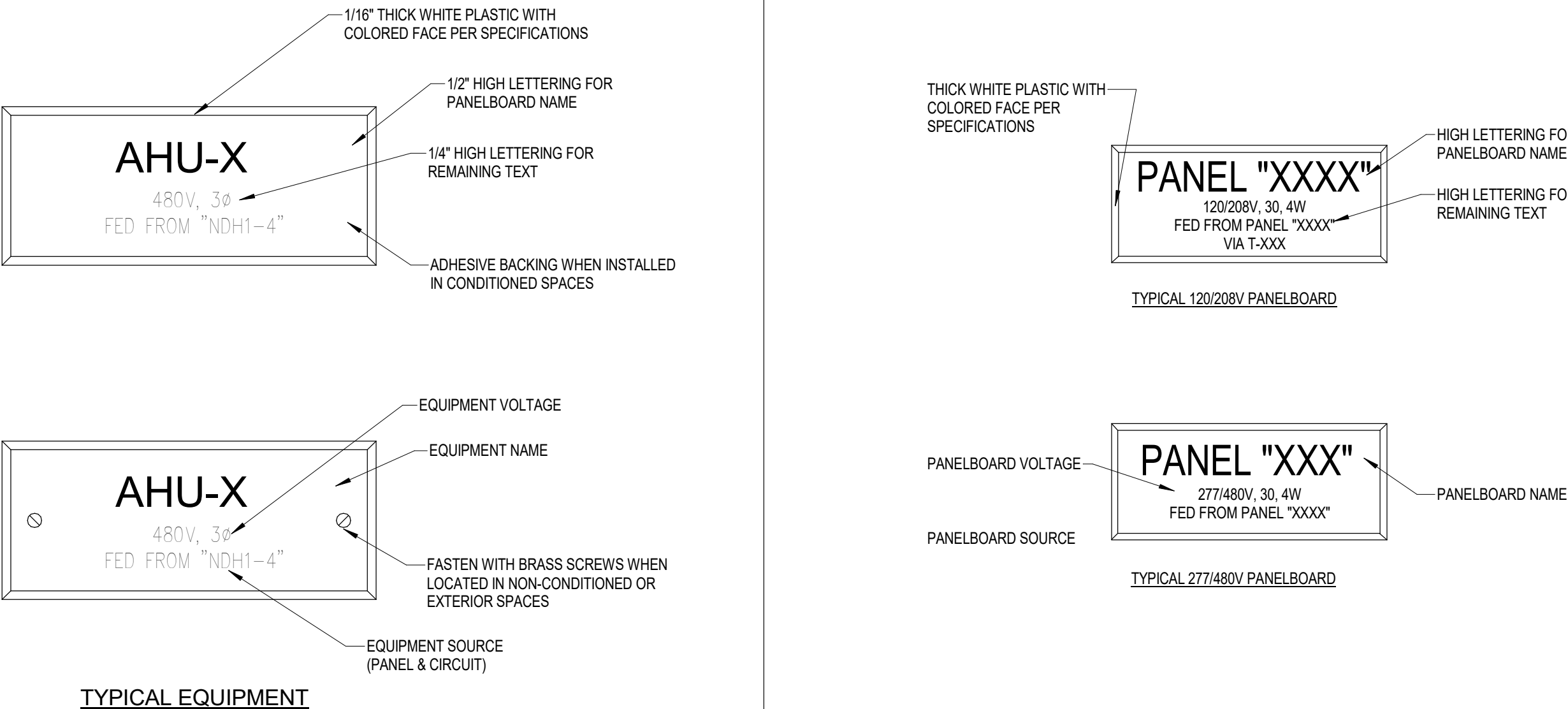
No Scale

5

UL W-L 3030 CABLE PENETRATION OF FIREWALL

No Scale

2



EQUIPMENT NAMEPLATE

No Scale

PANELBOARD NAMEPLATE

No Scale

6

UL W-L 3074 MC CABLE PENETRATION OF FIREWALL

No Scale

3

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-1001

XHEZ-W-L-1001 Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

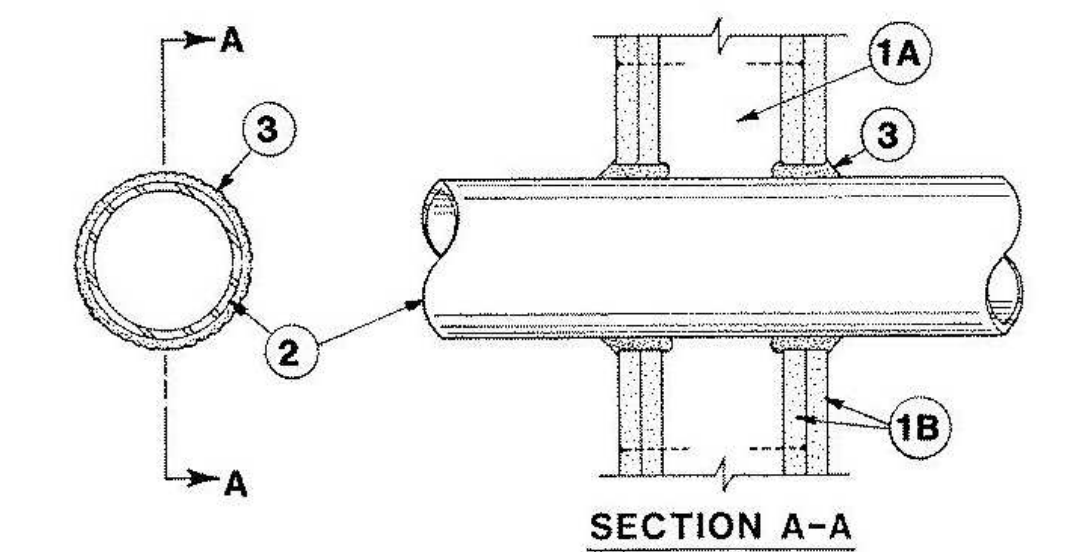
System No. W-L-1001

XHEZ-W-L-1001

Through-penetration Firestop Systems

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- Only products which bear UL's Mark are considered Certified.



1. Wall Assembly — The 1, 2 or 3 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U500 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-3030

XHEZ-W-L-3030 Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

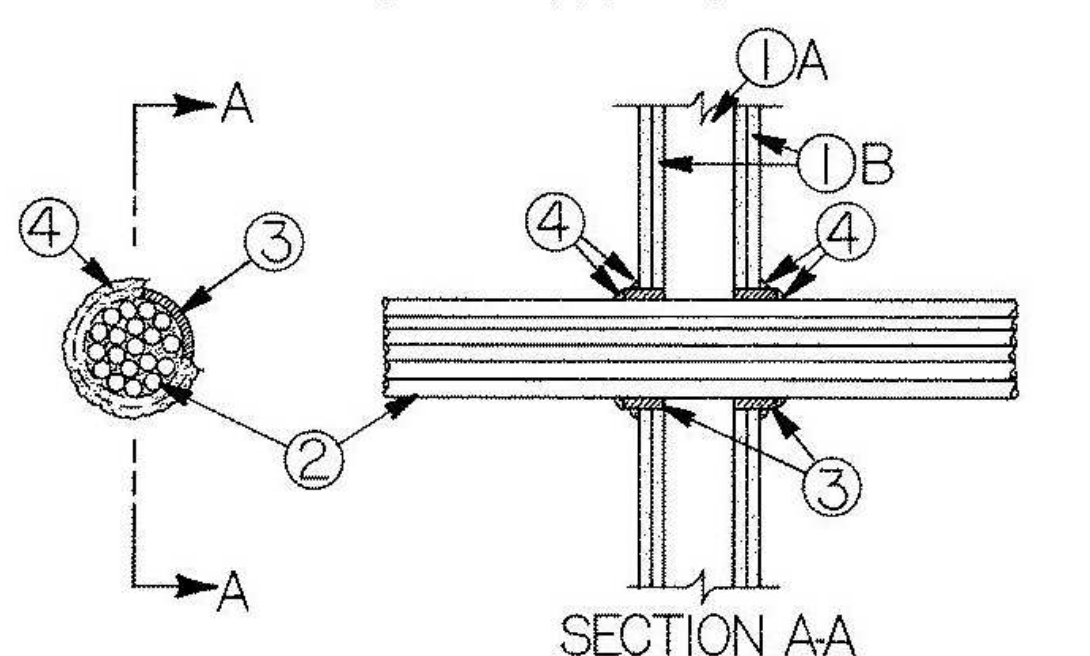
System No. W-L-3030

XHEZ-W-L-3030

Through-penetration Firestop Systems

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- Only products which bear UL's Mark are considered Certified.



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U500, U400 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

ONLINE CERTIFICATIONS DIRECTORY

System No. W-L-3074

XHEZ-W-L-3074 Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and materials.
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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

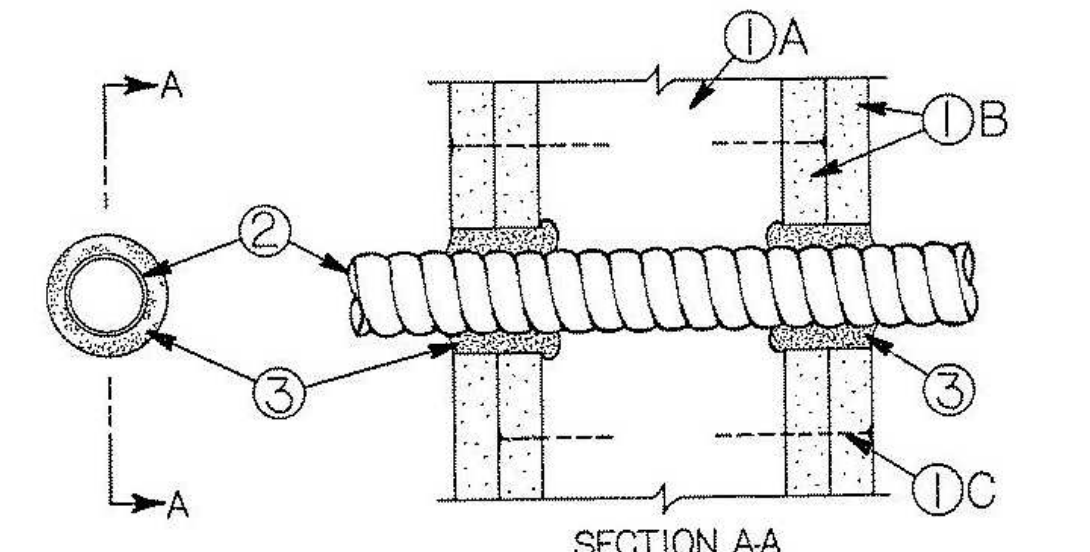
System No. W-L-3074

XHEZ-W-L-3074

Through-penetration Firestop Systems

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- Only products which bear UL's Mark are considered Certified.



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U500 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 1/2 fire rated assemblies) or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with plates and cross bracing. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board — Nom 5/8 in. (16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum wallboard is 2 in. (51 mm).

C. Fasteners — When wood stud framing is employed, gypsum wallboard attached to studs with corner coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum wallboard attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.

D. Cable Penetration — Max diam of circular opening cut through gypsum wallboard on each side of wall assembly to be min 1/4 in. to max 1/16 in. larger than diam of through penetrating product (Item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.

E. Cable Penetration — Max 4 AWG (or smaller) aluminum Metal-Clad Cable + Max one metal clad cable to be installed near center of circular opening in gypsum wallboard. Through penetrating product to be rigidly supported on both sides of wall assembly. **When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max No. 2 AWG cable is used and 2 hr when max 1.2 AWG cable is used.**

3M COMPANY — CP 25WB+ caulk, NP+ Stix putty, IC 15WB+ caulk, FireDam 150+ caulk or FB-3000 WT Sealant (Note: L Ratings apply only when Type CP 25WB+ Caulk or Type FB-3000 WT Sealant is used.)

2. Through-Penetrating Product — One metallic pipe, conduit or piping installed either vertically or horizontally within the firestop system. The product shall be rigidly supported on both sides of wall assembly. **When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max No. 2 AWG cable is used and 2 hr when max 1.2 AWG cable is used.**

3. Fill Void or Cavity Material — **Caulk, Sealant or Putty** — Min 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in nominal 2 in. (51 mm) wide strips, Nom 2 in. (51 mm) wide strip tightly-wrapped around cable bundle (foil side out) with seams butted. Wrap strip layer accurately bound with steel wire tie and slid into annular space approx 1-3/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface on each side of the assembly.

3M COMPANY — FS-150+

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U500, U400 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nominal 2 by 4 in. (51 by 102 mm) lumber end plates and cross bracing. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board — Nom 5/8 in. (16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of circular opening cut in gypsum wallboard on each side of wall to be 1/2 to 1/4 in. (13 to 19 mm) larger than diam of tight cable bundle (Item 2). Max diam of circular opening to be 1/4 to 1/2 in. (6 to 13 mm).

The hourly T Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

2. Cable — Max 4 in. (102 mm) diam tight bundle of cables centered in circular cutouts in gypsum wallboard and rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of conductor cables may be used:

A. Max 150 kcmil single-conductor power cables; cross-linked polyethylene (XLPE) or polyvinyl chloride (PVC) insulation.

B. Max 7/8 in. (20 mm) 12 AWG cables; PVC insulation and jacket.

C. Max 3/4 in. (19 mm) 2/0 AWG multiconductor power and control cables; XLPE or PVC insulation, XLPE or PVC jacket.

D. Max 200 pair No. 24 AWG telecommunication cables; PVC insulation and jacket.

E. Max 6/8 in. (17 mm) Fiber Optic (F.O.) cable; PVC insulation and jacket.

3. Fill Void or Cavity Material — **Wrap Strip** — Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in nominal 2 in. (51 mm) wide strips, Nom 2 in. (51 mm) wide strip tightly-wrapped around cable bundle (foil side out) with seams butted. Wrap strip layer accurately bound with steel wire tie and slid into annular space approx 1-3/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface on each side of the assembly.

3M COMPANY — FS-150+

4. Fill Void or Cavity Material — **Caulk, Sealant or Putty** — Min 1/4 in. (6 mm) diam continuous bead of caulk or putty applied to the wrap strip wall interface and to the exposed edge of the wrap strip approximately 1/4 in. (6 mm) from the wall surface on each side of wall assembly. Caulk or putty to be forced into the interstices of the cable bundle to the max extent possible within the confines of the wrap strip on each side of the wall assembly.

3M COMPANY — CP 25WB+ caulk, NP+ Stix putty, IC 15WB+ caulk, FireDam 150+ caulk or FB-3000 WT Sealant (Note: L Ratings apply only when Type CP 25WB+ Caulk or Type FB-3000 WT Sealant is used.)

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1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U500 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nominal 2 by 4 in. (51 by 102 mm) lumber end plates and cross bracing. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board — Nom 5/8 in. (16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum wallboard is 2 in. (51 mm).

C. Fasteners

AIR TERMINAL ON PARAPET

No Scale

10

GROUND ROD INSPECTION WELLS

No Scale

7

DOWNLEAD TO GROUND ROD

No Scale

4

LADDER GROUNDING

No Scale

1

PLUMBING VENT GROUNDING

No Scale

11

ROOF DRAIN CONNECTION

No Scale

8

FIRE SMOKE DAMPER WIRING DIAGRAM

No Scale

5

MULTIPLE FLOOR COLUMN BONDING

No Scale

2

HIGHER TO LOWER ROOF CONDUCTOR

No Scale

12

AIR TERMINAL INTERIOR OF ROOF

No Scale

9

THRU-ROOF PENETRATION

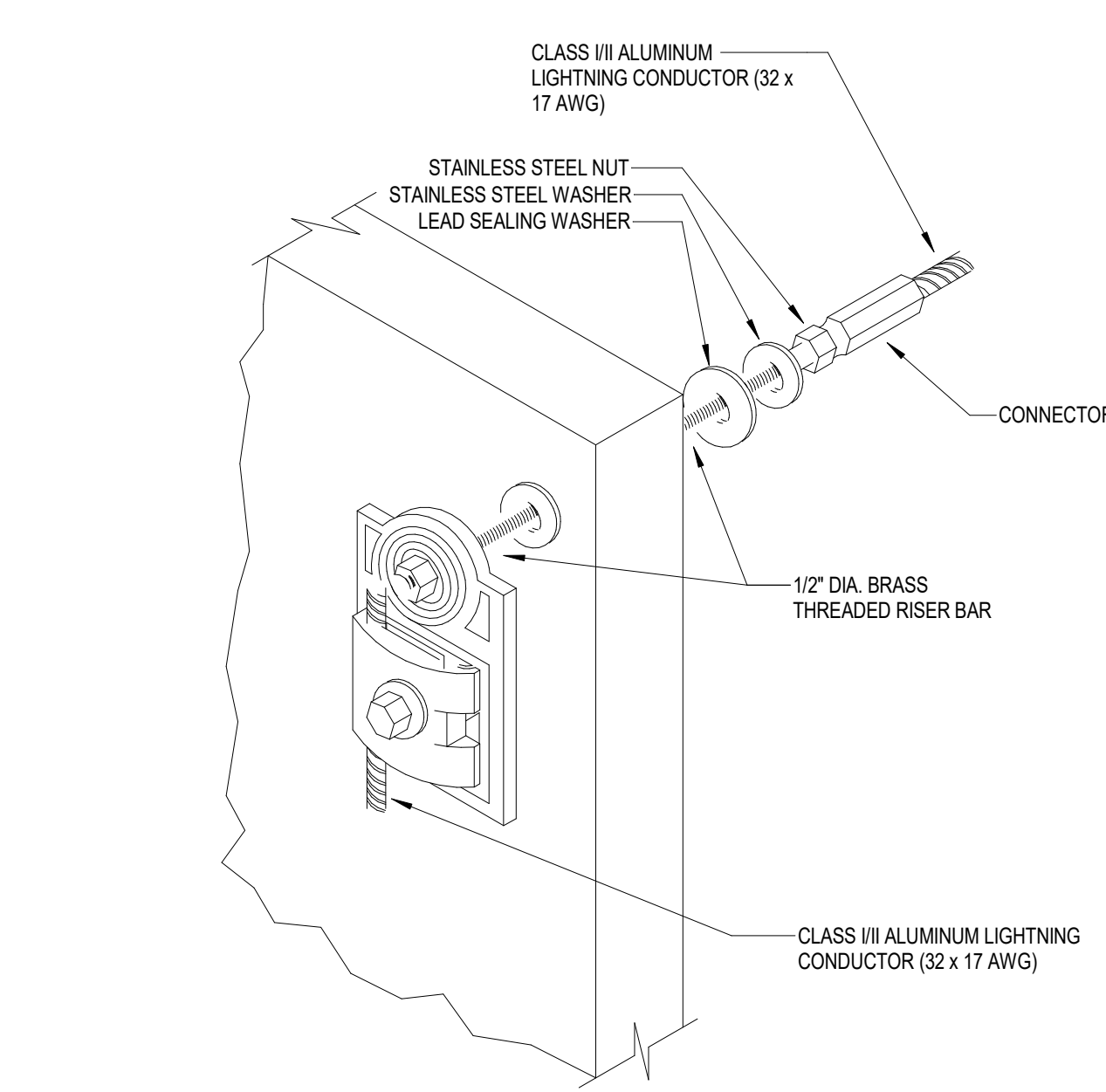
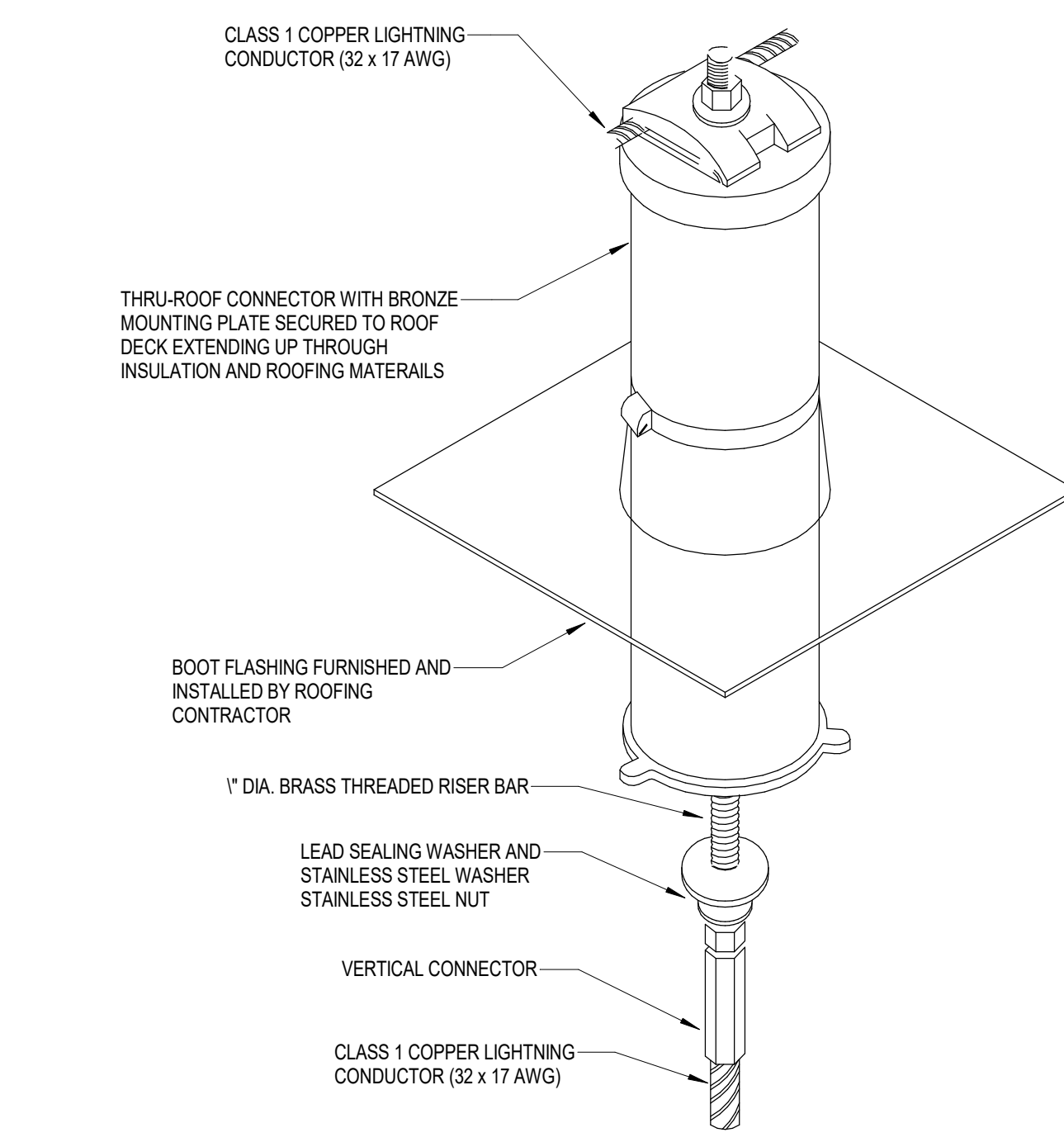
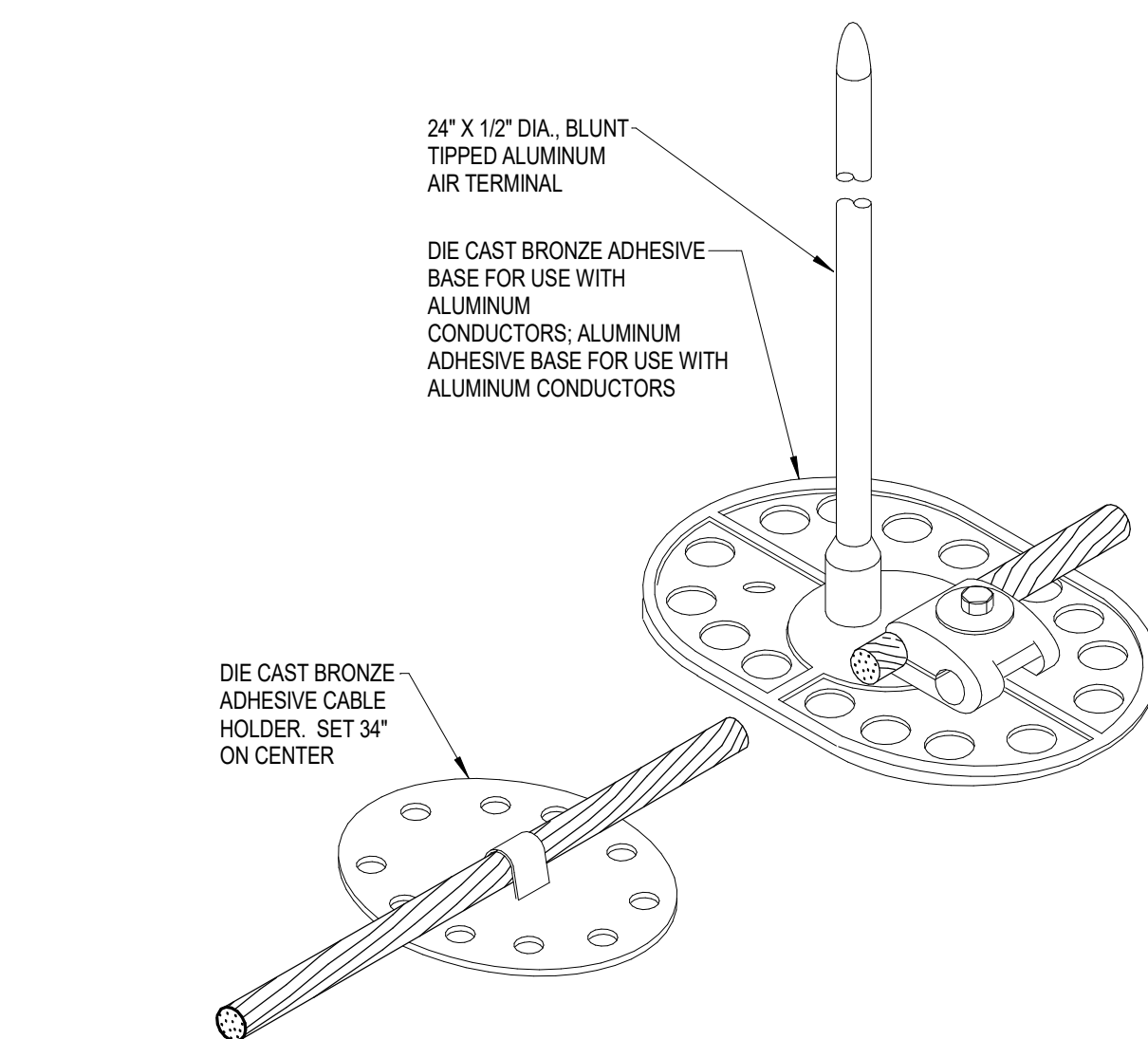
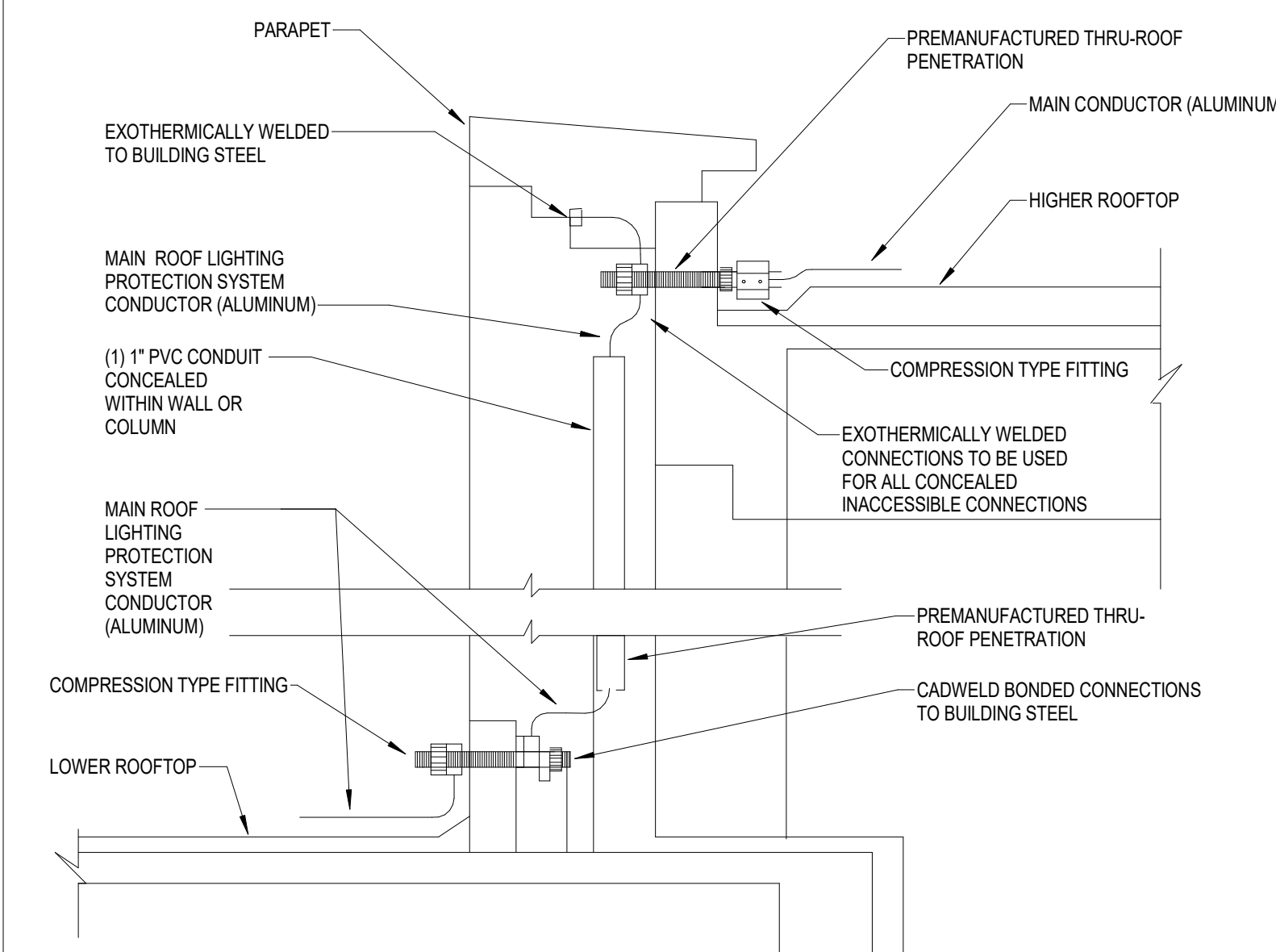
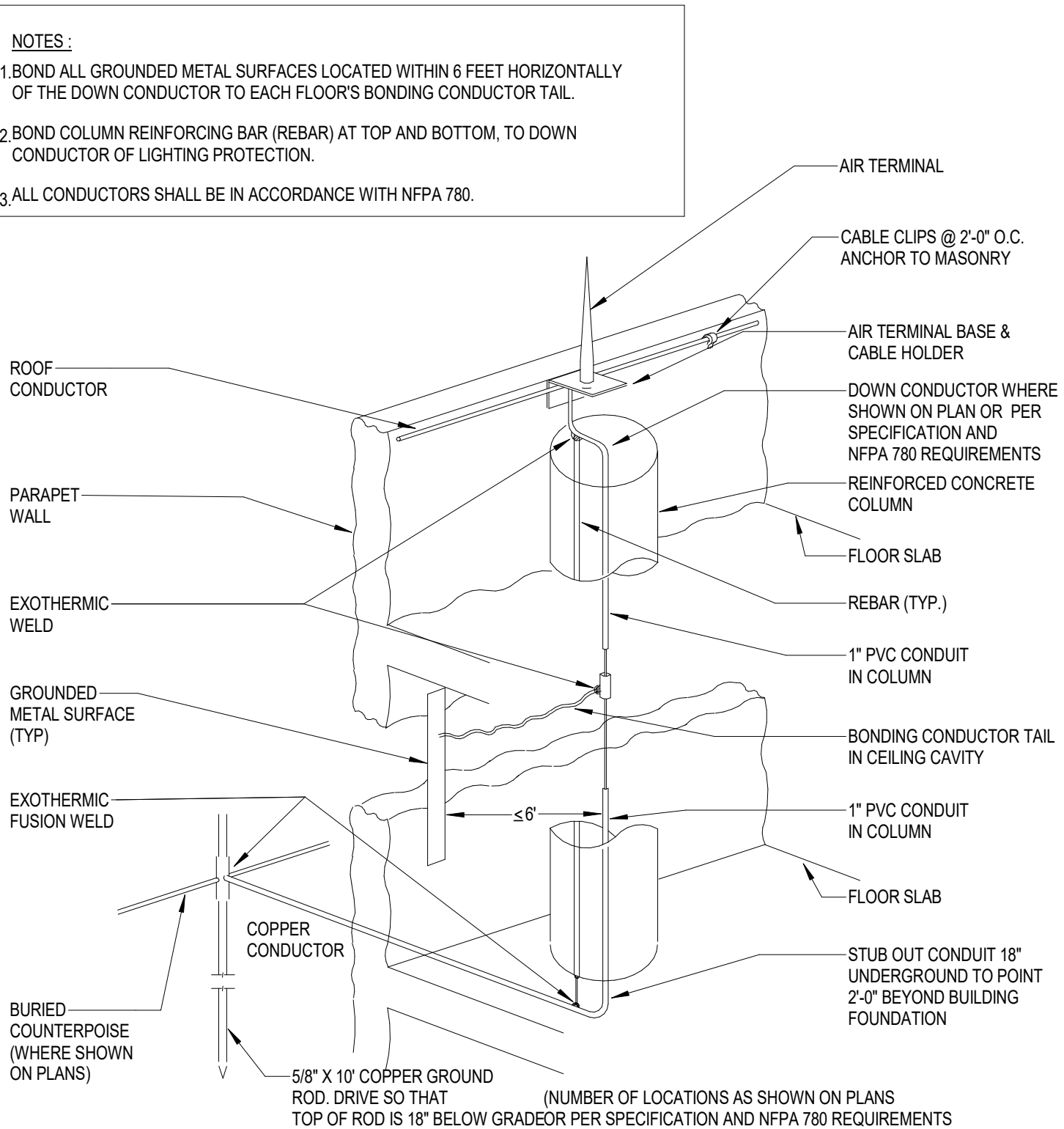
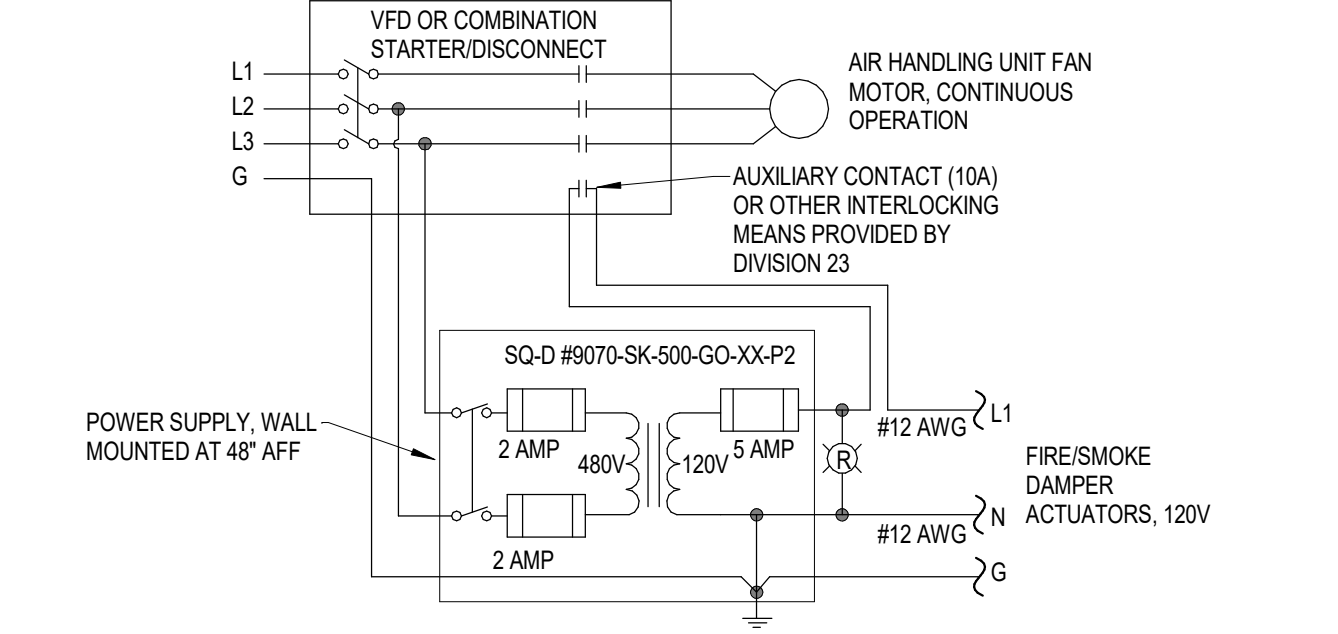
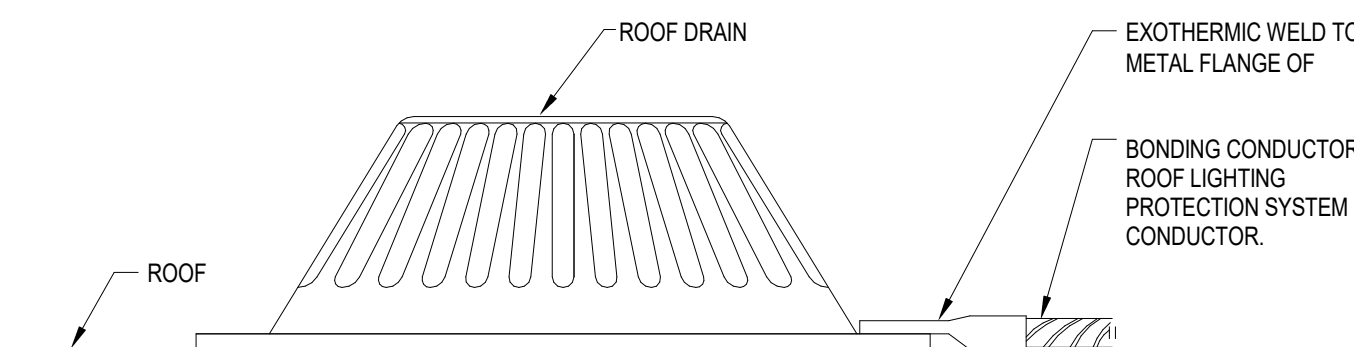
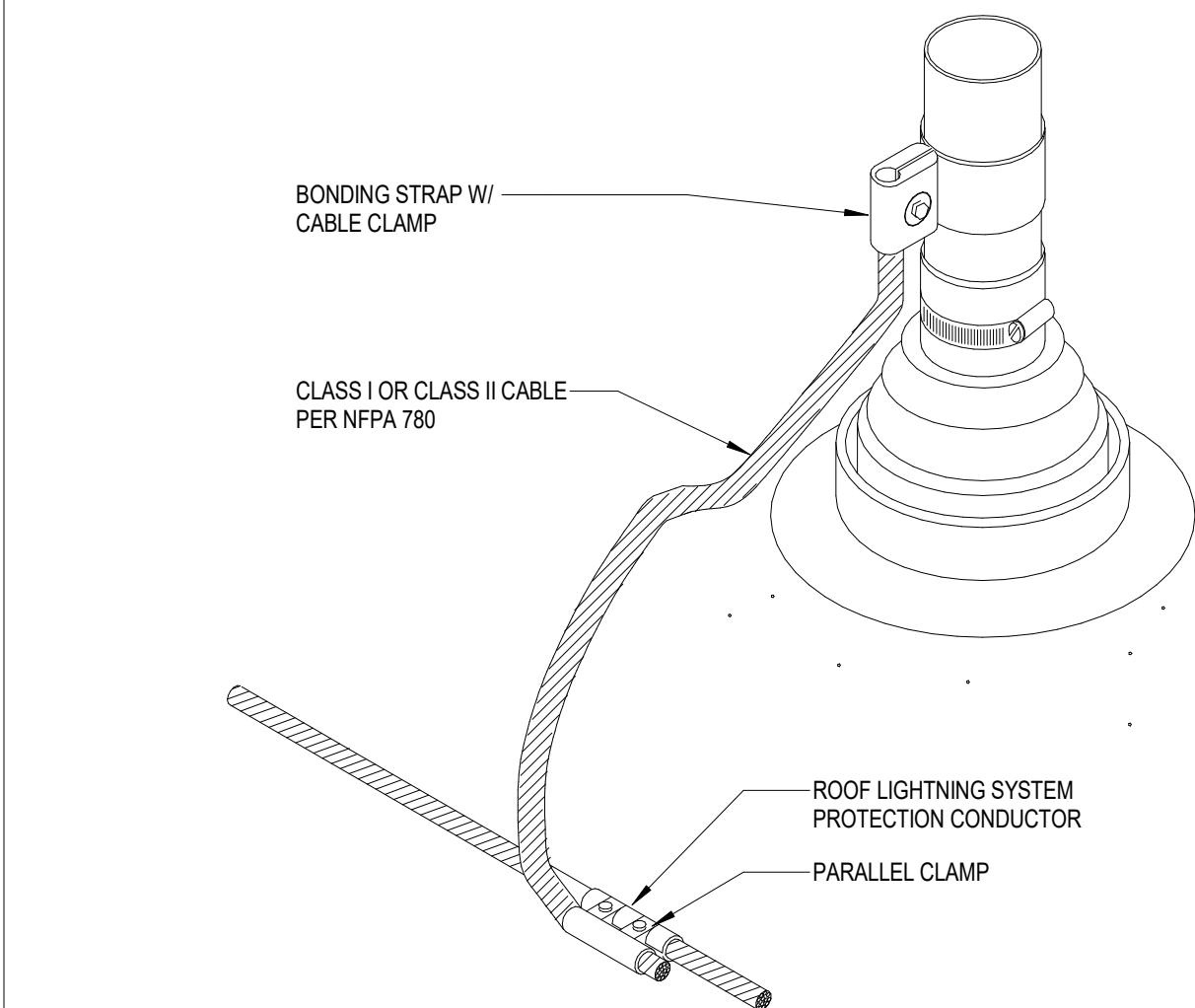
No Scale

6

THRU-WALL PENETRATION

No Scale

3



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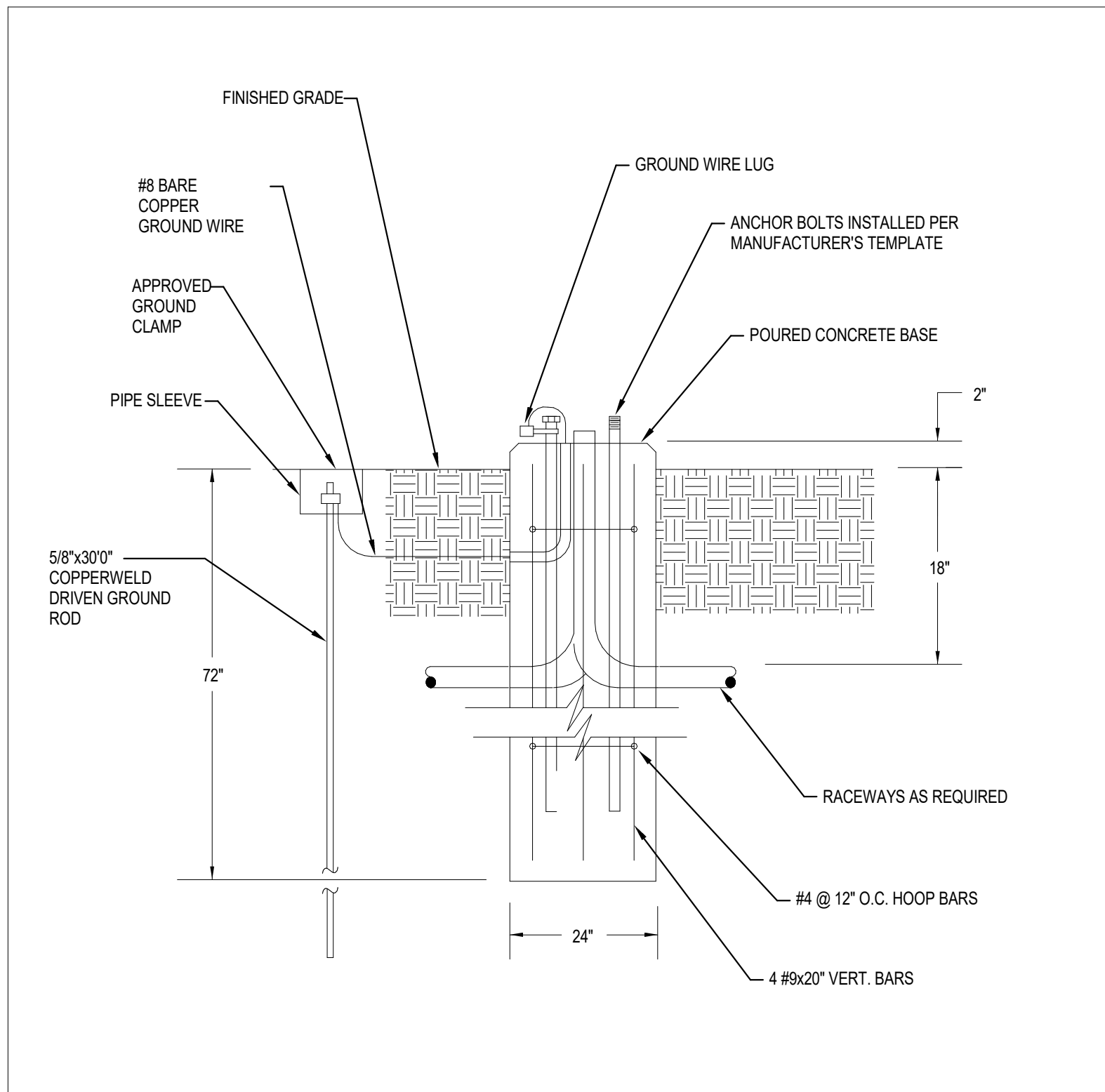
DATE 10.22.19 SUBMISSION CONSTRUCTION DOCUMENTS NO

ELECTRICAL DETAILS

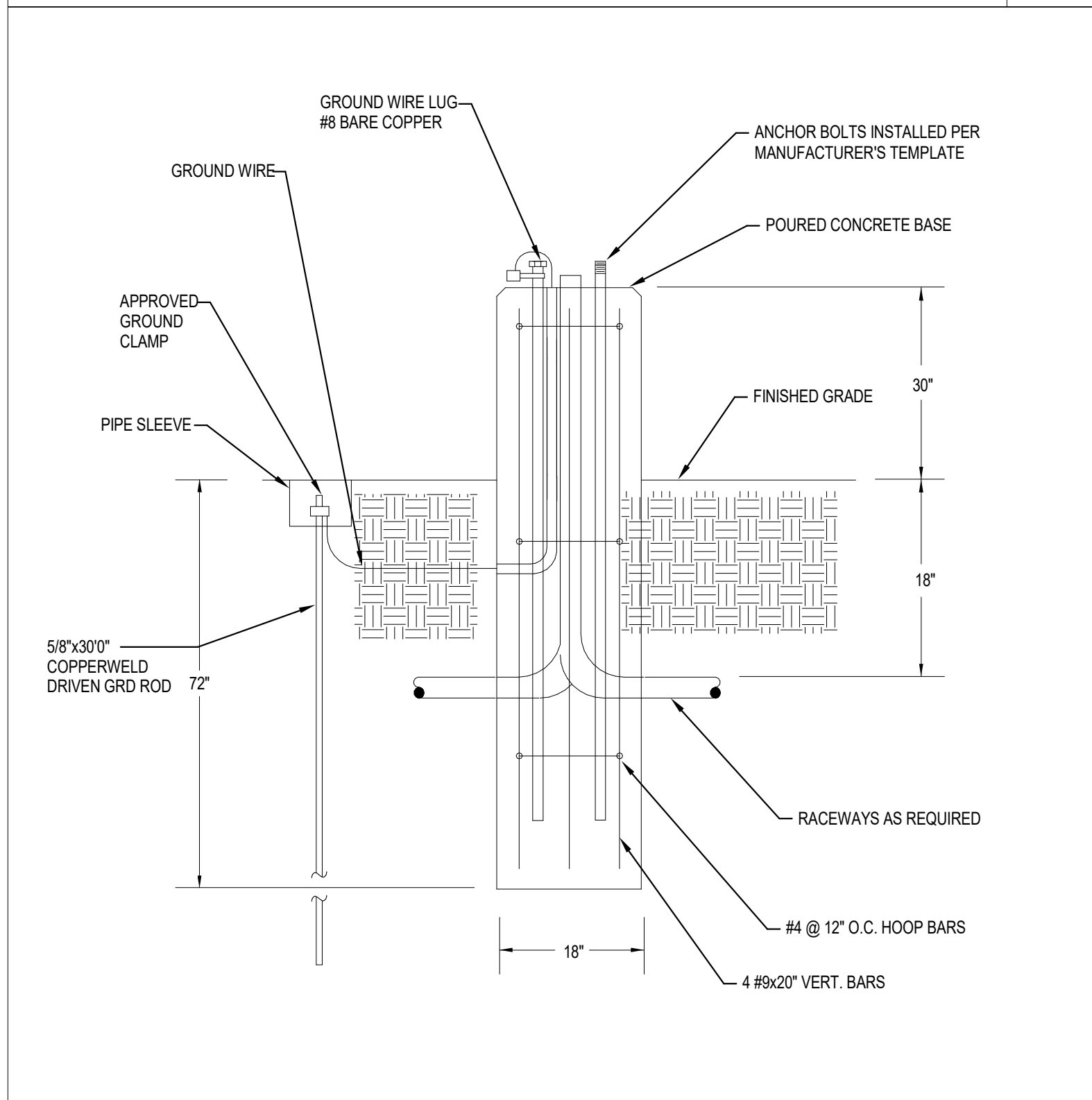
PROJ. NO. E-16078.00 SHEET
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E702

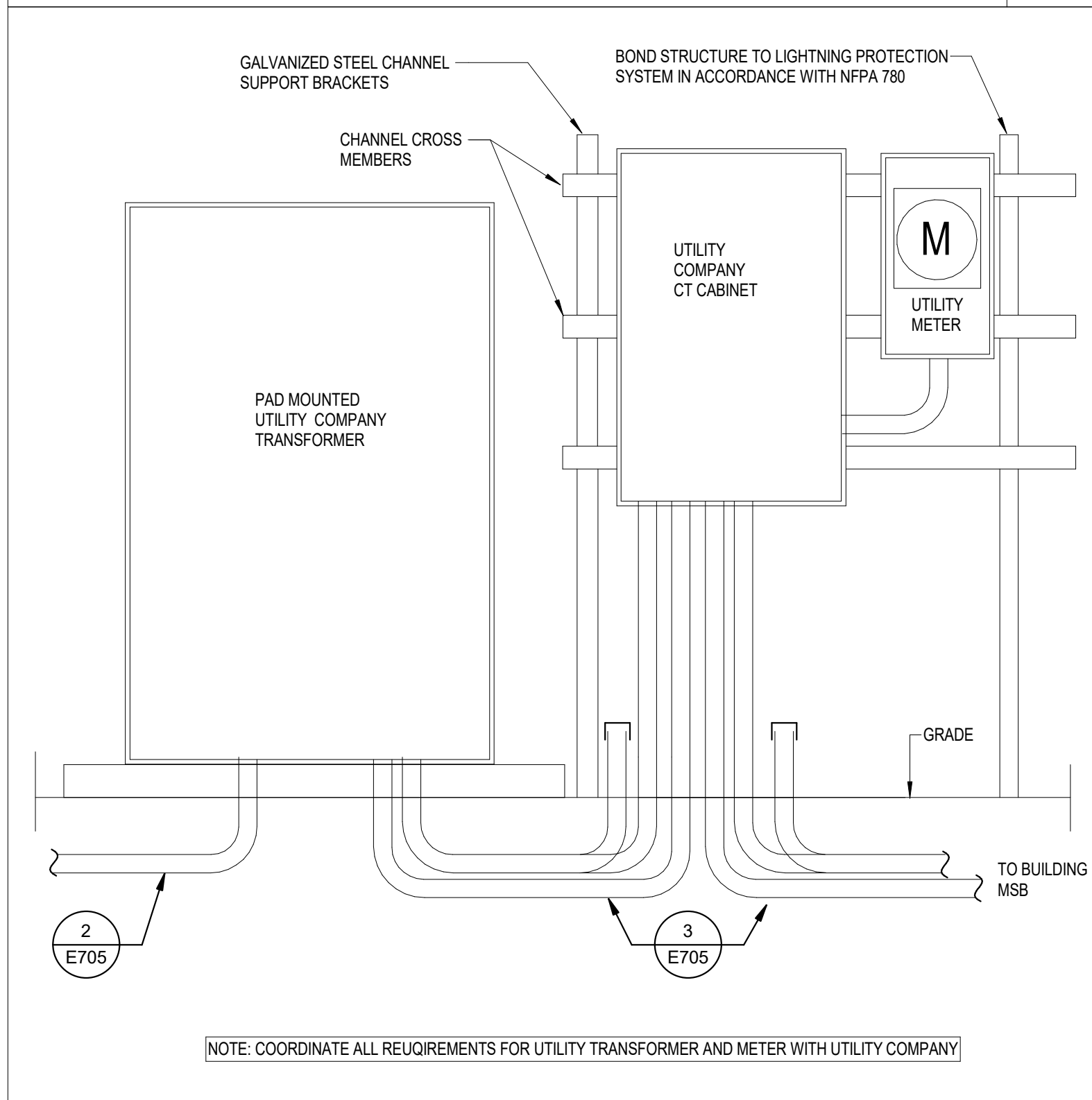
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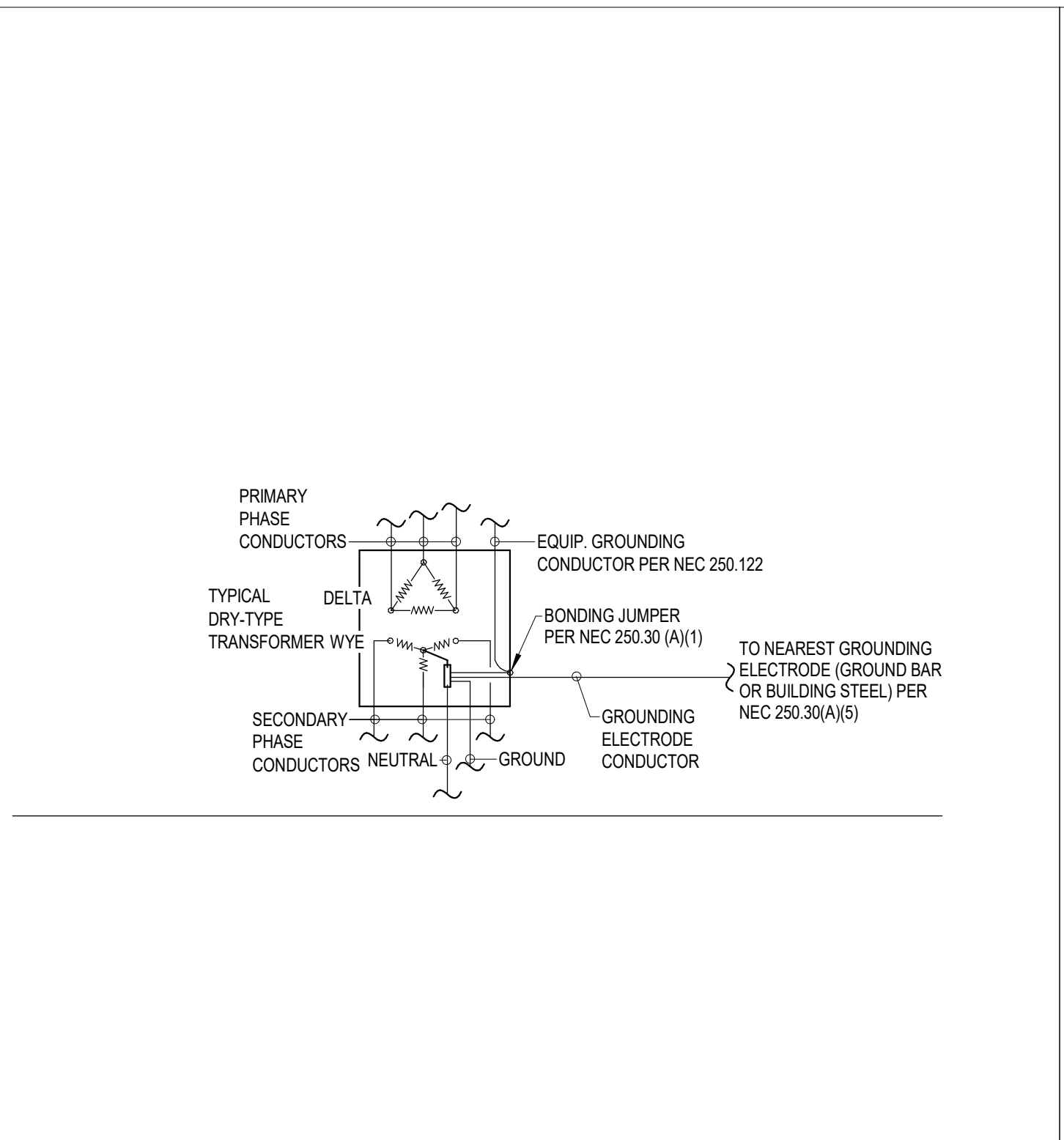
POLE BASE FOR POLES 17' TO 24' - IN PLANTED AREAS
No Scale



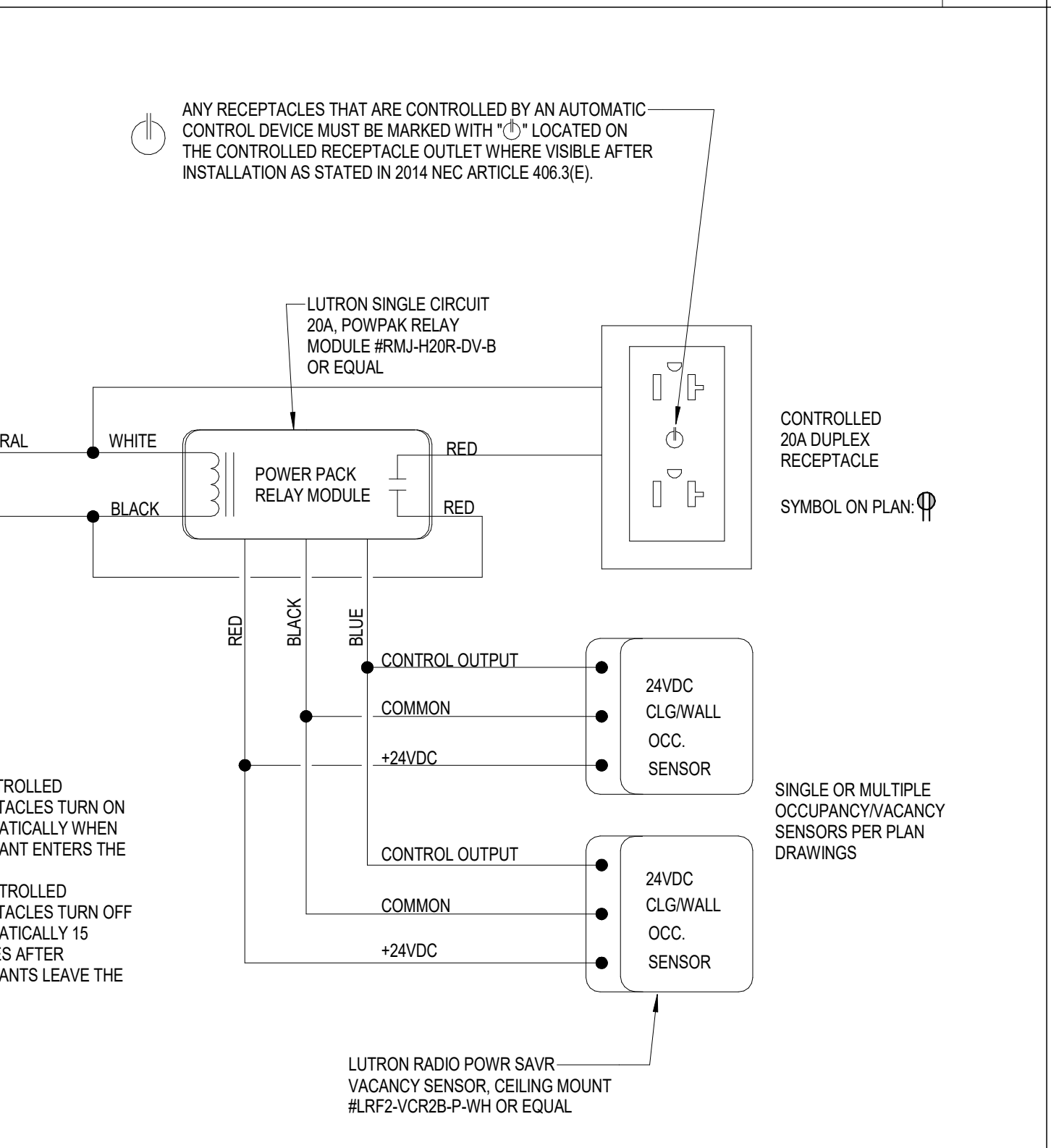
POLE BASE FOR POLES 17' TO 24' - IN PARKING LOT
No Scale



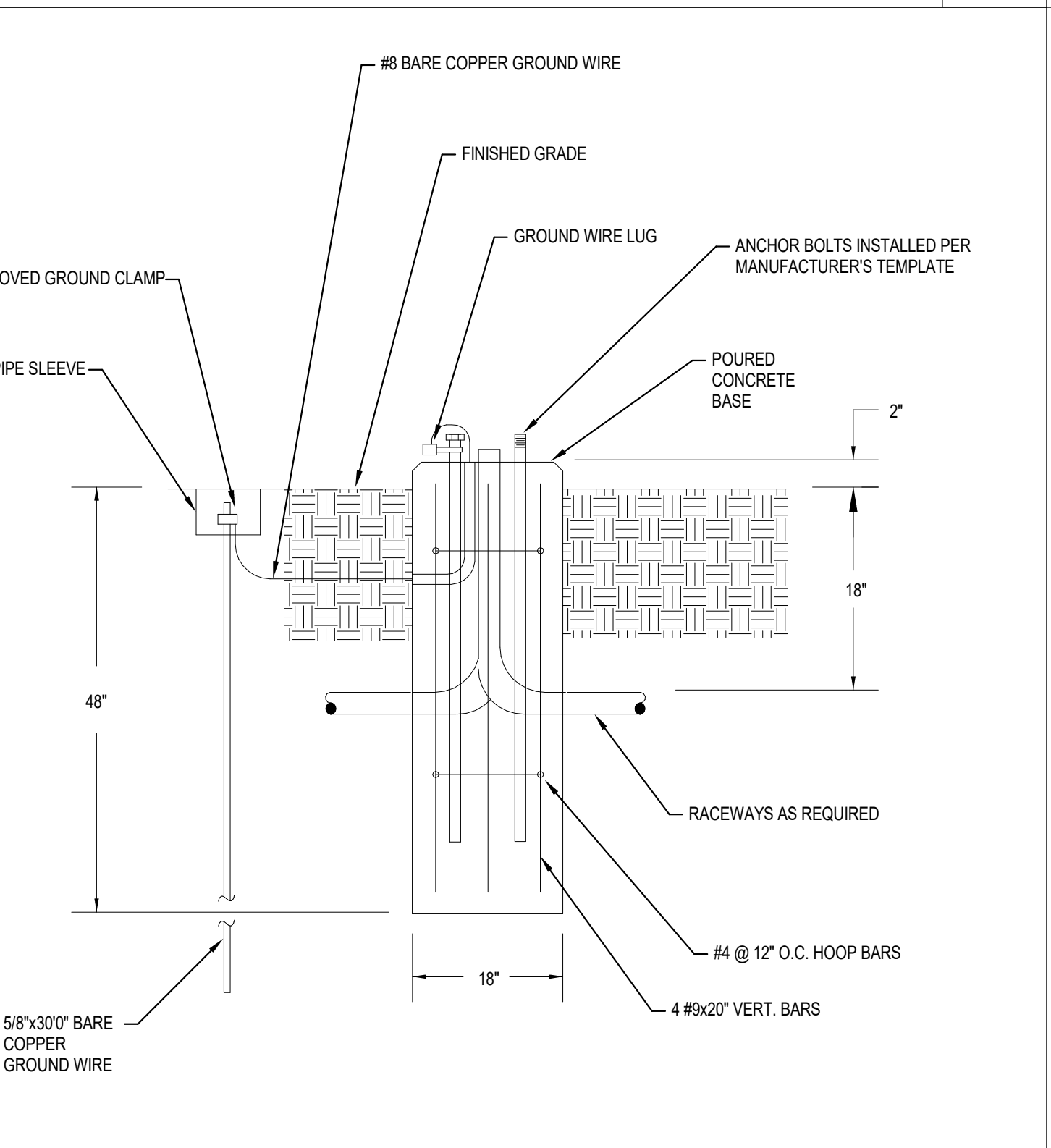
UTILITY TRANSFORMER AND METER
No Scale



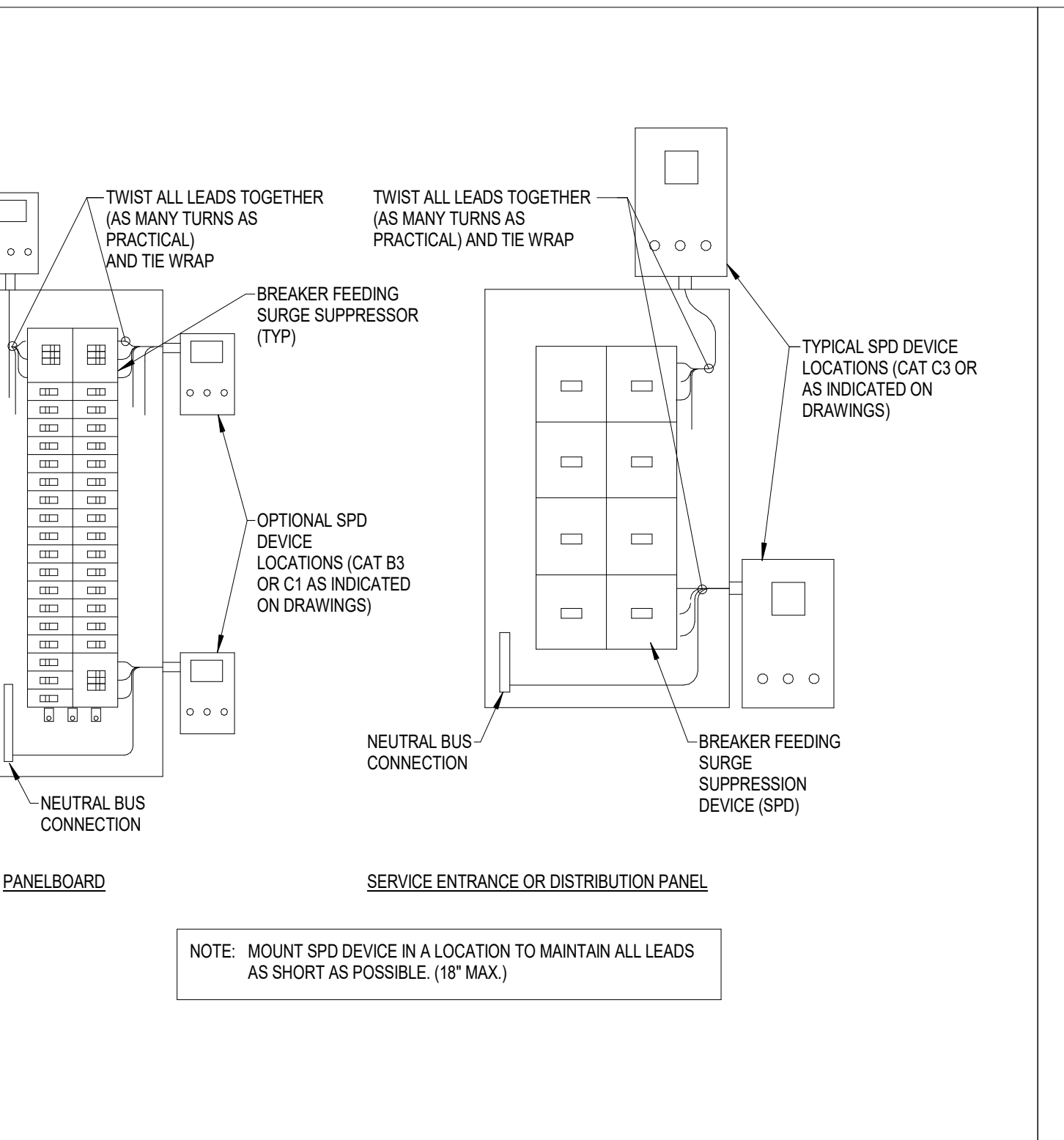
TRANSFORMER WIRING DIAGRAM
No Scale



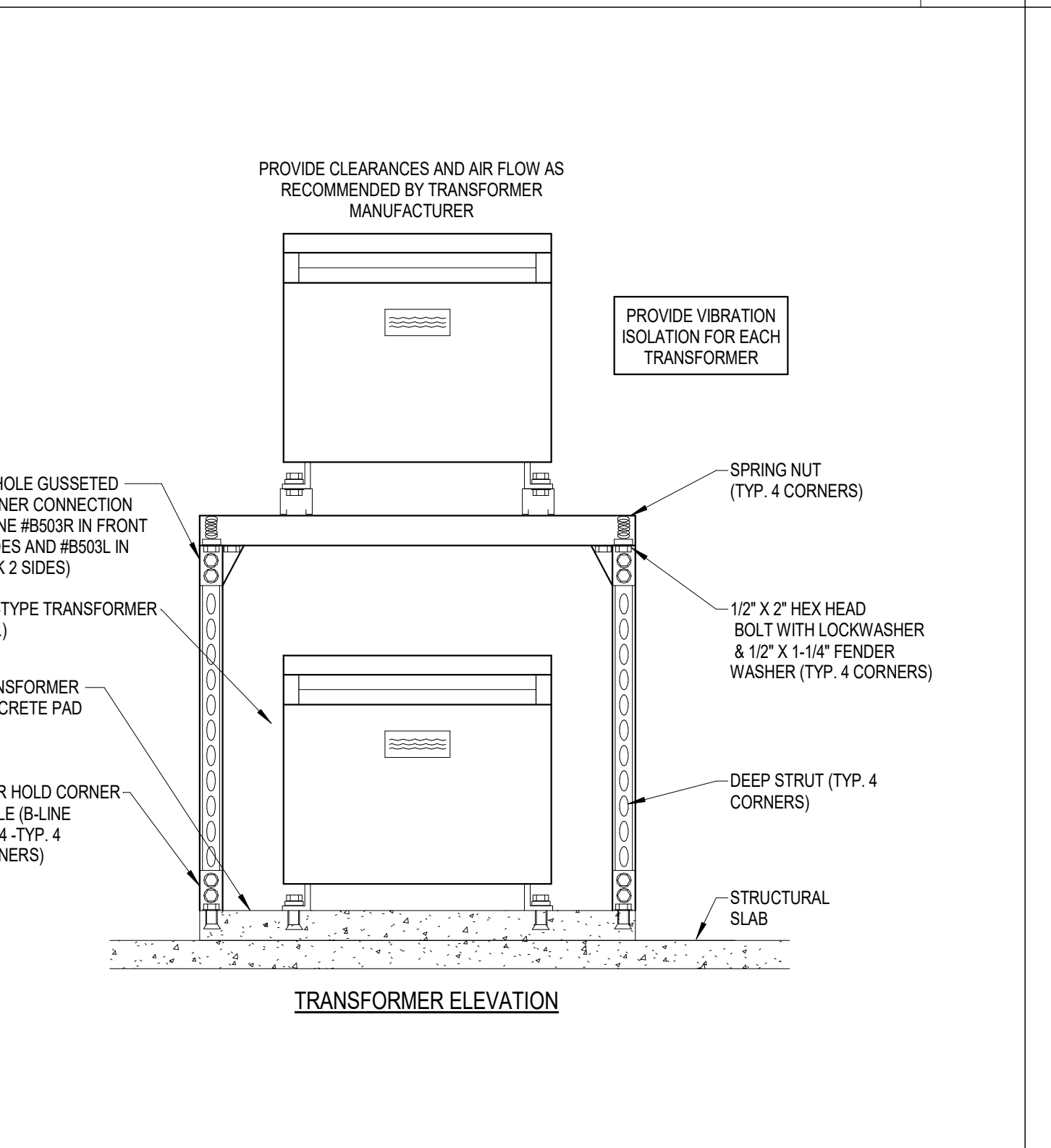
OCCUPANCY SENSOR/RECEPTACLE CONTROL
No Scale



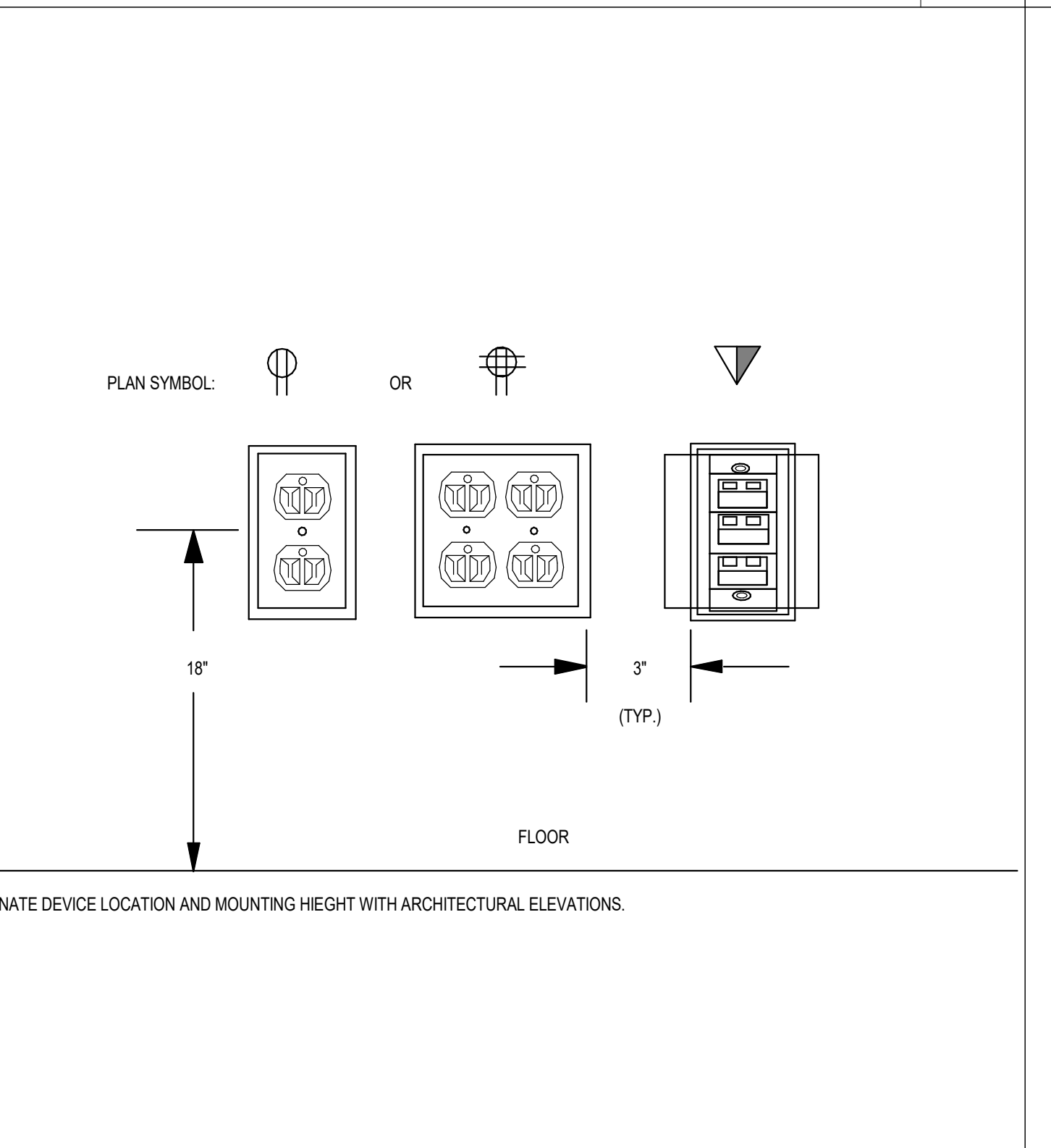
POLE BASE FOR POLES 8' TO 16'
No Scale



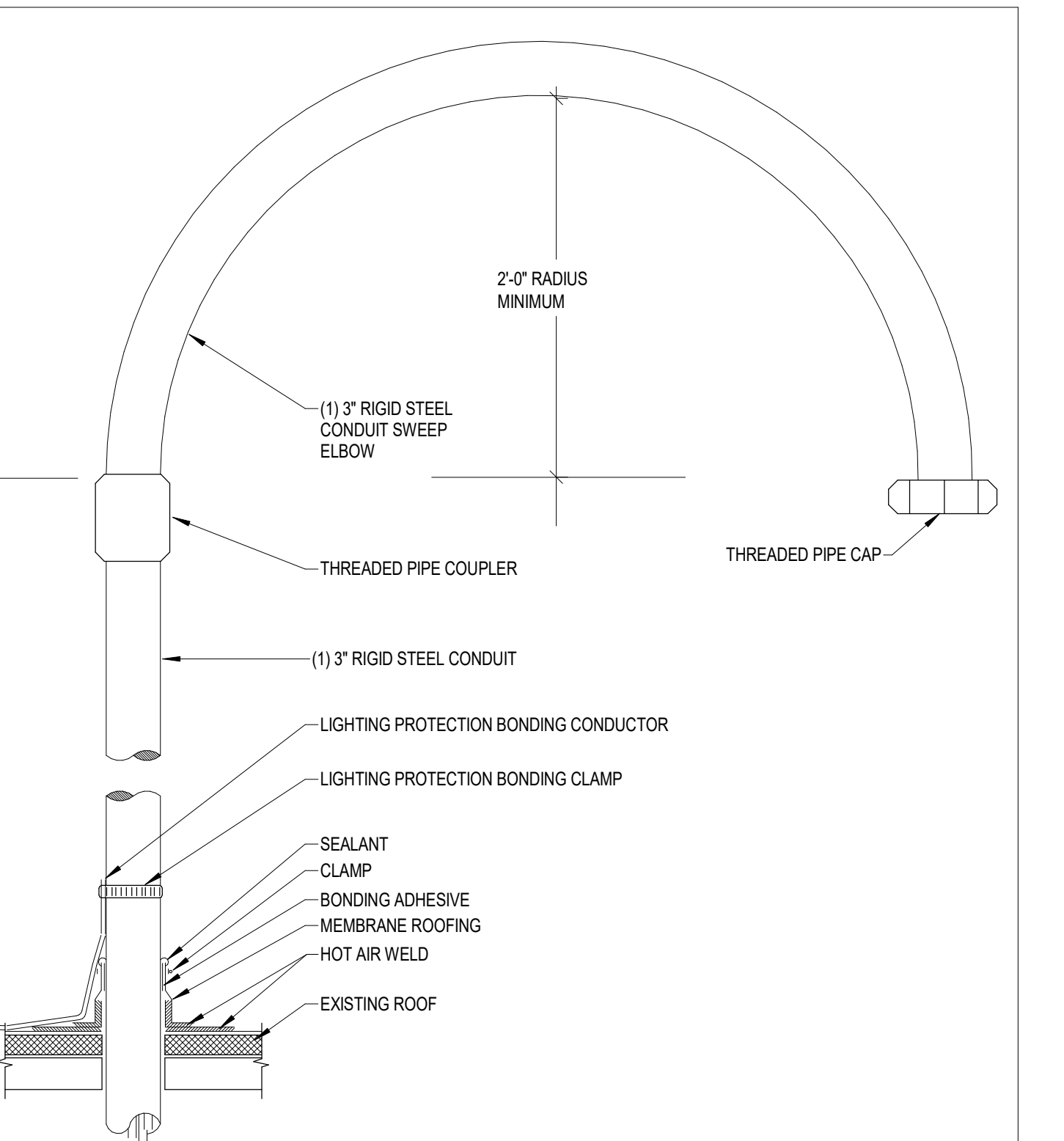
SPD EXTERIOR MOUNT INSTALLATION
No Scale



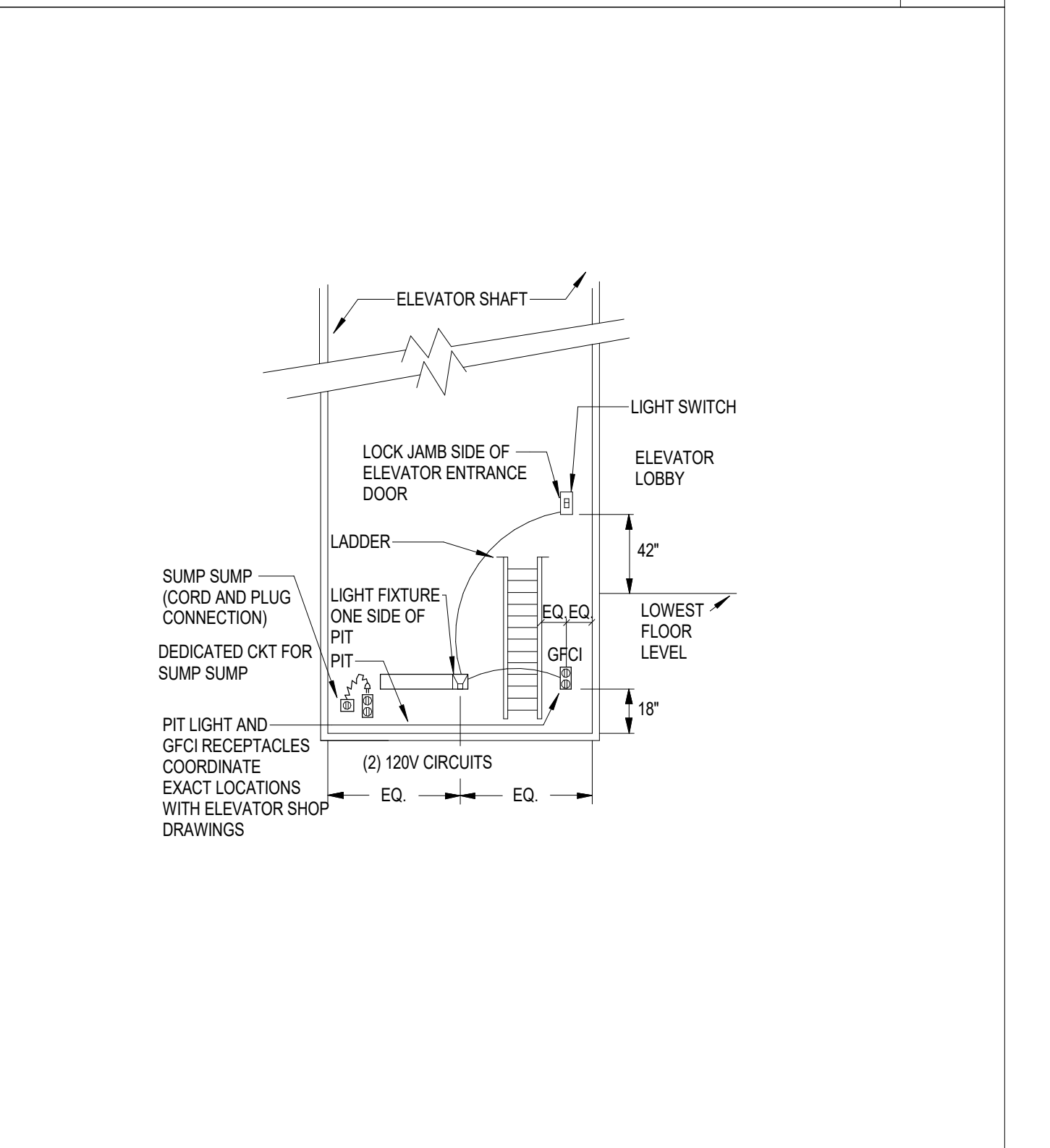
TRANSFORMER STACKED MOUNTING
No Scale



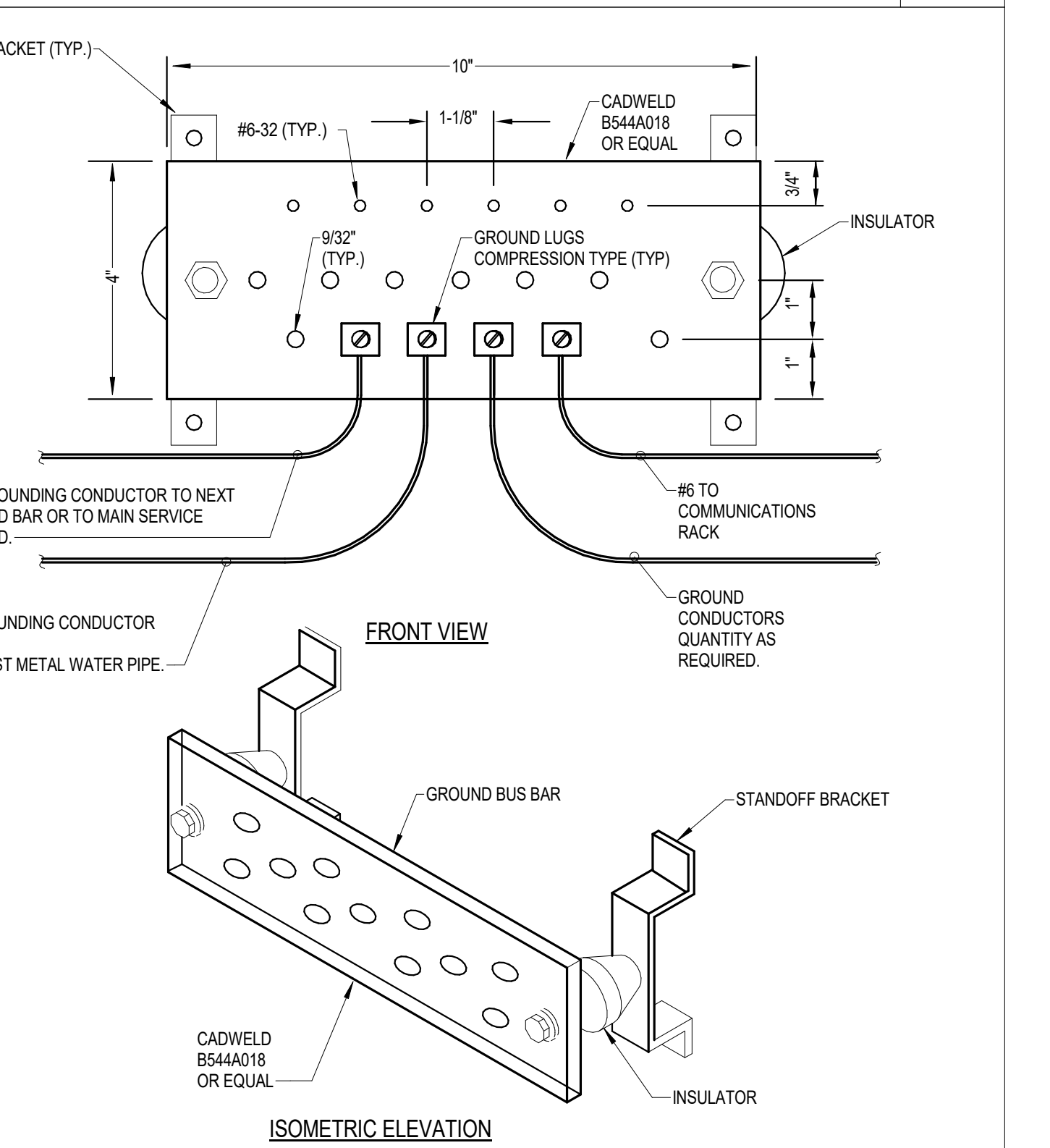
TYPICAL VOICE & DATA ADJACENT TO POWER
No Scale



CONDUIT PENETRATION THRU ROOF
No Scale



ELEVATOR PIT LIGHT AND RECEPTACLE
No Scale



GROUND BAR
No Scale



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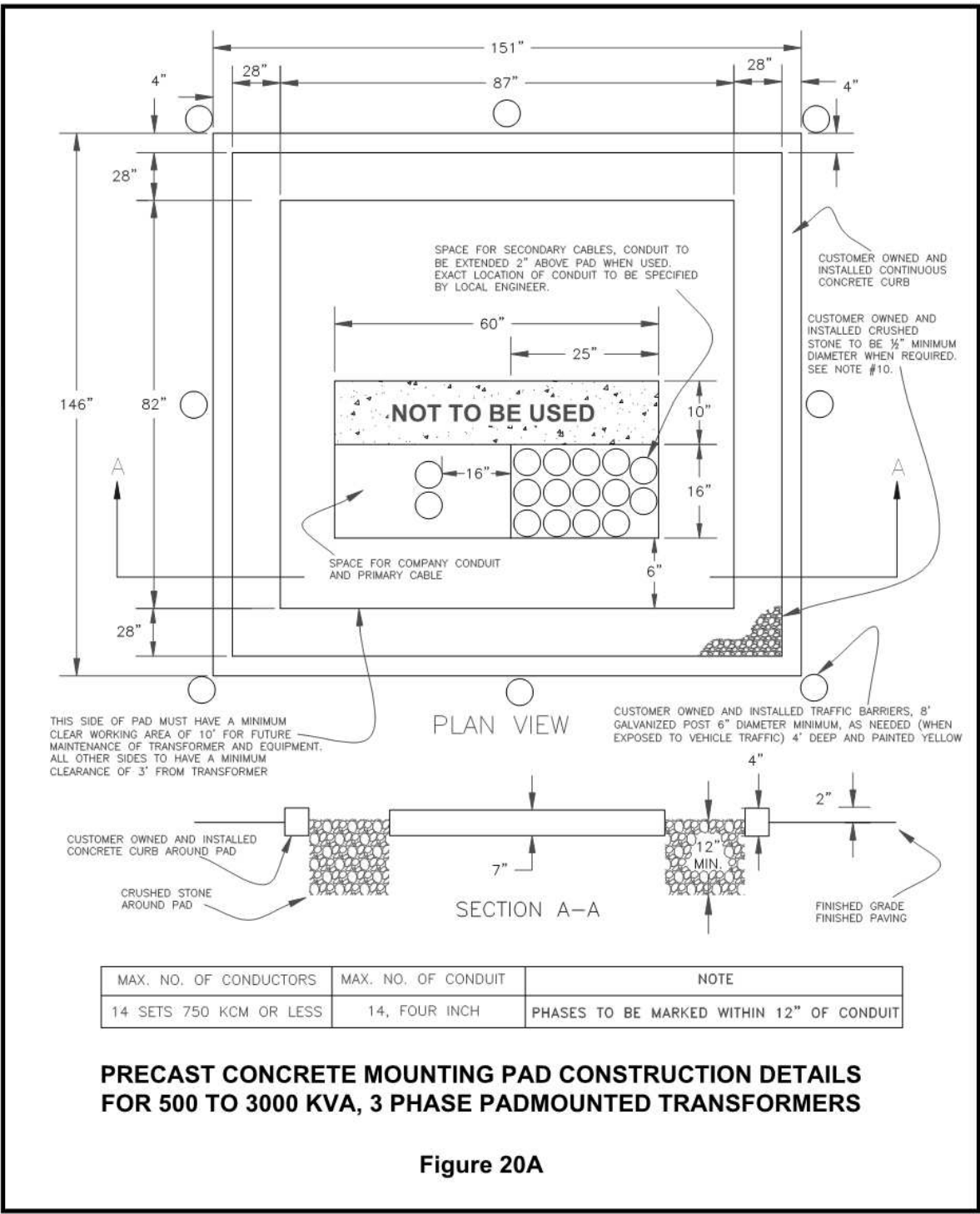


Figure 20A

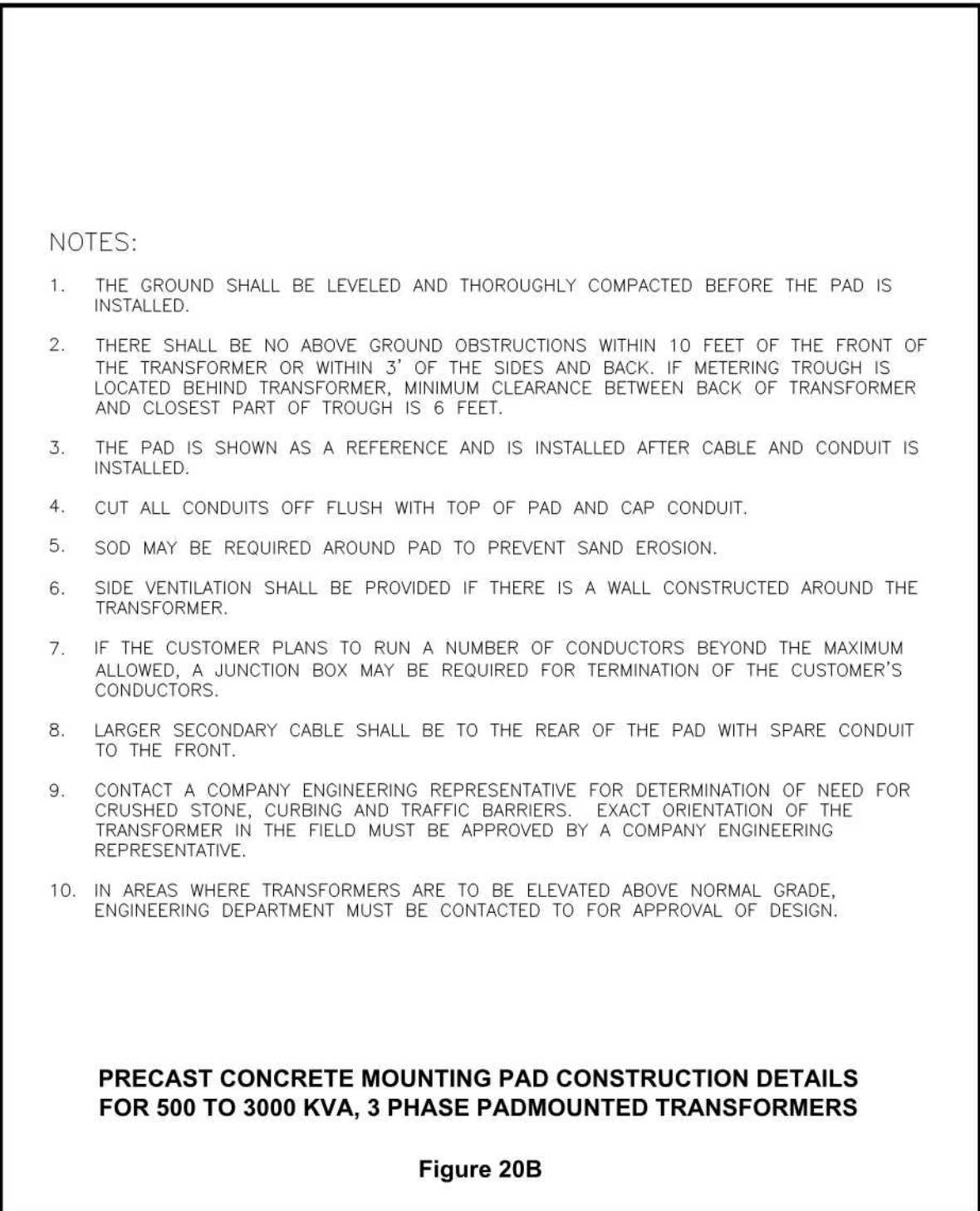
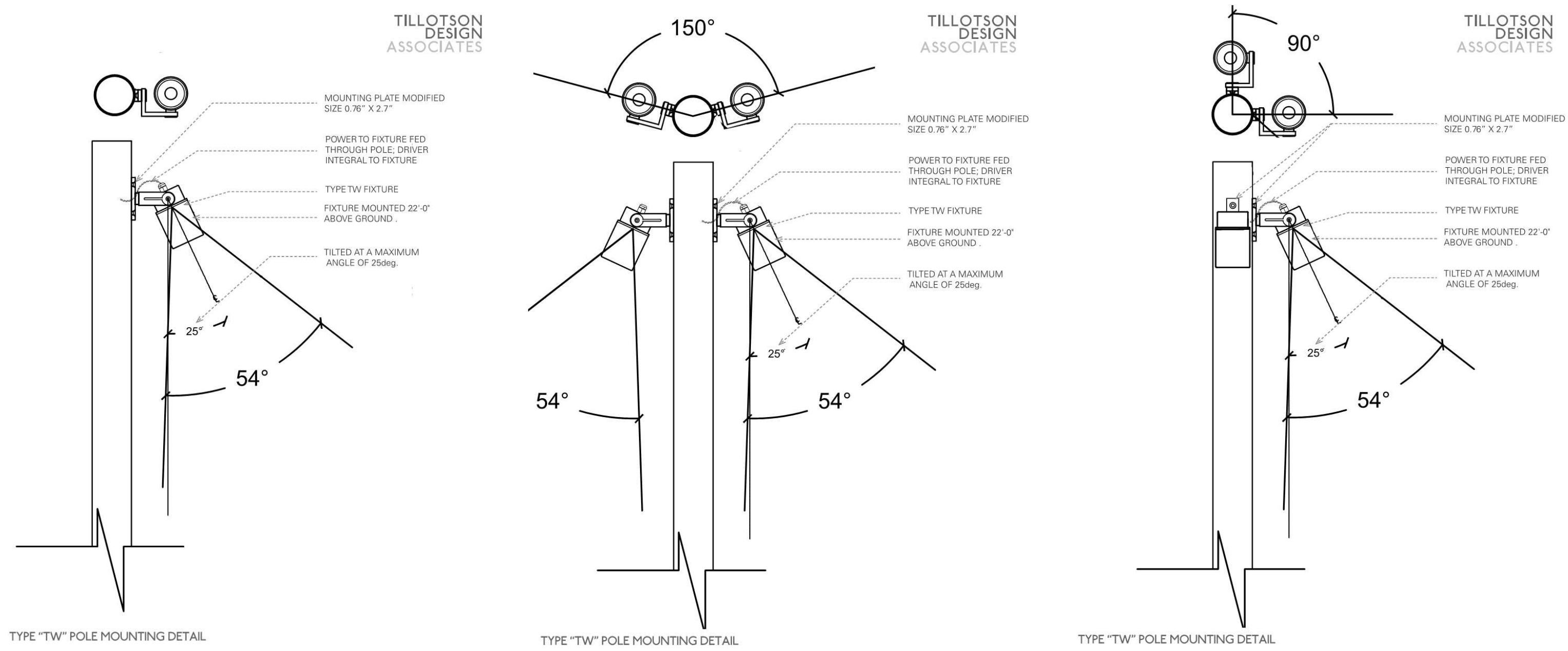


Figure 20B

DUKE ENERGY UTILITY TRANSFORMER PAD

No Scale

1

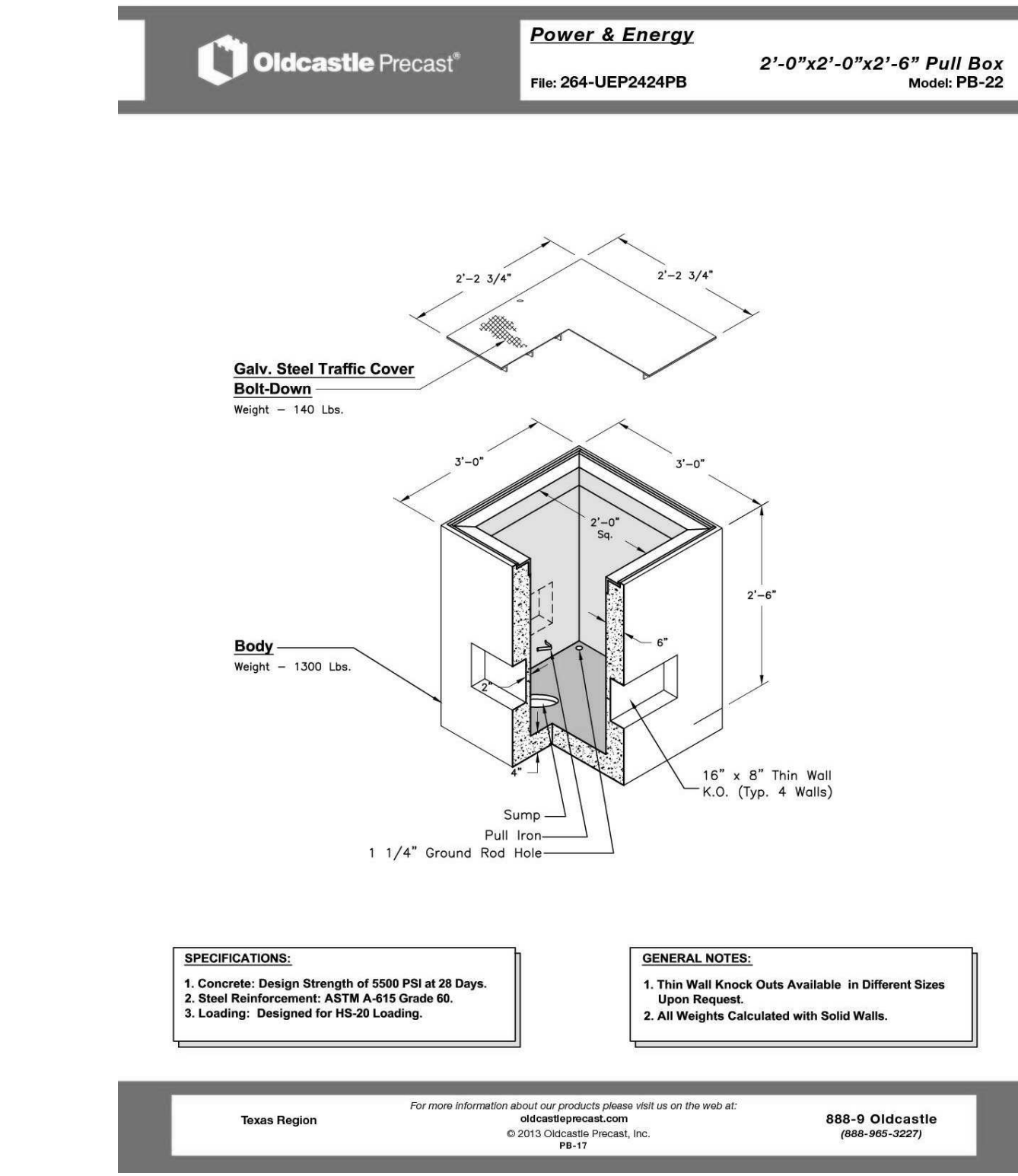


NOTE:
DETAIL PROVIDED BY LIGHTING DESIGNER. PROVIDE BLACK ALUMINUM POLE. SEE POLE BASE DETAIL 10E703.

FIXTURE TYPE "TW" MOUNTING DETAIL

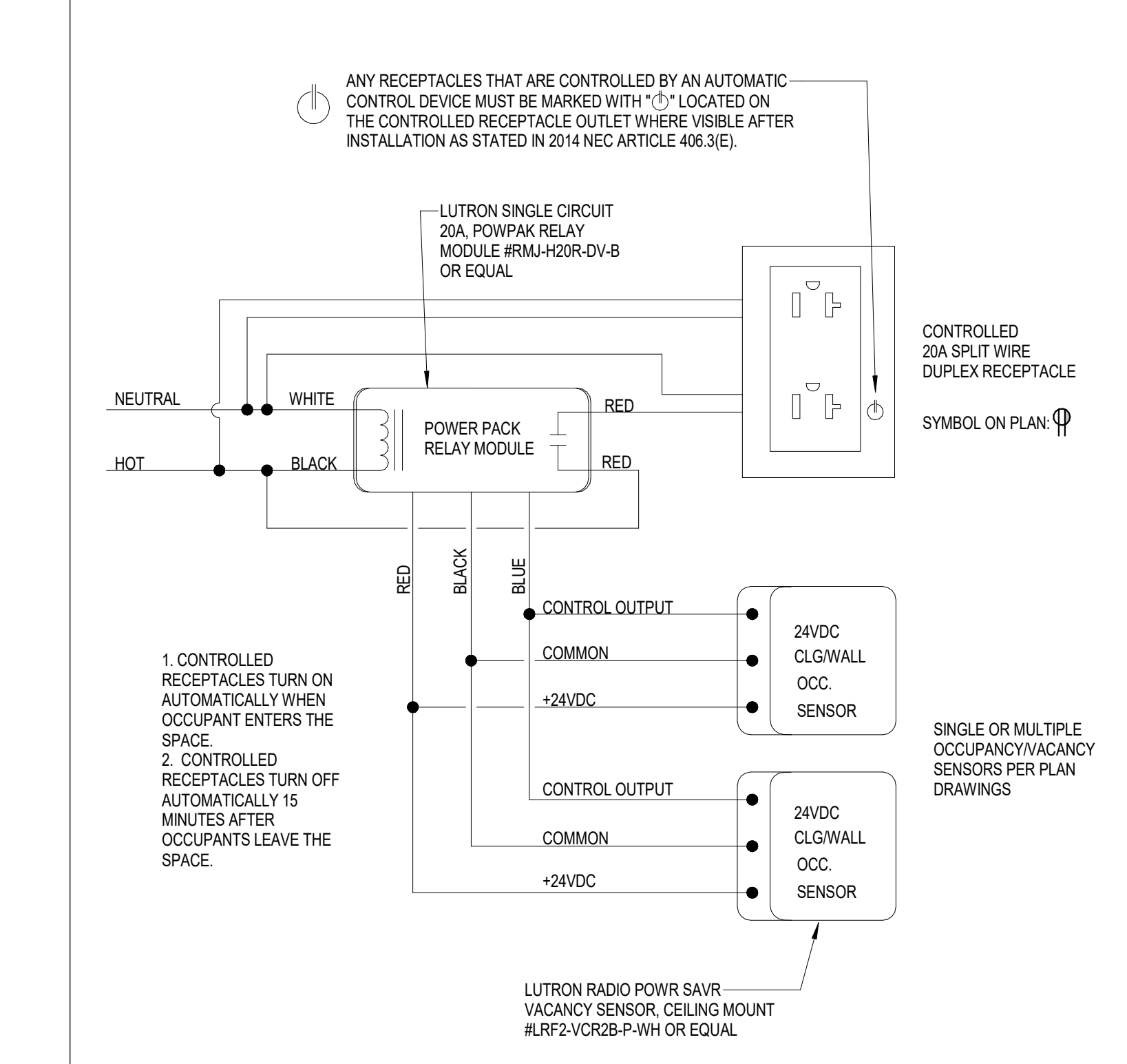
No Scale

2



TYPICAL PULLBOX DETAIL

No Scale



OCCUPANCY SENSOR/SPLIT RECEPTACLE CONTROL

No Scale

3

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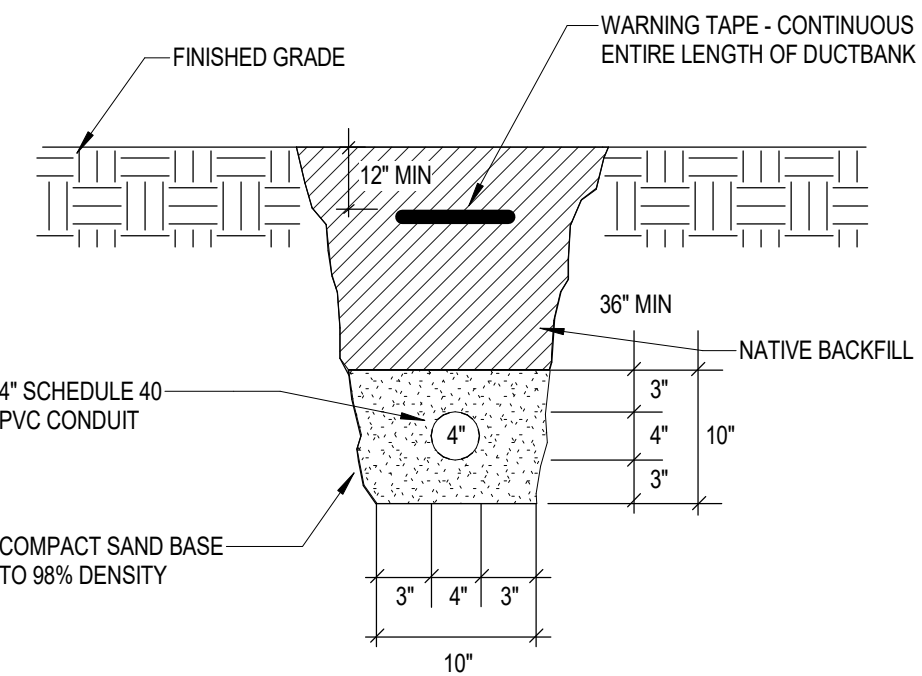
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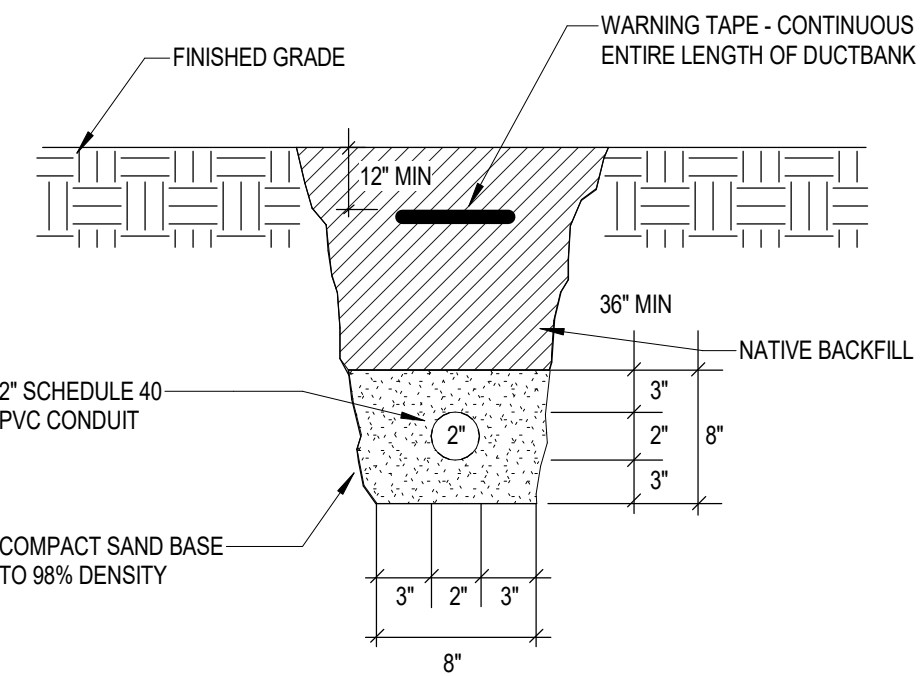
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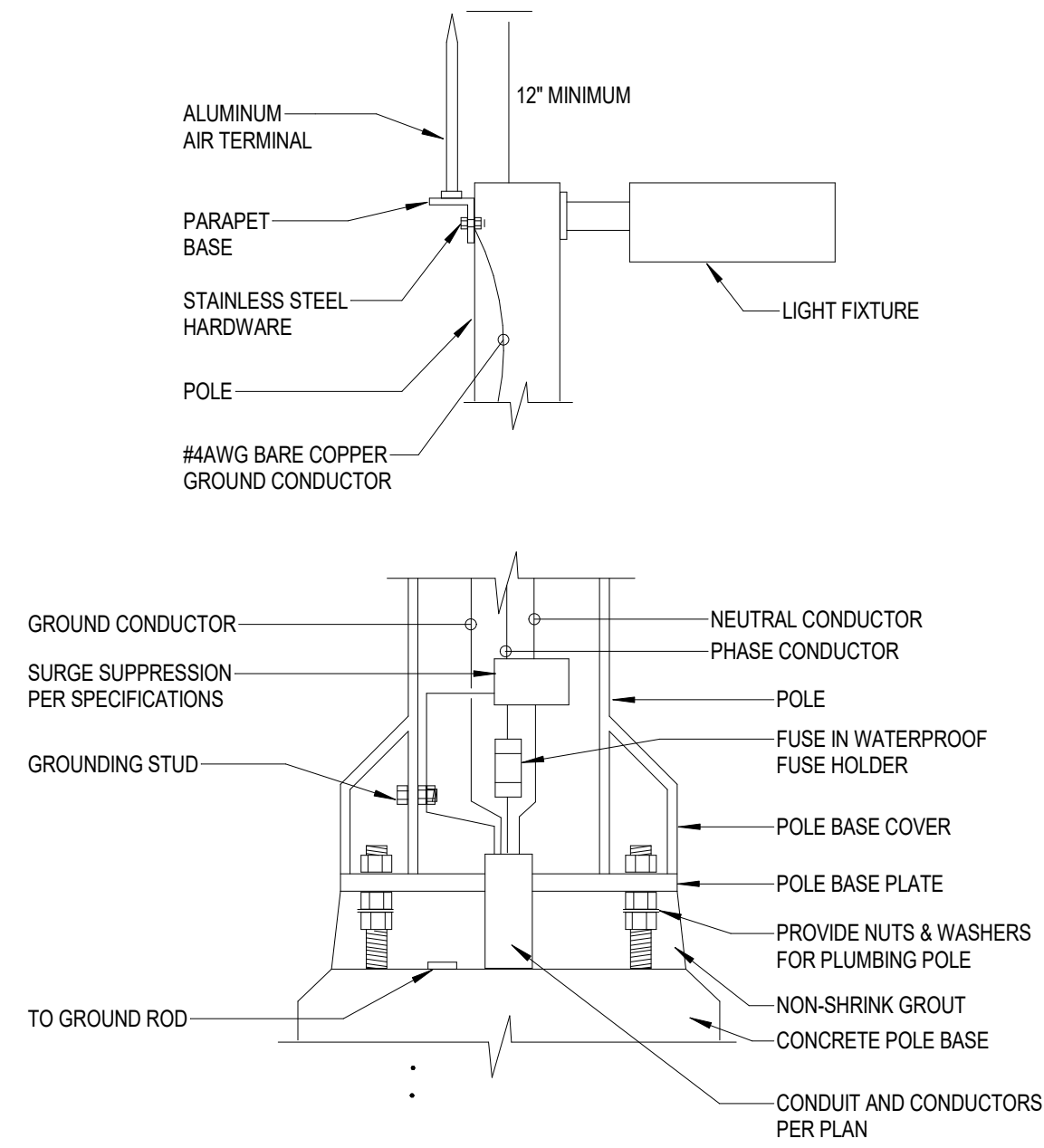
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1W4" DIRECT BURIED POWER DISTRIBUTION CONDUIT
No Scale

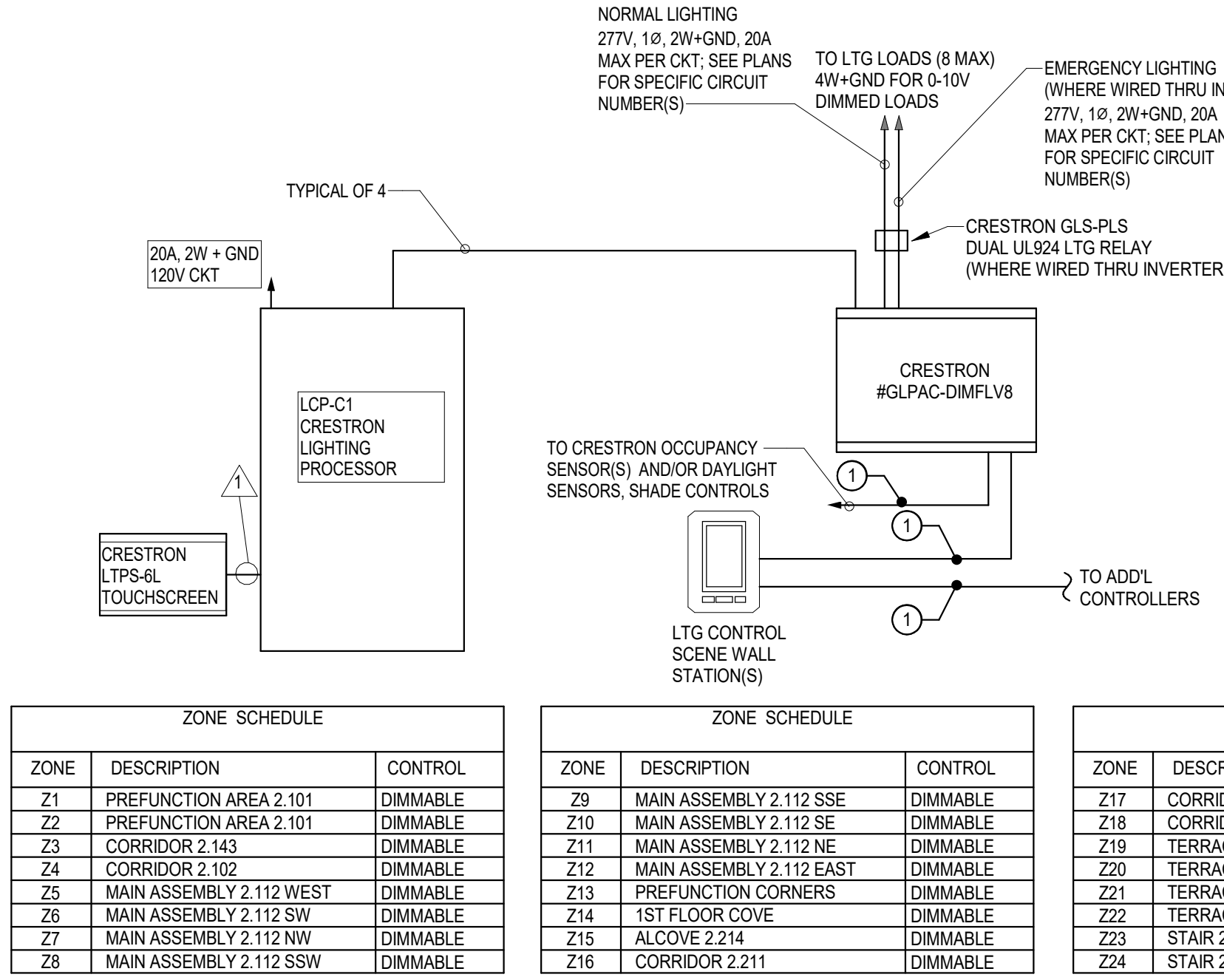


1W2" DIRECT BURIED GENERATOR CONDUIT
No Scale

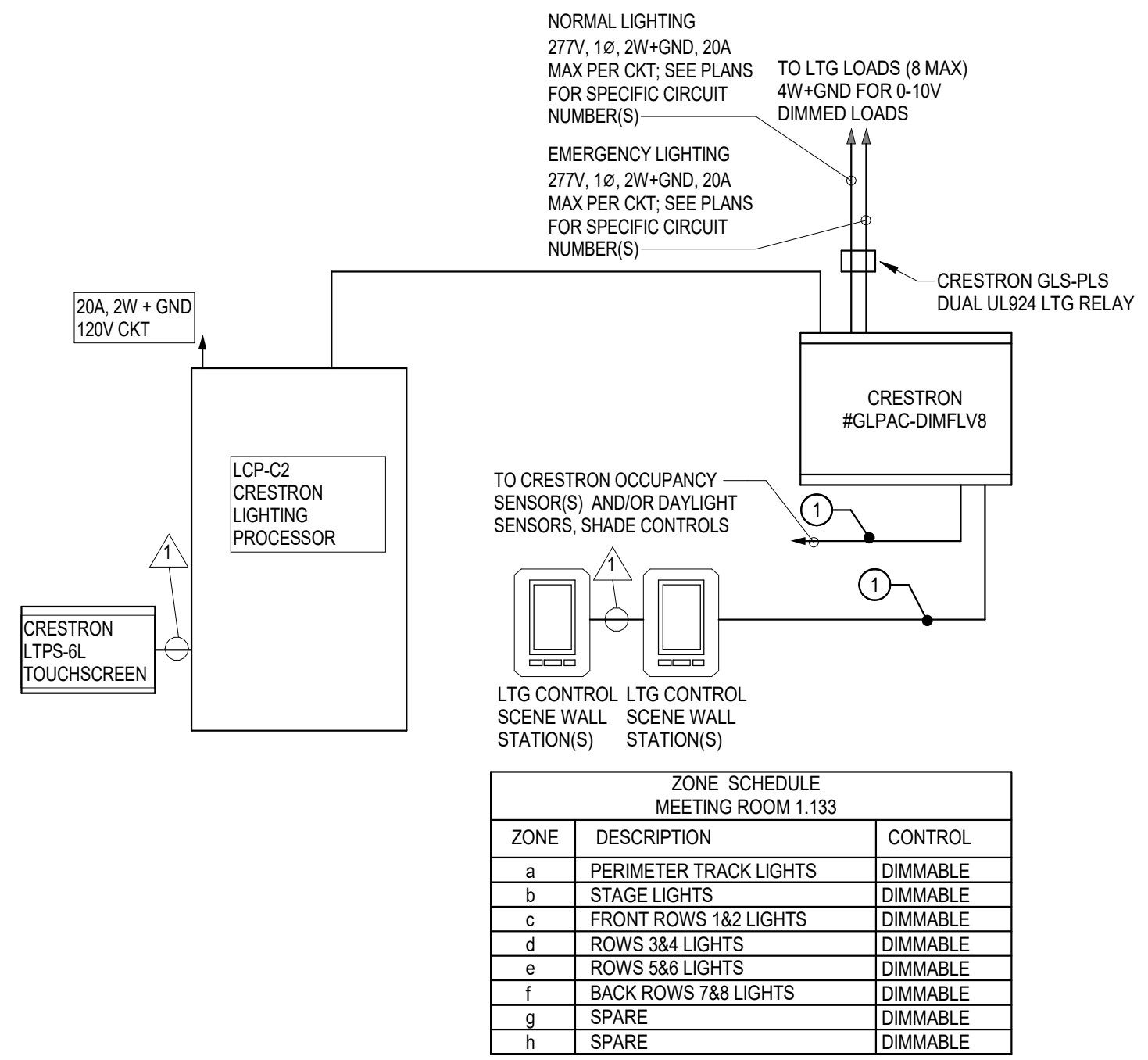


NOTES:
1. ALL HARDWARE ANCHOR BOLTS, NUTS, WASHERS ETC. SHALL BE STAINLESS STEEL.
2. ALL CONNECTIONS AND DEVICES IN POLE SHALL BE ACCESSIBLE THROUGH POLE HANDHOLE.

LIGHT POLE LIGHTNING PROTECTION
No Scale

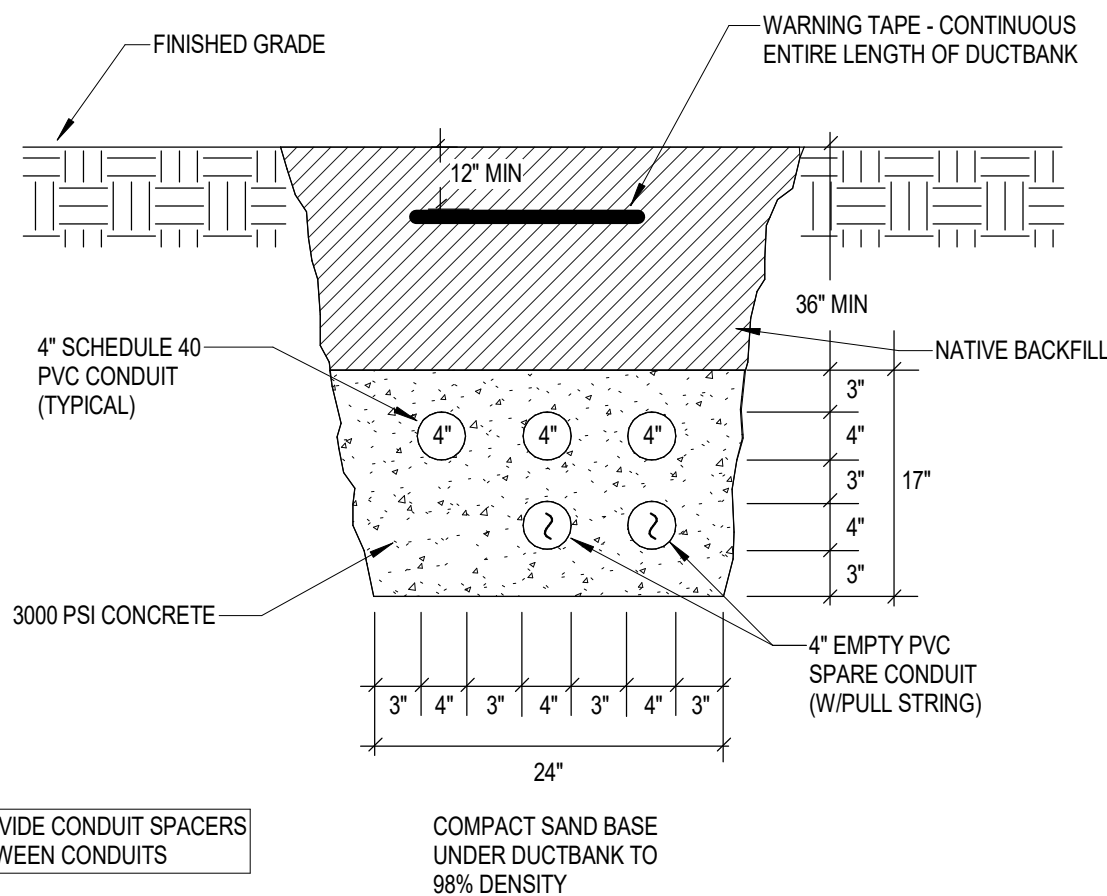


EVENT CENTER CRESTON SYSTEM

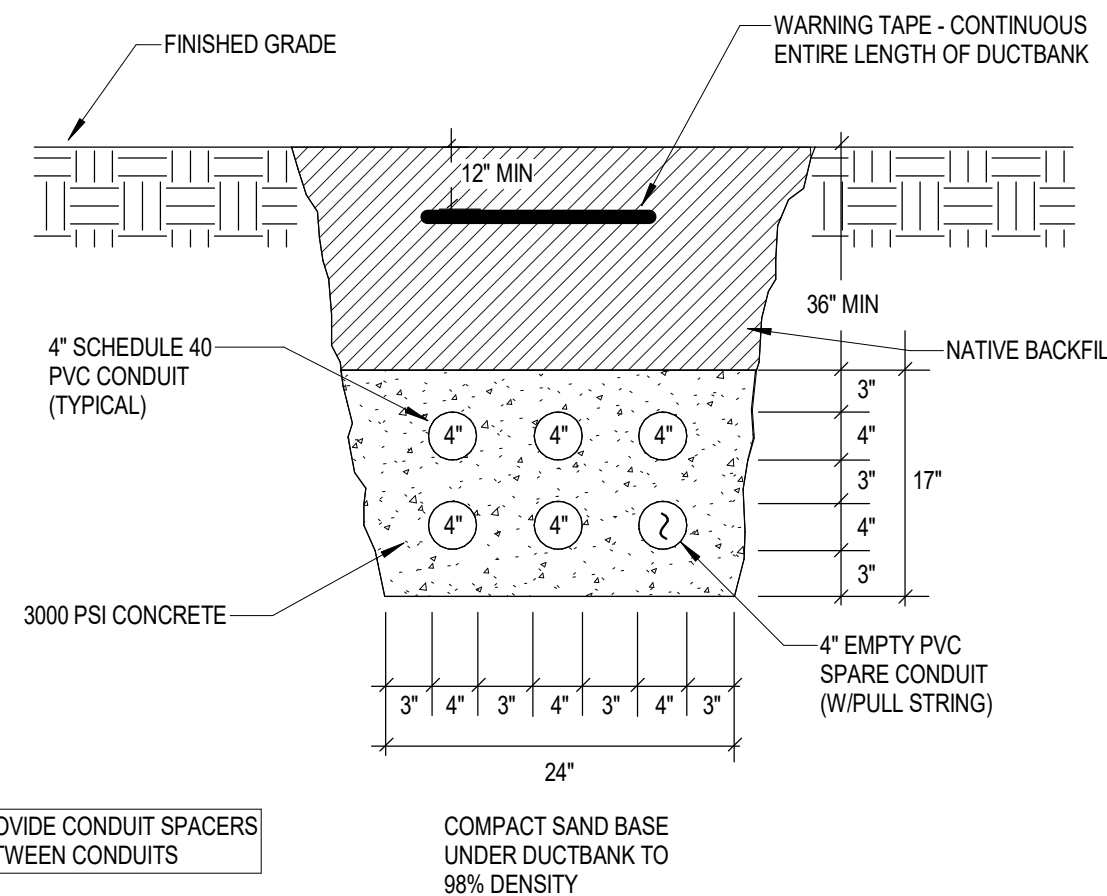


LIBRARY CRESTON SYSTEM

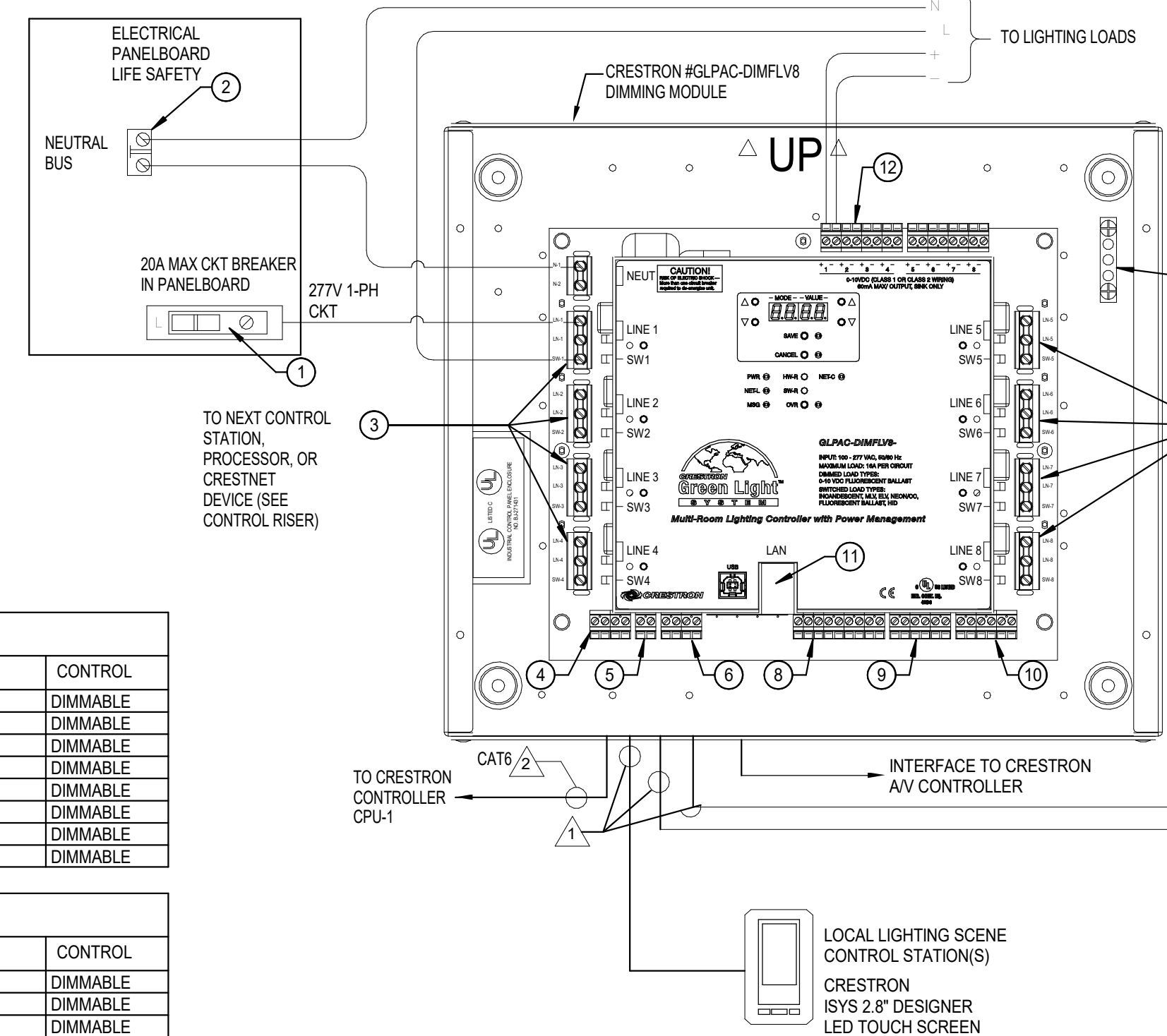
CRESTRON LIGHTING CONTROLS DETAIL
No Scale



3W4" + 2W4" SPARE SECONDARY DUCTBANK SECTION
No Scale



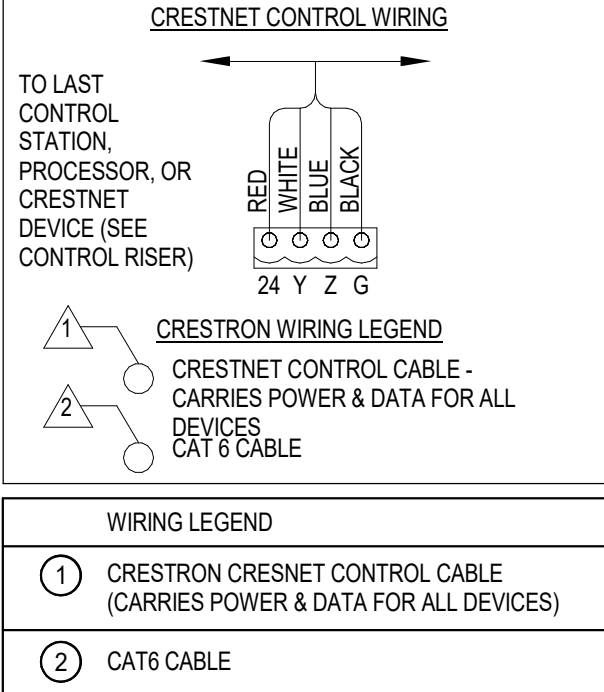
5W4" SECONDARY DUCTBANK SECTION
No Scale



CRESTRON LIGHTING CONTROLLER

CRESTRON LIGHTING CONTROL SYSTEM NOTES:
1. THE LIGHTING CONTROL SYSTEM FOR MEETING ROOM 1133 CONFERENCE ROOMS AND CLASSROOMS INDICATED ON THE LIGHTING PLANS IS BASED ON CRESTRON ELECTRONICS, INC. THE SYSTEM SHALL INTERFACE TO THE CRESTRON AV SYSTEM. REFER TO AV RISER DIAGRAM ON TECHNOLOGY DWGS FOR INTEGRATION WITH CRESTRON SYSTEM.
2. ALL LINE AND LOW VOLTAGE ELECTRICAL TERMINATIONS, WIRE AND CONDUIT, AND ELECTRICAL BOXES REQUIRED FOR CONTROL COMPONENTS ARE TO BE PROVIDED AND INSTALLED BY DIVISION 26. ALL CRESTRON CONTROLLERS AND SYSTEM COMPONENTS ARE TO BE PROVIDED BY DIVISION 26.
3. ALL PROGRAMMING SHALL BE BY DIVISION 26.
4. ARCHITECTURAL CONTROL STATIONS UTILIZE CRESTNET CABLE AND ARE TOPOLOGY FREE. MAXIMUM CABLE RUN IS 1500'.

GENERAL NOTES:
1. SCENE CONTROL STATIONS, OCCUPANCY SENSORS, DAYLIGHT SENSORS ARE FURNISHED AND INSTALLED BY DIVISION 26. LOW VOLTAGE CONNECTIONS BETWEEN DEVICES ARE BY DIVISION 26. COORDINATE QUANTITIES AND LOCATIONS WITH MANUFACTURER PRIOR TO ROUGH IN.
2. LIGHTING CONTROLLER IS PROVIDED BY DIVISION 26. CONFIRM EXACT LOCATION OF INSTALLATION WITH OWNER PRIOR TO ROUGH IN.
3. CONFIRM TYPE OF CRESTRON CONTROLLER WITH TECHNOLOGY PLANS PRIOR TO INSTALLATION FOR EXACT ELECTRICAL REQUIREMENTS AND ADJUST AS NECESSARY.
KEY NOTES:
1. CIRCUIT BREAKER (20A MAX) - BREAKER IS FURNISHED BY DIVISION 26.
2. NEUTRAL BUS BAR - BUS BAR INTEGRAL TO CIRCUIT BREAKER PANELBOARD.
3. 12 LINE AND 11 LOAD TERMINAL FOR EACH OF (8) CIRCUITS. (SCREWS TO BE TORQUED TO 8 IN.LB)
4. MASTER CRESTNET NETWORK CONNECTOR FOR COMMUNICATION TO BUILDING PROCESSOR.
5. EMERGENCY OVERRIDE INPUT AND RELAY(S) FOR UL 924 COMPLIANCE.
6. LOCAL CRESTNET NETWORK CONNECTOR FOR COMMUNICATION LOCAL DEVICES.
7. OPTION OUTPUT RELAYS.
8. CONTACT CLOSURES.
9. (4) OCCUPANCY SENSOR INPUTS. 24V LOW VOLTAGE POWER PROVIDED.
10. (4) PHOTO SENSOR INPUTS. 24V LOW VOLTAGE POWER PROVIDED.
11. ETHERNET CONNECTION FOR SYSTEM CONFIGURATION.
12. 0-10V OUTPUT FOR DIMMING OF FIXTURES. USE CLASS 1 OR CLASS 2 WIRE. 0-10V OUTPUTS MUST CORRESPOND TO LINE OUTPUTS. MINIMUM GAUGE WIRE IS 18AWG.



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LIGHT FIXTURE SCHEDULE GENERAL NOTES:	1. ALL LED FIXTURES SHALL BE MINIMUM 50,000 HOURS L70, CRI 80+.
	2. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTS FIXTURES LOCATED IN FIRE-RATED CEILINGS.
	3. FIXTURES IN BACK-OF-HOUSE AREAS WITHOUT CEILINGS SUCH AS MECHANICAL AND ELECTRICAL ROOMS SHALL BE MOUNTED WITH 1-1/2" X 1-1/2" STEEL CHANNEL SUPPORT SUSPENDED FROM STRUCTURE WITH THREADED RODS. FIXTURES SHALL BE MOUNTED AT 10'-0" AFF UNLESS SPECIFICALLY NOTED OTHERWISE.
	4. ALL ACRYLIC LENSED FIXTURES SHALL HAVE A MINIMUM LENS THICKNESS OF 0.125 INCHES, UNLESS NOTED OTHERWISE.
	5. IF THERE IS A DISCREPANCY BETWEEN THE FIXTURE DESCRIPTION, THE LIGHTING GENERAL NOTES, THE LIGHTING SPECIFICATIONS, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION SHALL TAKE PRECEDENCE.
	6. WHERE A SINGLE MANUFACTURER IS LISTED WITH A CORRESPONDING CATALOG NUMBER, THIS MANUFACTURER SHALL BE CONSIDERED THE BASIS OF DESIGN SELECTION. OTHER MANUFACTURERS WILL BE CONSIDERED AS "APPROVED EQUAL" ONLY IF THEIR LIGHTING FIXTURE MEETS OR EXCEEDS THE BASIS OF DESIGN SELECTION IN TYPE AND QUALITY OF CONSTRUCTION, LOWER FINISHES, LENSES, HOUSING FINISHES, PHOTOMETRICS, SELECTED OPTIONS AND ACCESSORIES. APPROVED EQUAL MANUFACTURERS MUST ALSO MATCH OVERALL APPEARANCE AND DIMENSIONS OF BASIS OF DESIGN SELECTION, WHERE ONLY A MANUFACTURER'S NAME IS LISTED, THE FIXTURE SHALL COMPLY WITH THE DESCRIPTION, VOLTAGE, LAMP TYPE AND WATTAGE, AND ANY NOTED REMARKS. THE LIGHTING FIXTURE SCHEDULE NOTES, AND THE LIGHTING SPECIFICATIONS.
	7. PROVIDE SUFFICIENT QUANTITY OF BALLASTS, FOR FLUORESCENT FIXTURES, BASED ON SWITCHING CONFIGURATION INDICATED ON LIGHTING PLANS, WHERE APPLICABLE.
	8. LIGHT FIXTURES IN LAY-IN CEILING GRDS SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE (1) 12 GAUGE WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12 GAUGE WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.
	9. WHERE A MANUFACTURER IS PROVIDED, OTHER THAN THE BASIS OF DESIGN MANUFACTURER, PHOTOMETRIC CALCULATIONS SHALL BE INCLUDED AS PART OF THE SHOP DRAWING SUBMITTALS FOR THE FOLLOWING AREAS: STAIRS, ELEVATOR THRESHOLD, EMERGENCY LIGHTING FOR EGRESS.
	LIGHT CONTROL GENERAL NOTES:
2. CONTRACTOR TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM COMPLETE WITH LIGHTING CONTROL RELAY PANELS, SWITCHES, OCCUPANCY SENSORS, DAYLIGHT SENSORS, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.	
3. LOCAL DIMMING EQUIPMENT SHALL BE LOCATIONS IN THE LOCATED IN THE MAIN ELECTRICAL ROOM 2.109 AND ELECTRICAL EQUIPMENT 1.137.	
4. LIGHTING CONTROL SYSTEM SHALL BE STANDALONE IN ENCLOSED ROOMS (OFFICES, STORAGE ROOMS, RESTROOMS, EQUIPMENT ROOMS, ETC.) PER ROOM/ZONE AND IS TIME-BASED, SENSOR-BASED (DAYLIGHT SENSORS AND OCCUPANCY CONTROL), AND/OR MANUAL LIGHTING CONTROL PER SPACE REQUIREMENTS.	
5. THE SYSTEM SHALL BE CAPABLE OF TURNING LIGHTING LOADS ON/OFF AS WELL AS DIMMING LIGHTS (IF LIGHTING LOAD IS CAPABLE OF BEING DIMMED).	
6. DEVICES ON THE CATS NETWORK MAY BE PLACED IN ANY ORDER. TYPICAL AND SPECIFIC RISERS PROVIDED ARE NOT INTENDED TO BE A POINT-TO-POINT DIAGRAM AND SHOULD NOT BE TAKEN AS SUCH.	
7. THE ARCHITECTURE ON THE RISERS IS INTENDED TO BE USED AS A TYPICAL RISER SHOWING SYSTEM ARCHITECTURE. SEE LIGHTING PLANS FOR COUNTS OF OCCUPANCY SENSORS, DAYLIGHT SENSORS AND SWITCHES.	
8. INDIVIDUAL PRIVATE OFFICES AND OTHER ROOMS NOTED ON THE LIGHTING PLANS ARE INTENDED TO BE A STAND-ALONE SYSTEM.	
9. TIME-OF-DAY SCHEDULE PROGRAMMING AND SEQUENCES OF OPERATION, INCORPORATION OF ALL COMPONENTS (OCCUPANCY SENSORS, DAYLIGHT SENSORS, OUTDOOR PHOTOCELL SENSORS, CONTROLS, ETC.) SHALL BE CAREFULLY COORDINATED WITH OWNER, ENGINEER, ARCHITECT AND CONTRACTOR AND LIGHTING CONTROLS SYSTEMS INTEGRATOR, AS PART OF REQUIRED SHOP DRAWING SUBMITTAL PROCESS. TO BE DEVELOPED AND CONFIRMED DURING PRODUCT SUBMITTAL REVIEW AND SUBSEQUENT MEETINGS WITH OWNER. FINAL PROGRAMMING, SEQUENCE OF OPERATION INFORMATION IS TO BE DOCUMENTED AT THE END OF CONSTRUCTION ON O&M INFORMATION TURNED OVER TO THE OWNER.	
10. ALL OCCUPANCY SENSORS ARE TO BE DUAL TECHNOLOGY.	
11. ON/OFF SWITCHES IN PUBLIC SPACES ARE TO BE PROGRAMMED TO ALLOW LIGHTS IN ZONE TO BE TURNED ON ONLY, AND NOT OFF.	
12. CATS CONTROL CABLE SHALL BE BLACK IN COLOR, AND SHALL BE RUN IN J-HOOKS SUPPORTED FROM THE STRUCTURE, OR IN AVAILABLE NEARBY TELECOMMUNICATIONS CABLE TRAYS, AND LABELED AS "LTO CONTROL".	
13. WHERE SWITCHES ARE LOCATED REMOTE FROM LIGHT FIXTURES, PROVIDE LABEL ON SWITCH INDICATING LIGHTS CONTROLLED.	
14. REFER TO POWER PLANS FOR OCCUPANCY SENSOR CONTROLLED RECEPTACLES IN OFFICES, OPEN OFFICES AND COMPUTER LABS. PROVIDE POWER PACK WITH AREA SHOWN TO CONTROL RECEPTACLES INDICATED.	
<u>SUBMITTALS:</u>	
1. PRODUCT DATA SHEETS INCLUDING ALL DEVICES, DIMENSIONS, WIRING DETAILS, NOMENCLATURE.	
2. RISER/BLOCK DIAGRAMS, TYPICAL PER ROOM TYPE, INCLUDING DETAILED DRAWINGS SHOWING DEVICE INTERCONNECTIVITY.	
3. OTHER DIAGRAMS AS NEEDED FOR SPECIAL OPERATION.	
4. EXAMPLE CONTRACTOR STARTUP/COMMISSIONINGS WORKSHEET MUST BE COMPLETED PRIOR TO FACTORY START-UP.	
5. HARDWARE AND SOFTWARE OPERATION MANUALS.	
6. OTHER OPERATIONAL DESCRIPTIONS AS NEEDED.	
<u>WARRANTY:</u>	
1. ALL DEVICES IN LIGHTING CONTROL SYSTEM SHALL HAVE A 5-YEAR WARRANTY, STARTING FROM THE DATE OF SUBSTANTIAL COMPLETION INSPECTION.	
<u>COORDINATION:</u>	
1. CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.	
<u>START-UP & TRAINING:</u>	
1. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE FOR PRE-FUNCTIONAL AND FUNCTIONAL COMMISSIONING OF THE COMPLETE SYSTEM PRIOR TO FINAL COMPLETION. THIS SHALL INCLUDE, ON A ROOM-BY-ROOM BASIS, ADJUSTMENT OF DAYLIGHT SENSOR SENSITIVITY, PRE-SET SCENES LISTED BELOW ARE TO BE INCLUDED IN INITIAL PROGRAMMING, FINAL PROGRAMMING OF SCENES SHALL BE DICTATED BY THE OWNER'S REPRESENTATIVE DURING THE COMMISSIONING OF THE SYSTEM.	
2. PROVIDE A FACTORY-AUTHORIZED REPRESENTATIVE TO TRAIN THE OWNER-DESIGNATED REPRESENTATIVE ON THE COMPONENTS, FUNCTIONS, OPERATION AND PROGRAMMING OF THE SYSTEM FOR A MINIMUM OF EIGHT (8) HOURS IN TWO FOUR-HOUR INCREMENTS, DURING NORMAL OWNER BUSINESS HOURS, TO BE SCHEDULED WITH THE OWNER. AFTER THE SYSTEM IS COMPLETELY INSTALLED, PROGRAMMED, INTERFACED WITH ANY OTHER SYSTEMS (BAS), AND TESTED, AT THE END OF CONSTRUCTION.	
<u>AS-BUILT DOCUMENTATION:</u>	
1. AS-BUILT DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AT THE END OF CONSTRUCTION THAT INDICATES ACTUAL LOCATIONS OF ALL DEVICES AND COMPONENTS AS INSTALLED, INTERCONNECTIVITY OF DEVICES, ON 1/8" SCALED LIGHTING PLANS, INCLUDING COLOR-CODED ZONING PLAN, AS WELL AS DOCUMENTED TIME-OF-DAY SCHEDULE, SPECIFIC SETTINGS ON EACH DEVICE.	

LIGHTING FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MAKE/MODEL	EQUIVALENT MAKE/MODEL	VOLTAGE	TYPE	VA
A	2x4 RECESSED LENSED LED TROFFER WITH 125" LENS, FLUSH STEEL, WHITE DOOR, 4200 LM, 82+ CRI, 3500K	METALUX 24GR-LD5-42-FA-A125-INV-UNV-L835-CD1-G2-UNV	COLUMBIA LJT, PHILIPS 2TG SERIES, LITHONIA	277 V	LED 3500 K	30 VA
A2	2x4 RECESSED TRIPLE GASKETED LENSED LED TROFFER WITH 125" LENS, FLUSH STEEL, WHITE DOOR, 4200 LM, 82+ CRI, 3500K, INVERTED LENS	METALUX 24GR-LD5-42-FA-A125-INV-UNV-L835-CD1-G2-UNV	COLUMBIA LJT, PHILIPS 2TG SERIES, LITHONIA	277 V	LED 3500 K	30 VA
A3E	SAME AS TYPE "A2" WITH 90 MINUTE BATTERY PACK	METALUX 24GR-LD5-42-FA-A125-INV-UNV-L835-CD1-G2-UNV	COLUMBIA LJT, PHILIPS 2TG SERIES, LITHONIA	277 V	LED 3500 K	30 VA
AZ	2x4 LED TROFFER WITH 125 LENS	METALUX 24GR-LD5-42-FA-A125-INV-UNV-L835-CD1-G2-UNV	COLUMBIA LJT, PHILIPS, LITHONIA	277 V	LED 3500 K	96 VA
AE	2x4 LED TROFFER WITH 125 LENS SAME AS TYPE "A3" WITH 90 MINUTE BATTERY PACK	METALUX 24GR-LD5-42-FA-A125-INV-UNV-L835-CD1-G2-UNV-EM	COLUMBIA LJT, PHILIPS, LITHONIA	277 V	LED 3500 K	96 VA
BE	SURFACE MOUNT HORIZONTAL LED CYLINDER WITH 90 MINUTE BATTERY PACK	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	PRES LTR	277 V	LED 3000 K	20 VA
J	4" LED STRIP FIXTURE	Alphalite ILL-4H(32S)Y840	COLUMBIA MPS4, DAYBRITE FSFSEZ, SLG TS	277 V	LED 4000 K	25 VA
JE	SAME AS TYPE "J" WITH 90 MINUTE BATTERY PACK	Alphalite ILL-4H(32S)Y840-EM1400	COLUMBIA MPS4, DAYBRITE FSFSEZ, SLG TS	277 V	LED 4000 K	25 VA
Q	LINEAR LED WALL MOUNTED FIXTURE, WITH 90 MINUTE BATTERY PACK	METALUX 4SWLED-LD4-80W-LW-L835-CD2-SVPD2-U	COLUMBIA MPS4, HEW SLF, LITHONIA	277 V	LED 4000 K	40 VA
SF1	4.5" SQUARE LED FLOOD LIGHT, DIECAST ALUMINUM HOUSING, HONEYCOMB LOUVER, STAINLESS STEEL HARDWARE, 80+ CRI, IP68 RATED	LIGMAN LLD-50021-40W LED-M-W40-01-120/27V-A50441-A5S131-A52121	ERCO, FC LIGHTING, ECOSENSE	277 V	LED 4000 K	40 VA
SF2	SAME AS TYPE SF2 WITH 21W LUMEN PACKAGE	LIGMAN LLD-50021-21W LED-M-W40-01-120/27V-A50441-A5S131-A52121	ERCO, FC LIGHTING, ECOSENSE	277 V	LED 4000 K	21 VA
SLA	SINGLE HEAD SITE LIGHTING POLE, TYPE IV DISTRIBUTION, STRAIGHT RECTANGULAR ALUMINUM POLE, 7088 LUMENS	LUMARK PRV-C15-D-UNV-T4-SA-GM	HLO RAR1, LITHONIA RSX	277 V	LED 4000 K	53 VA
SLB	SINGLE HEAD SITE LIGHTING POLE, TYPE III DISTRIBUTION, STRAIGHT RECTANGULAR ALUMINUM POLE, 7111 LUMENS	LUMARK PRV-C15-D-UNV-T3-SA-GM	HLO RAR1, LITHONIA RSX	277 V	LED 4000 K	53 VA
SLC	SINGLE HEAD SITE LIGHTING POLE, TYPE V DISTRIBUTION, STRAIGHT RECTANGULAR ALUMINUM POLE, 7576 LUMENS	LUMARK PRV-C25-D-UNV-T5-SA-GM	HLO RAR1, LITHONIA RSX	277 V	LED 4000 K	97 VA
TA	3" DIA. MONOPOINT MOUNT LED FIXTURE, 0-90 DEG TILT, 360 DEG ROTATION, DIFFUSION LENS, DIE CAST AL. HOUSING, POWDER COAT FINISH, CEILING MOUNTED, 1663 LM, 92 CRI, 0-10V DIMMING, MATTE BLACK	LF Illumination LANIE TRA20B-M-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL OPT-TRA20B-HXL	ELITE, PH60-132T-277	277 V	LED 3000 K	19 VA
TA-1	SAME AS TYPE TA-1 WITH WIDE BEAM SPREAD	LF Illumination LANIE TRA20B-M-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL	1101SWHC-1101F264WU PH60-218Q-G24q-2-SG-WW-EB-UNV ELITE, HH6PL-2X18-E-MVOLT-6507-SHZ-WH	277 V	LED 3000 K	19 VA
TA-2	SAME AS TYPE TA WITH NARROW BEAM SPREAD AND 26W LUMEN PACKAGE	LF Illumination LANIE TRA20B-M-26C-9230-V-DMU-BB OPT-TRA20B-P-DPL	ELITE	277 V	LED 3000 K	26 VA
TC	PENDENT MOUNT DIRECT/INDIRECT LINEAR FIXTURE	Pinnacle EX3D1-A-BW-830(MOD 60% output)-830-**-mounting U-OL2-1-**-*(finish)	LITECON	277 V	LED 3000 K	100 VA
TC-2	SAME AS TYPE TC WITH HO LUMEN PACKAGE	Pinnacle EX3D1-A-BW-830-830-**-mounting U-OL2-1-**-*(finish)	LITECON	277 V	LED 3000 K	100 VA
TC-2E	SAME AS TYPE TC WITH EMERGENCY BATTERY PACK	Pinnacle EX3D1-A-BW-830(MOD 60% output)-830-**-mounting U-OL2-1-**-*(finish) EM	LITECON	277 V	LED 3000 K	100 VA
TD	HORIZONTAL DOWNLIGHT	Spectrum Lighting SR3MOXT10LDS101/RA3F30KMDMMWISO	FUSION ER3, QUANTALIGHT RL3A	277 V	LED 3000 K	20 VA
TD-1	HORIZONTAL DOWNLIGHT	Spectrum Lighting SR3MOXT10LDS101/RA3F30KMDMMWISO	FUSION ER3, QUANTALIGHT RL3A	277 V	LED 3000 K	20 VA
TDE	SAME AS TYPE "TD" WITH 90 MINUTE BATTERY PACK	Spectrum Lighting SR3MOXT10LDS101/RA3F30KMDMMWISO EM	FUSION ER3, QUANTALIGHT RL3A	277 V	LED 3000 K	20 VA
TF	REGRESSED LINEAR PERIMETER LED FIXTURE	Pinnacle EVL-830-continuous-SF(S)-U-OL1-1-**-W	PRULITE BOI	277 V	LED 3000 K	100 VA
TF	REGRESSED LINEAR PERIMETER LED FIXTURE	Pinnacle EVL-830-continuous-SF(S)-U-OL1-1-**-W	PRULITE BOI	277 V	LED 3000 K	18 VA
TG	INTERIOR FLEXIBLE LINEAR ENCAPSULATED LED FIXTURE MOUNTED IN HANDRAIL	Lumini KBM-F-H-30K-EPP-EC/EPF-(length per plan)	MODA LTG SNX, LLI ARCH LTG	277 V	LED 3000 K	500 VA
TG-2	EXTERIOR FLEXIBLE LINEAR ENCAPSULATED LED FIXTURE MOUNTED IN HANDRAIL	Lumini KBM-F-H-30K-EPP-EC/EPF-(length per plan)	MODA LTG SNX, LLI ARCH LTG	277 V	LED 3000 K	500 VA
TG-3	EXTERIOR FLEXIBLE LINEAR ENCAPSULATED LED FIXTURE MOUNTED ON VERTICAL MULLION	Lumini KBM-F-H-30K-EPP-EC/EPF-(length per plan)	MODA LTG SNX, LLI ARCH LTG	277 V	LED 3000 K	500 VA
TG-4	EXTERIOR FLEXIBLE LINEAR ENCAPSULATED LED FIXTURE MOUNTED IN ARCHITECTURAL COVE	Lumini KBM-F-H-30K-EPP-EC/EPF-(length per plan)	MODA LTG SNX, LLI ARCH LTG	277 V	LED 3000 K	500 VA
TH	SAME AS TYPE TA-1 WITH WIDE BEAM SPREAD	LF Illumination LANIE TRA20B-M-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL	ELITE LTG ET, 1101SWHC-1101F264WU, MAXILUME HH4ADJ	277 V	LED 3000 K	36 VA
THE	SAME AS TYPE TA-1 WITH WIDE BEAM SPREAD	LF Illumination LANIE TRA20B-M-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL	ELITE LTG ET, 1101SWHC-1101F264WU PH60-218Q-G24q-2-SG-WW-EB-UNV HH6PL-2X18-E-MVOLT-6507-SHZ-WH	277 V	LED 3000 K	36 VA
TM	RECESSED LINEAR LED FIXTURE	Pinnacle EV3D-A-830(MOD 60% output)-**-Mounting-U-OL1-1-**-*(Finish)	LITECON 3L	277 V	LED 3000 K	100 VA
TME	SAME AS TYPE "TM" WITH 90 MINUTE BATTERY PACK	Pinnacle EV3D-A-830(MOD 60% output)-**-Mounting-U-OL1-1-**-*(Finish)	LITECON 3L	277 V	LED 3000 K	100 VA
TN	LINEAR RECESSED MOUNTED LED	Selux L10-1B30-30-LW-SF2-**-BK-UNV-DIM	LITECON 2L	277 V	LED 3000 K	100 VA
TNE	SAME AS TYPE "TN" WITH 90 MINUTE BATTERY PACK	Selux L10-1B30-30-LW-SF2-**-BK-UNV-DIM	LITECON 2L	277 V	LED 3000 K	100 VA
TP	LOW PROFILE LINEAR LED COVE LIGHT IN CONTINUOUS RUN, EXTRUDED ALUMINUM HOUSING, SATIN ANODIZED FINISH, 1-1/4"W X 1-1/2"H, 60 DEG OPTIC, SWIVEL MOUNT, 80+ CRI, 200 LM/FT, 0-10V DIMMING	Electrx L140-05-(length per plan)-W3-60C-S	ELITE LTG 1-LSC1, ECOSENSE LTC SCD	277 V	LED 3000 K	700 VA
TQ	4" ROUND DEEP LED DOWNLIGHT, 3000 LM, ADJUSTABLE TO 30 DEG, XICATO LED MODULE, 41 DEG OPTIC	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4, MAXILUME HH4ADJ	277 V	LED 3000 K	35 VA
TO-1	HORIZONTAL DOWNLIGHT	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4	277 V	LED 3000 K	35 VA
TO-1E	SAME AS TYPE "TG-1" WITH 90 MINUTE BATTERY PACK	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4	277 V	LED 3000 K	35 VA
TO-2	HORIZONTAL DOWNLIGHT	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4	277 V	LED 3000 K	35 VA
TO-2E	SAME AS TYPE "TO-2" WITH 90 MINUTE BATTERY PACK	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4	277 V	LED 3000 K	35 VA
TOE	SAME AS TYPE "TO" WITH 90 MINUTE EMERGENCY BATTERY PACK	Spectrum Lighting SR4MOXT30LDS101EMRD4F30KWDMMWISO	ELITE LTG HH4	277 V	LED 3000 K	35 VA
TR	HORIZONTAL DOWNLIGHT	Spectrum Lighting SR3MOXT10LDS101/RA3F30KMDMMWISO	PRES LTR, FUSION ER3	277 V	LED 3000 K	20 VA
Track	TRACK FOR FIXTURE TYPE "TU" AND "TU-1"	LF Illumination LANIE TRA20B-G-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL OPT-TRA20B-HXL	ELITE LTG LTR	277 V	LED 3000 K	20 VA
TS	IN-GRADE UPLIGHT, WET LISTED, ADJUSTABLE	Visia Pro 1185-COLOR-WF-30-C-MV-AX-010-M34-T015-LSF	KIM LTV, HYDREL M94	277 V	LED 3000 K	20 VA
TU	TRACK LIGHTING FIXTURE	LF Illumination LANIE TRA20B-G-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL OPT-TRA20B-HXL	ELITE LTG ET	277 V	LED 3000 K	23 VA
TU-1	SAME AS TYPE TU WITH VERY WIDE 51 DEG BEAM SPREAD	LF Illumination LANIE TRA20B-G-19C-9230-V-DMU-BB OPT-TRA20B-P-DPL OPT-TRA20B-HXL	ELITE LTG ET	277 V	LED 3000 K	23 VA
TW1	LINEAR WALL MOUNTED RECESSED FIXTURE	BEGA USA 2197LED	VISA/ORL KONA	277 V	LED 3000 K	20 VA
TV	POLE MOUNTED FLOODLIGHT WITH 54 DEG BEAM, 2.4" x 3.5" HOUSING, LOCKABLE ADJUSTABLE KNUCKLE, DICHRONIC, INTERNAL MATTE BLACK HONEYCOMB LOUVER, INTEGRAL DIMMABLE DRIVER, AIMING IS ADJUSTABLE AT 0-90 DEG VERTICAL X 360 DEG ROTATION	FROGX.3000K.XTM19.S82.54.(FINISH)-D010-HL.DL	ERCO/ORL KONA	277 V	LED 3000 K	20 VA
TW2	POLE MOUNTED FLOODLIGHT WITH 54 DEG BEAM, 2.4" x 3.5" HOUSING, LOCKABLE ADJUSTABLE KNUCKLE, DICHRONIC, INTERNAL MATTE BLACK HONEYCOMB LOUVER, INTEGRAL DIMMABLE DRIVER, AIMING IS ADJUSTABLE AT 0-90 DEG VERTICAL X 360 DEG ROTATION	INTERLUX FROGX.3000K.XTM19.S82.54.(FINISH)-D010-HL.DL	ERCO/ORL KONA	277 V	LED 3000 K	40 VA
TY	IN-GRADE LED ADJUSTABLE UP LIGHT	Visia Pro 1185-COLOR-WF-30-C-MV-AX-010-M34-T015-LSF	KIM LTV, HYDREL M94	277 V	LED 3000 K	20 VA
TZ	HORIZONTAL DOWNLIGHT, WET LISTED, ADJUSTABLE	Spectrum Lighting SR4MOXT30LDS101/RD4MF30KWDMMWISO	ELITE LTG HH4, QUANTALIGHT RL4A	277 V	LED 3000 K	20 VA
VE	LINEAR LED WALL MOUNTED FIXTURE, WITH 90 MINUTE BATTERY PACK	METALUX 4V72-LD5-4-FR50-277-ELTOW-L840-WLO	COLUMBIA, HEW SLF, SLG LTG VTC	277 V	LED 4000 K	30 VA
WE	EXTERIOR WALL PACK, ROUND REVEALS, ELECTRONIC LED DRIVER, TYPE III DISTRIBUTION WITH BACK LIGHT CONTROL, BLACK FINISH, WITH 90 MINUTE BATTERY PACK	COOPER INDUSTRIES INVUE ENV-E01-LED-E1-BL3-BK-BBB	ALL CY1, SLG LTG WFM	277 V	LED 4000 K	25 VA
X1	RECESSED EDGE LIT LED EXIT SIGN, CEILING MOUNTED, GREEN LETTERS, CLEAR/MIRROR BACKGROUND AND SINGLE/DOUBLE FACE, WITH 90 MINUTE BATTERY PACK	EMERGH-LITE LSXN-4"-N-G-**-**	MULE/ORL PVT, BEGHELLI, LITHONIA	LED	1 VA	REFER TO PLANS FOR FACES (**) AND CHEVRONS (***) ** PROVIDE CLEAR WITH SINGLE FACE AND MIRROR WITH DOUBLE FACE
X2	WALL MOUNTED EDGE LIT LED EXIT SIGN FIXTURE, GREEN LETTERS, CLEAR/MIRROR BACKGROUND AND SINGLE/DOUBLE FACE, WITH 90 MINUTE BATTERY PACK	EMERGH-LITE LXN-**-N-G-**-**	MULE/ORL PVT, BEGHELLI, LITHONIA	277 V	LED	1 VA
X3	WALL MOUNTED WET LISTED LED EXIT SIGN FIXTURE, GREEN LETTERS, WITH 90 MINUTE BATTERY PACK	EMERGH-LITE -SVXN-1-G-4-X	MULE/ORL PVT, BEGHELLI, LITHONIA	277 V	LED	2 VA
X4	SURFACE END MOUNTED EDGE LIT LED EXIT SIGN FIXTURE, GREEN LETTERS, CLEAR/MIRROR BACKGROUND AND SINGLE/DOUBLE FACE, WITH 90 MINUTE BATTERY PACK	EMERGH-LITE LXN-**-N-G-**-**C (SURFACE END MOUNT)	BEGHELLI, LITHONIA, DUALITE	277 V	LED	1 VA

LIGHTING CONTROLS PROGRAMMING/COMMISSIONING REQUIREMENTS			
AREA/ROOM COLOR CODE	PROGRAMMING/LIGHTING CONTROL DESCRIPTION	AREA/ROOM COLOR CODE	PROGRAMMING/LIGHTING CONTROL DESCRIPTION
RED PRIVATE OFFICES, SMALL DEPT. CONFERENCE ROOMS, JANITOR CLOSETS, SMALL STORAGE ROOMS	1. LIGHTING IS CONTROLLED THROUGH STAND ALONE LIGHTING CONTROL SYSTEM.	BLUE CONCOURSE CORRIDORS	1. LIGHTING IS CONTROLLED THROUGH RELAY PANEL.
	2. LIGHTING ON: MANUAL ON THROUGH LOCAL SWITCHES.		2. LIGHTING ON: AUTOMATIC ON THROUGH TIME-OF-DAY SCHEDULE DURING PROGRAMMED NORMAL OPERATING HOURS (OCCUPANCY SENSORS ARE DISABLED), AND AUTOMATIC ON THROUGH OCCUPANCY SENSORS (OCCUPANCY SENSORS ARE ENABLED) AFTER PROGRAMMED NORMAL OPERATING HOURS.
	3. LIGHTING OFF: AUTOMATIC OFF THROUGH ROOM OCCUPANCY SENSOR(S) AFTER 10 MINUTES OF NO OCCUPANCY.		3. LIGHTING OFF: AUTOMATIC OFF THROUGH OCCUPANCY SENSOR(S) AFTER 10 MINUTES OF NO OCCUPANCY AFTER PROGRAMMED NORMAL OPERATING HOURS.
	4. LOCAL SWITCHES: FOR MANUAL ON/OFF & DIMMING CONTROL.		4. LOCAL SWITCHES: (SLVO) ARE KEYS/OVERRIDE SWITCHES FOR USE BY AUTHORIZED PERSONNEL ONLY FOR MANUAL ON/OFF CONTROL ONLY FOR ALL CONCOURSE CORRIDOR LIGHTS FOR EACH FLOOR FOR HOUSEKEEPING/MAINTENANCE PURPOSES AFTER PROGRAMMED NORMAL OPERATING HOURS. LIGHTS SHALL STAY ON FOR A MAXIMUM OF ONE HOUR, THEN OCCUPANCY SENSORS SHALL TURN OFF LIGHTS AFTER 10 MINUTES OF NO OCCUPANCY.
PURPLE MECH. ELEC. IDF, MDF ROOMS, ROOFTOP SCREENED IN ENCLOSURES. LIGHTING IS CONTROLLED THROUGH LOCAL LINE VOLTAGE TIMER SWITCHES) AND IS NOT PART OF ANY BUILDING LIGHTING CONTROL SYSTEM, FOR SAFETY PURPOSES.	1. MECH. ELEC. IDF, MDF ROOMS, ROOFTOP SCREENED IN ENCLOSURES. LIGHTING IS CONTROLLED THROUGH LOCAL LINE VOLTAGE TIMER SWITCHES) AND IS NOT PART OF ANY BUILDING LIGHTING CONTROL SYSTEM, FOR SAFETY PURPOSES.	MAGENTA GANGED RESTROOMS, BOH CORRIDORS	1. LIGHTING IS CONTROLLED THROUGH STAND ALONE LIGHTING CONTROL SYSTEM.
	2. STAIRS: LIGHTING IS CONTROLLED THROUGH INTEGRAL OCCUPANCY SENSOR WITHIN FIXTURE. LIGHTS SHALL DIM TO 50% AFTER 10 MINUTES OF NO OCCUPANCY. LIGHTS SHALL TURN ON TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER, OVERRIDING OCCUPANCY SENSOR.		2. LIGHTING ON: AUTOMATIC ON THROUGH OCCUPANCY SENSORS.
			3. LIGHTING OFF: AUTOMATIC OFF THROUGH OCCUPANCY SENSOR(S) AFTER 10 MINUTES OF NO OCCUPANCY.
			4. LOCAL SWITCHES: WHERE SHOWN ON PLANS (SK) ARE KEYS/OVERRIDE SWITCHES FOR USE BY AUTHORIZED PERSONNEL ONLY FOR MANUAL ON/OFF CONTROL DURING & AFTER PROGRAMMED NORMAL OPERATING HOURS. OCCUPANCY SENSORS SHALL TURN OFF LIGHTS AFTER 10 MINUTES OF NO OCCUPANCY.
GREEN OPEN OFFICE AREAS, STUDY LABS, RECEPTION AREAS, BREAK ROOMS	1. LIGHTING IS CONTROLLED THROUGH STAND ALONE LIGHTING CONTROL SYSTEM.	SYMBOL	DESCRIPTION
	2. LIGHTING ON: AUTOMATIC ON THROUGH ROOM OCCUPANCY SENSOR(S) DURING & AFTER PROGRAMMED NORMAL OPERATING HOURS.		SYSTEM COMPONENT SETTINGS
	3. LIGHTING OFF: AUTOMATIC OFF THROUGH ROOM OCCUPANCY SENSOR(S) AFTER 10 MINUTES OF NO OCCUPANCY, DURING & AFTER PROGRAMMED NORMAL OPERATING HOURS.		MAGENTA/GREEN ZONES: AUTOMATIC ON AND AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY.
	4. LOCAL SWITCHES: FOR MANUAL ON/OFF & DIMMING CONTROL DURING & AFTER NORMAL OPERATING HOURS.		RED ZONES: VACANCY SENSOR SETTING (ON THROUGH MANUAL SWITCH), AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY.
YELLOW EXTERIOR BLDG WALL LIGHTS, EXTERIOR CANOPY LIGHTS	5. DAYLIGHT SENSOR: FOR AUTOMATIC CONTROL OF LIGHTING FOR DIMMING FIXTURES WITHIN THE DAYLIGHT ZONE BASED ON DAYLIGHT LEVELS FOR ROOMS ON THE BUILDING PERIMETER. ONCE DAYLIGHT SENSOR AUTO CALIBRATES IN THE ROOM, SET DAYLIGHT SENSOR TO DIM TO NO LESS THAN 50%, FAST DIMMING RATE.	OCCUPANCY / VACANCY SENSOR - CEILING OR WALL	BLUE ZONES: DISABLED DURING PROGRAMMED TIME-OF-DAY SCHEDULE DURING NORMAL OPERATING HOURS. AUTOMATIC ON AFTER NORMAL OPERATING HOURS, AUTOMATIC OFF AFTER 10 MINUTES OF NO OCCUPANCY AFTER NORMAL OPERATING HOURS.
	1. EXTERIOR LIGHTING IS CONTROLLED THROUGH RELAY PANEL.		REBUILD/REPAIR ZONES: -AUTOMATIC CALIBRATION IN EACH SPACE FOR INITIAL PROGRAMMING.
	2. LIGHTING ON: AUTOMATIC ON THROUGH SYSTEM PHOTOCELL AT DUSK, OFF AT DAWN BY SYSTEM PHOTOCELL.		-MINIMUM DIMMING LEVEL SET TO 30%.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - COOLING

LOAD NAME	LOCATION	HP RATING	FULL LOAD AMPS	KW/ KVA	VOLTAGE	POLES	STARTER			DISCONNECT SWITCH			PANEL / CKT BRKR RATING (SEE NOTE 1)	WIRE SIZE	Breaker Size	NOTES
							NEMA SIZE	MCP RATING	ENCL	FRAME RATING	FUSE RATING	NEMA ENCL				
CRCL-1	LIBRARY ROOF	1/4	1 A	0.5 KVA	480 V	3	--	--	--	30A	25A	3R	LM2	3-#10, 1-#10, 1-#10	25 A	3
SSCU-1 / SSAC-1	LIBRARY ROOF / TELECOM EQUIPMENT 1.123	--	15 A	3.2 KVA	208 V	2	--	--	--	30A	25A	3R	CR2B	2-#6, 1-#6, 1-#6	25 A	3, 18
SSCU-2 / SSAC-2	EVENT CENTER ROOF / STORAGE 2.106	--	15 A	3.2 KVA	208 V	2	--	--	--	30A	25A	3R	CR2B	2-#10, 1-#10, 1-#10	25 A	3, 18
SSCU-3 / SSAC-3	EVENT CENTER ROOF / TELECOM EQUIPMENT 2.106	--	9 A	1.8 KVA	208 V	2	--	--	--	30A	15A	3R	CR2B	2-#14, 1-#14, 1-#14	15 A	3, 18

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - ELEVATORS

LOAD NAME	LOCATION	HP RATING	FULL LOAD AMPS	KW/ KVA	VOLTAGE	POLES	STARTER			DISCONNECT SWITCH			PANEL / CKT BRKR RATING (SEE NOTE 1)	WIRE SIZE	Breaker Size	NOTES
							NEMA SIZE	MCP RATING	ENCL	FRAME RATING	FUSE RATING	NEMA ENCL				
Elevator Controller (25HP)	ELEV. MACHINE ROOM 1.120	25	36 A	26.9 KVA	480 V	3	--	--	--	60A	50A	1	LDP	3-#6, 1-#6, 1-#10	50 A	8
Elevator Controller (40HP)	ELEV. MACHINE ROOM 2.111	40	53 A	44.1 KVA	480 V	3	--	--	--	100A	70A	1	MSB	3-#4, 1-#4, 1-#6	70 A	9
LUXA Elevator Control Power	LIBRARY BASEMENT 1.004	15	24 A	8.6 KVA	208 V	3	--	--	--	30A	30A	1	LR1B	3-#10, 1-#10, 1-#10	30 A	19

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - HEATING

WT	LOCATION	HP RATING	FULL LOAD AMPS	KVA	VOLTAGE	POLES	STARTER			DISCONNECT SWITCH			PANEL / CKT BRKR RATING (SEE NOTE 1)	WIRE SIZE	BREAKER SIZE	NOTES
							NEMA SIZE	MCP RATING	ENCL	FRAME RATING	FUSE RATING	NEMA ENCL				
CRAC-1	ARCHIVES 1.132	1/4	6 A	4.8 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#14, 1-#14, 1-#14	15 A	3
CTU-5-1	KITCHEN SERVICE 2.203	--	6 A	5.0 KVA	480 V	3	--	--	--	30A	20A	1	CM2	3-#12, 1-#12, 1-#12	20 A	3
PTU-1-1	HANDLING 1.119	1/2	18 A	14.6 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#10, 1-#10, 1-#10	30 A	3, 20
PTU-1-2	BOOKSTORE 1.115	1/2	17 A	14.0 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#10, 1-#10, 1-#10	25 A	3, 20
PTU-1-3	STACKS 1.107	1	21 A	17.3 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#10, 1-#10, 1-#10	30 A	3, 20
PTU-2-1	STACKS 1.129	1/2	19 A	16.1 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#10, 1-#10, 1-#10	30 A	3, 20
PTU-2-2	MEMORY LAB 1.131	1/2	17 A	14.0 KVA	480 V	3	--	--	--	30A	NF	1	LM1	3-#10, 1-#10, 1-#10	25 A	3, 20
PTU-2-3	STACKS 1.136	1	21 A	17.8 KVA	480 V	3	--	--	--	60A	NF	1	LM1	3-#6, 1-#6, 1-#10	35 A	3, 20
PTU-5-1	MEN 2.119	1/2	20 A	16.6 KVA	480 V	3	--	--	--	30A	NF	1	CM1	3-#10, 1-#10, 1-#10	30 A	3, 20
PTU-5-2	KITCHEN 2.109	1/3	10 A	8.1 KVA	480 V	3	--	--	--	30A	NF	1	CM1	3-#12, 1-#12, 1-#12	20 A	3, 20
PTU-5-3	CORRIDOR 2.113	1/3	10 A	8.1 KVA	480 V	3	--	--	--	30A	NF	1	CM1	3-#12, 1-#12, 1-#12	20 A	3, 20
PTU-5-4	STORAGE 2.204	1/3	11 A	9.1 KVA	480 V	3	--	--	--	30A	NF	1	CM2	3-#12, 1-#12, 1-#12	20 A	3, 20
PTU-5-5	STORAGE 2.204	1/2	14 A	11.6 KVA	480 V	3	--	--	--	30A	NF	1	CM2	3-#10, 1-#10, 1-#10	25 A	3, 20
PTU-5-6	ELEVATOR ALCOVE 2.214	1/3	9 A	7.5 KVA	480 V	3	--	--	--	30A	NF	1	CM2	3-#12, 1-#12, 1-#12	20 A	3, 20
RTU-6	EVENT CENTER ROOF	5	44 A	37.0 KVA	480 V	3	--	--	VFD	60A	NF	3R	CM2	3-#6, 1-#6, 1-#10	60 A	2
RTU-7	EVENT CENTER ROOF	5	44 A	37.0 KVA	480 V	3	--	--	VFD	60A	NF	3R	CM2	3-#6, 1-#6, 1-#10	60 A	2
UA-1	LIBRARY BASEMENT	--	12 A	3.3 KVA	277 V	1	--	--	--	30A	NF	1	LM1	1-#10, 1-#10, 1-#10	15 A	5
VTU-1-1,-11	LIBRARY 1ST FLOOR NORTH	--	14 A	4.0 KVA	277 V	1	--	--	--	20A	NF	1	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-1-3,-7	LIBRARY 1ST FLOOR NORTH	--	5 A	1.5 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-1-4,-6,-8	LIBRARY 1ST FLOOR NORTH	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-1-8,-10	LIBRARY 1ST FLOOR NORTH	--	14 A	4.0 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-1-12 (No Heat)	LIBRARY 1ST FLOOR NORTH	--	2 A	0.5 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-2-2	LIBRARY 1ST FLOOR SOUTH	--	13 A	3.5 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#10, 1-#10, 1-#10	20 A	5
VTU-2-3,-8	LIBRARY 1ST FLOOR SOUTH	--	7 A	2.0 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-2-6,-7	LIBRARY 1ST FLOOR SOUTH	--	13 A	3.5 KVA	277 V	1	--	--	--	--	--	--	LM1	1-#10, 1-#10, 1-#10	20 A	5
VTU-3-1,-2,-14	LIBRARY 2ND FLOOR NORTH	--	9 A	2.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#10, 1-#10, 1-#10	20 A	5
VTU-3-3,-4	LIBRARY 2ND FLOOR NORTH	--	14 A	4.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#8, 1-#8, 1-#8	20 A	5
VTU-3-7,-8,-9	LIBRARY 2ND FLOOR NORTH	--	7 A	2.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-3-11	LIBRARY 2ND FLOOR NORTH	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#10, 1-#10, 1-#10	20 A	5
VTU-3-13	LIBRARY 2ND FLOOR NORTH	--	14 A	4.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#10, 1-#10, 1-#10	20 A	5
VTU-3-15	LIBRARY 2ND FLOOR NORTH	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#10, 1-#10, 1-#10	20 A	5
VTU-3-16 (No Heat)	LIBRARY 2ND FLOOR NORTH	--	2 A	0.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-3-17	LIBRARY 2ND FLOOR NORTH	--	14 A	4.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#8, 1-#8, 1-#8	20 A	5
VTU-4-1,-3	LIBRARY 2ND FLOOR SOUTH	--	5 A	1.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-4-2,-9	LIBRARY 2ND FLOOR SOUTH	--	7 A	2.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-4-4,-6,-7	LIBRARY 2ND FLOOR SOUTH	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-4-5,-12	LIBRARY 2ND FLOOR SOUTH	--	13 A	3.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-4-8	LIBRARY 2ND FLOOR SOUTH	--	5 A	4.5 KVA	480 V	3	--	--	--	30A	NF	1	LM2	3-#12, 1-#12, 1-#12	20 A	3
VTU-4-10	LIBRARY 2ND FLOOR SOUTH	--	5 A	4.5 KVA	480 V	3	--	--	--	30A	NF	1	LM2	3-#12, 1-#12, 1-#12	20 A	3
VTU-4-11	LIBRARY 2ND FLOOR SOUTH	--	14 A	4.0 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-4-13 (No Heat)	LIBRARY 2ND FLOOR SOUTH	--	2 A	0.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#12, 1-#12, 1-#12	20 A	5
VTU-5-6,-10	FIRST FLOOR EVENT CENTER	--	9 A	2.5 KVA	277 V	1	--	--	--	--	--	--	LM2	1-#10, 1-#10, 1-#10	20 A	5
VTU-5-1,-2,-3	FIRST FLOOR EVENT CENTER	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	CM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-5-4,-6	FIRST FLOOR EVENT CENTER	--	13 A	3.5 KVA	277 V	1	--	--	--	--	--	--	CM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-5-5	FIRST FLOOR EVENT CENTER	--	5 A	1.5 KVA	277 V	1	--	--	--	--	--	--	CM1	1-#12, 1-#12, 1-#12	20 A	5
VTU-5-7	FIRST FLOOR EVENT CENTER	--	9 A	7.0 KVA	480 V	3	--	--	--	30A	NF	1	CM1	3-#12, 1-#12, 1-#12	20 A	3
VTU-5-8,-9	SECOND FLOOR EVENT CENTER	--	11 A	3.0 KVA	277 V	1	--	--	--	--	--	--	CM2	1-#12, 1-#12, 1-#12	20 A	5

MECHANICAL EQUIPMENT CONNECTION SCHEDULE - MOTOR

LOAD NAME	LOCATION	HP RATING	FULL LOAD AMPS	KW/ KVA	VOLTAGE	POLES	STARTER			DISCONNECT SWITCH			PANEL / CKT BRKR RATING (SEE NOTE 1)	Wire Size	Breaker Size	NOTES
							NEMA SIZE	MCP RATING	ENCL ENCL	FRAME RATING	FUSE RATING	NEMA ENCL				
EF-1	LIBRARY ROOF	1/6	4 A	0.5 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#10, 1-#10, 1-#10	20 A	3
EF-2	LIBRARY ROOF	1/6	4 A	0.5 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#10, 1-#10, 1-#10	20 A	3
EF-3	LIBRARY ROOF	1/4	6 A	0.7 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#10, 1-#10, 1-#10	20 A	3
EF-4	LIBRARY ROOF	1/4	6 A	0.7 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#12, 1-#12, 1-#12	20 A	3
EF-5	LIBRARY ROOF	1/6	4 A	0.5 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#12, 1-#12, 1-#12	20 A	3
EF-6	LIBRARY ROOF	1/6	4 A	0.5 KVA	120 V	1	--	--	--	20A	NF	3R	LR2B	1-#12, 1-#12, 1-#12	20 A	3
EF-7	EVENT CENTER ROOF	1/2	2 A	0.5 KVA	208 V	2	--	--	--	20A	NF	3R	CR2B	2-#12, 1-#12, 1-#12	20 A	17
EF-8	EVENT CENTER ROOF	1/6	4 A	0.5 KVA	120 V	1	--	--	--	20A	NF	3R	CR2B	1-#12, 1-#12, 1-#12	20 A	3
EF-9	EVENT CENTER ROOF	2	12 A	2.5 KVA	208 V	2	--	--	VFD	20A	NF	3R	CR2B	2-#12, 1-#12, 1-#12	20 A	17
EF-10	KITCHEN SERVICE 2.203	1/2	5 A	1.0 KVA	208 V	2	--	--	VFD	20A	NF	3R	CR2B	2-#12, 1-#12, 1-#12	20 A	17
MAU-1	EVENT CENTER ROOF	1	12 A	4.2 KVA	208 V	3	--	--	--	30A	20A	3R	CR2B	3-#12, 1-#12, 1-#12	20 A	3
RTU-1	LIBRARY ROOF	(2) 1/5	100 A	83.5 KVA	480 V	3	--	--	VFD	200A	--	3R	MSB	3-#10, 1-#10, 1-#6	150 A	2
RTU-2	LIBRARY ROOF	(2) 7-1/2	87 A	72.7 KVA	480 V	3	--	--	VFD	200A	--	3R	MSB	3-#1, 1-#1, 1-#6	125 A	2
RTU-3	LIBRARY ROOF	7-1/2	57 A	47.3 KVA	480 V	3	--	--	VFD	100A	--	3R	LM2	3-#3, 1-#3, 1-#6	90 A	2
RTU-4	LIBRARY ROOF	7-1/2	46 A	38.3 KVA	480 V	3	--	--	VFD	100A	--	3R	LM2	3-#4, 1-#4, 1-#6	70 A	2
RTU-5	EVENT CENTER ROOF	1/5	92 A	76.5 KVA	480 V	3	--	--	VFD	200A	--	3R	CM2	3-#1, 1-#1, 1-#6	125 A	2

MECHANICAL EQUIPMENT SCHEDULE NOTES:

- SEE PANEL SCHEDULES FOR CIRCUIT BREAKER RATING AND CIRCUIT NUMBER(S). IF THERE IS A DISCREPANCY IN BREAKER RATING ON PANEL SCHEDULE AND THIS SCHEDULE, RATING ON THIS SCHEDULE SHALL TAKE PRECED

Branch Panel: CM1																															
Location: MAIN ELECTRICAL...						Volts: 480/277 Wye						A.I.C. Rating: 65,000																			
Supply From: MSB						Phases: 3						Mains Type: MLO																			
Mounting: Surface						Wires: 4						Mains Rating: 100 A																			
Enclosure: Type 1						Neutral Rating: 100.00%																									
Notes:																															
CKT	Circuit Description					No t e	Trip	Po l e	A			B			C			Po l e	Trip	No t e	Circuit Description			CKT							
1	PTU-5-2						20 A	3		2.5 kVA	2.3 kVA			3.1 kVA	2.3 kVA			2.5 kVA	2.3 kVA	3	20 A		VTU-5-7			2					
3																								4							
5										6.2 kVA	2.5 kVA													6							
7																								8							
9	PTU-5-1						30 A	3						5.2 kVA	2.5 kVA					3	20 A		PTU-5-3			10					
11																								12							
13	VTU-5-4,6						20 A	1		3.5 kVA	1.5 kVA									1	20 A		VTU-5-5			14					
15	VTU-5-1,2,3						20 A	1						3.0 kVA	0.0 kVA						--	--	SPACE ONLY			16					
17	SPACE ONLY					--	--	--										0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY			18					
19	SPACE ONLY					--	--	--		0.0 kVA	0.0 kVA									--	--	--	SPACE ONLY			20					
21	SPACE ONLY					--	--	--						0.0 kVA	0.0 kVA					--	--	--	SPACE ONLY			22					
23	SPACE ONLY					--	--	--										0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY			24					
25	SPACE ONLY					--	--	--		0.0 kVA	0.0 kVA									--	--	--	SPACE ONLY			26					
27	SPACE ONLY					--	--	--						0.0 kVA	0.0 kVA					--	--	--	SPACE ONLY			28					
29	SPACE ONLY					--	--	--										0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY			30					
Total Load:						18.6 kVA						16.1 kVA						13.1 kVA													
Total Amps:						69 A						60 A						47 A													
Load Classification																Connected Load				Demand Factor				Estimated Demand				Panel Totals			
Lighting																0.0 kVA				0.00%				0.0 kVA				Total Conn. Load: 47.7 kVA			
Receptacle																0.0 kVA				0.00%				0.0 kVA				Total Est. Demand: 47.66 kVA			
Motor																0.0 kVA				0.00%				0.0 kVA				Total Conn. Current: 57 A			
Heating																47.7 kVA				100.00%				47.7 kVA				Total Est. Demand Current: 57 A			
Cooling																0.0 kVA				0.00%				0.0 kVA							
Other																0.0 kVA				0.00%				0.0 kVA							
Elevator																0.0 kVA				0.00%				0.0 kVA							
Spare																0.0 kVA				0.00%				0.0 kVA							
Electric Clothes Dryer																0.0 kVA				0.00%				0.0 kVA							
Kitchen Equipment																0.0 kVA				0.00%				0.0 kVA							
Notes:																															

Branch Panel: SL1															
Location: MAIN ELECTRICAL...							Volts: 480/277 Wye				A.I.C. Rating: 65,000				
Supply From: MSB							Phases: 3				Mains Type: MLO				
Mounting: Surface							Wires: 4				Mains Rating: 400 A				
Enclosure: Type 1							Neutral Rating: 100.00%								
Notes: SINGLE TUB, 84 CIRCUIT PANELBOARD.															
CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT			
1	Southeast Library Uplights	20 A	1		0.1 kVA 0.0 kVA			1	20 A		East Library Uplights	2			
3	East Library Uplights	20 A	1			0.1 kVA 0.0 kVA		1	20 A		East Library Entrance Uplights	4			
5	East Library Uplights	20 A	1				0.1 kVA 0.0 kVA	1	20 A		East Library Uplights	6			
7	Northwest Event Center Uplights	20 A	1		0.0 kVA 0.0 kVA			1	20 A		Northeast Library Uplights	8			
9	Northeast Library Uplights	20 A	1			0.1 kVA 0.0 kVA		1	20 A		North Library Uplights	10			
11	North Library Uplights	20 A	1				0.1 kVA 0.0 kVA	1	20 A		North Library Uplights	12			
13	Southwest Event Center Uplights	20 A	1		0.0 kVA 0.0 kVA			1	20 A		West Library Uplights	14			
15	Northwest Library Uplights	20 A	1			0.1 kVA 0.0 kVA		1	20 A		West Library Uplights	16			
17	West Library Uplights	20 A	1				0.1 kVA 0.0 kVA	1	20 A		West Library Entrance Uplights	18			
19	West Library Uplights	20 A	1		0.1 kVA 0.0 kVA			1	20 A		West Library Uplights	20			
21	Southwest Event Center Uplights	20 A	1			0.0 kVA 0.0 kVA		1	20 A		Southwest Library Uplights	22			
23	Southwest Library Uplights	20 A	1				0.1 kVA 0.0 kVA	1	20 A		South Library Uplights	24			
25	South Library Uplights	20 A	1		0.1 kVA 0.0 kVA			1	20 A		South Library Uplights	26			
27	Southwest Event Center Uplights	20 A	1			0.1 kVA 0.0 kVA		1	20 A		Southwest Library Uplights	28			
29	Southeast Event Center Uplights	20 A	1				0.0 kVA 0.0 kVA	1	20 A		Northwest Event Center Uplights	30			
31	Northwest Event Center Uplights	20 A	1		0.1 kVA 0.0 kVA			1	20 A		Northeast Event Center Uplights	32			
33	Northeast Event Center Uplights	20 A	1			0.1 kVA 0.0 kVA		1	20 A		Northeast Event Center Uplights	34			
35	Southeast Event Center Uplights	20 A	1				0.0 kVA 0.1 kVA	1	20 A		Southeast Event Center Uplights	36			
37	Library Entrance Tape Lights	20 A	1		3.5 kVA 2.5 kVA			1	20 A		Event Center Entrance Tape Lights	38			
39	North and east event center post top lights	20 A	1			0.1 kVA 0.1 kVA		1	20 A		South Event Center Post Top Fixture	40			
41	Exterior Stair Lights	20 A	1				0.5 kVA 0.2 kVA	1	20 A		Library West and South Stair Lights	42			
43	South and West Patio Step Lights	20 A	1		0.1 kVA 0.1 kVA			1	20 A		Southeast Post Top Site Lights	44			
45	Patio Uplights	20 A	1			0.1 kVA 0.5 kVA		1	20 A		Lawn Lighting	46			
47	North Library and Event Center Tape Lights	20 A	1				1.1 kVA 0.8 kVA	1	20 A		Lighting - Southwest Parking Lot	48			
49	Lighting Porte Cochere	20 A	1		0.4 kVA 0.2 kVA			1	20 A		Lighting - Parking Lot Connector	50			
51	Lighting Porte Cochere	20 A	1			0.5 kVA 0.6 kVA		1	20 A		Lighting - Northwest Parking Lot	52			
53	SPARE	20 A	1				0.0 kVA 0.4 kVA	1	20 A		Lighting - Northwest Parking Lot	54			
55	SPARE	20 A	1		0.0 kVA 0.4 kVA			1	20 A		Lighting - Northeast Parking Lot	56			
57	SPARE	20 A	1			0.0 kVA 0.7 kVA		1	20 A		Flag Pole and Sign Lighting	58			
59	SPARE	20 A	1				0.0 kVA 0.0 kVA	1	20 A		SPARE	60			
61	SPARE	20 A	1		0.0 kVA 0.0 kVA			1	20 A		SPARE	62			
63	SPARE	20 A	1			0.0 kVA 0.0 kVA		1	20 A		SPARE	64			
65	SPARE	20 A	1				0.0 kVA 0.0 kVA	1	20 A		SPARE	66			
67	SPARE	20 A	1		0.0 kVA 0.0 kVA			1	20 A		SPARE	68			
69	SPARE	20 A	1			0.0 kVA 0.0 kVA		1	20 A		SPARE	70			
71	SPARE	20 A	1				0.0 kVA 0.0 kVA	1	20 A		SPARE	72			
73	SPACE ONLY	--	--	--	0.0 kVA 0.0 kVA			--	--	--	SPACE ONLY	74			
75	SPACE ONLY	--	--	--		0.0 kVA 0.0 kVA		--	--	--	SPACE ONLY	76			
77	SPACE ONLY	--	--	--			0.0 kVA 0.0 kVA	--	--	--	SPACE ONLY	78			
79	SPACE ONLY	--	--	--	0.0 kVA 0.0 kVA							80			
81	SPACE ONLY	--	--	--		0.0 kVA 0.0 kVA					Surge Protection Device	82			
83	SPACE ONLY	--	--	--			0.0 kVA 0.0 kVA	3	30 A			84			
Total Load:					7.8 kVA	3.2 kVA	3.8 kVA								
Total Amps:					29 A	12 A	14 A								
Load Classification															
Lighting					6.3 kVA	125.00%	7.8 kVA	Panel Totals							
Receptacle					0.0 kVA	0.00%	0.0 kVA	Total Conn. Load: 14.8 kVA							
Motor					0.0 kVA	0.00%	0.0 kVA	Total Est. Demand: 16.34 kVA							
Heating					0.0 kVA	0.00%	0.0 kVA	Total Conn. Current: 18 A							
Cooling					0.0 kVA	0.00%	0.0 kVA	Total Est. Demand Current: 20 A							
Other					8.5 kVA	100.00%	8.5 kVA								
Elevator					0.0 kVA	0.00%	0.0 kVA								
Spare					0.0 kVA	0.00%	0.0 kVA								
Electric Clothes Dryer					0.0 kVA	0.00%	0.0 kVA								
Kitchen Equipment					0.0 kVA	0.00%	0.0 kVA								
Notes:															

Branch Panel: CK2

Location: STORAGE 2.204
Supply From: CK1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 250 A
MCB Rating:
Neutral Rating: 100.00%

Notes: PANEL FED FROM PANEL CK1 VIA FEED THRU LUGS.

CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT	
1	Receptacle - Storage	20 A	1	0.4 kVA	0.2 kVA				1	20 A	Receptacle - Storage	2	
3	Receptacle Kitchen Service 2.203	20 A	1			0.4 kVA	0.2 kVA		1	20 A	Receptacle Kitchen Service 2.203	4	
5	Receptacle Kitchen Service 2.203	20 A	1					0.4 kVA	0.3 kVA	2	20 A	34-Ventless Hood	6
7	35-Heated holding cabinet	20 A	1	1.3 kVA	0.3 kVA								8
9	37-Refrigerator, Reach-in two section	20 A	1			1.1 kVA	2.4 kVA						10
11	42-Ice maker w/o bin	25 A	1					2.3 kVA	2.4 kVA	2	30 A	40-Convection oven, electric	12
13	SPARE	20 A	1	0.0 kVA	0.0 kVA				1	20 A	SPARE	14	
15	SPARE	20 A	1			0.0 kVA	0.0 kVA		1	20 A	SPARE	16	
17	SPARE	20 A	1					0.0 kVA	0.0 kVA	1	20 A	SPARE	18
19	SPARE	20 A	1	0.0 kVA	0.0 kVA				1	20 A	SPARE	20	
21	SPARE	20 A	1			0.0 kVA	0.0 kVA		1	20 A	SPARE	22	
23	SPARE	20 A	1					0.0 kVA	0.0 kVA	1	20 A	SPARE	24
25	SPARE	20 A	1	0.0 kVA	0.0 kVA				1	20 A	SPARE	26	
27	SPARE	20 A	1			0.0 kVA	0.0 kVA		1	20 A	SPARE	28	
29	SPARE	20 A	1					0.0 kVA	0.0 kVA	1	20 A	SPARE	30
31	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	32	
33	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	34	
35	SPACE ONLY	--	--	--				0.0 kVA	0.0 kVA	--	--	SPACE ONLY	36
37	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	38	
39	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	40	
41	SPACE ONLY	--	--	--				0.0 kVA	0.0 kVA	--	--	SPACE ONLY	42

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	0.0 kVA	0.00%	0.0 kVA	
Receptacle	9.4 kVA	100.00%	9.4 kVA	Total Conn. Load: 11.7 kVA
Motor	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand: 11.68 kVA
Heating	0.0 kVA	0.00%	0.0 kVA	Total Conn. Current: 32 A
Cooling	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand Current: 32 A
Other	2.3 kVA	100.00%	2.3 kVA	
Elevator	0.0 kVA	0.00%	0.0 kVA	
Spare	0.0 kVA	0.00%	0.0 kVA	
Electric Clothes Dryer	0.0 kVA	0.00%	0.0 kVA	
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	

Notes:

Branch Panel: CM2

Location: STORAGE 2.204
Supply From: MSB
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A
Neutral Rating: 100.00%

Notes:

CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT
1	SPACE ONLY	--	--	--	0.0 kVA	1.7 kVA						2
3	SPACE ONLY	--	--	--		0.0 kVA	1.7 kVA					4
5	SPACE ONLY	--	--	--			0.0 kVA	1.7 kVA				6
7					3.4 kVA	3.5 kVA						8
9	PTU-5-4	20 A	3			2.8 kVA	4.6 kVA					10
11								2.8 kVA	3.5 kVA			12
13					2.3 kVA	3.0 kVA						14
15	PTU-5-6	20 A	3			2.3 kVA	0.0 kVA					16
17								2.9 kVA	0.0 kVA	--	--	18
19					12.3 kVA	0.0 kVA				--	--	20
21	RTU-6	60 A	3			12.3 kVA	25.5 kVA					22
23								12.3 kVA	25.5 kVA	3	125 A	24
25					12.3 kVA	25.5 kVA				--	--	26
27	RTU-7	60 A	3			12.3 kVA	0.0 kVA			--	--	28
29								12.3 kVA	0.0 kVA	--	--	30
31	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	32
33	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	34
35	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	36
37	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA						38
39	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA			3	30 A	40
41	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA				42
Total Load:					64.0 kVA	61.5 kVA						
Total Amps:					231 A	222 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	0.0 kVA	0.00%	0.0 kVA	
Receptacle	0.0 kVA	0.00%	0.0 kVA	Total Conn. Load: 196.6 kVA
Motor	76.5 kVA	125.00%	95.7 kVA	Total Est. Demand: 205.71 kVA
Heating	110.1 kVA	100.00%	110.1 kVA	Total Conn. Current: 224 A
Cooling	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand Current: 247 A
Other	0.0 kVA	0.00%	0.0 kVA	
Elevator	0.0 kVA	0.00%	0.0 kVA	
Spare	0.0 kVA	0.00%	0.0 kVA	
Electric Clothes Dryer	0.0 kVA	0.00%	0.0 kVA	
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	

Notes:

Branch Panel: CR2B

Location: STORAGE 2.204
Supply From: T-CR1B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 150 A
Neutral Rating: 100.00%

Notes: PROVIDE SINGLE TUB, 84 CIRCUIT PANELBOARD.

CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT	
1	SSCU-3 / SSAC-3	15 A	2	0.9 kVA	1.6 kVA			2	25 A		SSCU-2 / SSAC-2	2	
3						0.9 kVA	1.6 kVA					4	
5	EF-7	20 A	2	0.2 kVA	0.4 kVA		0.2 kVA	0.6 kVA	1	20 A	Floor Box - Exterior	6	
7						1.6 kVA	0.4 kVA		1	20 A	Floor Box - Exterior	8	
9	SSCU-1 / SSAC-1	25 A	2					1.6 kVA	0.4 kVA	1	Floor Box - Exterior	10	
11								1.6 kVA	0.4 kVA	1	Floor Box - Exterior	12	
13	Recept.-Women 2.205, Men 2.207	20 A	1	0.8 kVA	0.4 kVA			1	20 A		Recept.-AV Storage 2.213	14	
15	Hand Dryer-Women 2.205	1	20 A	1		0.5 kVA	0.4 kVA	1	20 A		Recept.-JR Ballroom 2.212	16	
17	Hand Dryer-Men 2.207	1	20 A	1			0.5 kVA	0.4 kVA	1	20 A	Floor Box-JR, Ballroom 2.212	18	
19	Hand Dryer-Women 2.205	1	20 A	1	0.5 kVA	0.4 kVA		1	20 A		Floor Box-JR, Ballroom 2.212	20	
21	Hand Dryer-Men 2.207	1	20 A	1		0.5 kVA	0.4 kVA	1	20 A		Floor Box-JR, Ballroom 2.212	22	
23	EWV-Corridor 2.202	20 A	1				0.2 kVA	0.2 kVA	1	20 A	Floor Box-JR, Ballroom 2.212	24	
25	Recept.-Msl. 2.201, Corr. 2.202/2.208/2.211	20 A	1	0.8 kVA	0.6 kVA			1	20 A		Projector/Screen-JR, Ballroom 2.212	26	
27	Recept.-Jan. 2.206, Dressing Room 2.209, Toilet...	20 A	1			0.6 kVA	0.5 kVA	1	20 A		EF-8	28	
29	LIC Fridge-Dressing Room 2.209	20 A	1				0.2 kVA	0.2 kVA	1	20 A	Motorized Shades - Jr. Ballroom 2.212	30	
31	Recept.-Dressing Room 2.209	20 A	1	0.4 kVA	0.2 kVA			1	20 A		Motorized Shades - Jr. Ballroom 2.212	32	
33	Recept.-Dressing Room 2.209	20 A	1			1.0 kVA	1.0 kVA	1	20 A		Receptacle Storage 2.204	34	
35	Recept.-Exterior	20 A	1				0.4 kVA	0.2 kVA	1	20 A	Door Power-Corridor 2.202	36	
37	Recept.-RTU Service	20 A	1	0.6 kVA	0.2 kVA			1	20 A		Fire/Smoke Dampers	38	
39						1.3 kVA	0.0 kVA	1	20 A		SPARE	40	
41	EF-9	20 A	2				1.3 kVA	0.0 kVA	1	20 A	SPARE	42	
43											SPARE	44	
45	EF-10	20 A	2								SPARE	46	
47											SPARE	48	
49	IMAU-1	20 A	3	1.4 kVA	0.0 kVA		1.4 kVA	0.0 kVA	1	20 A	SPARE	50	
51											SPARE	52	
53	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	--	SPACE ONLY	54
55	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	--	SPACE ONLY	56
57	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	--	SPACE ONLY	58
59	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	--	SPACE ONLY	60
61	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	--	SPACE ONLY	62
63	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	64	
65	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	66	
67	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	68	
69	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	70	
71	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	72	
73	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	74	
75	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	76	
77	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	78	
79	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	80	
81	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	82	
83	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	84	
Total Load:						9.9 kVA	12.6 kVA						
Total Amps:						85 A	107 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	0.0 kVA	0.00%	0.0 kVA	
Receptacle	10.6 kVA	97.17%	10.3 kVA	Total Conn. Load: 30.4 kVA
Motor	9.9 kVA	111.75%	9.9 kVA	Total Est. Demand: 31.19 kVA
Heating	0.0 kVA	0.00%	0.0 kVA	Total Conn. Current: 84 A
Cooling	8.2 kVA	100.00%	8.2 kVA	Total Est. Demand Current: 87 A
Other	2.8 kVA	100.00%	2.8 kVA	
Elevator	0.0 kVA	0.00%	0.0 kVA	
Spare	0.0 kVA	0.00%	0.0 kVA	
Electric Clothes Dryer	0.0 kVA	0.00%	0.0 kVA	
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	

Notes:

Branch Panel: CK1

Location: KITCHEN 2.109
Supply From: T-CK1
Mounting: Flush
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A
Neutral Rating: 100.00%

Notes:

		No t s	Trip	Po l e	A	B	C	Po l e	Trip	No t s	Circuit Description	CKT	
CKT	Circuit Description												
1	Kitchen Equipment - Non-dwelling Unit Kitchen...	20 A	1	0.2 kVA	0.5 kVA			1	20 A	22-Ventilator control panel	2		
3	Kitchen Equipment - Non-dwelling Unit Kitchen...	20 A	1			0.4 kVA	0.0 kVA	1	20 A	Circuit 2 - Shunt-trip	4		
5	Kitchen Equipment - Non-dwelling Unit Kitchen...	20 A	1				0.4 kVA	5.3 kVA	2	20-Electric convection oven	6		
7	1-Heated holding cabinet	20 A	1	1.3 kVA	5.3 kVA					8			
9	Ceiling Receptacle Kitchen 2.109	20 A	1			0.2 kVA	0.0 kVA	1	20 A	Circuit 6.8 - Shunt-trip	10		
11	Kitchen Equipment - Non-dwelling Unit Kitchen...	20 A	1				0.4 kVA	0.5 kVA	1	20 A	Kitchen hood lights	12	
13	17-Reach-in refrigerator	20 A	1	1.3 kVA	0.0 kVA			1	20 A	Circuit 12 - Shunt-trip	14		
15	17-Reach-in refrigerator	20 A	1			1.3 kVA	0.5 kVA	1	20 A	Exhaust hood with make-up air	16		
17	17-Freezer, Reach-in	20 A	1				1.0 kVA	0.0 kVA	1	Circuit 16 - Shunt-trip	18		
19	Kitchen Equipment - Non-dwelling Unit Kitchen...	20 A	1	0.2 kVA	0.1 kVA			2	20 A	24-Counter top electric fryer	20		
21	Ceiling Receptacle Kitchen 2.109	20 A	1			0.2 kVA	0.1 kVA		20 A		22		
23	Ceiling Receptacle Kitchen 2.109	20 A	1				0.2 kVA	0.0 kVA	1	20 A	Circuit 20.2 - Shunt-trip	24	
25	32-Banquet holding cabinet	20 A	1	1.3 kVA	1.0 kVA			1	20 A	32-Banquet cabinet, mobile, heated	26		
27	Ceiling Receptacle Kitchen 2.109	20 A	1			0.2 kVA	1.0 kVA	1	20 A	32-Banquet cabinet, mobile, heated	28		
29	7-in-1 w/bo maker w/b in	25 A	2	2.1 kVA	0.1 kVA		2.1 kVA	0.1 kVA	2	20 A	Receptacle Kitchen 2.109	30	
31	SPARE	20 A	1			0.0 kVA	0.0 kVA		20 A	SPARE	32		
33	SPARE	20 A	1				0.0 kVA	0.0 kVA	1	20 A	SPARE	34	
35	SPARE	20 A	1	0.0 kVA	0.0 kVA			1	20 A	SPARE	36		
37	SPARE	20 A	1			0.0 kVA	0.0 kVA		20 A	SPARE	38		
39	SPARE	20 A	1				0.0 kVA	0.0 kVA	1	20 A	SPARE	40	
41	SPARE	20 A	1				0.0 kVA	0.0 kVA	1	20 A	SPARE	42	

Branch Panel: LL1B

Location: ELECTRICAL EQUIPMENT...

Supply From: LDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye

Phases: 3
Wires: 4

A.I.C. Rating: 42,000

Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

Notes:

	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT	
1	Lighting-Stacks 1.134	20 A	1	0.1 kVA	0.2 kVA					20 A	Lighting-South Stacks	2	
3	Lighting-East Stacks	20 A	1			0.6 kVA	0.1 kVA			20 A	Lighting Above 1.136	4	
5	Lighting-South Rooms	20 A	1					1.8 kVA	0.0 kVA	1	20 A	Lighting Stacks 1.129	6
7	Lighting-East Lib Commons	20 A	1	0.1 kVA	0.5 kVA					20 A	Lighting-East Lib Commons	8	
9	Lighting-Meeting Rm	20 A	1			0.9 kVA	0.1 kVA			20 A	Lighting-Central Lib Commons	10	
11	Lighting-Meeting Rm	20 A	1					0.5 kVA	0.1 kVA	1	20 A	Lighting-Meeting Rm	12
13	Lighting-Meeting Rm	20 A	1	0.1 kVA	0.2 kVA					20 A	Lighting-Meeting Rm	14	
15	Lighting-Meeting Rm	20 A	1			0.1 kVA	0.5 kVA			20 A	Lighting- Handrail	16	
17	Lighting- Handrail	20 A	1					0.5 kVA	1.1 kVA	1	20 A	Lighting Stacks 1.235	18
19	Lighting Stacks 1.228	20 A	1	1.5 kVA	0.3 kVA					20 A	Lighting Stacks 1.235	20	
21	Lighting Stacks 1.228	20 A	1			1.5 kVA	0.6 kVA			20 A	Lighting Stacks 1.235	22	
23	Lighting Stacks 1.222	20 A	1					1.5 kVA	0.3 kVA	1	20 A	Lighting Stacks 1.226	24
25	Lighting Stacks 1.222	20 A	1	0.4 kVA	0.3 kVA					20 A	Lighting Stacks 1.225	26	
27	Lighting Mothers Room 1.239	20 A	1			2.6 kVA	0.1 kVA			20 A	Lighting Above 1.237	28	
29	Lighting Emergent/Early Literacy Center 1.230	20 A	1					0.2 kVA	0.1 kVA	1	20 A	Lighting - Elevator Pit, Shaft	30
31	Lighting Room 1.002 - 1.007, 1.098	20 A	1	0.3 kVA	0.4 kVA					20 A	Lighting - Roof, Mechanical Room	32	
33	Lcp-3	20 A	1			1.2 kVA	0.0 kVA			20 A	SPARE	34	
35	Lighting Passageway 1.007	20 A	1					0.4 kVA	0.0 kVA	1	20 A	SPARE	36
37	SPARE	20 A	1	0.0 kVA	0.0 kVA					20 A	SPARE	38	
39	SPARE	20 A	1			0.0 kVA	0.0 kVA			20 A	SPARE	40	
41	SPARE	20 A	1					0.0 kVA	0.0 kVA	1	20 A	SPARE	42
Total Load:					4.4 kVA		8.1 kVA				6.6 kVA		
Total Amps:					16 A		31 A				25 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	18.0 kVA	125.00%	22.5 kVA	
Receptacle	0.0 kVA	0.00%	0.0 kVA	Total Conn. Load: 18.0 kVA
Motor	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand: 22.49 kVA
Heating	0.0 kVA	0.00%	0.0 kVA	Total Conn. Current: 22 A
Cooling	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand Current: 27 A
Other	0.0 kVA	0.00%	0.0 kVA	
Elevator	0.0 kVA	0.00%	0.0 kVA	
Spars	0.0 kVA	0.00%	0.0 kVA	
Electric Clothes Dryer	0.0 kVA	0.00%	0.0 kVA	
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	

Notes:

Branch Panel: LR1B

Location: ELECTRICAL EQUIPMENT...

Supply From: T-LR1B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3
Wires: 4

A.I.C. Rating: 10,000

Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A
Neutral Rating: 100.00%

Notes: PROVIDE DOUBLE TUB, 54 CIRCUIT PER SECTION, PANELBOARD.

CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT
1	Recept.-Conn. 1.002, LULA Mach. Rm. 1.004, Fire...		20 A	1	0.8 kVA	0.8 kVA			20 A		Recept.-East Perimeter Bench	2
3	Recept.-Green Room 1.003		20 A	1		0.8 kVA	0.4 kVA		20 A		Floor Box-Stacks 1.134	4
5	LULA Elevator Pump Pump		20 A	2	0.7 kVA	0.4 kVA		0.7 kVA	0.2 kVA	1	Floor Box-Reading 1.130	6
9	Recept.-LULA Elevator Pit		20 A	1		0.2 kVA	0.8 kVA		20 A		Floor Box-Stacks 1.129	8
11	Door Power-Green Room 1.003		20 A	1				0.5 kVA	1.2 kVA	1	Plugmold-Stacks 1.127, Stacks 1.129&1.134...	10
13	AV Rack - Green Room 1.003		20 A	1	0.4 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	12
15	Security Gate - Corridor 1.002		20 A	1		0.5 kVA	0.6 kVA		20 A		Recept.-Meeting Room 1.133	14
17	Fire/Smoke Dampers		20 A	1			0.8 kVA	0.6 kVA	1	20 A	Recept.-Meeting Room 1.133	16
19	SPARE		20 A	1	0.0 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	18
21	SPARE		20 A	1		0.0 kVA	0.6 kVA		20 A		Recept.-Meeting Room 1.133	20
23	SPARE		20 A	1			0.0 kVA	0.6 kVA	1	20 A	Recept.-Meeting Room 1.133	22
25	SPARE		20 A	1	0.0 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	24
27						2.9 kVA	0.6 kVA		20 A		Recept.-Meeting Room 1.133	26
29	LULA Elevator Control Power		30 A	3			2.9 kVA	0.6 kVA	1	20 A	Recept.-Meeting Room 1.133	28
31					2.9 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	30
33	LULA Elevator Lighting Power		15 A	1		1.4 kVA	0.6 kVA		20 A		Recept.-Meeting Room 1.133	32
35	Recept.-West Perimeter Bench		20 A	1			1.0 kVA	0.6 kVA	1	20 A	Recept.-Meeting Room 1.133	34
37	Recept. - South Perimeter Bench		20 A	1	0.8 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	36
39	Floor Box-Stacks 1.138		20 A	1		0.4 kVA	0.2 kVA		20 A		Floor Box-Stage 1.001	38
41	Floor Box-Reading 1.135		20 A	1			0.2 kVA	0.2 kVA	1	20 A	Floor Box-Stage 1.001	40
43	Recept.-Stacks 1.134		20 A	1	0.4 kVA	0.2 kVA			20 A		Floor Box-Stage 1.001	42
45	Recept.-Stacks 1.134&1.138, Reading 1.135		20 A	1		1.0 kVA	0.4 kVA		20 A		Recept.-Stage 1.001	44
47	Plugmold-Private Carrel 1.103&1.104		20 A	1			1.0 kVA	0.6 kVA	1	20 A	Recept.-Meeting Room 1.133	46
49	Recept.-Private Carrel 1.103&1.104		20 A	1	0.8 kVA	0.6 kVA			20 A		Recept.-Meeting Room 1.133	48
51	Recept.-Men 1.141, Women 1.142		20 A	1		0.8 kVA	0.5 kVA		20 A		Door Power-East Entry 1.128, Archives 1.132	50
53	Hand Dryer-Women 1.142	1	20 A	1			0.5 kVA	0.4 kVA	1	20 A	Floor Box-Memory Lab 1.131, Archives 1.132	52
55	Hand Dryer-Women 1.142	1	20 A	1	0.5 kVA	0.8 kVA			20 A		Recept.-Memory Lab 1.131, Archives 1.132	54
57	Hand Dryer-Men 1.141	1	20 A	1		0.5 kVA	1.2 kVA		20 A		Plugmold-Memory Lab 1.131	56
59	Hand Dryer-Men 1.141	1	20 A	1			0.5 kVA	1.0 kVA	1	20 A	Acoustic Banners-Meeting Room 1.133	58
61	EWG-Above 1.139		20 A	1	0.2 kVA	0.4 kVA			20 A		Projector-Meeting Room 1.133	60
63							0.0 kVA		20 A		SPARE	62
65	Recept.-Janitor 1.140		20 A	1			0.5 kVA	0.0 kVA	1	20 A	SPARE	64
67	Door Power-West Entry 1.101, Reading 1.135		20 A	1	1.0 kVA	0.0 kVA			20 A		SPARE	66
69	Floor Receptacle - Exterior East		20 A	1		0.4 kVA	0.0 kVA		20 A		SPARE	68
71	Floor Receptacle - Exterior East		20 A	1			0.4 kVA	0.0 kVA	1	20 A	SPARE	70
73	Floor Receptacle - Exterior West		20 A	1	0.4 kVA	0.0 kVA			20 A		SPARE	72
75	Floor Receptacle - Exterior West		20 A	1		0.4 kVA	0.0 kVA		20 A		SPARE	74
77	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A	SPARE	76
79	SPARE		20 A	1	0.0 kVA	0.0 kVA			20 A		SPARE	78
81	SPARE		20 A	1		0.0 kVA	0.0 kVA		20 A		SPARE	80
83	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A	SPARE	82
85	SPARE		20 A	1	0.0 kVA	0.0 kVA			20 A		SPARE	84
87	SPARE		20 A	1		0.0 kVA	0.0 kVA		20 A		SPARE	86
89	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A	SPARE	88
91	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	90
93	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	92
95	SPACE ONLY	--	--	--				0.0 kVA	0.0 kVA	--	SPACE ONLY	94
97	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA		--	--	SPACE ONLY	96
99	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA		--	--	SPACE ONLY	98
101	SPACE ONLY	--	--	--			0.0 kVA	0.0 kVA	--	--	SPACE ONLY	100
103					10.8 kVA	0.0 kVA		--	--	--	SPACE ONLY	102
105	PANEL - LR2B		150 A	3		9.2 kVA	0.0 kVA	--	--	--	SPACE ONLY	104
107								--	--	--	SPACE ONLY	106
Total Load:					25.9 kVA	24.4 kVA	8.8 kVA	0.0 kVA				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	1.4 kVA	125.00%	1.8 kVA	
Receptacle	60.9 kVA	60.90%	29.9 kVA	Total Conn. Load: 74.1 kVA
Motor	4.1 kVA	104.25%	4.3 kVA	Total Est. Demand: 54.78 kVA
Heating	0.0 kVA	0.00%	0.0 kVA	Total Conn. Current: 206 A
Cooling	0.0 kVA	0.00%	0.0 kVA	Total Est. Demand Current: 152 A
Other	10.2 kVA	100.00%	10.2 kVA	
Elevator	8.6 kVA	100.00%	8.6 kVA	
Spars	0.0 kVA	0.00%	0.0 kVA	
Electric Clothes Dryer	0.0 kVA	0.00%	0.0 kVA	
Kitchen Equipment	0.0 kVA	0.00%	0.0 kVA	

Notes: 1. PROVIDE LOCKABLE CIRCUIT BREAKER.

Branch Panel: LL1A

Location: ELECTRICAL EQUIPMENT...

Supply From: LDP
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye

Phases: 3
Wires: 4

A.I.C. Rating: 42,000

Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A
Neutral Rating: 100.00%

Notes:

CKT	Circuit Description	No	Trip	Pole	A	B	C	Pole	Trip	No	Circuit Description	CKT
1	Lighting-Computer Lab	20 A	1	0.3 kVA	1.2 kVA			1	20 A		LCP-2, Library North Elec Rm	2
3	Lighting-Computer Lab	20 A	1			0.2 kVA	1.1 kVA	1	20 A		Lighting Stacks 1.2121	4
5	Lighting-West Stacks	20 A	1					0.4 kVA	0.3 kVA	1	Lighting Stacks 1.212	6
7	Lighting-West Stacks	20 A	1	0.1 kVA	0.6 kVA			1	20 A		Lighting Stacks 1.212	8
9	Lighting-West Entry	20 A	1			0.1 kVA	0.2 kVA	1	20 A		Lighting-Maker Space	10
11	Lighting-North Rooms	20 A	1					1.9 kVA	1.5 kVA	1	Lighting Stacks 1.201	12
13	Lighting-West Lib Commons	20 A	1	0.5 kVA	0.4 kVA			1	20 A		Lighting Stacks 1.207	14
15	Lighting-Central Lib Commons	20 A	1			0.1 kVA	1.5 kVA	1	20 A		Lighting Stacks 1.207	16
17	Lighting-Maker Space	20 A	1					0.2 kVA	0.6 kVA	1	Lighting Stacks 1.202	18
19	Lighting Bookstore 1.115	20 A	1	0.1 kVA	0.3 kVA			1	20 A		Lighting Stacks 1.225	20
21	Lighting Bookstore 1.115	20 A	1			0.1 kVA	2.5 kVA	1	20 A		Lighting Toilet 1.214	22
23	Lighting-North Reading	20 A	1					0.2 kVA	0.1 kVA	1	Lighting Corridor 1.211	24
25	SPARE	20 A	1	0.0 kVA	0.0 kVA			1	20 A		SPARE	26
27	SPARE	20 A	1			0.0 kVA	0.0 kVA	1	20 A		SPARE	28
29	SPARE	20 A	1					0.0 kVA	0.0 kVA	1	SPARE	30
31	SPARE	20 A	1	0.0 kVA	0.0 kVA			--	--	--	SPACE ONLY	32
33	SPARE	20 A	1			0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	34
35	SPARE	20 A	1					0.0 kVA	0.0 kVA	--	SPACE ONLY	36
37	SPACE ONLY	--	--	--	0.0 kVA	0.0 kVA		--	--	--	SPACE ONLY	38
39	SPACE ONLY	--	--	--		0.0 kVA	0.0 kVA	--	--	--	SPACE ONLY	40
41	SPACE ONLY	--	--	--				0.0 kVA	0.0 kVA	--	SPACE ONLY	42
Total Load:					3.3 kVA	5.8 kVA	5.2 kVA					
Total Amps:					12 A	22 A	20 A					

Branch Panel: LR2B															
Location: ELECTRICAL EQUIPMENT...								Volts: 120/208 Wye							
Supply From: LR1B								Phases: 3							
Mounting: Surface								Wires: 4							
Enclosure: Type 1								A.C. Rating: 100.00							
								Mains Type: MCB							
								Mains Rating: 225 A							
								MCB Rating: 150 A							
								Neutral Rating: 100.00%							
Notes: PROVIDE SINGLE TUB, 60 CIRCUIT PANELBOARD.															
CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT			
1	EF-1	20 A	1	0.5 kVA	0.5 kVA			1	20 A	EF-2		2			
3	EF-3	20 A	1			0.7 kVA	0.7 kVA		20 A	EF-4		4			
5	EF-5	20 A	1				0.5 kVA	0.8 kVA	1	20 A	Receptacle Room 1.236, 1.235	6			
7	EF-6	20 A	1	0.5 kVA	0.8 kVA			1	20 A	Receptacle Room 1.235, 1.228		8			
9	SPARE	20 A	1			0.0 kVA	0.8 kVA		20 A	Receptacle Room 1.226, 1.202		10			
11	SPARE	20 A	1				0.0 kVA	0.0 kVA	1	20 A	SPARE	12			
13	SPARE	20 A	1	0.0 kVA	0.2 kVA			1	20 A	Receptacle Electrical Equipment 1.238		14			
15	SPARE	20 A	1			0.0 kVA	0.0 kVA		1	20 A	SPARE	16			
17	SPARE	20 A	1				0.0 kVA	0.8 kVA	1	20 A	Floor Box - Stacks 1.228	18			
19	SPARE	20 A	1	0.0 kVA	0.8 kVA			1	20 A	Floor Box - Stacks 1.228		20			
21	Recept. - Mothers Room 1.239, Janitor 1.241	20 A	1			0.8 kVA	0.8 kVA	1	20 A	Floor Box - Stacks 1.227		22			
23	Recept. - UIC Fridge Mothers Room 1.239	20 A	1				0.2 kVA	0.8 kVA	1	20 A	Floor Box - Stacks 1.227	24			
25	Recept. - Men 1.242, Women 1.243	20 A	1	0.8 kVA	0.8 kVA			1	20 A	Floor Box - Stacks 1.228		26			
27	Hand Dryer-Men 1.242	1	20 A	1	0.5 kVA	0.4 kVA		1	20 A	AV Rack - Youth Storage 1.234		28			
29	Hand Dryer-Women 1.243	1	20 A	1			0.5 kVA	0.6 kVA	1	20 A	Recept. - Collaboration Room 1.231	30			
31	EWIC - Above 1.240	20 A	1	0.2 kVA	0.8 kVA			1	20 A	Floor Box & TV - Collaboration Room 1.231		32			
33	Hand Dryer-Women 1.243	1	20 A	1		0.5 kVA	0.6 kVA	1	20 A	Recept. - Collaboration Room 1.229		34			
35	Hand Dryer-Men 1.242	1	20 A	1			0.5 kVA	0.8 kVA	1	20 A	Floor Box & TV - Collaboration Room 1.229	36			
37	Plugmold/Private Carrel 1.203&1.204	20 A	1	1.0 kVA	0.8 kVA			1	20 A	Recept. - Emergent / Early Literacy Center 1.230		38			
39	Recept.-Private Carrel 1.203&1.204	20 A	1			0.8 kVA	1.0 kVA	1	20 A	Plug Mold - Youth Stor. 1.234, Stacks 1.235		40			
41	Floor Box - Stacks 1.202	20 A	1				0.4 kVA	0.5 kVA	1	20 A	Room Partition - Community Room 1.232	42			
43	Motorized Dampers - SW 2nd Floor	20 A	1	0.5 kVA	0.9 kVA			1	20 A	Plug Mold - Stacks 1.225		44			
45	SPARE	20 A	1			0.0 kVA	0.8 kVA	1	20 A	Floor Box - Community Room 1.232		46			
47	SPARE	20 A	1				0.0 kVA	0.8 kVA	1	20 A	Floor Box - Community Room 1.232	48			
49	SPARE	20 A	1	0.0 kVA	0.8 kVA			1	20 A	Floor Box - Community Room 1.232		50			
51	SPARE	20 A	1			0.0 kVA	0.4 kVA	1	20 A	Recept. - Community Room 1.232		52			
53	SPARE	20 A	1				0.0 kVA	0.8 kVA	1	20 A	Recept. - Imagination Room 1.233	54			
55	SPARE	20 A	1	0.0 kVA	0.8 kVA			1	20 A	Projector - Community Room 1.232, Imagination...		56			
57	SPARE	20 A	1			0.0 kVA	0.4 kVA	1	20 A	Floor Box - Stacks 1.228		58			
59	SPARE	20 A	1				0.0 kVA	0.8 kVA	1	20 A	TV - Community Room 1.232	60			
Total Load:					10.8 kVA	9.2 kVA	8.8 kVA								
Total Amps:					90 A	77 A	74 A								
Panel Totals															
Load Classification		Connected Load		Demand Factor		Estimated Demand									
Lighting		0.0 kVA		0.00%		0.0 kVA									
Receptacle		22.3 kVA		72.42%		16.2 kVA						Total Conn. Load:		28.8 kVA	
Motor		4.0 kVA		104.35%		4.2 kVA						Total Est. Demand:		22.85 kVA	
Heating		0.0 kVA		0.00%		0.0 kVA						Total Conn. Current:		80 A	
Cooling		0.0 kVA		0.00%		0.0 kVA						Total Est. Demand Current:		63 A	
Other		2.5 kVA		100.00%		2.5 kVA									
Elevator		0.0 kVA		0.00%		0.0 kVA									
Spare		0.0 kVA		0.00%		0.0 kVA									
Electric Clothes Dryer		0.0 kVA		0.00%		0.0 kVA									
Kitchen Equipment		0.0 kVA		0.00%		0.0 kVA									
Notes: 1. PROVIDE LOCKABLE CIRCUIT BREAKER.															

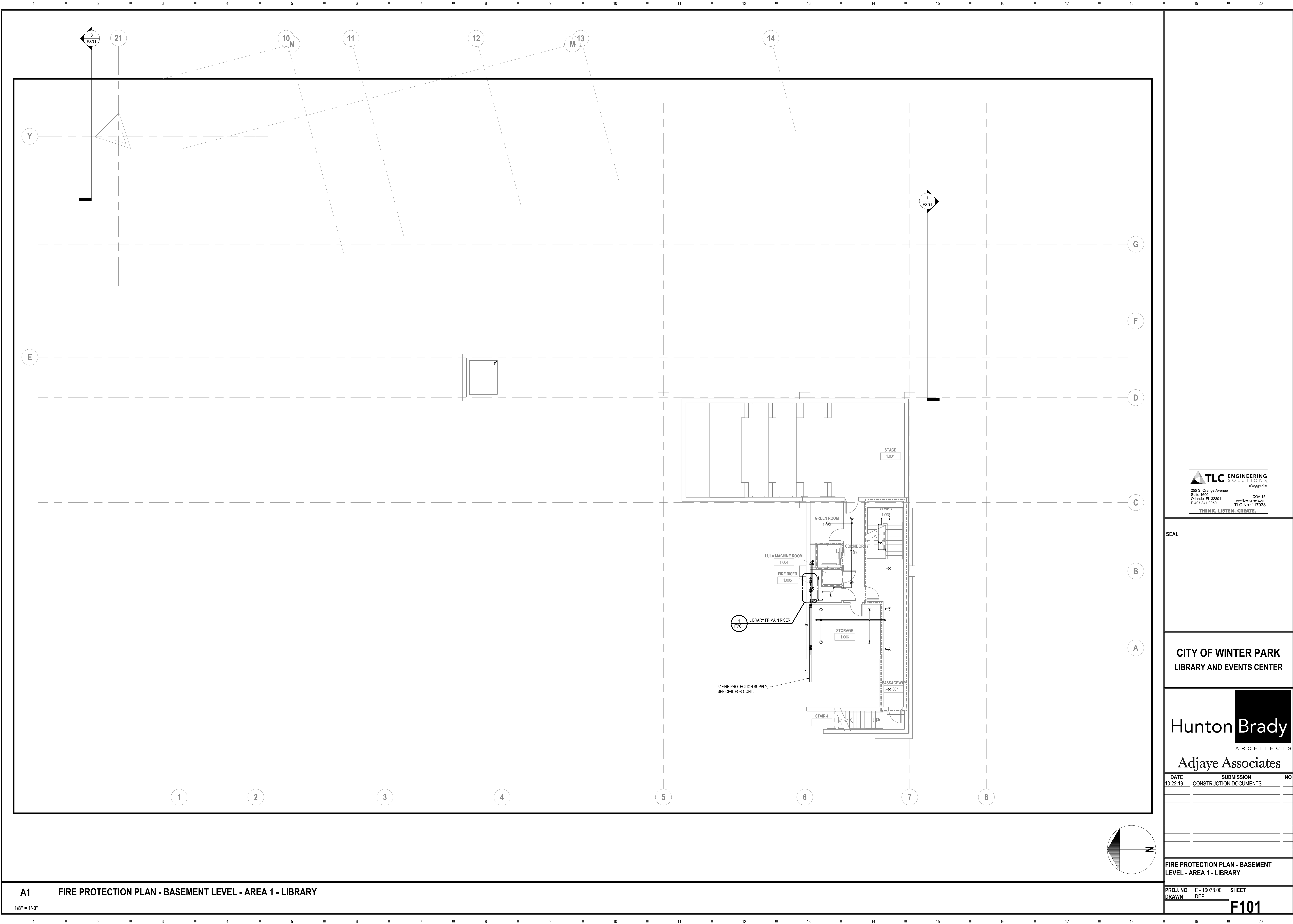
Branch Panel: LR2A															
Location: ELECTRICAL EQUIPMENT...								Volts: 120/208 Wye							
Supply From: LR1A								Phases: 3							
Mounting: Surface								Mains Type: MCB							
Enclosure: Type 1								Mains Rating: 225 A							
								MCB Rating: 150 A							
								Neutral Rating: 100.00%							
Notes: PROVIDE SINGLE TUB, 60 CIRCUIT PANELBOARD.															
CKT	Circuit Description	No t e	Trip	Po l e	A	B	C	Po l e	Trip	No t e	Circuit Description	CKT			
1	Recept.-Private Carrel 1.205&1.206		20 A	1	0.8 kVA	1.0 kVA			20 A		Plug Mold-Stacks 1.212	2			
3	Plugmold-Private Carrel 1.205&1.206		20 A	1		1.0 kVA	0.6 kVA		20 A		Recept.-Workstations 1.213	4			
5	Motorized Dampers - NW 2nd Floor		20 A	1				0.5 kVA	0.6 kVA	1	20 A	Recept.-Workstations 1.213	6		
7	Fridge - Staff Breakroom 1.209		20 A	1	0.6 kVA	0.8 kVA			1	20 A	Floor Box-Workstations 1.213	8			
9	Fridge - Staff Breakroom 1.209		20 A	1		0.6 kVA	0.8 kVA		1	20 A	Floor Box-Workstations 1.213	10			
11	Recept.-Staff Breakroom 1.209		20 A	1			0.6 kVA	0.8 kVA	1	20 A	Floor Box-Workstations 1.213	12			
13	Recept.-Staff Breakroom 1.209		20 A	1	0.6 kVA	0.8 kVA			1	20 A	Floor Box-Workstations 1.213	14			
15	Small App.-Staff Breakroom 1.209		20 A	1		0.5 kVA	0.8 kVA		1	20 A	Recept.-Business Manager 1.218	16			
17	Small App-Staff Breakroom 1.209		20 A	1				0.5 kVA	0.8 kVA	1	20 A	Recept.-Development Director 1.219	18		
19	Small App-Staff Breakroom 1.209		20 A	1	0.5 kVA	0.8 kVA			1	20 A	Recept.-Assistant Director 1.220	20			
21	Small App-Staff Breakroom 1.209		20 A	1		0.5 kVA	0.2 kVA		1	20 A	Printer-Development Director 1.219	22			
23	Disposal-Staff Breakroom 1.209		20 A	1			0.6 kVA	0.8 kVA	1	20 A	Recept.-Director 1.221	24			
25	Recept.-Collaboration Room 1.210		20 A	1	0.6 kVA	0.4 kVA			1	20 A	Recept.-Washer/Dryer 1.217, Storage 1.223	26			
27	Recept.-Collaboration Room 1.210		20 A	1		0.8 kVA	0.2 kVA		1	20 A	Washer-Washer / Dryer 1.217	28			
29	Floor Box-Collaboration Room 1.210		20 A	1			0.4 kVA	2.3 kVA	2	30 A	Dryer-Washer / Dryer 1.217	30			
31	Recept.-Teen Storage 1.208, Corr. 1.211, Toilet...		20 A	1	1.0 kVA	2.3 kVA			1	20 A	Printer-Print Room 1.216	32			
33	Hand Dryer-Toilet 1.214	1	20 A	1		0.5 kVA	0.2 kVA		1	20 A	Recept.-Print Room 1.216	34			
35	FATC-2L Electrical Equipment 1.215	2	20 A	1			0.1 kVA	0.4 kVA	1	20 A	Recept.-Print Room 1.216	36			
37	Floor Box-Workstations 1.215		20 A	1	0.4 kVA	0.4 kVA			1	20 A	Recept.-Print Room 1.216	38			
39	Floor Box-Workstations 1.215		20 A	1		0.4 kVA	1.2 kVA		1	20 A	Recept. & TV-Teen / Tween Event Room 1.224	40			
41	Dishwasher-Staff Breakroom 1.209		20 A	1			0.6 kVA	1.2 kVA	1	20 A	Recept. & TV-Teen / Tween Event Room 1.224	42			
43	Receptacle Room 1.207, 1.212		20 A	1	0.8 kVA	0.4 kVA			1	20 A	Floor Box-Teen / Tween Event Room 1.224	44			
45	Receptacle Room 1.222, 1.212		20 A	1		0.8 kVA	1.0 kVA		1	20 A	Acoustic Banners & Door Power	46			
47	DDC Panel - 2nd Fl North Elec Rm		20 A	1			0.5 kVA	0.8 kVA	1	20 A	Floor Box-Stacks 1.222	48			
49	AV Rack Teen / Tween Storage 1.208		20 A	1	0.4 kVA	0.8 kVA			1	20 A	Floor Box-Stacks 1.222	50			
51	SPARE		20 A	1		0.0 kVA	0.8 kVA		1	20 A	Floor Box-Stacks 1.222	52			
53	SPARE		20 A	1			0.0 kVA	0.8 kVA	1	20 A	Floor Box-Stacks 1.226	54			
55	SPARE		20 A	1	0.0 kVA	0.8 kVA			1	20 A	Floor Box-Stacks 1.226	56			
57	SPARE		20 A	1		0.0 kVA	0.0 kVA		1	20 A	SPARE	58			
59	SPARE		20 A	1			0.0 kVA	0.0 kVA	1	20 A	SPARE	60			
Total Load:			14.2 kVA			10.9 kVA			12.2 kVA						
Total Amps:			120 A			91 A			103 A						
Load Classification				Connected Load			Demand Factor		Estimated Demand			Panel Totals			
Lighting				0.0 kVA			0.00%		0.0 kVA						
Receptacle				34.7 kVA			64.1%		22.4 kVA			Total Conn. Load: 37.3 kVA			
Motor				0.5 kVA			105.00%		0.5 kVA			Total Est. Demand: 24.93 kVA			
Heating				0.0 kVA			0.00%		0.0 kVA			Total Conn. Current: 103 A			
Cooling				0.0 kVA			0.00%		0.0 kVA			Total Est. Demand Current: 69 A			
Other				2.1 kVA			100.00%		2.1 kVA						
Elevator				0.0 kVA			0.00%		0.0 kVA						
Spare				0.0 kVA			0.00%		0.0 kVA						
Electric Clothes Dryer				0.0 kVA			0.00%		0.0 kVA						
Kitchen Equipment				0.0 kVA			0.00%		0.0 kVA						
Notes: 1. PROVIDE LOCKABLE CIRCUIT BREAKER. 2. PROVIDE RED, LOCKABLE CIRCUIT BREAKER.															

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FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX

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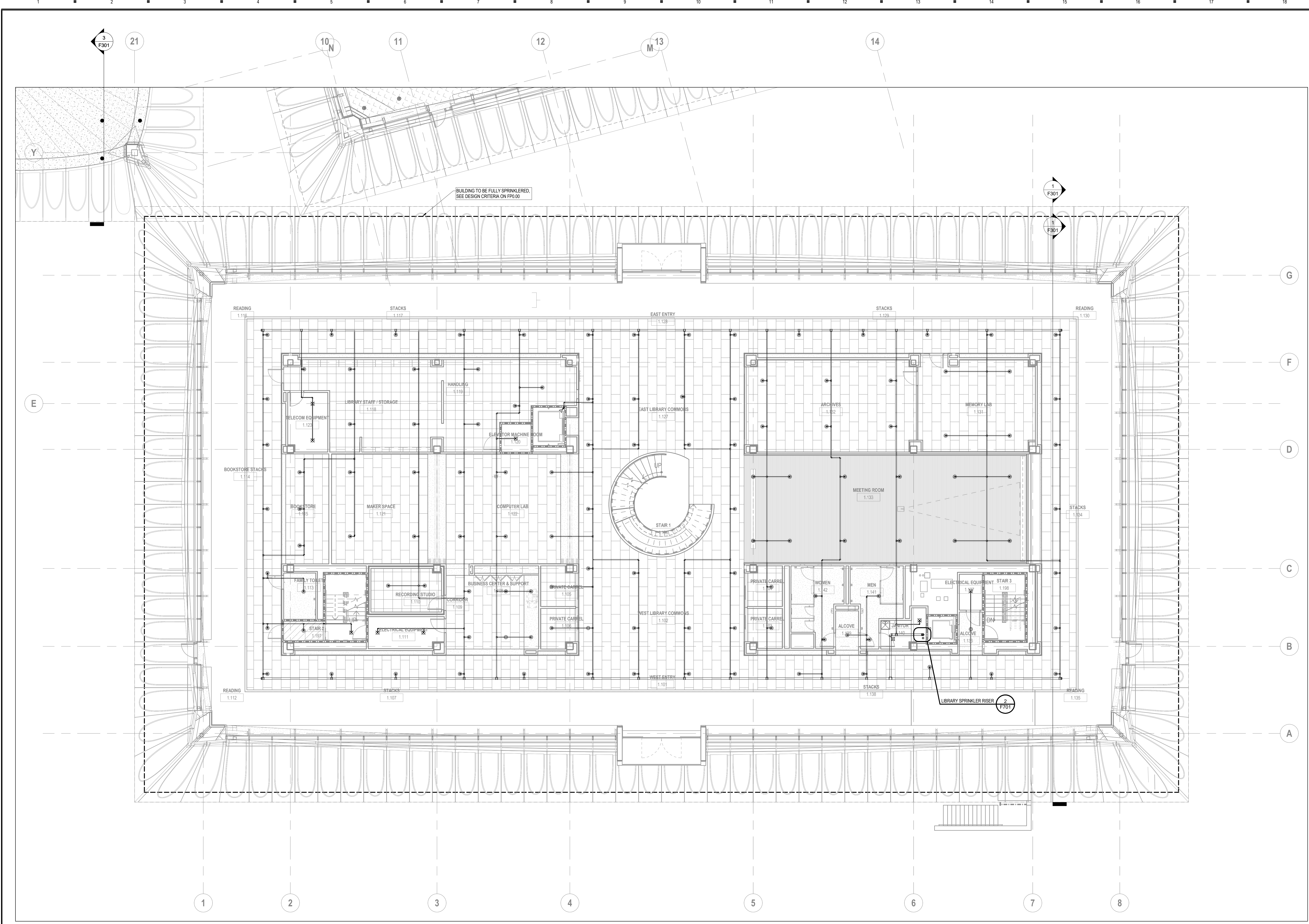
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FIRE PROTECTION PLAN - BASEMENT
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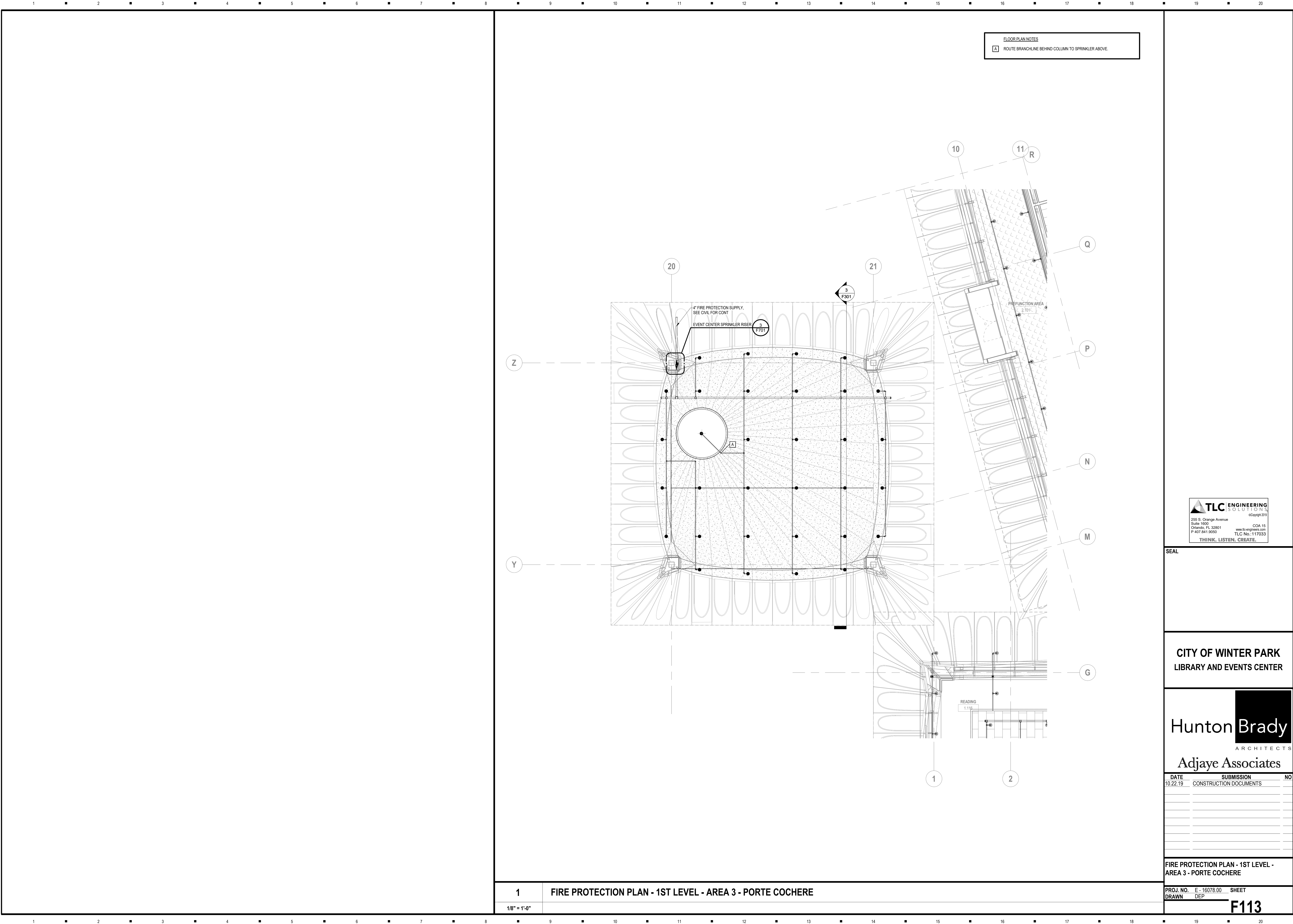
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**FIRE PROTECTION PLAN - 1ST LEVEL -
AREA 1 - LIBRARY**

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A1	FIRE PROTECTION PLAN - 1ST LEVEL - AREA 1 - LIBRARY
1/8" = 1'-0"	

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FLOOR PLAN NOTES

[A] ROUTE BRANCHLINE BEHIND COLUMN TO SPRINKLER ABOVE.

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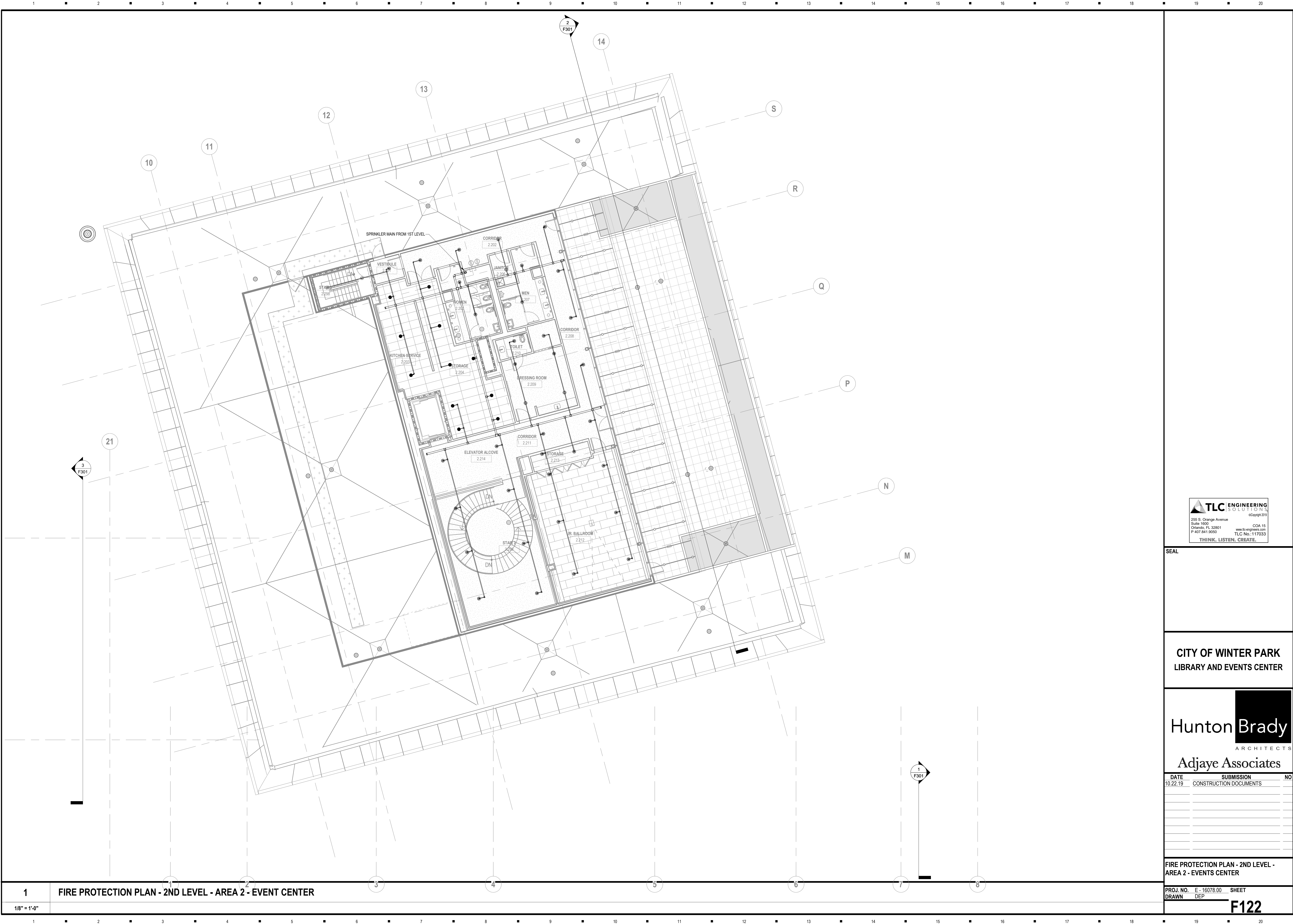
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**FIRE PROTECTION PLAN - 1ST LEVEL -
AREA 3 - PORTE COCHERE**

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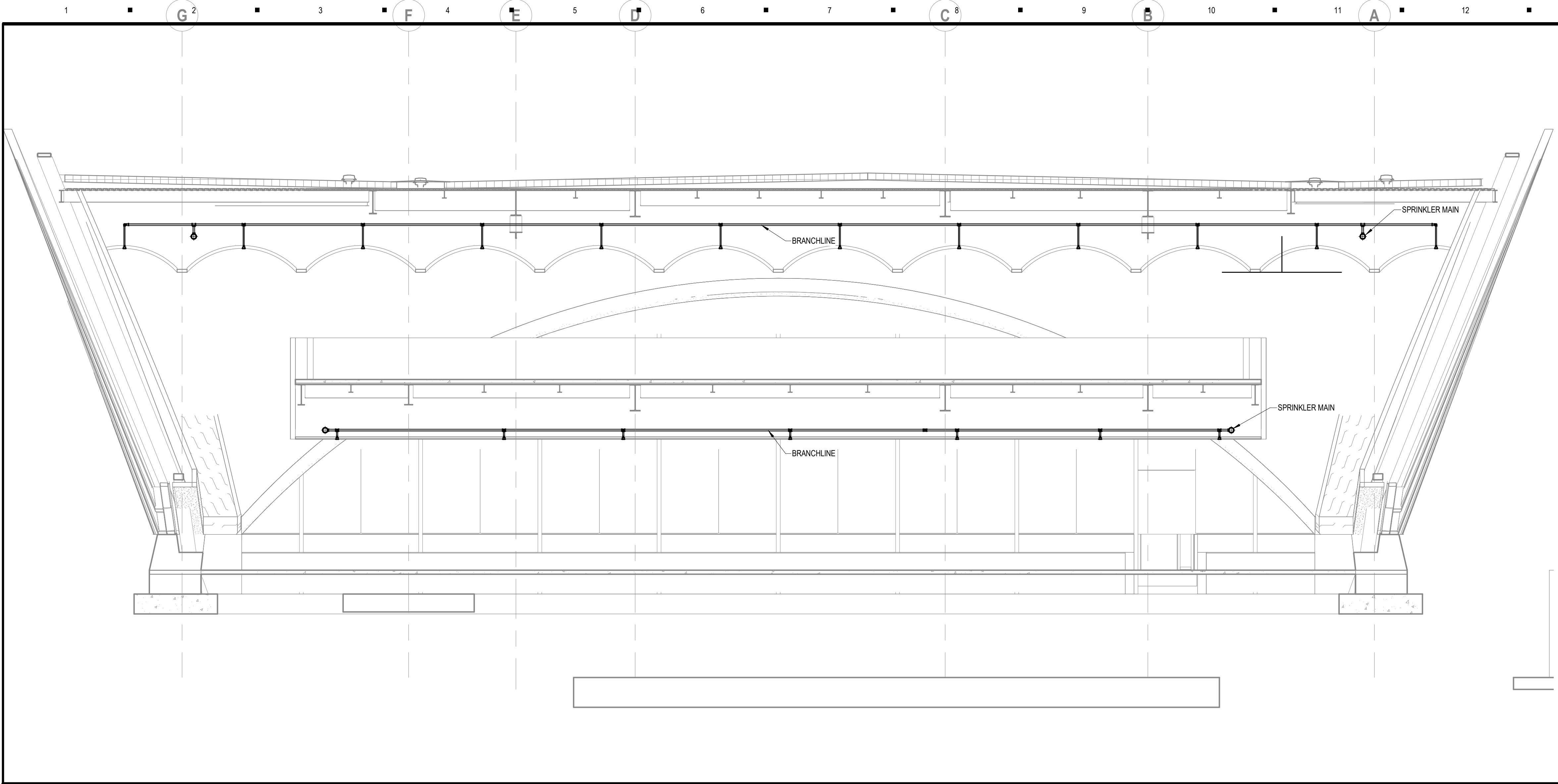
FIRE PROTECTION PLAN - 2ND LEVEL -
AREA 2 - EVENTS CENTER

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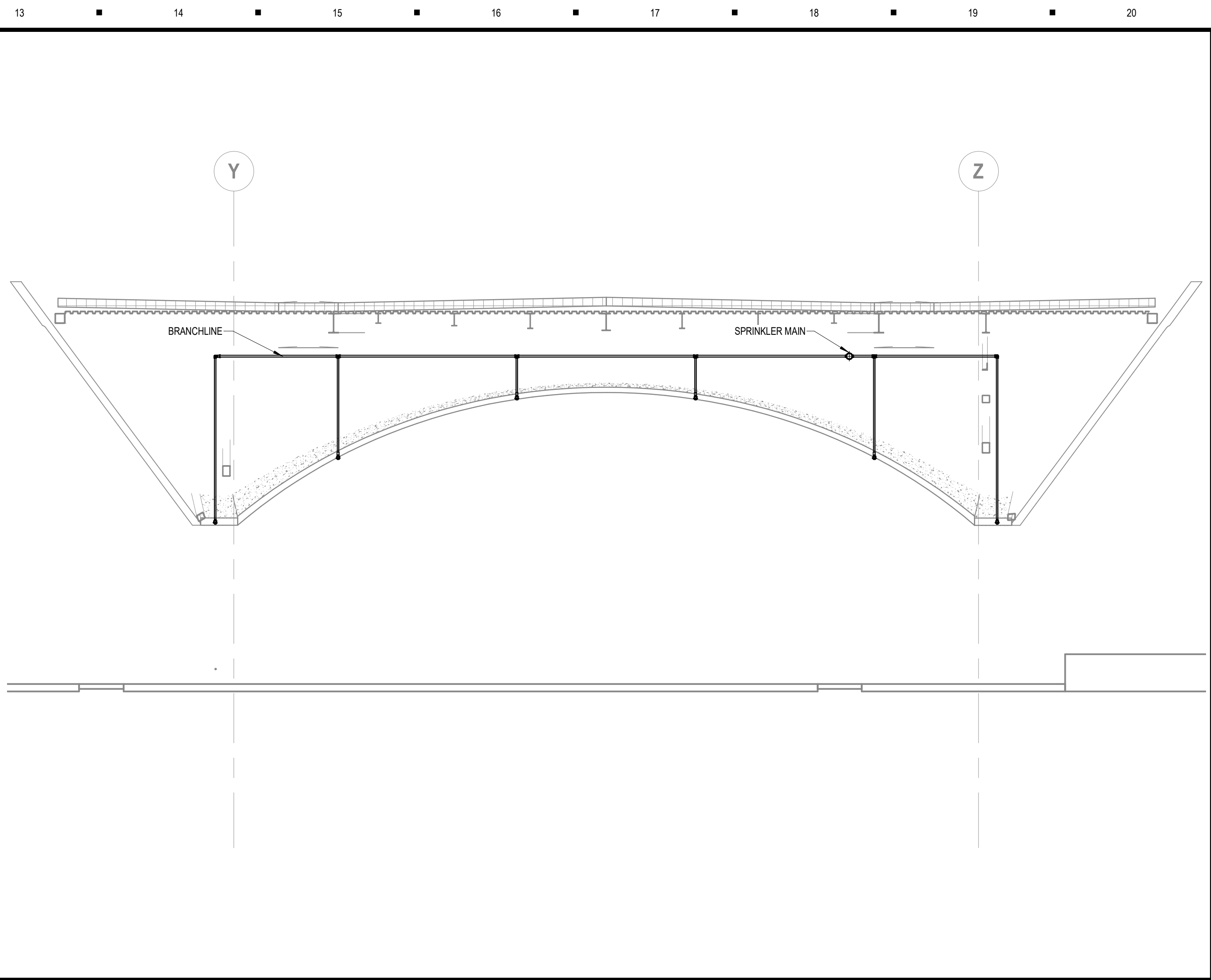
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1 FIRE PROTECTION PLAN - 2ND LEVEL - AREA 2 - EVENT CENTER

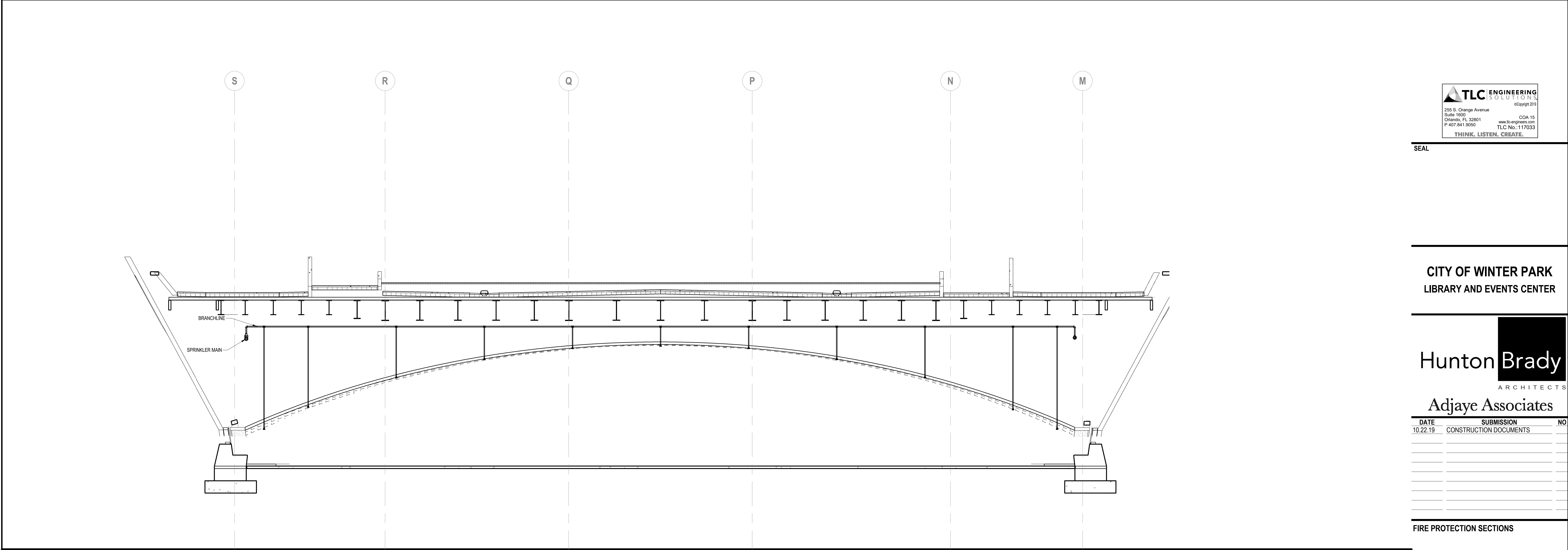
1/8" = 1'-0"



1 FIRE PROTECTION SECTION(LIBRARY)
3/16" = 1'-0"



3 FIRE PROTECTION SECTION(PORTE COCHERE)
3/16" = 1'-0"



2 FIRE PROTECTION SECTION(EVENT CENTER)
3/16" = 1'-0"

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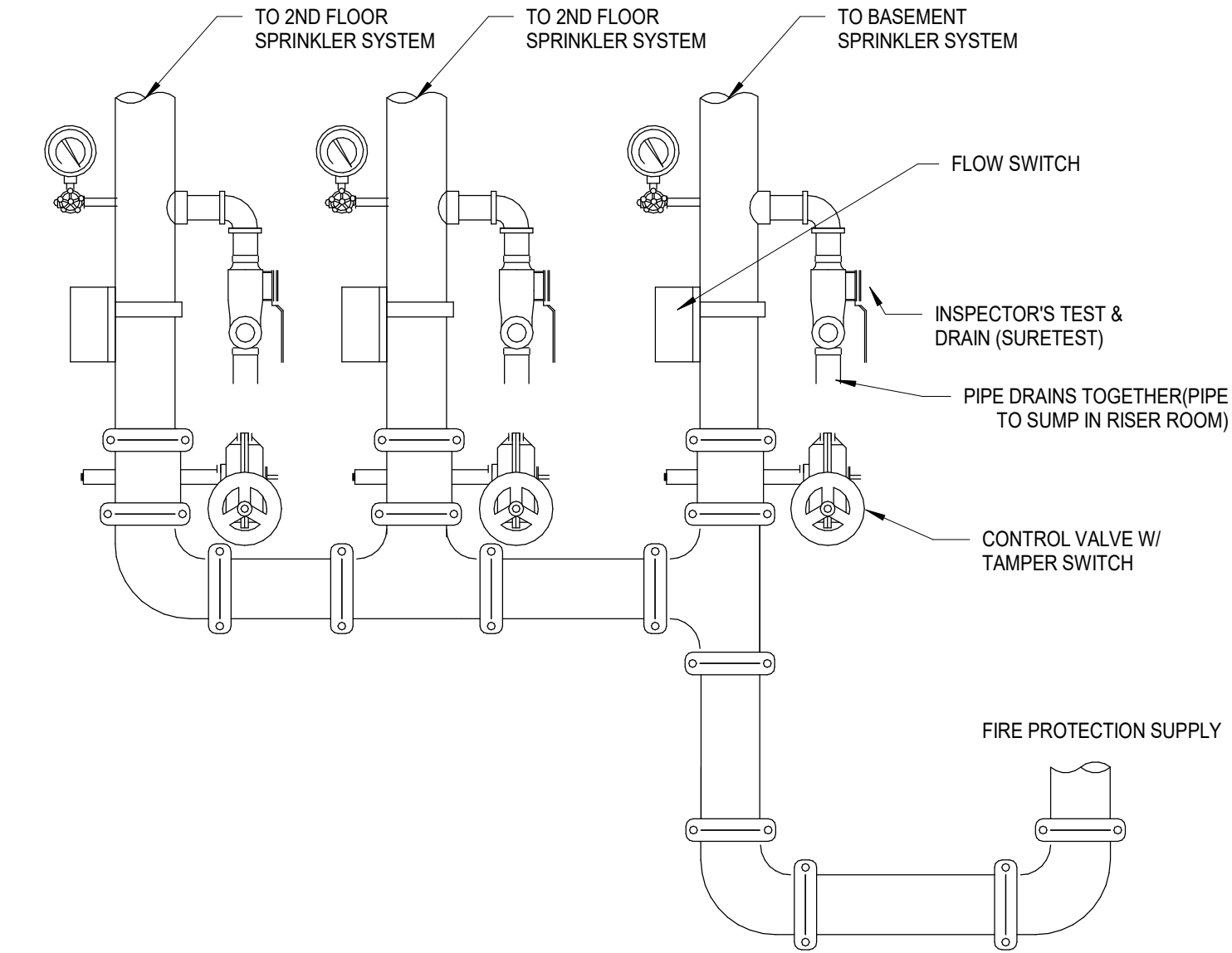
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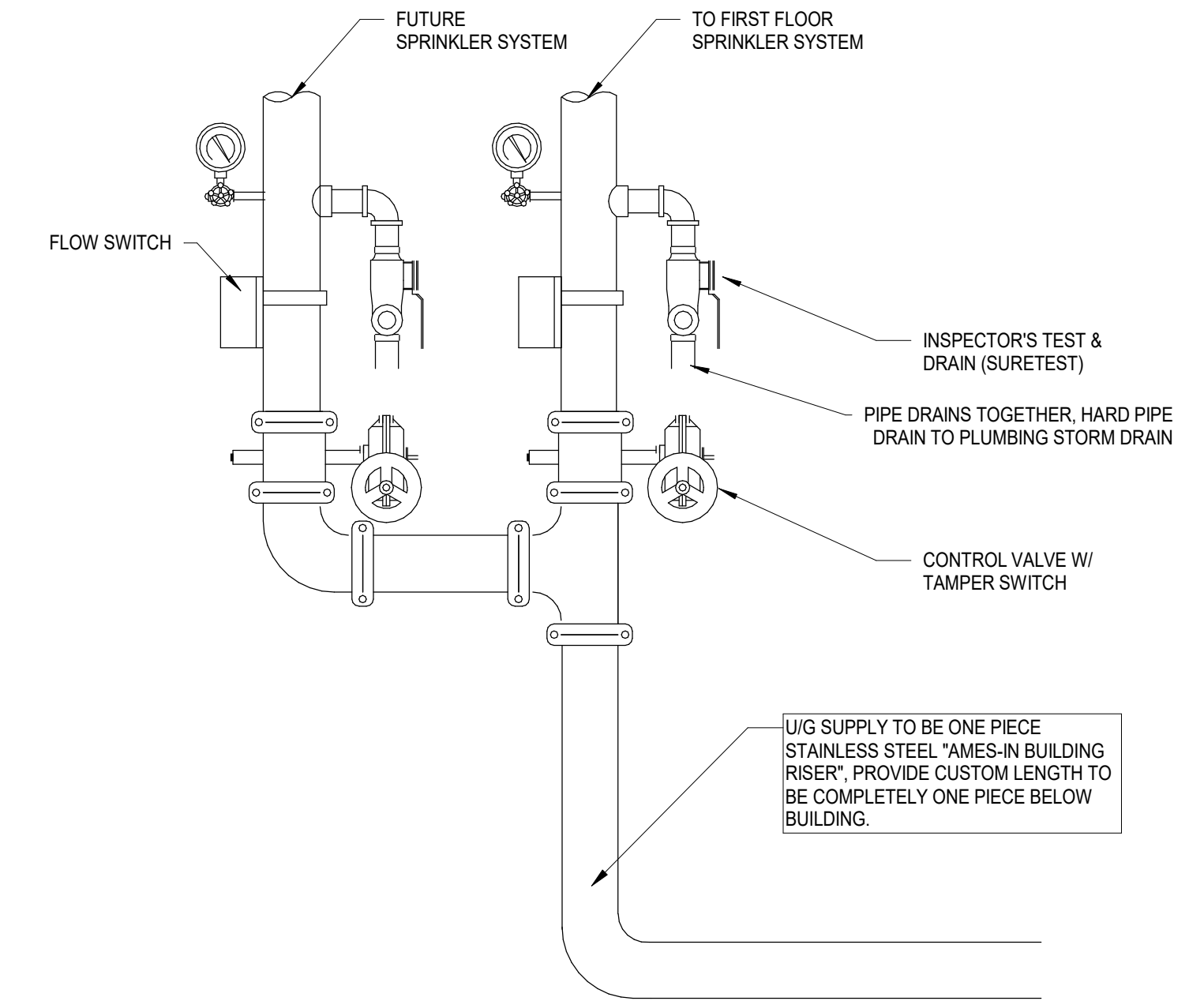
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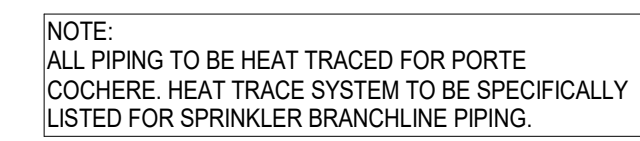


LIBRARY FP MAIN RISER
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EVENT CENTER SPRINKLER RISER

No Scale



PORTE COCHERE SPRINKLER RISER



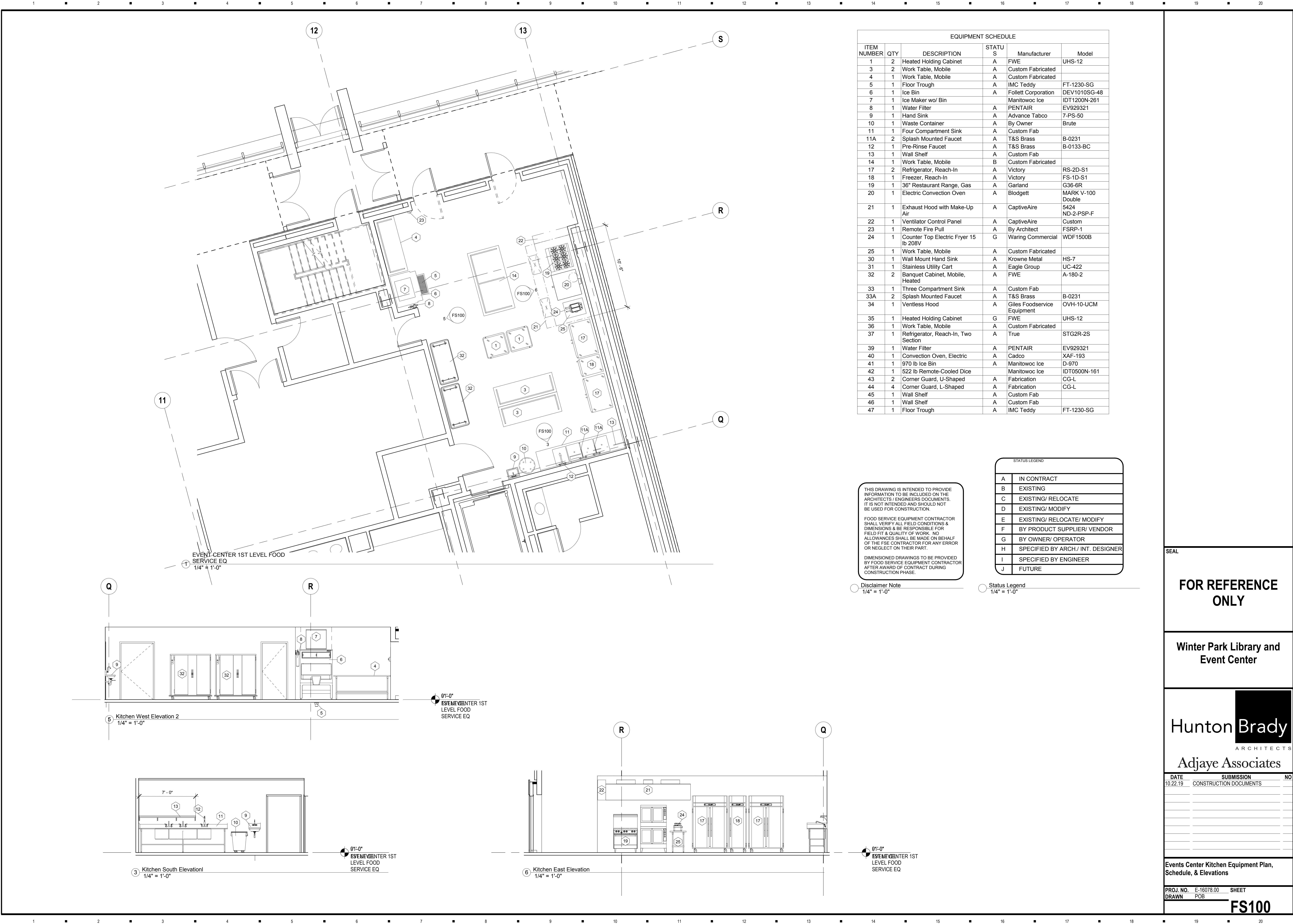
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FIRE PROTECTION DETAILS

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EQUIPMENT SCHEDULE					
ITEM NUMBER	QTY	DESCRIPTION	STATUS	Manufacturer	Model
1	2	Heated Holding Cabinet	A	FWE	UHS-12
3	2	Work Table, Mobile	A	Custom Fabricated	
4	1	Work Table, Mobile	A	Custom Fabricated	
5	1	Floor Trough	A	IMC Teddy	FT-1230-SG
6	1	Ice Bin	A	Follett Corporation	DEV1010SG-48
7	1	Ice Maker w/o Bin	A	Manitowoc Ice	IDT1200N-261
8	1	Water Filter	A	PENTAIR	EV929321
9	1	Hand Sink	A	Advance Tabco	7-PS-50
10	1	Waste Container	A	By Owner	Brute
11	1	Four Compartment Sink	A	Custom Fab	
11A	2	Splash Mounted Faucet	A	T&S Brass	B-0231
12	1	Pre-Rinse Faucet	A	T&S Brass	B-0133-BC
13	1	Wall Shelf	A	Custom Fab	
14	1	Work Table, Mobile	B	Custom Fabricated	
17	2	Refrigerator, Reach-In	A	Victory	RS-2D-S1
18	1	Freezer, Reach-In	A	Victory	FS-1D-S1
19	1	36" Restaurant Range, Gas	A	Garland	G36-6R
20	1	Electric Convection Oven	A	Blodgett	MARK V-100 Double
21	1	Exhaust Hood with Make-Up Air	A	CaptiveAire	5424 ND-2-PSP-F
22	1	Ventilator Control Panel	A	CaptiveAire	Custom
23	1	Remote Fire Pull	A	By Architect	FSRP-1
24	1	Counter Top Electric Fryer 15 lb 208V	G	Waring Commercial	WDF1500B
25	1	Work Table, Mobile	A	Custom Fabricated	
30	1	Wall Mount Hand Sink	A	Krowne Metal	HS-7
31	1	Stainless Utility Cart	A	Eagle Group	UC-422
32	2	Banquet Cabinet, Mobile, Heated	A	FWE	A-180-2
33	1	Three Compartment Sink	A	Custom Fab	
33A	2	Splash Mounted Faucet	A	T&S Brass	B-0231
34	1	Ventless Hood	A	Giles Foodservice Equipment	OVH-10-UCM
35	1	Heated Holding Cabinet	G	FWE	UHS-12
36	1	Work Table, Mobile	A	Custom Fabricated	
37	1	Refrigerator, Reach-In, Two Section	A	True	STG2R-2S
39	1	Water Filter	A	PENTAIR	EV929321
40	1	Convection Oven, Electric	A	Cadco	XAF-193
41	1	970 lb Ice Bin	A	Manitowoc Ice	D-970
42	1	522 lb Remote-Cooled Dice	A	Manitowoc Ice	IDT0500N-161
43	2	Corner Guard, U-Shaped	A	Fabrication	CG-L
44	4	Corner Guard, L-Shaped	A	Fabrication	CG-L
45	1	Wall Shelf	A	Custom Fab	
46	1	Wall Shelf	A	Custom Fab	
47	1	Floor Trough	A	IMC Teddy	FT-1230-SG

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Disclaimer Note
1/4" = 1'-0"

STATUS LEGEND	
A	IN CONTRACT
B	EXISTING
C	EXISTING/ RELOCATE
D	EXISTING/ MODIFY
E	EXISTING/ RELOCATE/ MODIFY
F	BY PRODUCT SUPPLIER/ VENDOR
G	BY OWNER/ OPERATOR
H	SPECIFIED BY ARCH/ INT. DESIGNER
I	SPECIFIED BY ENGINEER
J	FUTURE

Status Legend
1/4" = 1'-0"

SEAL

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Winter Park Library and Event Center

Hunton Brady
ARCHITECTS
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DATE	SUBMISSION	NO
10.22.19	CONSTRUCTION DOCUMENTS	

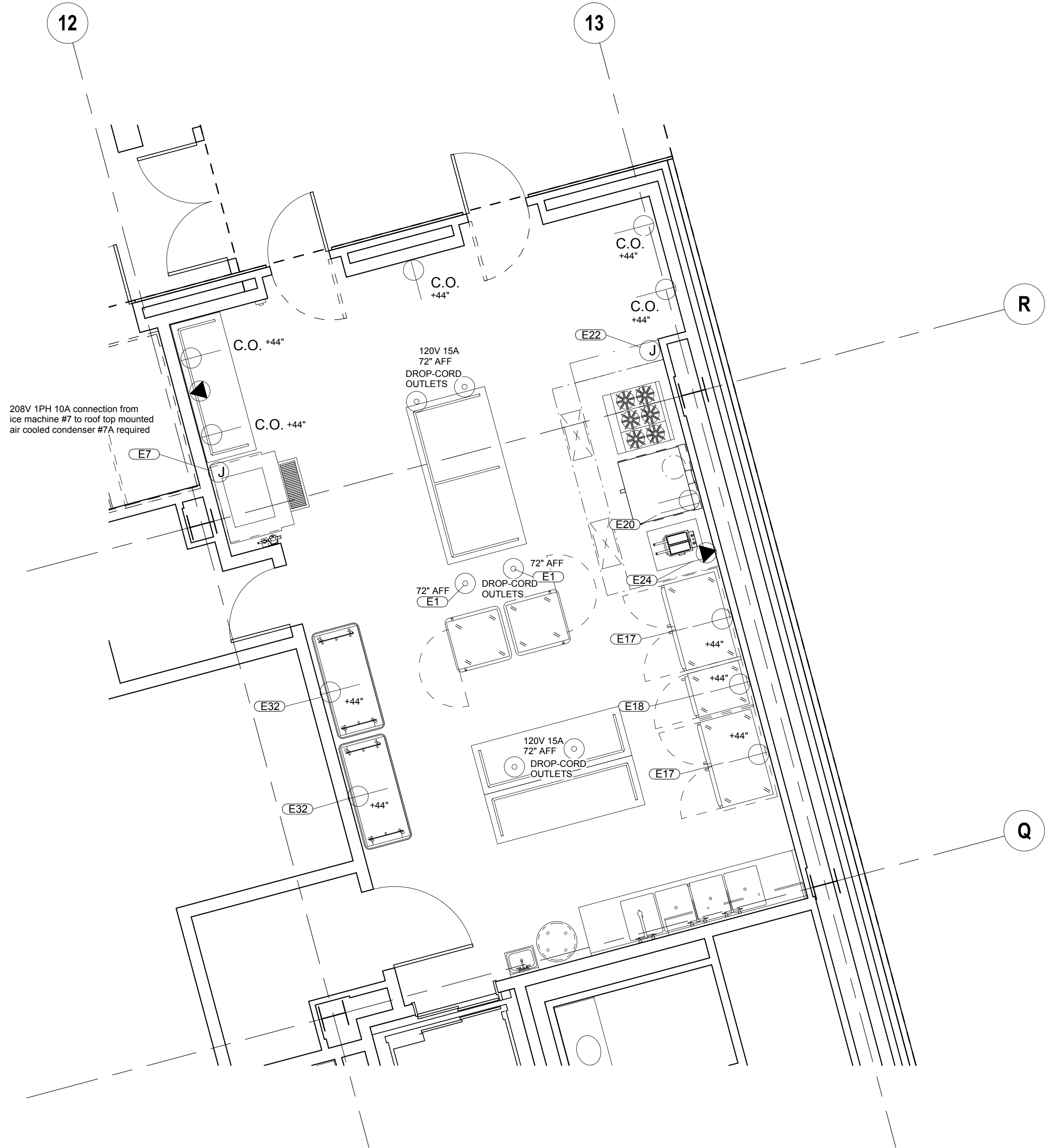
Events Center Kitchen Equipment Plan, Schedule, & Elevations

PROJ. NO.	E-16078.00	SHEET
DRAWN	POB	

FS100

ELECTRICAL CONNECTION LEGEND	
	DUPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
	SIMPLEX RECEPT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
	SPECIAL PURPOSE OUTLET, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNT
	SPECIAL PURPOSE OUTLET, 120/208-VOLT, AS INDICATED, GROUND TYPE, HORIZONTAL MOUNT
	JUNCTION BOX WITH CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION
	DROP CORD WITH TWIST LOCK
	STUB-UP/ DFA MAIN FEED AS INDICATED. TERMINATES AS JUNCTION BOX (SEE ABOVE).
	J-BOX DATA
	FIELD WIRING
	SAFETY DISCONNECT SWITCH (SDS)
	TELEPHONE JACK
	SWITCH
	MANUAL PULL (FIRE SUPPRESSION SYSTEM)
	ABOVE FINISHED FLOOR
	DOWN FROM ABOVE
	BRANCH TO CONNECTION
	CONVENIENCE OUTLET
	ELECTRICAL CONTRACTOR
	NOT IN CONTRACT

Electrical Legend
1/4" = 1'-0"



EVENT CENTER 1ST LEVEL FOOD SERVICE ELECTRICAL
1/4" = 1'-0"

ELECTRICAL NOTES	
1.	ELECTRICAL PLAN SHOWS ROUGH-IN AND CONNECTION LOCATIONS WITH CAPACITIES - SEE ROUGH-IN DRAWINGS FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR FOR ACTUAL ROUGH-IN LOCATIONS
2.	ELECTRICAL SYSTEM IS DESIGNED FOR ____ VOLTS, ____ PHASE, ____ HERTZ, ____ WIRE SYSTEM.
3.	DIVISION 26 SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED.
4.	ALL CONDUIT RUNS INDICATED FOR REFRIGERATION, DRINK AND LIQUOR SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY DIVISION 26 - CONDUIT SHALL HAVE 24" MINIMUM RADIUS BENDS. REFER TO BUILDING WORKS PLAN FOR ROUTING AND DETAILS.
5.	DIVISION 26 TO FURNISH & INSTALL SAFETY DISCONNECT SWITCHES WHERE REQUIRED. REFER TO ELECTRICAL SCHEDULE & CONTRACT DOCUMENTS. SDS TO BE SIS OR ALUMINUM.
6.	FSE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WORK FOR FABRICATED EQUIPMENT ITEMS (CHEF'S COUNTER, TABLES, ETC.) AS NOTED. COMPLETE WITH JUNCTION BOXES, CONDUIT, SURFACE MOUNTED ELECTRIC BOXES, COVER PLATES, ELECTRIC RACEWAYS AND CIRCUIT BREAKER PANEL, WHEN SPECIFIED. DIVISION 26 SHALL PULL WIRING AND MAKE FINAL CONNECTION.
7.	FOOD SERVICE EQUIPMENT CONTRACTOR SHALL FURNISH & INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS - INTERCONNECTING CONDUIT, WIRING AND WALL SWITCH FURNISHED AND INSTALLED BY DIVISION 26.
8.	ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS SHALL BE LOCATED BY THE ARCHITECT.
9.	FOOD SERVICE EQUIPMENT CONTRACTOR SHALL FURNISH & INSTALL DISPOSER SWITCH - DIVISION 26 SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT AND WIRING BETWEEN SWITCH AND DISPOSER AND COMPONENTS.
10.	DIVISION 26 TO FURNISH & INSTALL ALL INTERCONNECTING CONDUIT & WIRING BETWEEN MICROSWITCH FURNISHED WITH FIRE SUPPRESSION SYSTEM SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR. CONTRACTORS FURNISHED BY DIVISION 26.
11.	DIVISION 26 TO FURNISH & INSTALL SHUNT TRIP TYPE BREAKER DISCONNECT TO FOOD SERVICE EQUIPMENT UNDERNEATH EXHAUST VENTILATOR. COORDINATE SHUNT TRIP BREAKER REQUIREMENTS WITH FOOD SERVICE EQUIPMENT CONTRACTOR.
12.	DIVISION 26 TO FURNISH & INSTALL INTERCONNECTION CONDUIT AND WIRING (2 WIRE 24 VDC) BETWEEN ALARM PANEL AND COLD STORAGE ROOM ALARM THERMOSTAT - PANEL AND THERMOSTAT FURNISHED AND INSTALLED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
13.	PRE - FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS - DIVISION 26 TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING, SEAL - OFFS, SEALANT AND MAKE ALL FINAL CONNECTIONS.
14.	DIVISION 26 TO FURNISH & INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN FOOD SERVICE EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.
15.	DIVISION 26 TO FURNISH & INSTALL ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN FOOD SERVICE EQUIPMENT CONTRACTOR FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL BLOCK, ROOM THERMOSTAT, LIQUID LINE SOLENOID VALVE, FAN DOOR SWITCH/RELAY, EVAPORATOR COIL DRAIN LINE HEAT TAPE AND COMPRESSOR CONTROL PANEL.
16.	DIVISION 26 TO FURNISH & INSTALL EMPTY CONDUIT WITH J-BOXES FOR INSTALLATION OF OWNER SUPPLIED. ELECTRONIC CASH CONTROL SYSTEM. DIVISION 26 TO VERIFY INSTALLATION IN ACCORDANCE WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.

Electrical Notes
1/4" = 1'-0"

ELECTRICAL SCHEDULE												
ITEM NUMBER	QTY	DESCRIPTION	VOLTS	PHASE	FL AMPS	HP	WATTS	CONN PLUG	CON N	RI HT +AFF	EL CONN TYPE	REMARKS
1	2	Heated Holding Cabinet	120 V	1	11 A		1350 W	NEMA 5-15P		+72" AFF		Drop Cord from Ceiling
7	1	Ice Maker wo/ Bin	208 V	1	20 A		4160 W		No	+72"		
17	2	Refrigerator, Reach-In	115 V	1	11 A	1/3		NEMA 5-15P	No	+44"		
18	1	Freezer, Reach-In	115 V	1	9 A	1/3		NEMA 5-15P	No	+44"		
19	1	36" Restaurant Range, Gas	0 V	0	0 A					+30"		
20	1	Electric Convection Oven	208 V	1	51 A		10608 W		Yes	+44"		
21	1	Exhaust Hood with Make-Up Air	120 V	1	15 A				Yes	+108"	-	-
22	1	Ventilator Control Panel	120 V	1	10 A				Yes	+108"		
24	1	Counter Top Electric Fryer 15 lb 208V	208 V	1	16 A		3300 W		Yes	+44"	CORD/PLUG	
32	2	Banquet Cabinet, Mobile, Heated	120 V	1	9 A		1050 W	Nema 5-15p	Yes	+44"		
34	1	Ventless Hood	208 V	1	3 A					+108"	Cord & Plug	
35	1	Heated Holding Cabinet	120 V	1	11 A		1350 W	NEMA 5-15P		+44"		
37	1	Refrigerator, Reach-In, Two Section	115 V	1	9 A	1/2	1047 W	5-15P	Yes	+44"		
40	1	Convection Oven, Electric	208 V	1	23 A		59000 W	NEMA L6-30P	Yes			
42	1	522 lb Remote-Cooled Dice	115 V	1	20 A		2300 W		Yes	+72"		

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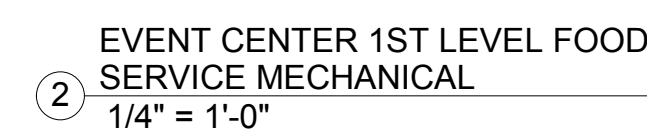
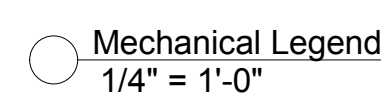
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DATE	SUBMISSION	NO
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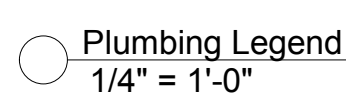
Events Center 1st Level Kitchen Electrical

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DRAWN Phil Bean

FS101

MECHANICAL CONNECTION SCHEDULE

PLUMBING SCHEDULE



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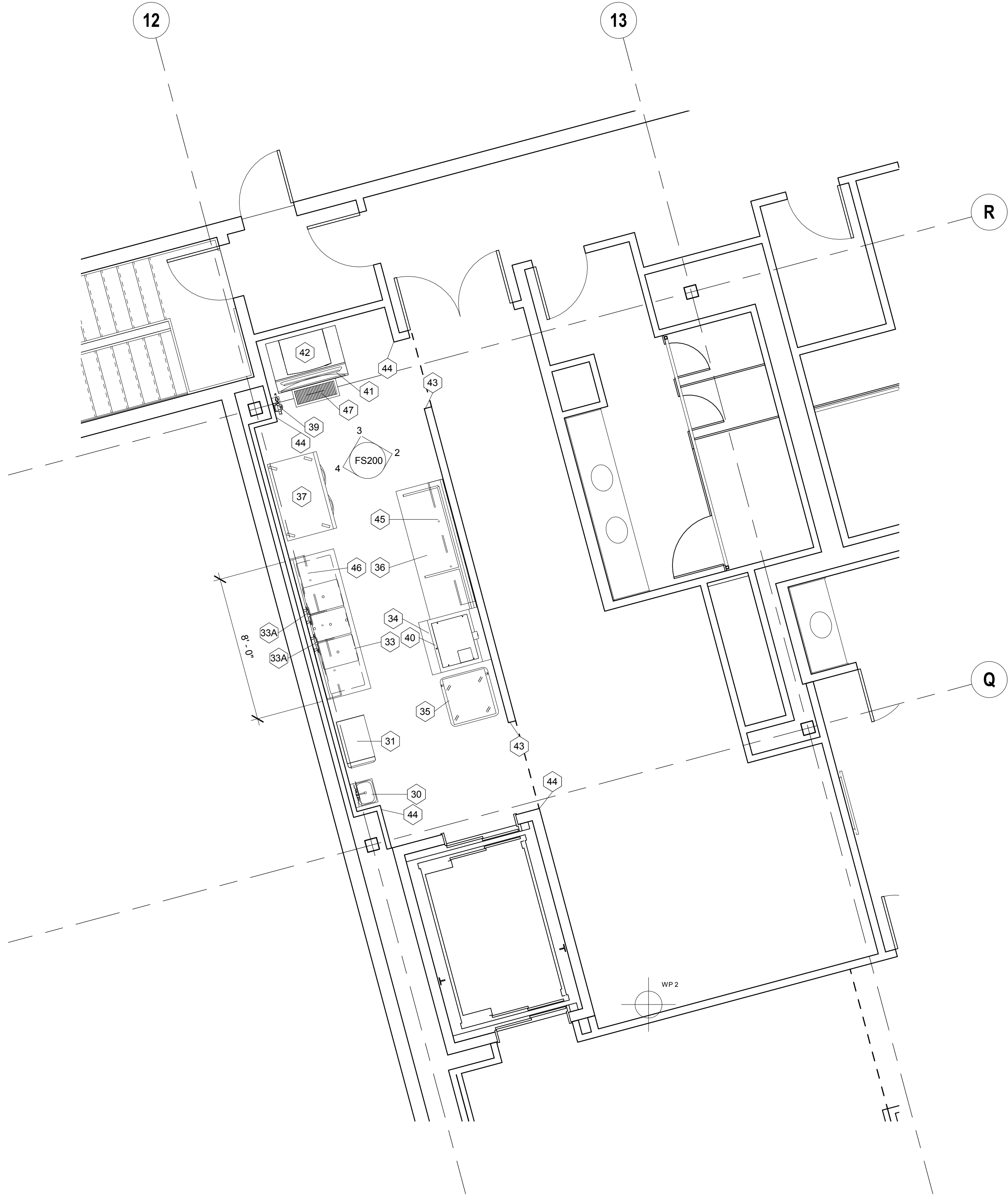
DIMENSIONED DRAWINGS TO BE PROVIDED BY FOOD SERVICE EQUIPMENT CONTRACTOR AFTER AWARD OF CONTRACT DURING CONSTRUCTION PHASE.

Disclaimer Note
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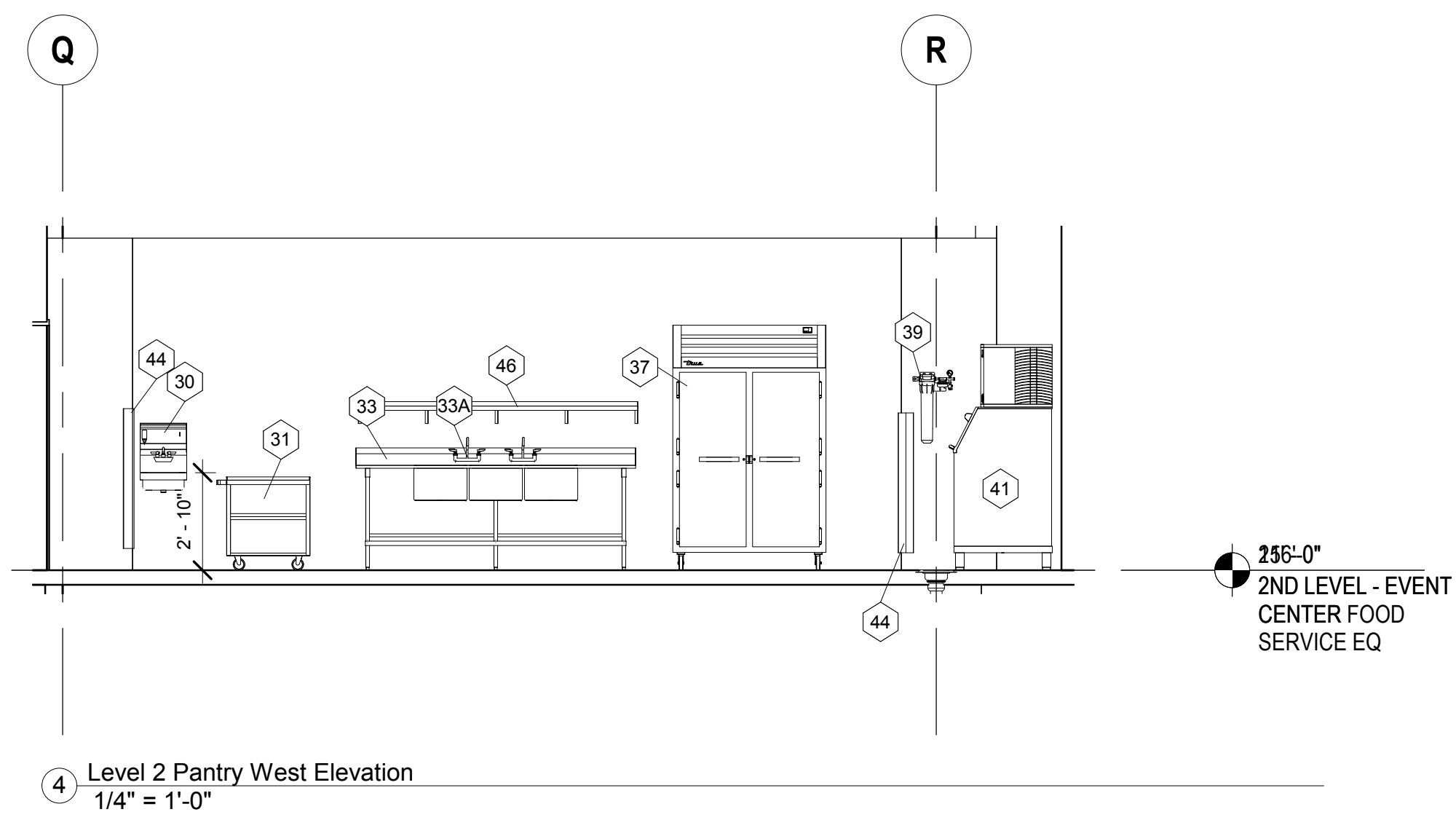
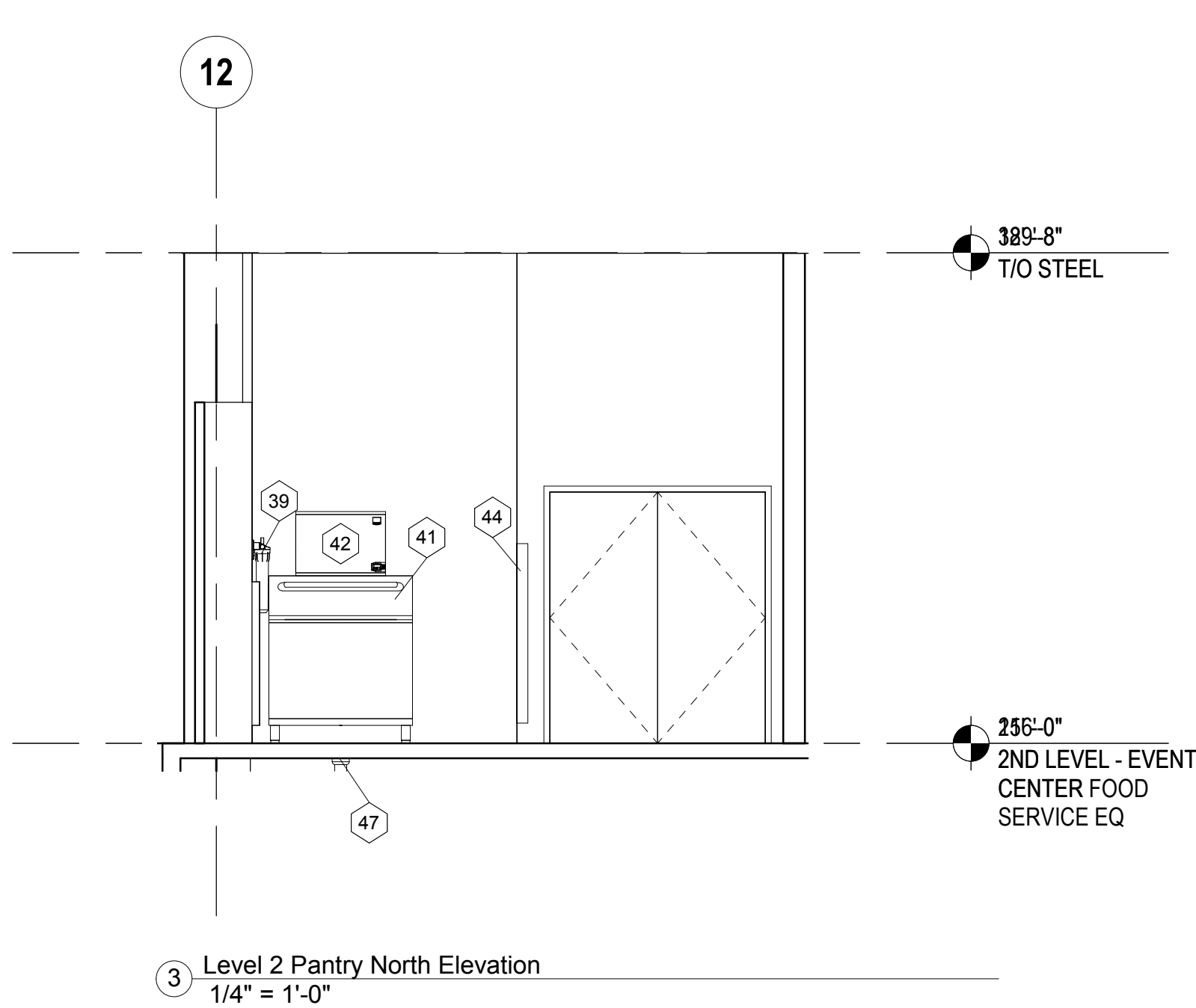
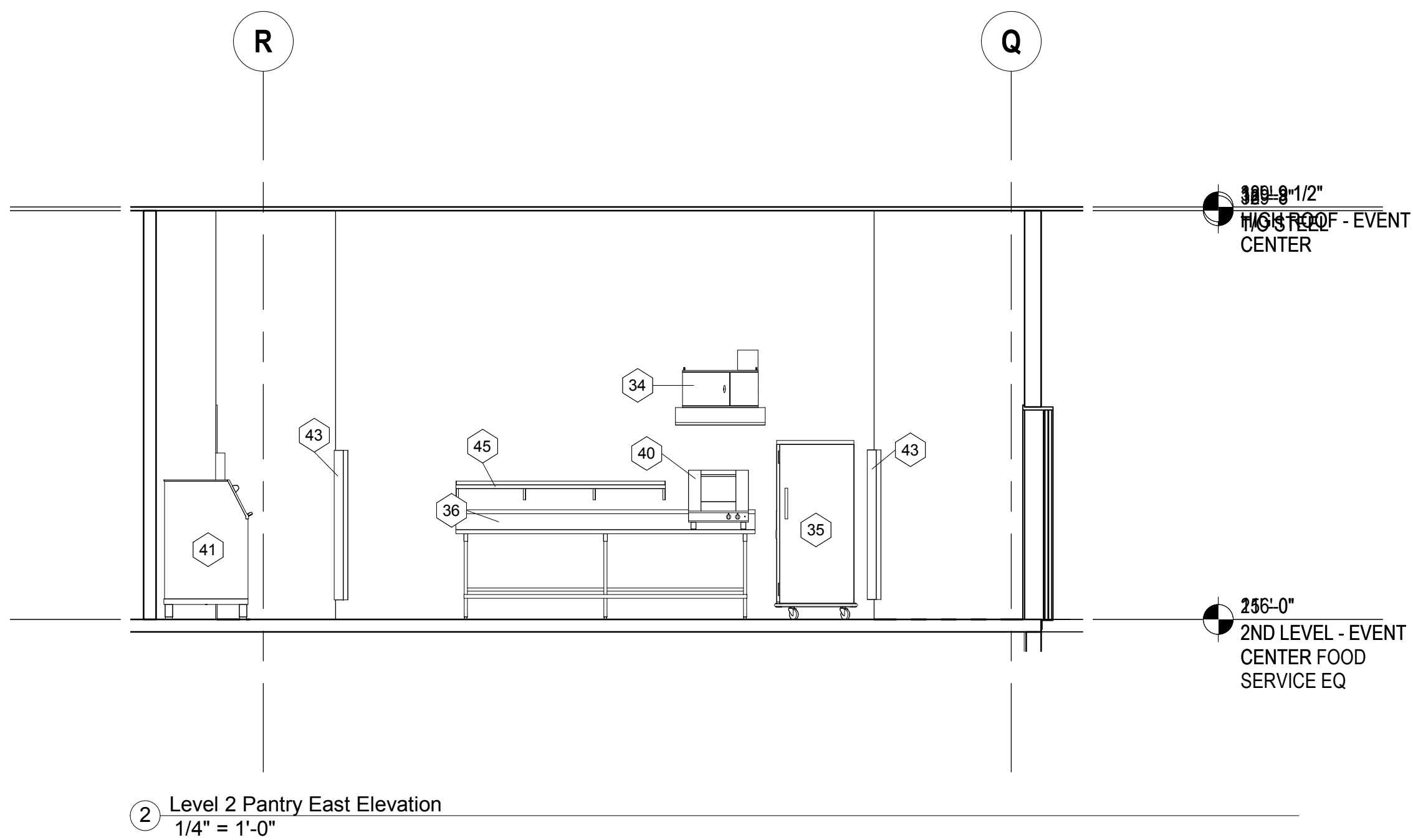
STATUS LEGEND

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H	SPECIFIED BY ARCH./ INT. DESIGNER
I	SPECIFIED BY ENGINEER
J	FUTURE

Status Legend
1/4" = 1'-0"



EQUIPMENT SCHEDULE				
ITEM NUMBER	QTY	DESCRIPTION	STATUS	Manufacturer / Model
1	2	Heated Holding Cabinet	A	FWE UHS-12
3	2	Work Table, Mobile	A	Custom Fabricated
4	1	Work Table, Mobile	A	Custom Fabricated
5	1	Floor Trough	A	IMC Teddy FT-1230-SG
6	1	Ice Bin	A	Follett Corporation DEV1010SG-48
7	1	Ice Maker w/ Bin	A	Manitowoc Ice IDT1200N-261
8	1	Water Filter	A	PENTAIR EV929321
9	1	Hand Sink	A	Advance Tabco 7-PS-50
10	1	Waste Container	A	By Owner Brute
11	1	Four Compartment Sink	A	Custom Fab
11A	2	Splash Mounted Faucet	A	T&S Brass B-0231
12	1	Pre-Rinse Faucet	A	T&S Brass B-0133-BC
13	1	Wall Shelf	A	Custom Fab
14	1	Work Table, Mobile	B	Custom Fabricated
17	2	Refrigerator, Reach-In	A	Victory RS-2D-S1
18	1	Freezer, Reach-In	A	Victory FS-1D-S1
19	1	36" Restaurant Range, Gas	A	Garland G36-6R
20	1	Electric Convection Oven	A	Blodgett MARK V-100 Double
21	1	Exhaust Hood with Make-Up Air	A	CaptiveAir 5424 ND-2-PSP-F
22	1	Ventilator Control Panel	A	CaptiveAir Custom
23	1	Remote Fire Pull	A	By Architect FSRP-1
24	1	Counter Top Electric Fryer 15 lb 208V	G	Waring Commercial WDF1500B
25	1	Work Table, Mobile	A	Custom Fabricated
30	1	Wall Mount Hand Sink	A	Krowne Metal HS-7
31	1	Stainless Utility Cart	A	Eagle Group UC-422
32	2	Banquet Cabinet, Mobile, Heated	A	FWE A-180-2
33	1	Three Compartment Sink	A	Custom Fab
33A	2	Splash Mounted Faucet	A	T&S Brass B-0231
34	1	Ventless Hood	A	Giles Foodservice Equipment OVH-10-UCM
35	1	Heated Holding Cabinet	G	FWE UHS-12
36	1	Work Table, Mobile	A	Custom Fabricated
37	1	Refrigerator, Reach-In, Two Section	A	True STG2R-2S
39	1	Water Filter	A	PENTAIR EV929321
40	1	Convection Oven, Electric	A	Cadco XAF-193
41	1	970 lb Ice Bin	A	Manitowoc Ice D-970
42	1	522 lb Remote-Cooled Dice	A	Manitowoc Ice IDT0500N-161
43	2	Corner Guard, U-Shaped	A	Fabrication CG-L
44	4	Corner Guard, L-Shaped	A	Fabrication CG-L
45	1	Wall Shelf	A	Custom Fab
46	1	Wall Shelf	A	Custom Fab
47	1	Floor Trough	A	IMC Teddy FT-1230-SG



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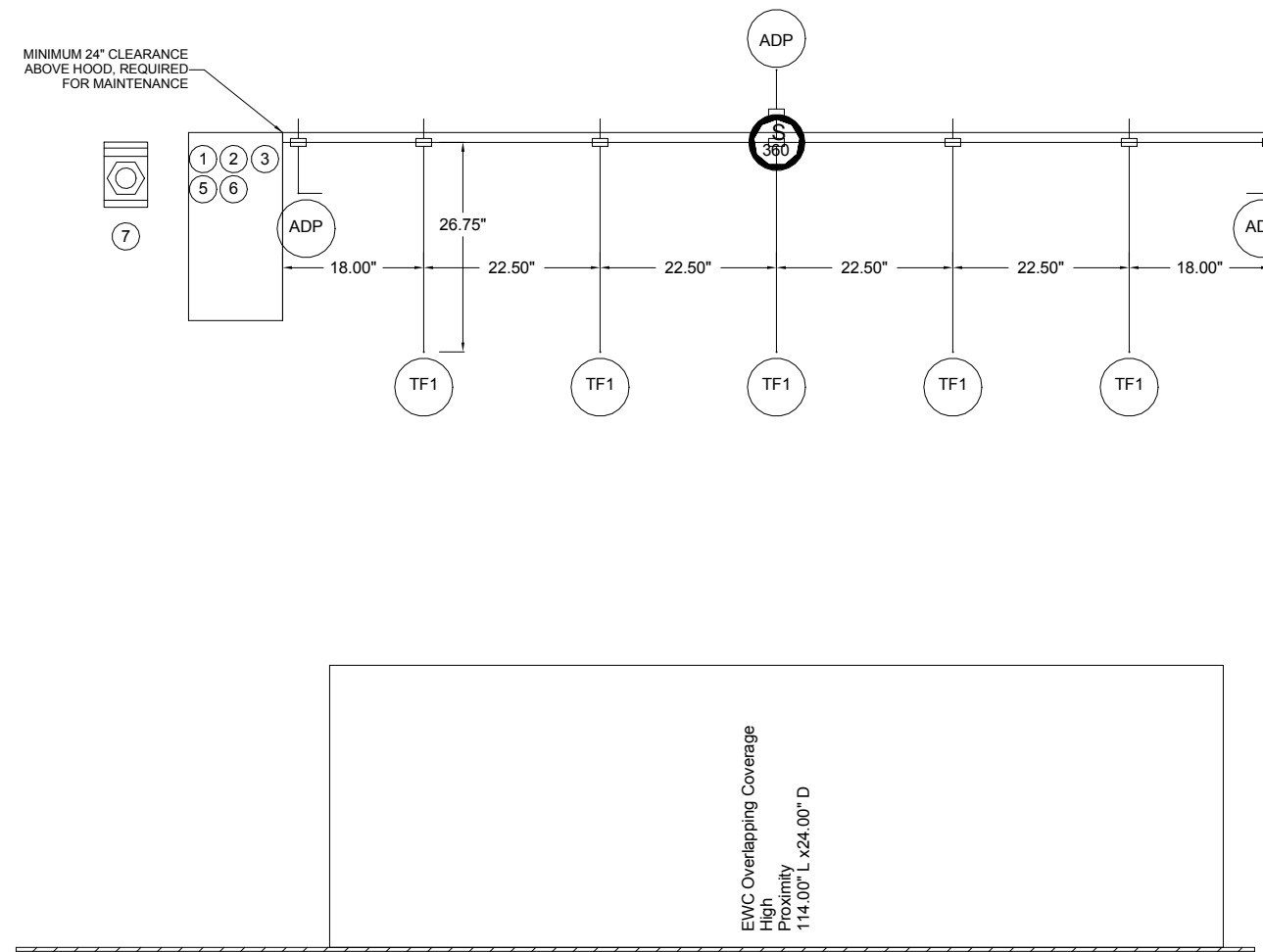
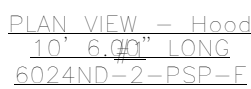
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Events Center Level 2 Equipment Plan, Schedule, & Elevations

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FS200

Fire System Information						
FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Cas Electric Wet Chemical	4.0/4.0/4.0	13	Fire Cabinet Left	Left



Job #: 3074668
Job Name: WINTER PARK LIBRARY EWC

System Size: CAS-5EW-SP-3 Total Pkgs: Required: 13
Head 1' 10" 0.6" Long x Wide 12" 2" High
Riser R 1 Size: 14" Dia.

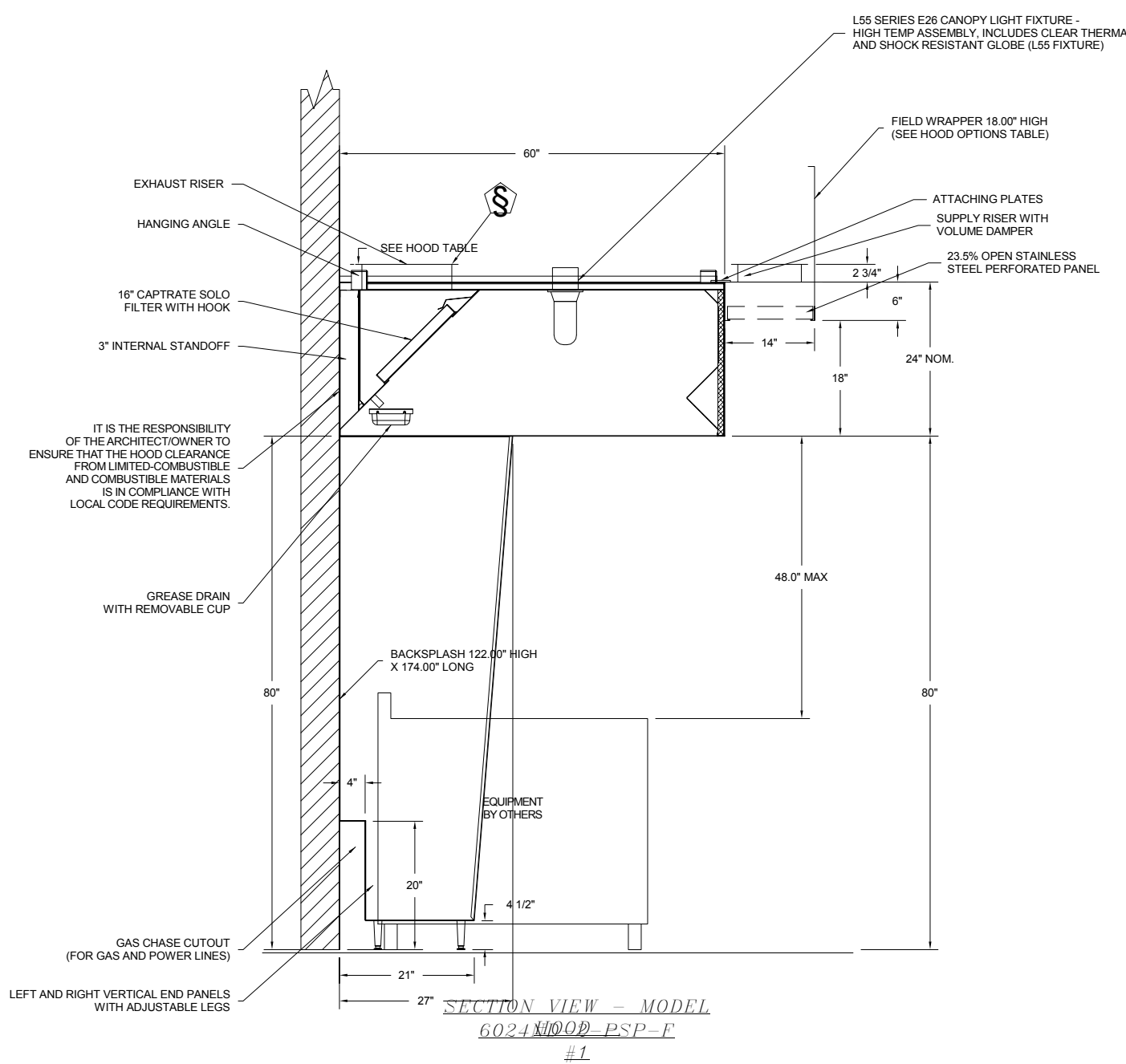
- SOLID-FUEL APPLIANCES (EXTRA HEAVY-DUTY RATED 700°F) REQUIRE AN ADDITIONAL FUEL TANK AT THE END OF THE EXHAUST DUCT NEAR EXHAUST FAN IF THE DUCT IS MORE THAN 10' IN LENGTH. THE EXHAUST DUCT TRANSITION SECTION MUST BE 10' LONG.

- SOLID-FUEL APPLIANCES WHERE THE DUCTWORK EXCEEDS 50 FT IN LENGTH WILL REQUIRE A THIRD RISER, MOUNTED IN A SERVICEABLE LOCATION, IDEALLY AT THE END OF THE EXHAUST DUCT. CONSIDER CONSULTING AN ENGINEERING ON DUCT LENGTHS OVER 100 FT.

- HEAVY-DUTY APPLIANCES (RATED 500°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM RISER AT THE EVENT THE EXHAUST DUCT CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.

- LIGHT-DUTY DUCT APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

1	4 GALLON TANK
2	PRIMARY ACTUATOR RELEASE
3	SECONDARY ACTUATOR RELEASE
4	PRESSURE SUPERVISION SWITCH
5	PRIMARY HOSE ASSEMBLY
6	SECONDARY HOSE ASSEMBLY
7	REMOTE MANUAL ACTUATION DEVICE
TF1	NOZZLE ASSEMBLY (TF1)
ADP	NOZZLE ASSEMBLY (ADP)
S	SWIVEL ADAPTER



① Mechanical Details 1
1/2" = 1'-0"

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Food Service Mechanical Details

PROJ. NO.	E-16078.00	SHEET
DRAWN	NL/ST	

FS202



CITY OF WINTER PARK

LIBRARY AND EVENTS CENTER

1050 W. MORSE BOULEVARD
WINTER PARK, FLORIDA 32890
HUNTON BRADY PROJECT NO.E - 16078.00



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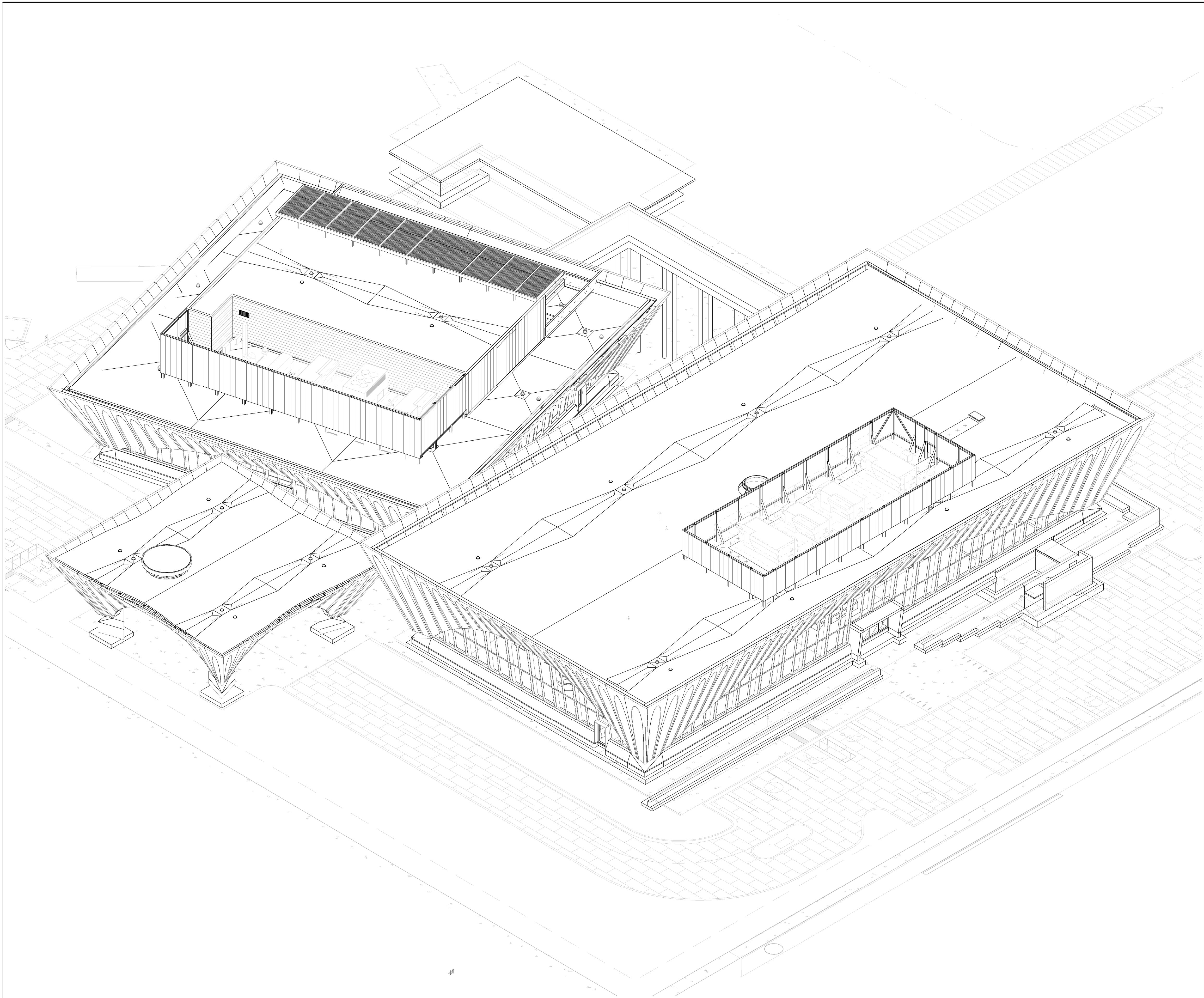
VICINITY MAP



LEGAL DESCRIPTION

A PORTION OF LAKE ISLAND ESTATES, AS RECORDED IN PLAT BOOK M, PAGE 95, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; BEING MORE PARTICULARLY AS FOLLOWS:

ALL OF BLOCKS 3, 4, 6, 7, 8, 9, 11, 12 & 13, TOGETHER WITH THAT PORTION OF CURRIER AVENUE (A 50' WIDE PLATTED RIGHT-OF-WAY) BEING BOUNDED TO THE SOUTH BY THE EASTERLY EXTENSION OF THE SOUTHERLY LINE OF BLOCK 3, AND BOUNDED TO THE NORTH BY THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID BLOCK 9 AND THAT PORTION OF GORDON STREET (A 50' WIDE PLATTED RIGHT-OF-WAY) BEING BOUNDED TO THE WEST BY THE SOUTHERLY EXTENSION OF THE WESTERLY LINE OF BLOCK 9 AND BOUNDED TO THE EAST BY THE SOUTHERLY EXTENSION OF THE EAST LINE OF SAID BLOCK 9, AND THAT PORTION OF NEW ENGLAND AVENUE (A 50' WIDE PLATTED RIGHT-OF-WAY) BEING BOUNDED TO THE EAST BY THE SOUTHERLY EXTENSION OF THE EASTERLY LINE OF SAID BLOCK 11 AND BOUNDED TO THE WEST BY THE SOUTHERLY EXTENSION OF THE WESTERLY LINE OF SAID BLOCK 11 AND THAT PORTION OF LYMAN AVENUE (A 50' WIDE PLATTED RIGHT-OF-WAY) BEING BOUNDED TO THE EAST BY THE SOUTHERLY EXTENSION OF THE EAST LINE OF SAID BLOCK 7 AND BOUNDED TO THE WEST BY THE SOUTHERLY EXTENSION OF THE WESTERLY LINE OF SAID BLOCK 6 AND THAT PORTION OF WARD AVENUE (A 50' WIDE PLATTED RIGHT-OF-WAY) BEING BOUNDED TO THE SOUTH BY THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID BLOCK 4 AND BOUNDED TO THE NORTH BY THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID BLOCK 6.



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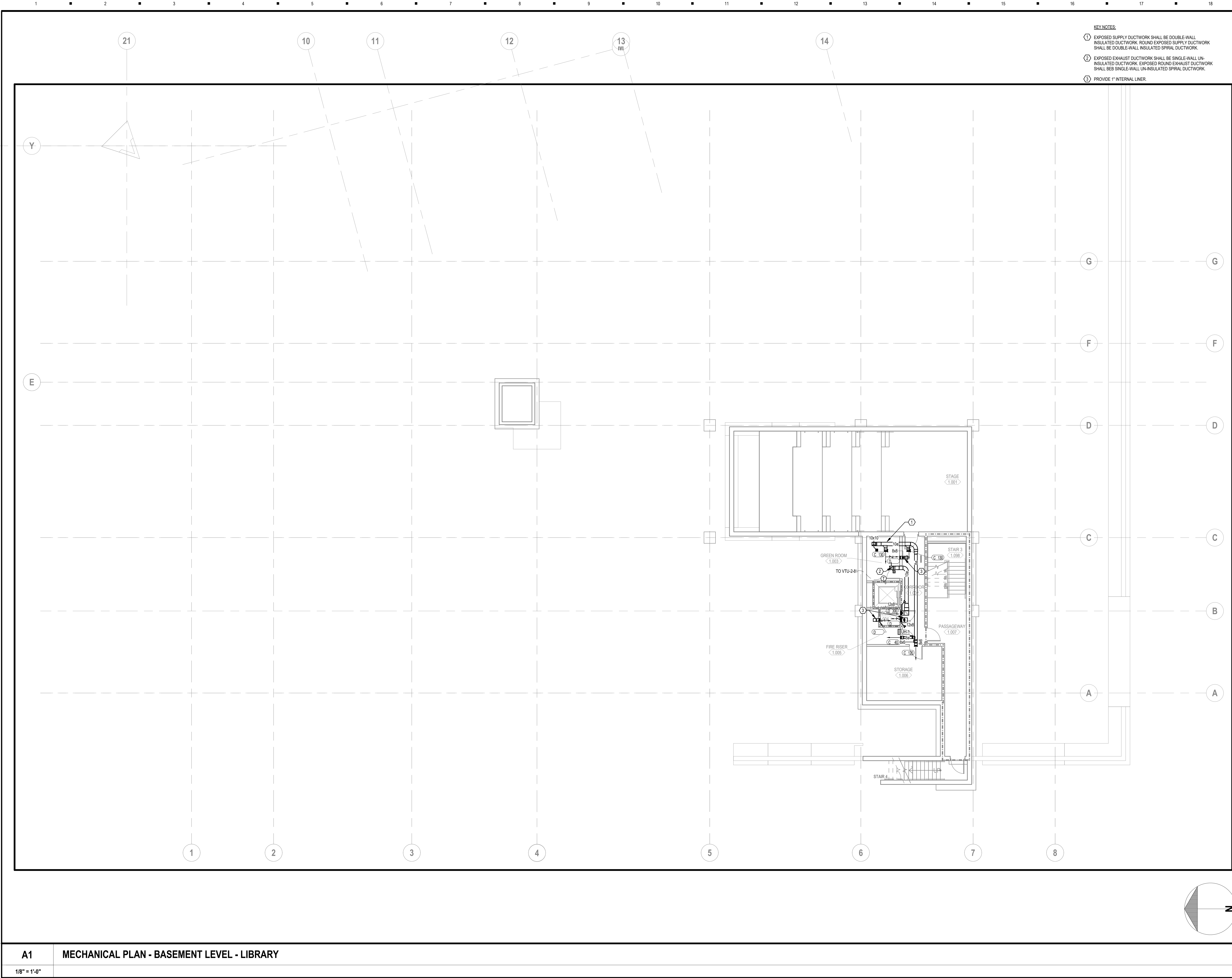
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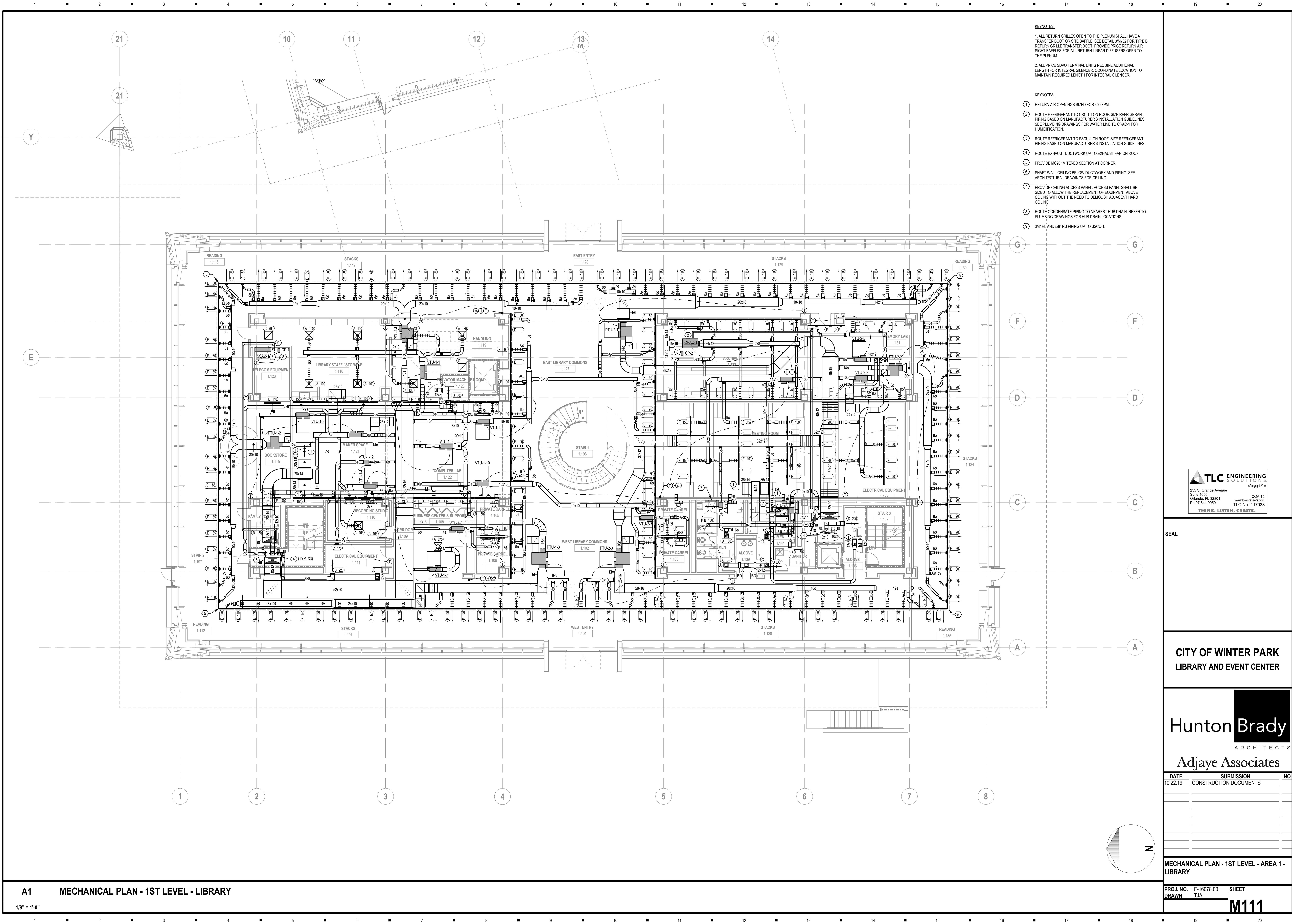
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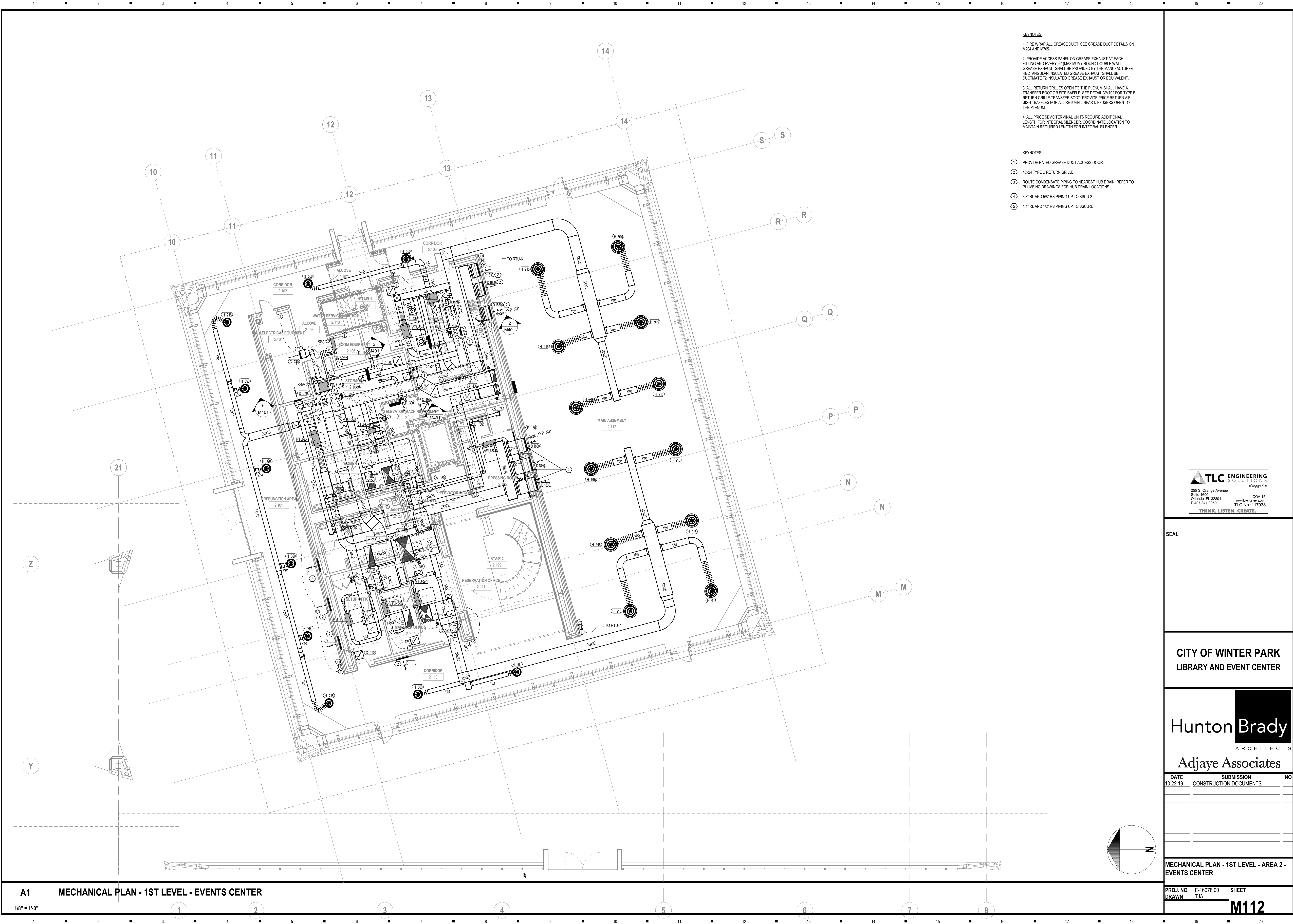
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**MECHANICAL PLAN - BASEMENT LEVEL -
AREA 1 - LIBRARY**

PROJ. NO. E-16078.00 SHEET
DRAWN TJA

M101





KEYNOTES:

1. FIRE WRAP ALL GREASE DUCT. SEE GREASE DUCT DETAILS ON M204 AND M705.
2. PROVIDE ACCESS PANEL ON GREASE EXHAUST AT EACH FITTING AND EVERY 20' (MAXIMUM), ROUND DOUBLE WALL GREASE EXHAUST SHALL BE PROVIDED BY THE MANUFACTURER. RECTANGULAR INSULATED GREASE EXHAUST SHALL BE DUCTIMATE F2 INSULATED GREASE EXHAUST OR EQUIVALENT.
3. ALL RETURN GRILLES OPEN TO THE PLENUM SHALL HAVE A TRANSFER BOOT OR SITE BAFFLE. SEE DETAIL 3M702 FOR TYPE B RETURN GRILLE TRANSFER BOOT. PROVIDE PRICE RETURN AIR SIGHT BAFFLES FOR ALL RETURN LINEAR DIFFUSERS OPEN TO THE PLENUM.
4. ALL PRICE SDOV TERMINAL UNITS REQUIRE ADDITIONAL LENGTH FOR INTEGRAL SILENCER. COORDINATE LOCATION TO MAINTAIN REQUIRED LENGTH FOR INTEGRAL SILENCER.

KEYNOTES:

- ① PROVIDE RATED GREASE DUCT ACCESS DOOR.
- ② 40x24 TYPE D RETURN GRILLE.
- ③ ROUTE CONDENSATE PIPING TO NEAREST HUB DRAIN. REFER TO PLUMBING DRAWINGS FOR HUB DRAIN LOCATIONS.
- ④ 3/8" RL AND 5/8" RS PIPING UP TO SSCU-2.
- ⑤ 1/4" RL AND 1/2" RS PIPING UP TO SSCU-3.

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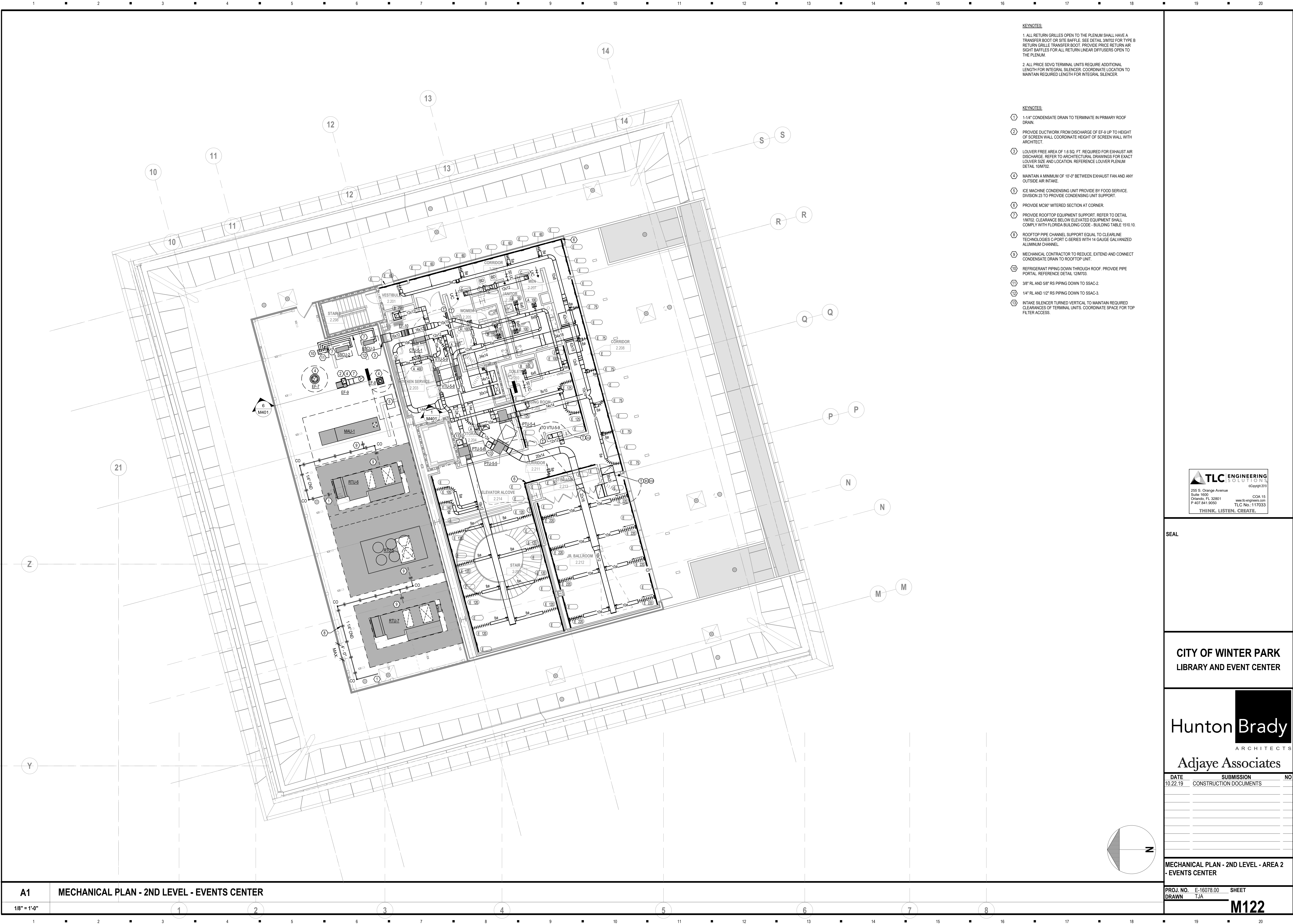
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DATE	SUBMISSION	NO
10.22.19	CONSTRUCTION DOCUMENTS	

MECHANICAL PLAN - 1ST LEVEL - AREA 2 -
EVENTS CENTER

PROJ. NO. E-16078.00 SHEET
DRAWN TJA

M112



KEYNOTES:

1. ALL RETURN GRILLES OPEN TO THE PLENUM SHALL HAVE A TRANSFER BOOT OR SITE BAFFLE. SEE DETAIL 3/M702 FOR TYPE B RETURN GRILLE TRANSFER BOOT. PROVIDE PRICE RETURN AIR SIGHT BAFFLES FOR ALL RETURN LINEAR DIFFUSERS OPEN TO THE PLENUM.

2. ALL PRICE SOVO TERMINAL UNITS REQUIRE ADDITIONAL LENGTH FOR INTEGRAL SILENCER. COORDINATE LOCATION TO MAINTAIN REQUIRED LENGTH FOR INTEGRAL SILENCER.

KEYNOTES:

① 1-1/4" CONDENSATE DRAIN TO TERMINATE IN PRIMARY ROOF DRAIN.

② PROVIDE DUCTWORK FROM DISCHARGE OF EF-6 UP TO HEIGHT OF SCREEN WALL. COORDINATE HEIGHT OF SCREEN WALL WITH ARCHITECT.

③ LOUVER FREE AREA OF 1.6 SQ. FT. REQUIRED FOR EXHAUST AIR DISCHARGE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOUVER SIZE AND LOCATION. REFERENCE LOUVER PLENUM DETAIL 10/M702.

④ MAINTAIN A MINIMUM OF 10'-0" BETWEEN EXHAUST FAN AND ANY OUTSIDE AIR INTAKE.

⑤ ICE MACHINE CONDENSING UNIT PROVIDE BY FOOD SERVICE. DIVISION 23 TO PROVIDE CONDENSING UNIT SUPPORT.

⑥ PROVIDE MC90° MITERED SECTION AT CORNER.

⑦ PROVIDE ROOFTOP EQUIPMENT SUPPORT. REFER TO DETAIL 1/M702. CLEARANCE BELOW ELEVATED EQUIPMENT SHALL COMPLY WITH FLORIDA BUILDING CODE - BUILDING TABLE 1510.10.

⑧ ROOFTOP PIPE CHANNEL SUPPORT EQUAL TO CLEARLINE TECHNOLOGIES C-PORT C-SERIES WITH 14 GAUGE GALVANIZED ALUMINUM CHANNEL.

⑨ MECHANICAL CONTRACTOR TO REDUCE, EXTEND AND CONNECT CONDENSATE DRAIN TO ROOFTOP UNIT.

⑩ REFRIGERANT PIPING DOWN THROUGH ROOF. PROVIDE PIPE PORTAL. REFERENCE DETAIL 12/M703.

⑪ 3/8" RL AND 5/8" RS PIPING DOWN TO SSAC-2.

⑫ 1/4" RL AND 1/2" RS PIPING DOWN TO SSAC-3.

⑬ INTAKE SILENCER TURNED VERTICAL TO MAINTAIN REQUIRED CLEARANCES OF TERMINAL UNITS. COORDINATE SPACE FOR TOP FILTER ACCESS.

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Hunton Brady
ARCHITECTS
Adjaye Associates

DATE	SUBMISSION	NO
10.22.19	CONSTRUCTION DOCUMENTS	

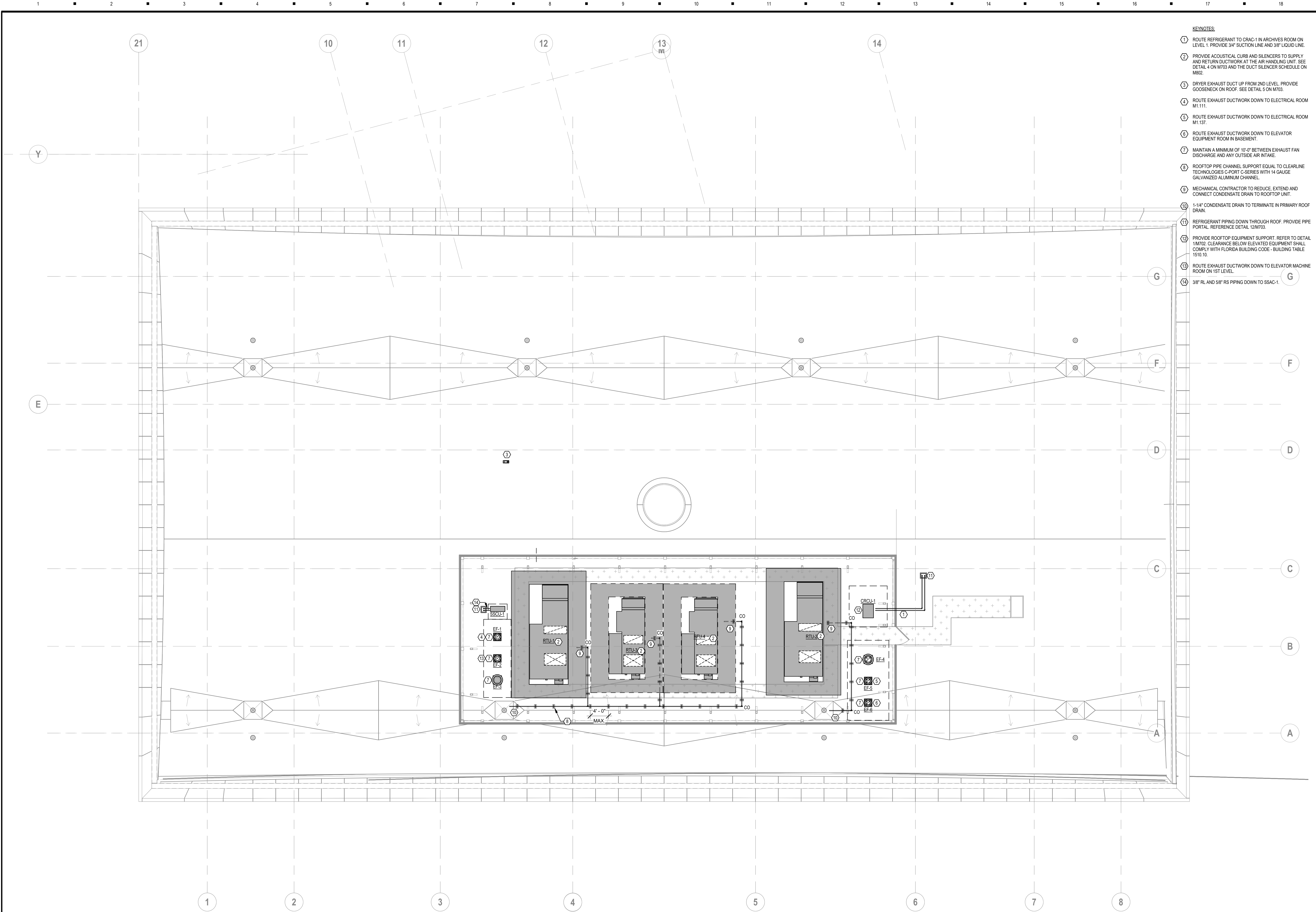
**MECHANICAL PLAN - 2ND LEVEL - AREA 2
- EVENTS CENTER**

PROJ. NO. E-16078.00 SHEET
DRAWN TJA

M122

A1 MECHANICAL PLAN - 2ND LEVEL - EVENTS CENTER

1/8" = 1'-0"



- KEYNOTES:**
- 1. ROUTE REFRIGERANT TO CRAC-1 IN ARCHIVES ROOM ON LEVEL 1. PROVIDE 3/4" SUCTION LINE AND 3/8" LIQUID LINE.
 - 2. PROVIDE ACOUSTICAL CURB AND SILENCERS TO SUPPLY AND RETURN DUCTWORK AT THE AIR HANDLING UNIT. SEE DETAIL 4 ON M703 AND THE DUCT SILENCER SCHEDULE ON M602.
 - 3. DRYER EXHAUST DUCT UP FROM 2ND LEVEL. PROVIDE GOOSENECK ON ROOF. SEE DETAIL 5 ON M703.
 - 4. ROUTE EXHAUST DUCTWORK DOWN TO ELECTRICAL ROOM M1.111.
 - 5. ROUTE EXHAUST DUCTWORK DOWN TO ELECTRICAL ROOM M1.137.
 - 6. ROUTE EXHAUST DUCTWORK DOWN TO ELEVATOR EQUIPMENT ROOM IN BASEMENT.
 - 7. MAINTAIN A MINIMUM OF 10'-0" BETWEEN EXHAUST FAN DISCHARGE AND ANY OUTSIDE AIR INTAKE.
 - 8. ROOFTOP PIPE CHANNEL SUPPORT EQUAL TO CLEARLINE TECHNOLOGIES C-PORT C-SERIES WITH 14 GAUGE GALVANIZED ALUMINUM CHANNEL.
 - 9. MECHANICAL CONTRACTOR TO REDUCE, EXTEND AND CONNECT CONDENSATE DRAIN TO ROOFTOP UNIT.
 - 10. 1-1/4" CONDENSATE DRAIN TO TERMINATE IN PRIMARY ROOF DRAIN.
 - 11. REFRIGERANT PIPING DOWN THROUGH ROOF. PROVIDE PIPE PORTAL. REFERENCE DETAIL 12/M703.
 - 12. PROVIDE ROOFTOP EQUIPMENT SUPPORT. REFER TO DETAIL 1/M702. CLEARANCE BELOW ELEVATED EQUIPMENT SHALL COMPLY WITH FLORIDA BUILDING CODE - BUILDING TABLE 1510.10.
 - 13. ROUTE EXHAUST DUCTWORK DOWN TO ELEVATOR MACHINE ROOM ON 1ST LEVEL.
 - 14. 3/8" RL AND 5/8" RS PIPING DOWN TO SSAC-1.

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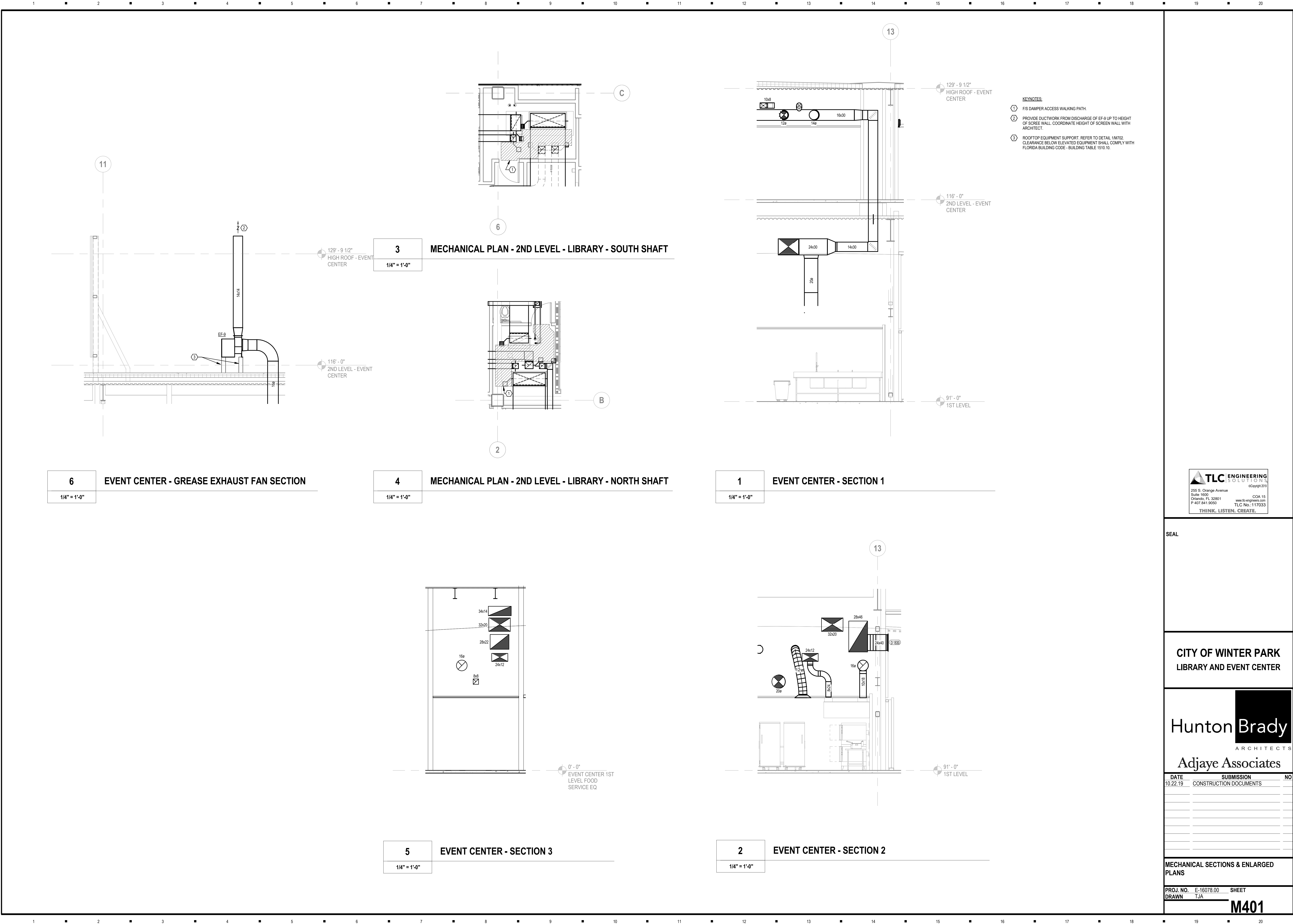
**MECHANICAL PLAN - ROOF LEVEL - AREA
1 - LIBRARY**

PROJ. NO. E-16078.00 SHEET
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M131

A1 MECHANICAL ROOF PLAN - LIBRARY

1/8" = 1'-0"



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MECHANICAL SECTIONS & ENLARGED PLANS

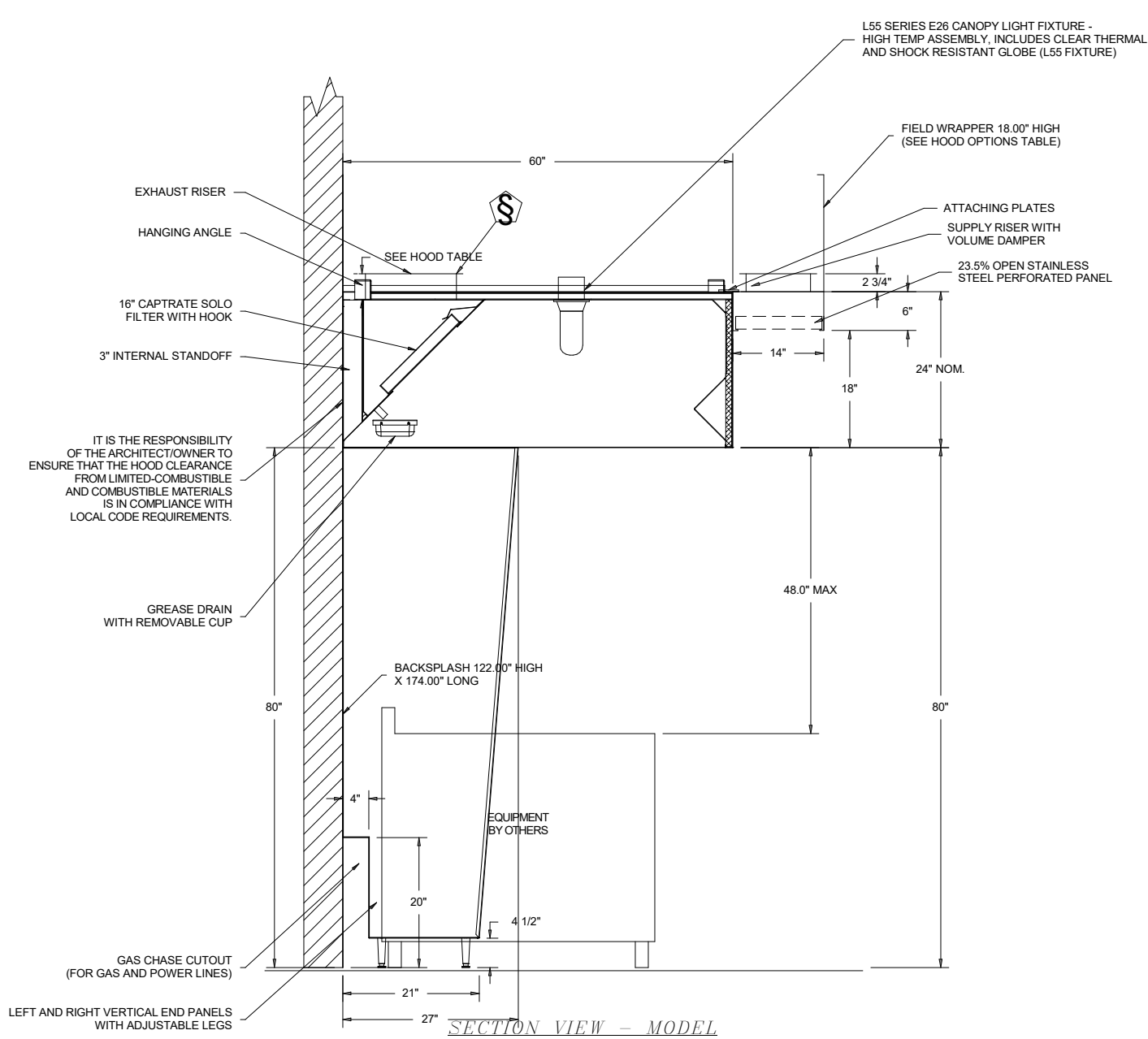
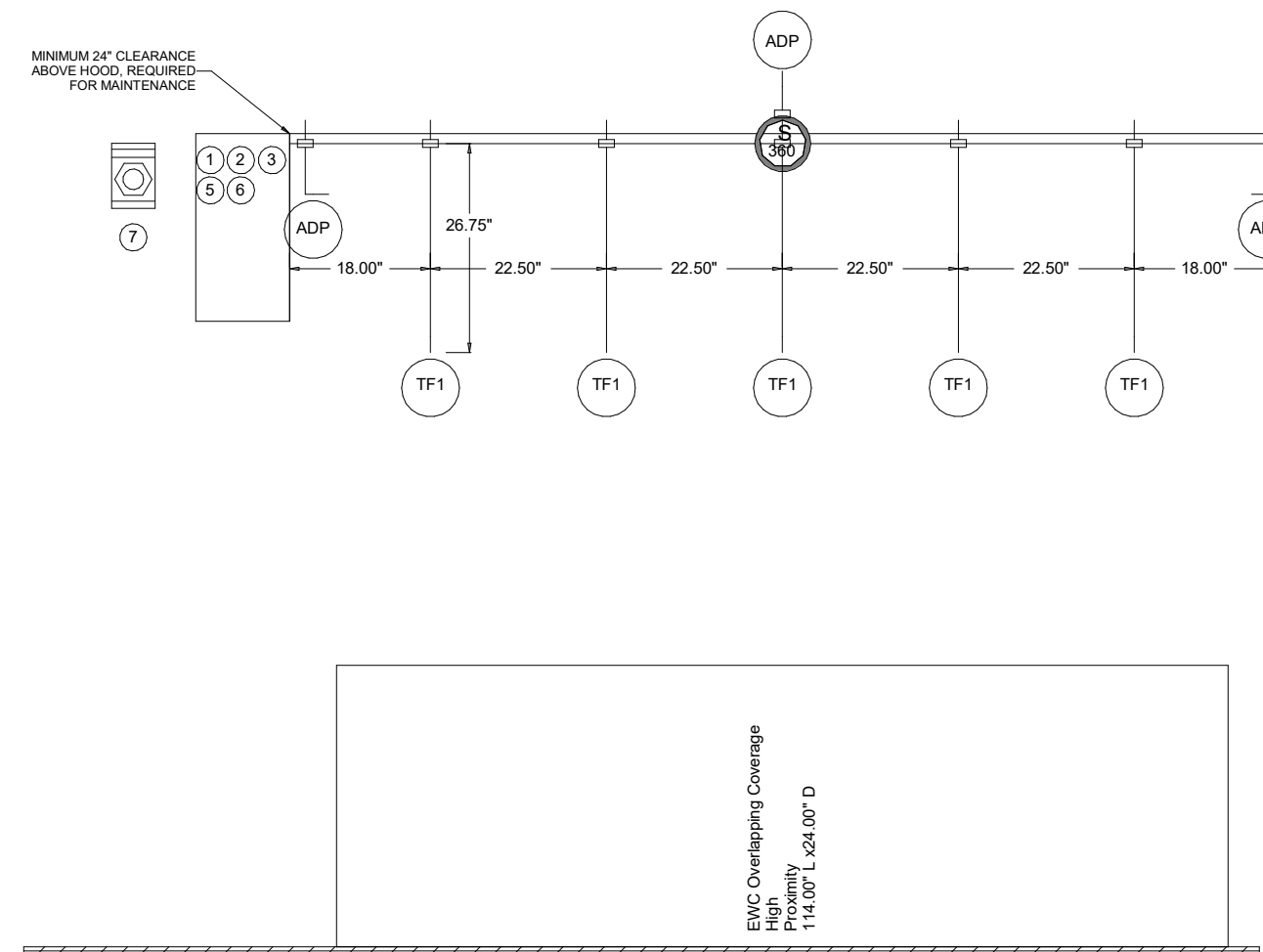
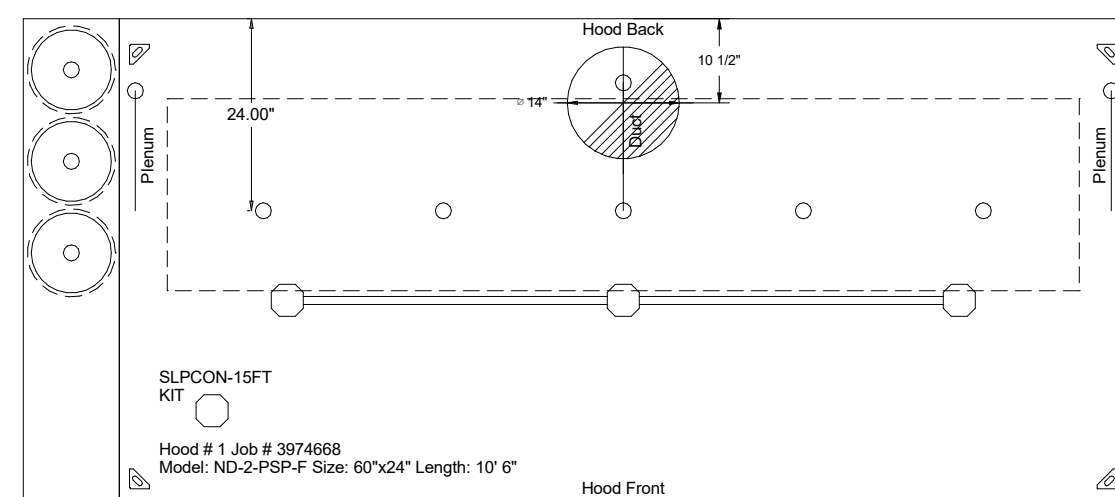
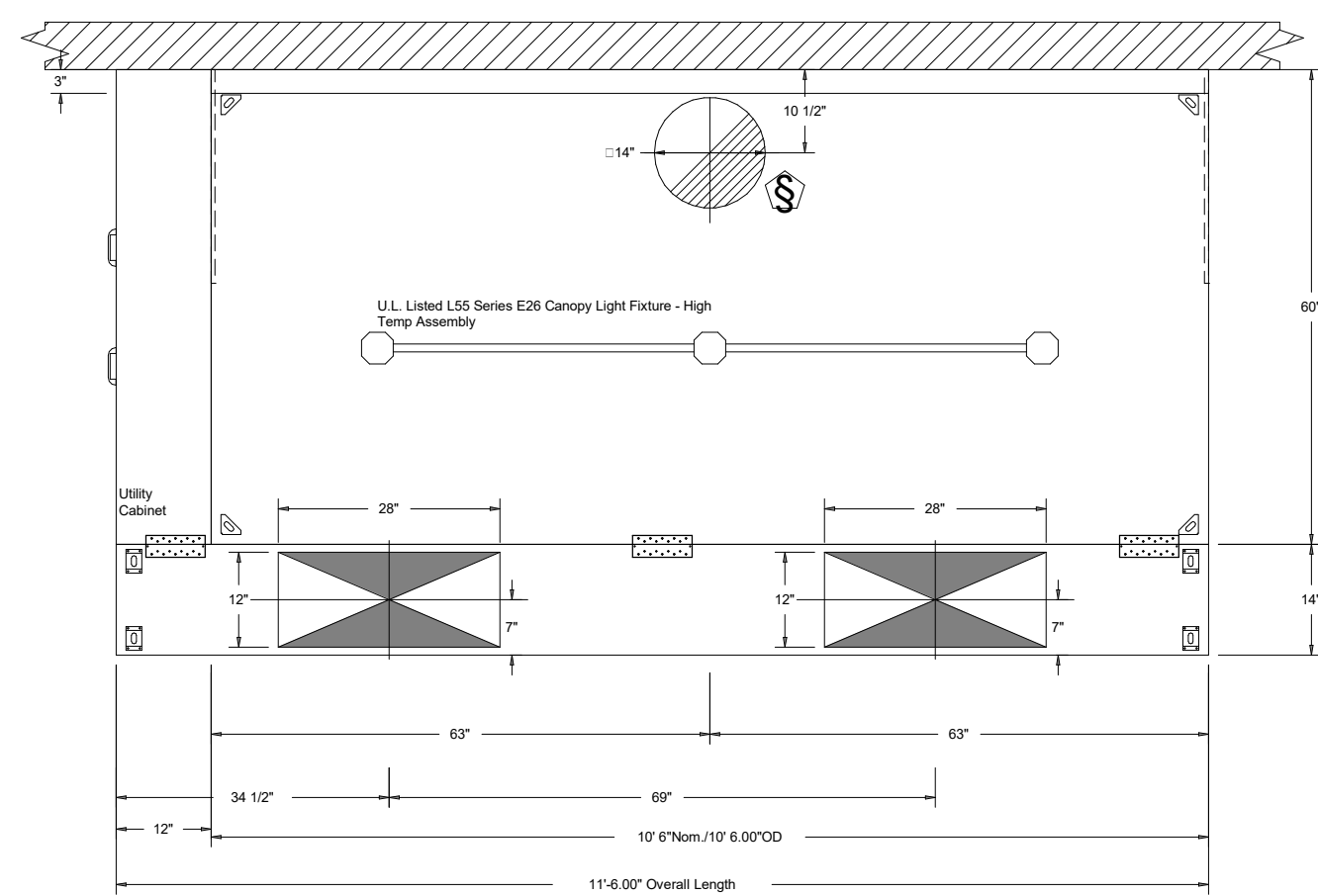
PROJ. NO. E-16078.00 SHEET
DRAWN TJA

M401

HOOD INFORMATION -																	HOOD CONFIG.	
HOOD NO.	TAG	MODEL	LENGTH	MAX COOKING TEMP.	APPLIANCE DUTY	DESIGN CFMR	TOTAL EXH CFM	EXHAUST PLENUM							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	END TO END	ROW
								PSE (RSE)										
								WD.	LENG.	HEIGHT	IDA	CFM	VEL.	S.P.				
1		6024 ND-2-PSP-F	16' 6"	450 Deg	Medium	200	2100			4'	14"	2100	1964	-1.176"	1722	430 SS Where Exposed	ALONE	ALONE

HOB NO.		TAG		FILTER(S)					LIGHT(S)				UTILITY CABINET(S)						FIRE SYSTEM		HOOD WASHING	
				TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES		FIRE SYSTEM PIPING	HOOD HANGING		
														TYPE	SIZE	MODEL #	QUANTITY					
1				Captate Solo Filter	7	16"	16"	85% See Filter Spec.	3	LSS Series E26	NO	Left	12"60"x24"	Can Electric Wet Chemical	4 0/4 0/4 0	DCV-1111	1 Light 1 Fan		YES	1125 LBS		

Fire System Information -			SIZE	FLOW POINTS	INSTALLATION	
FIRE SYSTEM NO.	Tag	TYPE			SYSTEM	LOCATION ON HOOD
1	97.1668	Cas Electric Wet Chemical	4.014 0.4 0	13	Fire Cabinet Left	Left



CAPTIVE **Central Florida**

WINTER PARK LIBRARY EWC
ORLANDO, FL, 32814

ORLANDO, FL, 32814

9/10/2019

974658

NJL

3/4" =

MASTER DRAWING



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KITCHEN CONSULTANT DRAWINGS

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

DRAWN Author

M501



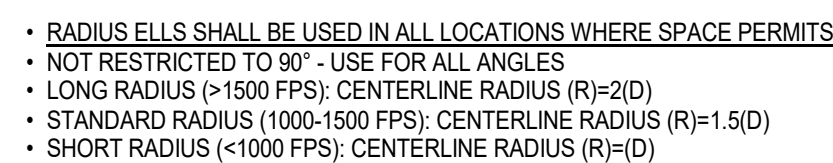
6



7



8



TYPICAL ROUND DUCT FITTING CONSTRUCTION

4



1



—



2



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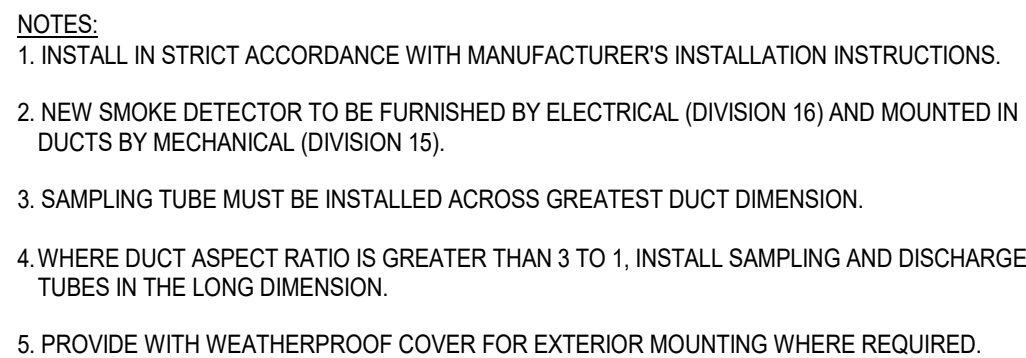
MECHANICAL DETAILS

PROJ. NO. E-16078.00 SHEET

M701



No Scale



No Scale

9



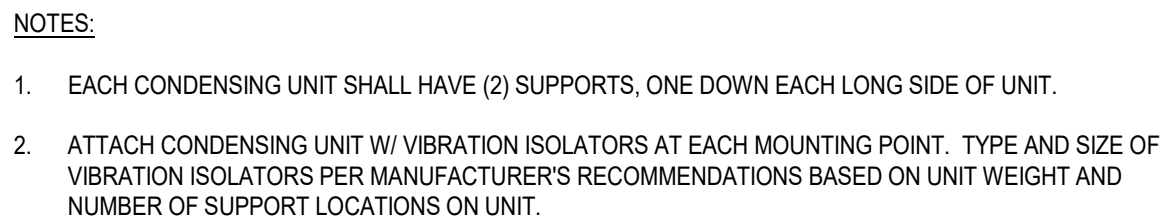
No Scale

6



No Scale

4



No Scale

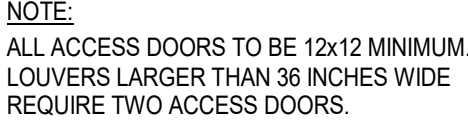
1



SEAL

No Scale

2



NTS

10



No Scale

7



No Scale

5

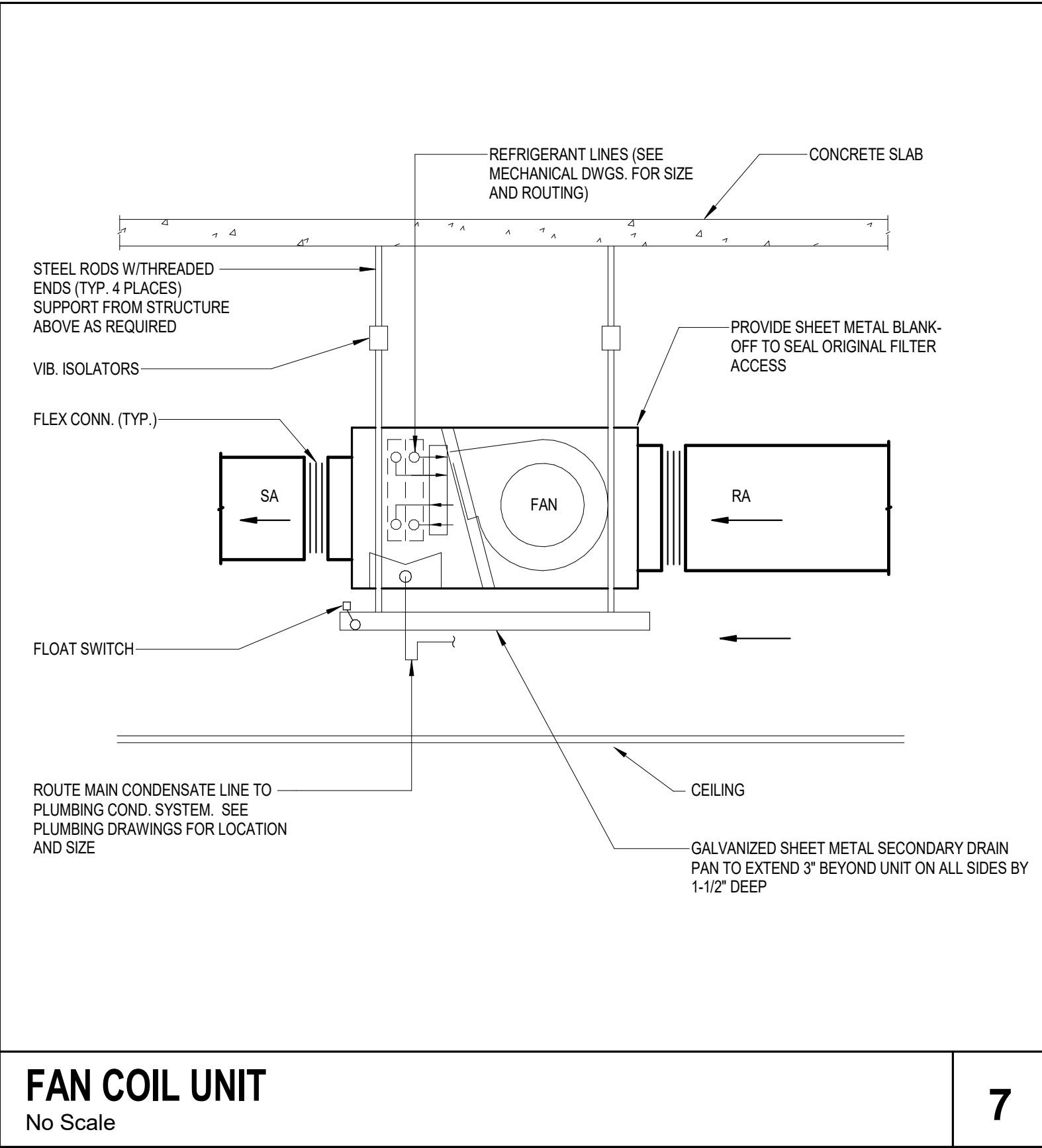


No Scale

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MECHANICAL DETAILS

PROJ. NO.	E-16078.00	SHEET
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		M7



FAN COIL UNIT
No Scale

7

REFERENCE NOTES BELOW FOR ALL PIPES, DUCTWORK, EQUIPMENT, ETC. THAT ARE LOCATED ABOVE THE BARREL VAULT DOUBLE CEILING OR THAT PENETRATE THE BARREL VAULT DOUBLE CEILING:

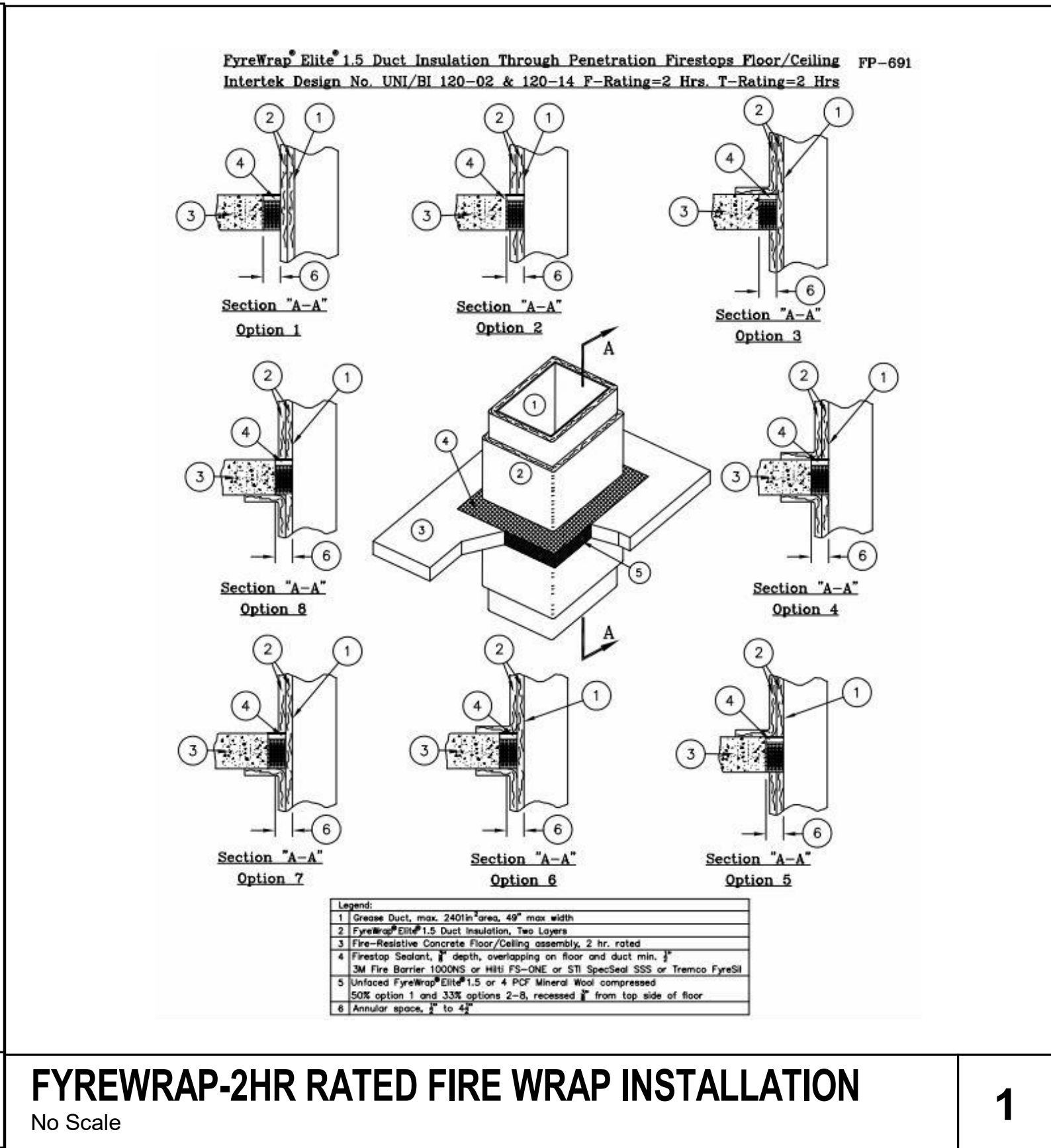
1. ANY DUCTS, PIPES, OR BUILDING SERVICES THAT SERVE THE ROOM THAT HAS A SOUND ISOLATION CEILING, SHOULD BE LOCATED BELOW THE SOUND ISOLATION CEILING AND ABOVE THE FINISH CEILING. AS THESE BUILDING SERVICES PENETRATE THE FINISH CEILING THEY DO NOT REQUIRE ANY SPECIAL TREATMENT.

2. ANY DUCTS, PIPES, OR BUILDING SERVICES THAT GO OVER THE SPACE BUT DO NOT SERVE THE SPACE WITH THE SOUND ISOLATION CEILING SHOULD BE LOCATED ABOVE THE SOUND ISOLATION CEILING. THESE BUILDING SERVICES SHOULD NOT PENETRATE THE SOUND ISOLATION CEILING.

3. IF ANY ITEM OR BUILDING SERVICE IS REQUIRED TO PENETRATE THE SOUND ISOLATION CEILING, A 1/2" GAP SHOULD BE PROVIDED AROUND THE ITEM WITH ACOUSTICAL SEALANT TO SEAL THE GAP AIR TIGHT.

BARREL VAULT DOUBLE CEILING NOTES
No Scale

4



FYREWRAp-2HR RATED FIRE WRAP INSTALLATION
No Scale

1

RECOMMENDED SILENCER AND DUCT LENGTHS FOR ROOMS WITH BACKGROUND NOISE LEVELS FROM NC 25 TO 40:

NOISE CRITERIA OF ROOM SERVED	VELOCITY IN DUCT NEAR TERMINAL SUPPLY/RETURN	SILENCER LENGTH	DUCT LENGTH TO FIRST INLET OR OUTLET	ACOUSTIC LINED FLEX DUCT REQUIRED
NC 25	350 / 425 FPM	7 FT TO 10 FT	70 FT TO 100 FT	6 FT TO 8 FT
NC 30	425 / 500 FPM	3 FT TO 7 FT	50 FT TO 70 FT	6 FT TO 8 FT
NC 35	500 / 600 FPM	3 FT TO 7 FT	50 FT	6 FT TO 8 FT
NC 40	600 / 700 FPM	--	50 FT	--

THE VALUES IN THE TABLE ARE RECOMMENDED BY THE ACOUSTICAL CONSULTANT.

RECOMMENDED SILENCER AND DUCT LENGTHS FOR VAV SYSTEMS SERVING ROOMS FROM NC 25 TO 35:

NOISE CRITERIA OF ROOM SERVED	VELOCITY IN DUCT NEAR TERMINAL SUPPLY/RETURN	SILENCER LENGTH	DUCT LENGTH TO FIRST INLET OR OUTLET	ACOUSTIC LINED FLEX DUCT REQUIRED
NC 25*	350 / 425 FPM	7 FT TO 10 FT	70 FT TO 100 FT	6 FT TO 8 FT
NC 30*	425 / 500 FPM	3 FT TO 7 FT	50 FT TO 70 FT	6 FT TO 8 FT
NC 35**	500 / 600 FPM	3 FT TO 7 FT	50 FT	6 FT TO 8 FT

THE VALUES IN THE TABLE ARE RECOMMENDED BY THE ACOUSTICAL CONSULTANT.
*DO NOT INSTALL VAV UNITS OVER ROOMS WITH NC RATINGS OF 30 OR LESS.
**IF VAV UNITS MUST BE INSTALLED OVER SPACES WITH NC RATINGS OF 35, PROVIDE A GYPSUM BOARD CEILING OR GYPSUM BOARD AROUND THE UNIT AND SELECT VAV UNITS FOR A RADIATED NC LEVELS OF 20 OR LESS.

RECOMMENDED SILENCER AND DUCT LENGTHS
No Scale

TYPICAL DUCT VELOCITIES
No Scale

2

SPACE	RECOMMENDED BACKGROUND SOUND LEVELS - NC	RECOMMENDED BACKGROUND SOUND LEVELS - dBA
AUDIO BOOTH	25	30
CONFERENCE ROOM (IF USED FOR TELECONFERENCING)	25	30
CONFERENCE ROOM (IF NOT USED FOR TELECONFERENCING)	30	35
LIBRARY SHELF AREAS	30	35
MEETING ROOM	30	35
STORY ROOM	30	35
COMMUNITY ROOM	30	35
PRIVATE CARRIEL	30	35
PRIVATE OFFICES	30	35
MAIN ASSEMBLY	30-35	35-40
JR BALL ROOM	35	40
LOBBIES, CORRIDOR, CAFE, AND BOOKSTORE	40	45
STAFF BREAK ROOM	40	45
DRESSING ROOM	40	45
OPEN OFFICE (NO SOUND MASKING)	40	45
OPEN OFFICE (WITH SOUND MASKING)	45	50

THE VALUES IN THE TABLE ARE RECOMMENDED BY THE ACOUSTICAL CONSULTANT.

NC LEVELS FOR LIBRARY/EVENTS CENTER SPACES
No Scale

TYPICAL VELOCITY AT A GIVEN DISTANCE TO TAKE-OFF
No Scale

3



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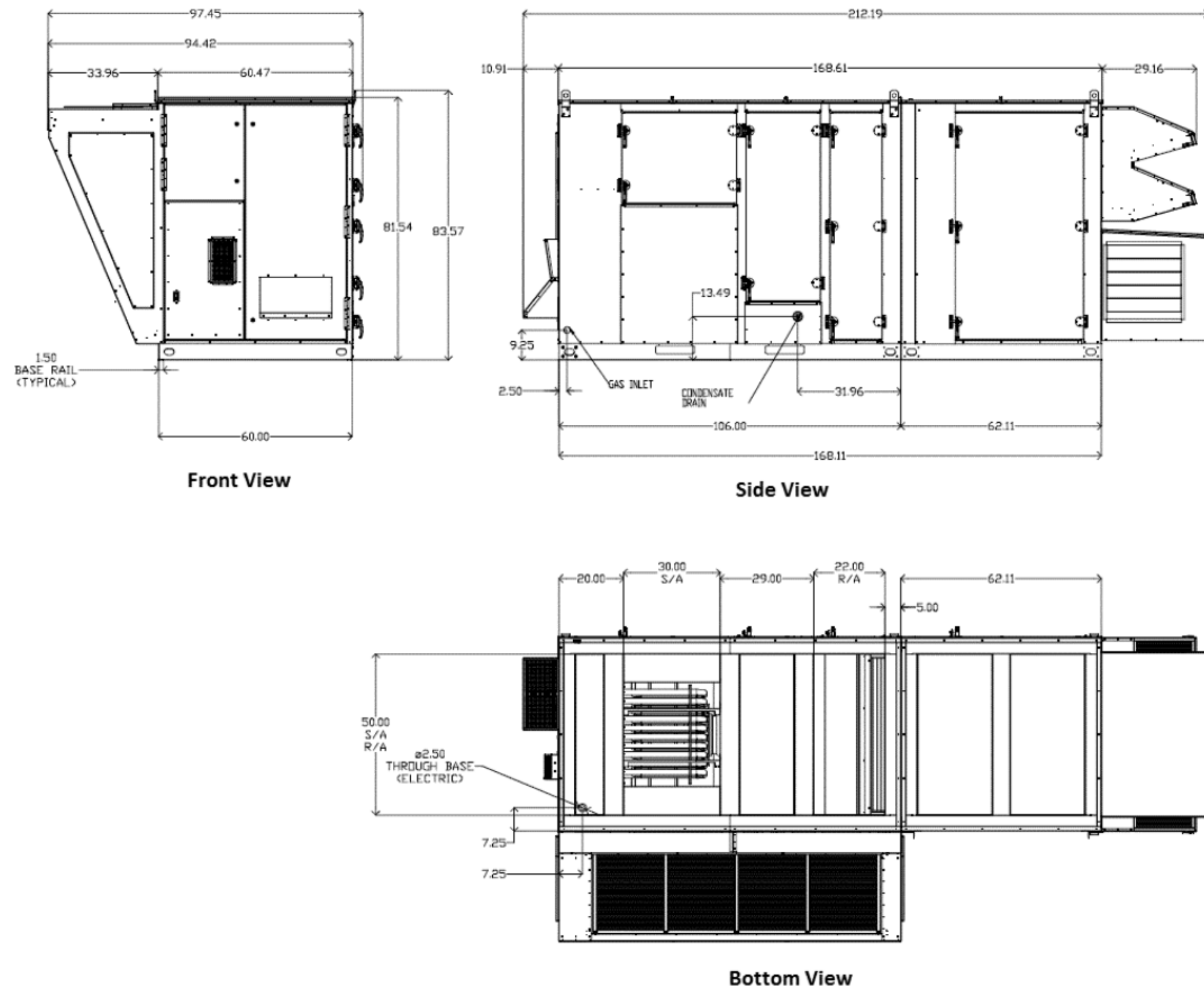
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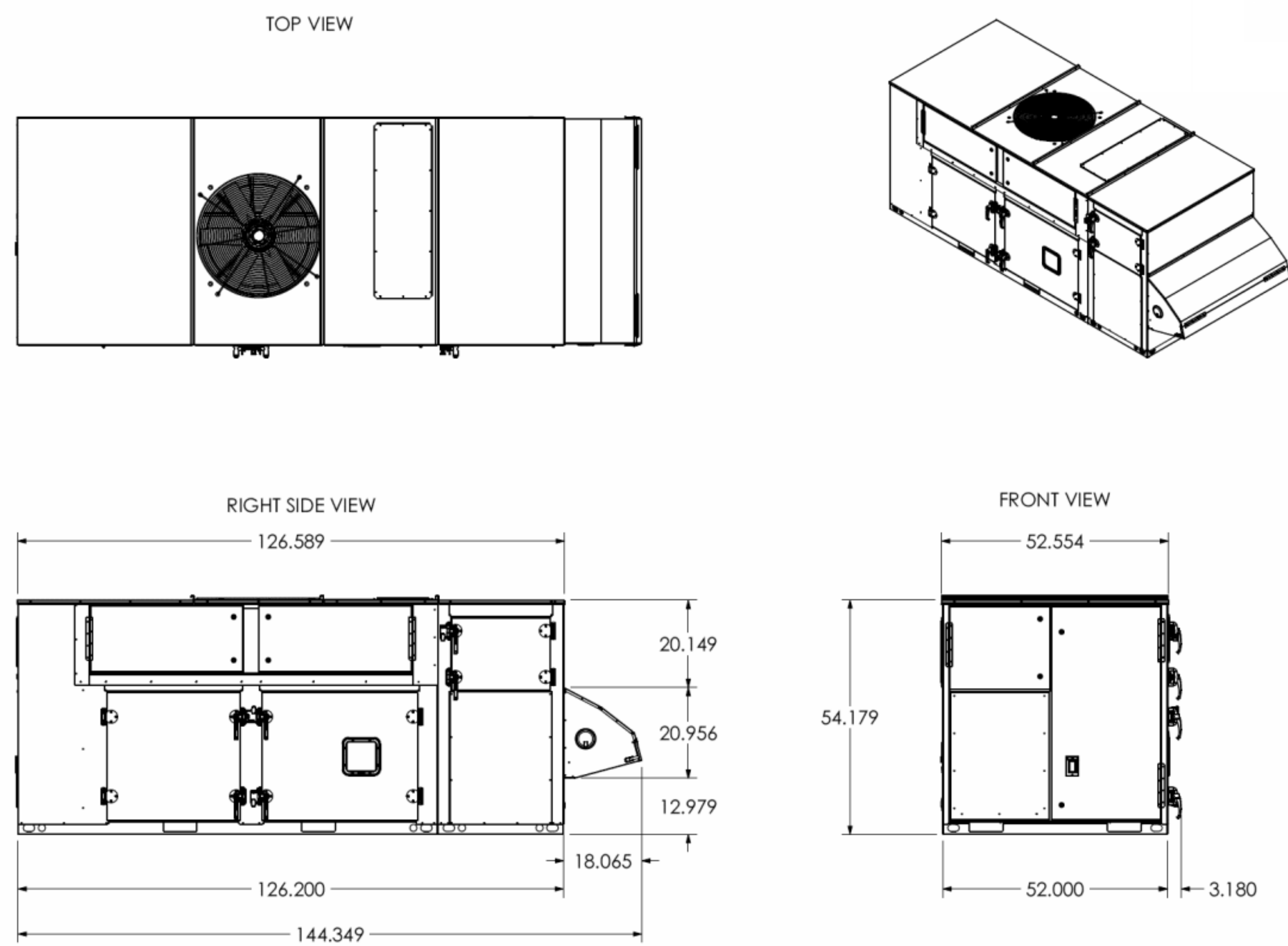
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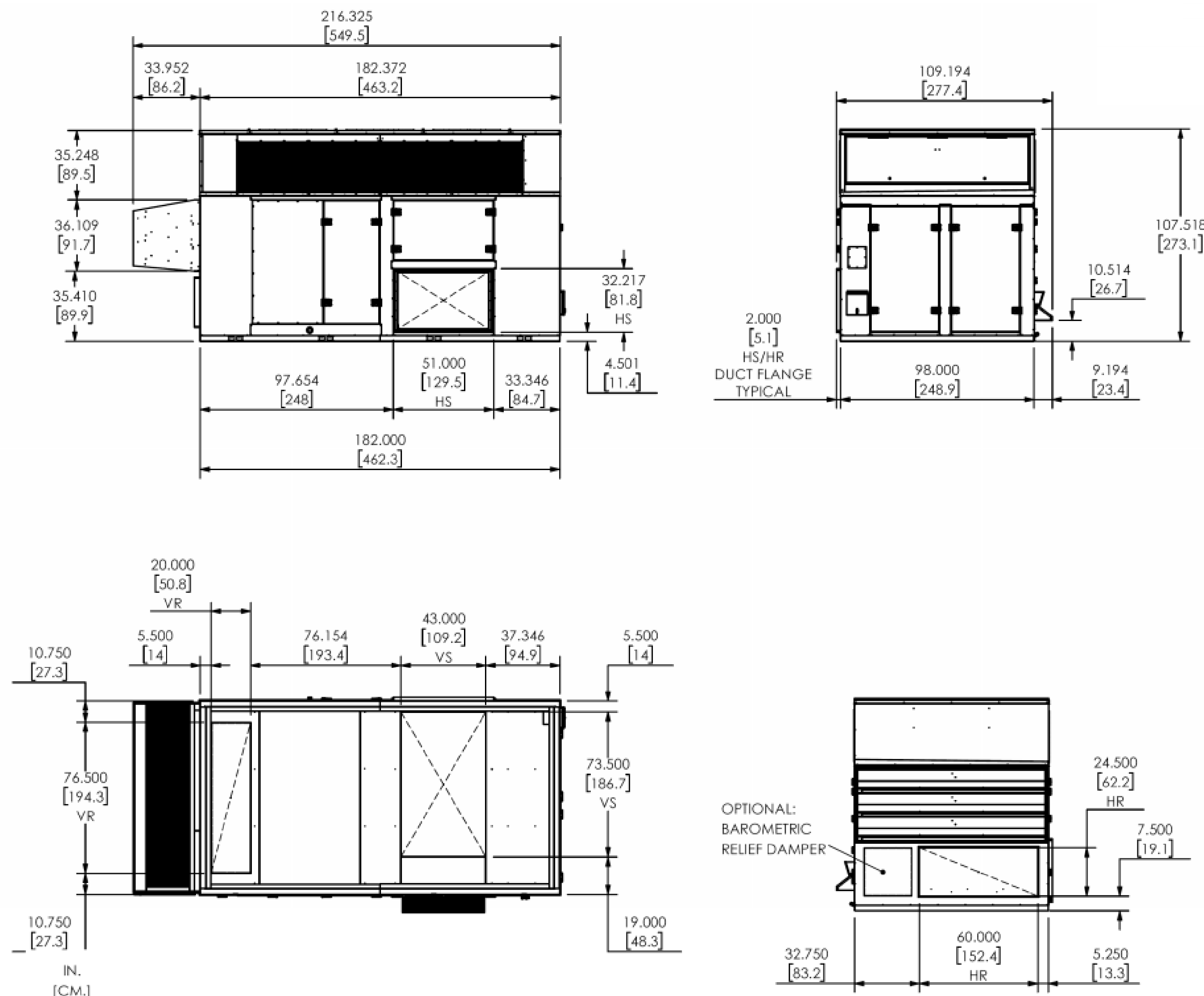
RTU-3 AND RTU-4 COMPONENT DIAGRAM
No Scale

3



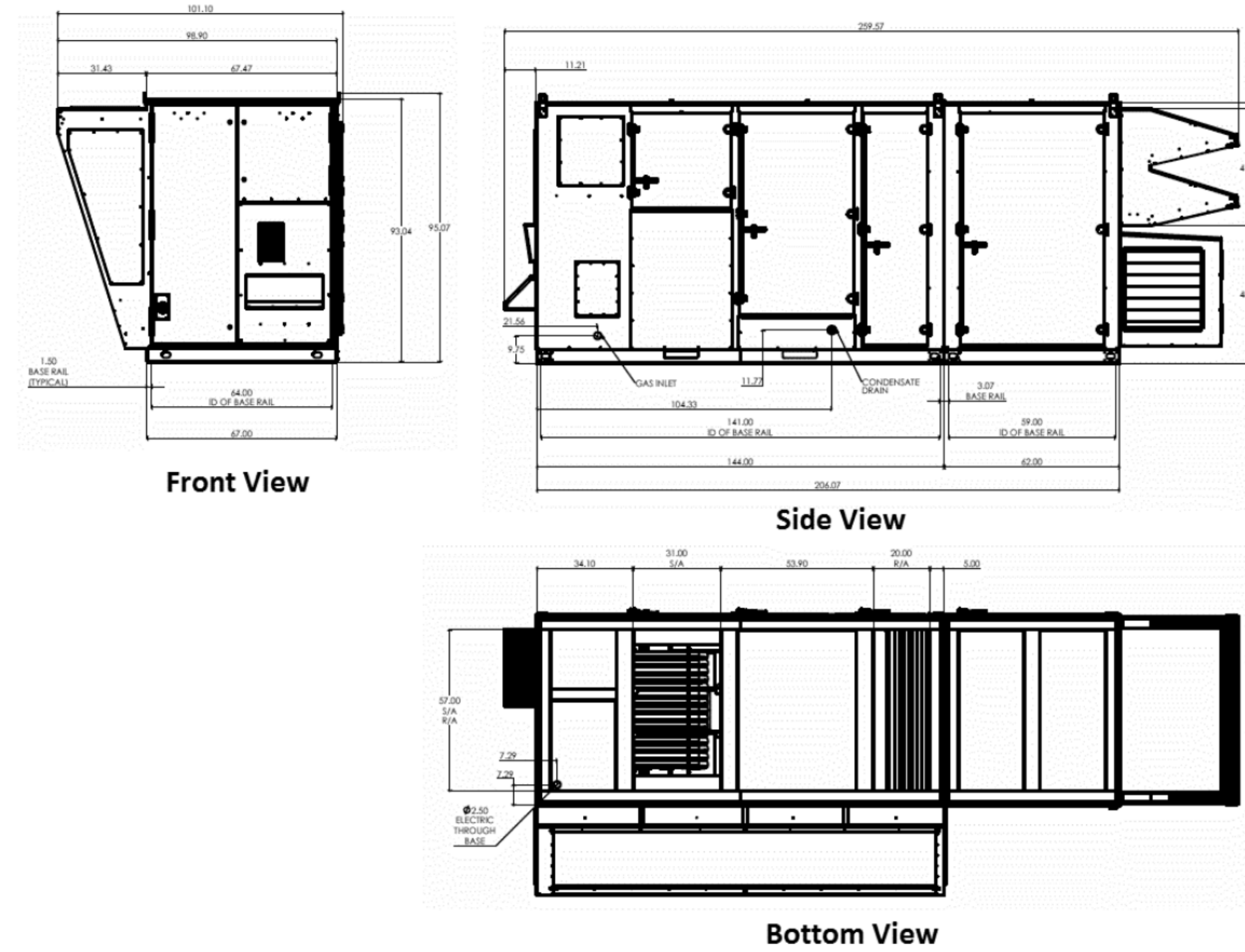
MAU-1 COMPONENT DIAGRAM
No Scale

1



RTU-5 COMPONENT DIAGRAM
No Scale

4



RTU-1 AND RTU-2 COMPONENT DIAGRAM
No Scale

2



SEAL

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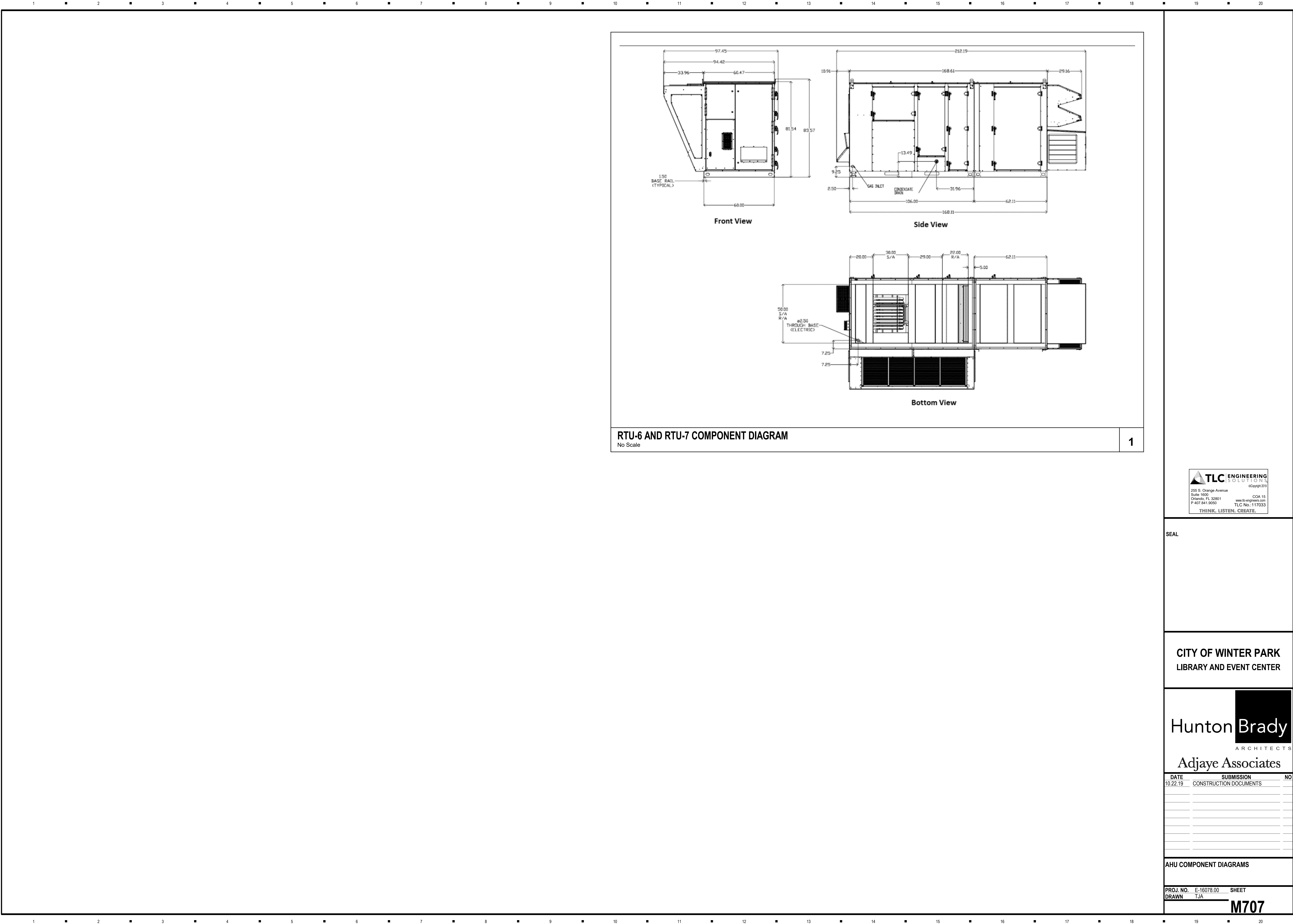
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AHU COMPONENT DIAGRAMS

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M706



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M707

AIR HANDLING UNIT SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
BASIS OF DESIGN					SUPPLY FAN										EXHAUST FAN										COMPRESSORS		COOLING PERFORMANCE						HEATING PERFORMANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					AIRFLOW			ESP (IN. W.C.)	TSP (IN. W.C.)	RPM	MOTOR BHP	MOTOR HP (EACH)	NO. MOTORS	FAN TYPE	VFD	EXHAUST (CFM)	ESP (IN. W.C.)	TSP (IN. W.C.)	RPM	MOTOR BHP	MOTOR HP	FAN TYPE	VFD	NO. DIGITAL SCROLL	NO. SCROLL	COOLING COIL				REHEAT LEAVING AIR		CAPACITY		AIR VELOCITY (FPM)	COIL AIR P.D. (IN. H2O)	EER	AIRFLOW (CFM)	ENTERING AIR (°F)	LEAVING AIR (°F)	KW	HEATER CONTROL	COIL AIR PD (IN. H2O)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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PLAN MARK	MFGR	MODEL NO.	TYPE	AREA SERVED	SUPPLY (CFM)	MIN. AIRFLOW (CFM)	OUTSIDE AIR (CFM)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

ROOFTOP UNIT CURB SCHEDULE																	OCTAVE BAND CENTER FREQUENCY (HZ) / BACKGROUND SOUND LEVEL (DB)							
PLAN MARK	TYPE	CURB HEIGHT (IN)	SUPPLY AIR FLOW (CFM)	SUPPLY PRESSURE DROP (IN. W.G.)	MIN. DEFL. (IN)	WIND RESTRAINT REQD (MPH)	LEVEL REQUIRED	UNSILENCED	63	125	250	500	1000	2000	4000	8000								
MAU-1	NCC-VCR(SL)-L24049	26	1722	0.35	2	140	40	-	-	-	-	-	-	-	-	-								
RTU-1	NCC-VCR(SL)-L24049	26	10500	0.35	2	140	30	60	65	64	70	64	66	60	54	49								
RTU-2	NCC-VCR(SL)-L24049	26	9500	0.35	2	140	30	60	70	69	69	69	71	66	63	57								
RTU-3	NCC-VCR(SL)-L24049	26	5500	0.35	2	140	30	59	60	58	66	58	61	55	51	46								
RTU-4	NCC-VCR(SL)-L24049	26	4000	0.35	2	140	30	57	58	57	63	57	59	53	47	42								
RTU-5	NCC-VCR(SL)-L24049	26	14000	0.35	2	140	40	67	67	69	78	77	76	69	65	60								
RTU-6	NCC-VCR(SL)-L24049	26	5500	0.35	2	140	40	67	54	56	69	67	68	62	58	53								
RTU-7	NCC-VCR(SL)-L24049	26	5500	0.35	2	140	30	67	54	56	69	67	68	62	58	53								
NOTES:																								
1. BASIS OF DESIGN: VIBRO-ACOUSTICS.																								
2. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS.																								
3. CURB MOUNTED ROOFTOP UNITS SHALL BE MOUNTED ON VIBRO-ACOUSTICS TYPE NCC-VCR ROOFTOP SPRING ISOLATION AND SOUND CONTROL CURB CONSISTING OF GALVANIZED CURB SECTIONS WITH INTEGRAL VERTICAL AND LATERALLY RESTRAINED ISOLATORS FORMED TO FIT THE CONTRACTOR SUPPLIED EQUIPMENT. THE SPRING ISOLATION CURB AND ACOUSTICAL TREATMENT PACKAGE SHALL PROVIDE A SPACE AND ADJACENT SPACE NOISE CRITERIA AS SCHEDULED.																								
4. FOR NON-BASIS OF DESIGN NOISE CONTROL CURB PACKAGE PURCHASE, CONTRACTOR AND NON-BASIS OF DESIGN SUPPLIER SHOULD PROVIDE THE FOLLOWING INFORMATION:																								
A. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCTBORNE NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.																								
B. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCT BREAKOUT NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.																								
C. SUBMIT ANALYSIS TO DEMONSTRATE THAT NOISE TRANSMISSION THROUGH THE ROOF WILL NOT EXCEED SCHEDULED NC LEVEL.																								
D. SUBMIT CALCULATIONS AND PEI STAMP TO DEMONSTRATE THAT CODE REQUIREMENTS HAVE BEEN MET FOR WIND RESTRAINT DESIGN.																								
E. SUBMIT CALCULATION TO DEMONSTRATE THAT INSTALLED PRESSURE DROP WILL BE NO GREATER THAN SCHEDULED VALUES FOR SUPPLY AND RETURN AIR PATHS.																								
5. NOISE CURB SHALL HAVE SUPPLY AIR SOUND ATTENUATOR PARTIALLY INSIDE THE CURB AND INTO THE CEILING SPACE. ATTENUATOR WITHIN CEILING SPACE SHALL BE SUPPORTED FROM ROOF/CEILING STRUCTURE PROVIDED BY THE INSTALLING CONTRACTOR.																								
6. NOISE CURB SHALL HAVE RETURN AIR SOUND ATTENUATOR PARTIALLY INSIDE THE CURB AND INTO THE CEILING SPACE. ATTENUATOR WITHIN CEILING SPACE SHALL BE SUPPORTED FROM ROOF/CEILING STRUCTURE PROVIDED BY THE INSTALLING CONTRACTOR.																								
7. ATTENUATOR SHALL HAVE HIGH TRANSMISSION LOSS (HTL) CASING TO PREVENT BREAK-OUT NOISE.																								
8. SUPPLY AND RETURN DUCT SILENCERS SHALL INTEGRAL TO THE CURB SYSTEMS.																								

AIR HANDLING UNIT SCHEDULE CONTINUED																																		
ENERGY RECOVERY															FILTERS					ELECTRICAL					OCTAVE BAND CENTER FREQUENCY (HZ) / STANDARD RADIATED SOUND POWER LEVEL (dBA)									
SUMMER PERFORMANCE															WINTER PERFORMANCE																			
OUTSIDE AIR					EXHAUST					SENSIBLE CAPACITY (MBH)					TOTAL CAPACITY (MBH)					SENSIBLE EFF. (%)					ERV AIR P.D. (IN. H2O)									
PLAN MARK	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	ENTERING DB (F)	LEAVING DB (F)	TOTAL dBA					
RTU-1	94/77	84.1/70.2	78/65	46.93	106.66	95	89	38/32	57.1/48.6	70/58	90.83	49.6	95	89	0.44	2" MERV 8	2" MERV 8	-	2" MERV 13	125/6	150	460/3/60	7811	57.5	80	82.3	85.7	87.3	87.5	83.6	75.2	93		
RTU-2	94/77	83.6/69.8	78/65	54.5	125.93	91	85	38/32	58.3/49.5	70/58	105.82	105.69	91	86	0.53	2" MERV 8	2" MERV 8	-	2" MERV 13	109/4	125	460/3/60	7803	57.5	80	82.3	85.7	87.3	87.5	83.6	75.2	93		
RTU-3	94/77	84.8/70.7	78/65	30.38	70.18	95	89	38/32	55.8/47.5	70/58	58.52	92.33	95	90	0.46	2" MERV 8	2" MERV 8	-	2" MERV 13	71/2	90	460/3/60	5225	56.3	76.1	81.6	85.5	86.7	86.8	82.2	73.8	92.2		
RTU-4	94/77	83.2/69.5	78/65	27.34	62.8	93	87	38/32	59/49.9	70/58	53.18	82.72	93	87	0.43	2" MERV 8	2" MERV 8	-	2" MERV 13	57/6	70	460/3/60	5113	56.3	76.1	81.6	85.5	86.7	86.8	82.2	73.8	92.2		
RTU-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2" MERV 8	2" MERV 13	115/1	125	460/3/60	7039	56.4	65.4	73.4	80.4	81.4	80.4	82.4	77.4	87.4	
RTU-6	97/77	82.9/69.3	78/65	27.93	64.38	91	86	38/32	59.7/50.5	70/58	54.46	84.79	92	86	0.44	2" MERV 8	2" MERV 8	-	2" MERV 13	55/6	60	460/3/60	5169	56.3	76.1	81.6	85.5	86.7	86.6	82.2	73.8	92.2		
RTU-7	94/77	82.9/69.3	78/65	27.93	64.38	91	88	38/32	59.7/50.5	70/58	54.46	84.79	92	86	0.44	2" MERV 8	2" MERV 8	-	2" MERV 13	55/6	60	460/3/60	5169	56.3	76.1	81.6	85.5	86.7	86.6	82.2	73.8	92.2		
NOTES: 1. PERFORMANCE CAPACITIES SHOWN ARE MINIMUM. 2. FANS FOR VAV UNITS SHALL BE SELECTED WITH ALLOWANCE FOR MID-LIFE FILTER AIR PRESSURE DROP. 3. MOTORS SHALL BE MOTOR MANUFACTURER'S HIGHEST "PREMIUM" EFFICIENCY OFFERING AVAILABLE. 4. INSTALL UNITS FOR PROPER WHEEL AND FILTERS ACCESS AND REPLACEMENT. 5. HEAT EXCHANGERS SHALL BE AIR CERTIFIED UNDER STD. 1060 FOR THERMAL PERFORMANCE AND ZERO LEAKAGE. HEAT EXCHANGERS SHALL BE UL LISTED. 6. PROVIDE SINGLE POINT POWER CONNECTION, FACTORY PROVIDED STEP DOWN TRANSFORMER FOR CONTROL POWER. 7. PROVIDE MERV 8 OA AND EA FILTERS. PROVIDE ONE (1) SET OF CONSTRUCTION AIR FILTERS AND ONE (1) SET OF NEW FILTERS TO BE INSTALLED AT TIME OF C.O. 8. PROVIDE DDC CONTROLS REFER TO CONTROL DRAWINGS. 9. RTU CASING SHALL BE DOUBLE-WALL, FOAM FILLED ALUMINUM PANELS, WITH A MINIMUM R-VALUE OF 6.2. 10. PROVIDE WITH WASHABLE WHEEL. 11. PROVIDE WITH PAINTED EXTERIOR FINISH. 12. PROVIDE WITH MOTORIZED EXHAUST AND OUTDOOR AIR DAMPERS. 13. SEE DIVISION 26 FOR DISCONNECT.																																		

MAKE-UP AIR HANDLING UNIT SCHEDULE																													
BASIS OF DESIGN					SUPPLY FAN										COOLING PERFORMANCE						PRE-HEATING PERFORMANCE				FILTER		ELECTRICAL		WEIGHT (LB)
															AIRFLOW		ESP		MOTOR HP										
PLAN MARK	MFR	MODEL NO.	TYPE	AREA SERVED	SUPPLY (CFM)	MIN. AIRFLOW (CFM)	OUTSIDE AIR (CFM)	W.C. (IN)	MOTOR BHP	HP (EACH)	RPM	MOTORS	VFD	DB (°F)	WB (°F)	DB (°F)	WB (°F)	SENSIBLE (MBH)	TOTAL (MBH)	SEER	HEAT TYPE	CAPACITY (MBH)	TEMP RISE (°F)	MERV	TYPE	MCA	MAX FUSE SIZE	V/PHF	(LB)
MAU-1	CAPTIVE AIR	A1-D-15D-MPU	GAS-FIRE, DX MAKEUP AIR UNIT	EVENT CENTER - 1ST FLOOR KITCHEN HOOD	1722	1000	1722	0.55	0.793	1	1715	1	YES	93	76	80.4	70.5	22.9	36	14	GAS FIRED	56814	31	8	2" PLEATED	14.5	20	208/3/60	1076
NOTES:																													
1. MAKE-UP AIR UNIT PURCHASED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.																													
2. SEE FOOD SERVICE DRAWINGS AND SPECIFICATIONS.																													
3. VFD PURCHASED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY DIV. 26.																													
4. PERFORMANCE CAPACITIES SHOWN ARE MINIMUM.																													
5. COORDINATE DUCT CONNECTION ORIENTATIONS WITH PLANS.																													
6. MOTORS SHALL BE MOTOR MANUFACTURER'S HIGHEST "PREMIUM" EFFICIENCY OFFERING AVAILABLE.																													
7. INSTALL UNITS FOR PROPER FILTER ACCESS AND REPLACEMENT.																													
8. PROVIDE SINGLE POINT POWER CONNECTION, FACTORY PROVIDED STEP DOWN TRANSFORMER FOR CONTROL POWER.																													
9. PROVIDE DDC CONTROLS REFER TO CONTROL DRAWINGS.																													
10. MAU CASING SHALL BE DOUBLE-WALL, FOAM FILLED ALUMINUM PANELS, WITH A MINIMUM R-VALUE OF 6.2.																													
11. PROVIDE WITH PAINTED EXTERIOR FINISH.																													
12. PROVIDE WITH MOTORIZED OUTDOOR AIR DAMPERS.																													
13. PROVIDE EBTRON GOLD SERIES AIRFLOW MEASUREMENT STATION. EXTEND INTAKE HOOD 1' FROM UNIT AND INSTALL AFMS IN THE 1' EXTENSION.																													
14. PROVIDE HOT GAS RE-HEAT.																													
15. PROVIDE ONE (1) SET OF CONSTRUCTION AIR FILTERS AND ONE (1) SET OF NEW FILTERS TO BE INSTALLED AT TIME OF C.O.																													
16. SEE DIVISION 26 FOR DISCONNECT.																													

AIR DISTRIBUTION SCHEDULE					
PLAN MARK	CFM	NECK SIZE	FACE SIZE	DESCRIPTION	ADDITIONAL REQUIREMENTS
A	000-180 181-280 281-385 386-540 541-725 726-860 861-1040 1041-1240	8" 10" 12" 14" 16" 18" 20"	24x24 24x24 24x24 24x24 24x24 24x24 24x24	BASIS OF DESIGN: PRICE ASDP COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO	SUPPLY CEILING DIFFUSER SURFACE-MOUNT: BORDER TYPE 31 WITH AMP FRAME LAY-IN: BORDER TYPE 31
B	000-145 146-315 316-430 431-625 626-1120 1121-1450 1451-1945	6x6 8x8 10x10 12x12 14x14 16x16 18x18 20x20	FACE SIZE EQUALS NECK SIZE PLUS 2"	BASIS OF DESIGN: PRICE-635 COLOR: WHITE MATERIAL: ALUMINUM VOLUME DAMPERS: NO 1/2" BLADE SPACING, LOUVERED FACE SQUARE NECK & FACE: FOR RETURN & EXHAUST, SIZE PER SCHEDULE FOR TRANSFER. SEE PLANS FOR SIZE (SEE DETAIL 341022 FOR TRANSFER BOOT	RETURN/EXHAUST CEILING GRILLE SURFACE-MOUNT: BORDER TYPE F LAY-IN: BORDER TYPE TB W/2x24 FACE OR AS CALLED FOR IN CONTRACT DOCUMENTS.
C	000-180 181-275 276-360 361-540 541-900 901-1380 1381-2140	8x6 12x6 18x6 24x12 24x18 36x18 48x30	FACE SIZE EQUALS NECK SIZE PLUS	BASIS OF DESIGN: PRICE-610 COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO SINGLE DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	SIDEWALL SUPPLY REGISTER SURFACE-MOUNT: BORDER TYPE F
D	000-180 181-275 276-360 361-540 541-900 901-1380 1381-2140 1381-2140 1381-2140	8x6 12x6 12x6 18x6 24x12 24x18 36x18 48x30	FACE SIZE EQUALS NECK SIZE PLUS 2"	BASIS OF DESIGN: PRICE-635 COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO 0" FIXED DEFLECTION, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	RETURN/EXHAUST SIDEWALL GRILLE SURFACE-MOUNT: BORDER TYPE F
E	CFM/FT -	1	LENGTH SEE PLANS	BASIS OF DESIGN: PRICE AS/US OPPOSED BLADE DAMPER: NO COLOR: BLACK MATERIAL: ALUMINUM ADJUSTABLE PATTERN CONTROLLER 1 1/2" SLOT FIELD FABRICATED PLENUM FOR SUPPLY AND PRICE RETURN AIR SIGHT BAFFLE FOR RETURN 4" LENGTH UNLESS INDICATED ON DRAWINGS	SUPPLY/RETURN/EXHAUST LINEAR DIFFUSER SURFACE-MOUNT: BORDER TYPE 51
F	CFM/FT -	1	LENGTH SEE PLANS	BASIS OF DESIGN: PRICE AS/US OPPOSED BLADE DAMPER: NO COLOR: BLACK MATERIAL: ALUMINUM ADJUSTABLE PATTERN CONTROLLER 1 1/2" SLOT FIELD FABRICATED PLENUM FOR SUPPLY AND PRICE RETURN AIR SIGHT BAFFLE FOR RETURN 4" LENGTH UNLESS INDICATED ON DRAWINGS SUPPORTED FROM STRUCTURE	SUPPLY/RETURN LINEAR DIFFUSER SURFACE-MOUNT: BORDER TYPE 51F
G	CFM/FT -	1	LENGTH SEE PLANS	BASIS OF DESIGN: PRICE AS/US OPPOSED BLADE DAMPER: NO COLOR: BLACK MATERIAL: ALUMINUM ADJUSTABLE PATTERN CONTROLLER 1 1/2" SLOT FIELD FABRICATED 24" PLENUM FOR SUPPLY AND PRICE RETURN AIR SIGHT BAFFLE FOR RETURN 4" LENGTH UNLESS INDICATED ON DRAWINGS SUPPORTED FROM STRUCTURE	SUPPLY/RETURN LINEAR DIFFUSER SURFACE-MOUNT: BORDER TYPE 51F
H	0-530 531-1180	12" 18"	-	BASIS OF DESIGN: PRICE AR/CA COLOR: AS SELECTED BY ARCHITECT MATERIAL: ALUMINUM	ROUND CONE DIFFUSER
NOTES: 1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES. 2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24x24 LAY-IN GRID SPACE IS NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN, AND SHALL BE SURFACE-MOUNTED IN A CEILING TILE. SECURE EACH SUCH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS ON TOP SIDE OF TILE, SO THAT TILE DOES NOT SAG OR CRACK. 3. BRANCH DUCTWORK SHALL BE RAN FULL SIZE OF DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED. 4. DIFFUSER/GRILLE SHALL BE PAINTED TO MATCH CEILING COLOR. REFER TO ARCHITECTURAL & INTERIOR DOCUMENTS FOR CEILING COLOR.					

FAN SCHEDULE																			
BASIS OF DESIGN					MOTOR DATA														
PLAN MARK	MFGR	MODEL	TYPE	AREA SERVED	CFM	ESP (IN.WG)	FAN RPM	RPM	BHP	HP	V/PH/Hz	SPEED CONTROL	DRIVE TYPE	SONES	LOCATION	ACCESSORIES	FAN INTERLOCK	WEIGHT (LBS)	
EF-1	COOK	90C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - 1ST FLOOR NORTH ELECTRICAL ROOM	225	0.35	1221	1725	28.5W	1/6	115/160	EC MOTOR	DIRECT	4.3	AREA 1 ROOF	1, 2, 3, 4, 10, 11, 20, 21	-	29	
EF-2	COOK	90C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - ELEV. MACHINE ROOM	300	0.5	1493	1725	54.6W	1/6	115/160	EC MOTOR	DIRECT	5.7	AREA 1 ROOF	1, 2, 3, 4, 10, 11, 20, 21	-	29	
EF-3	COOK	101C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - NORTH GENERAL EXHAUST	600	0.4	1408	1725	74.3W	1/4	115/160	EC MOTOR	DIRECT	7.7	AREA 1 ROOF	1, 3, 4, 10, 11, 20, 21	RTU-1	32	
EF-4	COOK	101C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - SOUTH GENERAL EXHAUST	640	0.25	1340	1725	63.8W	1/4	115/160	EC MOTOR	DIRECT	7.3	AREA 1 ROOF	1, 3, 4, 10, 11, 20, 21	RTU-2	32	
EF-5	COOK	90C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - 1ST FLOOR SOUTH ELECTRICAL EQUIPMENT	225	0.25	1070	1725	20.6W	1/6	115/160	EC MOTOR	DIRECT	3.2	AREA 1 ROOF	1, 2, 3, 4, 10, 11, 20, 21	-	29	
EF-6	COOK	90C17DEC	ROOF MOUNTED DOWNBLAST	LIBRARY - BASEMENT LULA MACHINE ROOM	300	0.25	1168	1725	30.4W	1/6	115/160	EC MOTOR	DIRECT	4.2	AREA 1 ROOF	1, 2, 3, 4, 10, 11, 20, 21	-	29	
EF-7	COOK	120C17DEC	ROOF MOUNTED DOWNBLAST	EVENT CENTER - 1ST FLOOR GENERAL EXHAUST	725	0.35	1010	1725	78.1W	1/2	208/160	EC MOTOR	DIRECT	5.1	AREA 2 ROOF	1, 3, 4, 10, 11, 20, 21	RTU-5	66	
EF-8	COOK	90C17DEC	ROOF MOUNTED DOWNBLAST	EVENT CENTER - 1ST FLOOR ELEVATOR EQUIPMENT ROOM	200	0.25	1168	1725	30.4W	1/6	115/160	EC MOTOR	DIRECT	4.2	AREA 1 ROOF	1, 2, 3, 4, 10, 11, 20, 21	-	29	
EF-9	CAPTIVE AIRE	USBL-180D-RM	ROOF MOUNTED UTILITY VENT SET GREASE EXHAUST FAN	EVENT CENTER - 1ST FLOOR KITCHEN GREASE EXHAUST HOOD	2100	2	1275	1275	1.144	1.5	208/360	VFD	DIRECT	-	AREA 2 ROOF	4, 6, 20, 21, 35	MAU-1	310	
EF-10	COOK	120SQN17D (VF)	INLINE CENTRIFUGAL FAN	EVENT CENTER - 2ND FLOOR GENERAL EXHAUST	1200	0.35	1381	1725	.19	1/2	208/160	EC MOTOR	DIRECT	10.1	AREA 2 - SERVICE KITCHEN	1, 5, 10, 11, 31	RTU-5	137	
ACCESSORIES:					NOTES:														
1. BACKDRIFT DAMPER					25. BOLTED ACCESS DOOR					1. EF-8 PURCHASED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.									
2. THERMOSTAT					26. STAINLESS STEEL UL-782					2. EF-9 VFD PURCHASED BY FOOD SERVICE CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.									
3. BIRDSCREEN					27. FACTORY GREASE CONTAINMENT RESERVOIR					3. SEE FOOD SERVICE DRAWINGS AND SPECIFICATIONS FOR EF-9 INFORMATION.									
4. ROOF CURB					28. SIDE OR BOTTOM ACCESS MOTOR														
5. DISCONNECT SWITCH					29. NOA RATED														
6. DRAIN					30. CO2 SENSOR														
7. EQUIPMENT SUPPORTS					31. CONTINUOUS OPERATION														
8. INLET SCREEN					32. ON / OFF SWITCH														
9. CURB-MOUNTED ROOF JACK					33. MOTOR STARTER														
10. SPEED CONTROLLER					34. 6" HOUSEKEEPING PAD														
11. VIBRATION ISOLATORS					35. VARIABLE FREQUENCY DRIVE (VFD)														
12. WEATHER COVER																			
23. MOTOR HEAT SHIELD																			
24. STEEL WHEEL CONSTRUCTION																			

VAV UNIT SCHEDULE					
PLAN MARK	BASIS OF DESIGN			AIRFLOW	
	MFGR	MODEL	INLET SIZE	COOLING DESIGN (CFM)	COOLING MINIMUM (CFM)
VTU-1-12	PRICE	SDV	4"	175	55
VTU-2-4	PRICE	SDV	4"	150	45
VTU-2-6	PRICE	SDV	4"	175	55
VTU-3-16	PRICE	SDV	5"	75	25
VTU-4-13	PRICE	SDV	4"	75	25
NOTES: 1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS. 2. UNITS SHALL BE PRESSURE INDEPENDENT, NORMALLY OPEN. 3. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880. 4. MAX NC-30 AT 1" W.C. INLET STATIC PRESSURE. PROVIDE FACTORY SOUND ATTENUATOR AS REQUIRED. 5. MANUFACTURER SHALL FACTORY MOUNT AND TEST CONTROLS ON ALL TERMINALS. 6. 1" RIGID INSULATION WITH FOIL FACE TOWARD AIRSTREAM. 7. AIR PRESSURE DROP INDICATED IS AT FULL-OPEN POSITION. 8. MINIMUM COOLING CFM SHALL BE AS SHOWN DURING OCCUPIED MODE, BUT SHALL BE ZERO (0) CFM (FULL-SHUTOFF) DURING UNOCCUPIED COOLING MODE. 9. SINGLE-POINT CONNECTIONS. 10. PROVIDE FACTORY-INSTALLED AND WIRED STEP-DOWN TRANSFORMER FOR CONTROL POWER. PROVIDE 277V PRIMARY TRANSFORMER VOLTAGE. 11. PROVIDE WITH FACTORY-MOUNTED INTEGRAL FUSED DISCONNECT SWITCH.					

UNIT HEATER SCHEDULE (ELECTRIC HEAT)										
BASIS OF DESIGN					HEATING COIL DATA					
PLAN MARK	MFGR	MODEL	TYPE	AREA SERVED	TOTAL CFM	TEMP		KW	V / PH	CONTROL
UH-1	TRANE	UHEC-031CACA	ELECTRIC UNIT HEATER	FIRE RISER ROOM	400	70	96	3.3	277 / 1	SCR
NOTES: 1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS. 2. INSTALL UNIT HEATER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND REQUIRED CLEARANCES. 3. SEE DIVISION 26 FOR DISCONNECT. 4. PROVIDE UNIT HEATER WITH ADJUSTABLE AIR DEFLECTORS SET TO 30° DEFLECTION DOWN. 5. PROVIDE MANUFACTURERS STANDARD WALL MOUNTING KIT AND ADJUSTABLE THERMOSTAT. 6. UNIT CONSTRUCTION SHALL BE CORROSION RESISTANT 316 STAINLESS STEEL.										

PARALLEL FAN-POWERED TERMINAL UNIT SCHEDULE (ELECTRIC HEAT)															
PLAN MARK	BASIS OF DESIGN			PRIMARY AIR			FAN DATA			SOUND DATA			ELECTRIC HEATING COIL DATA		
	MFGR	MODEL	INLET SIZE	COOLING DESIGN (CFM)	COOLING MINIMUM (CFM)	HEATING DESIGN (CFM)	FAN AIRFLOW (CFM)	MOTOR HP	INLET SOUND ATTENUATION	DISCHARGE NC	RADIATED NC	FAN RADIATED NC	MAX AIR PRESS. DROP (IN. WG)	EAT (°F)	LAT (°F)
PTU-1-1	PRICE	FDV4014	14"	1990	600	1500	900	0.5	IAS90	30	31	29	0.25	58.4	86.8
PTU-1-2	PRICE	FDV3012	12"	1755	530	1320	790	0.5	IAS90	28	29	28	0.25	58.4	89.5
PTU-1-3	PRICE	FDV5016	16"	3080	925	2315	1390	1	IAS90	28	30	33	0.25	58.4	80.2
PTU-2-1	PRICE	FDV4014	14"	2565	770	1925	1155	0.5	IAS90	28	28	29	0.25	58.4	83.0
PTU-2-2	PRICE	FDV3012	12"	1760	530	1325	795	0.5	IAS90	28	29	28	0.25	58.4	89.4
PTU-2-3	PRICE	FDV5016	16"	3180	955	2390	1435	1	IAS90	28	31	33	0.25	58.4	80.2
PTU-5-1	PRICE	FDV4014	14"	1990	600	1500	900	0.5	IAS90	29	30	28	0.25	52.4	84.5
PTU-5-2	PRICE	FDV2010	10"	1100	330	825	495	0.33	IAS90	28	29	28	0.25	52.4	81.1
PTU-5-3	PRICE	FDV2010	10"	1000	300	750	450	0.33	IAS90	26	28	26	0.25	52.4	82.9
PTU-5-4	PRICE	FDV2010	10"	690	210	525	315	0.33	IAS90	26	28	26	0.25	52.4	103.6
PTU-5-5	PRICE	FDV3012	12"	1760	530	1325	795	0.5	IAS90	29	30	30	0.25	52.4	77.4
PTU-5-6	PRICE	FDV2010	10"	1205	365	910	545	0.33	IAS90	26	28	25	0.25	52.4	76.7
NOTES: 1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS. 2. UNITS SHALL BE PRESSURE INDEPENDENT, NORMALLY OPEN. 3. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880. 4. MANUFACTURER SHALL FACTORY MOUNT AND TEST CONTROLS ON ALL TERMINALS. 5. 1" RIGID INSULATION WITH FOIL FACE TOWARD AIRSTREAM. 6. UNITS WITH HEATERS SHALL BE VAV FOR COOLING AND CONSTANT VOLUME FOR HEATING. 7. AIR PRESSURE DROP INDICATED IS AT FULL-OPEN POSITION AND INCLUDES HEATING COIL DROP WHERE APPLICABLE. 8. MINIMUM COOLING CFM SHALL BE AS SHOWN DURING OCCUPIED MODE, BUT SHALL BE ZERO (0) CFM (FULL-SHUTOFF) DURING UNOCCUPIED COOLING MODE. 9. HEATING COILS LESS THAN 4.5KW SHALL BE 277V/PH. HEATING COILS 4.5KW AND GREATER SHALL BE 480V/PH. SINGLE-POINT CONNECTIONS. 10. PROVIDE FACTORY-INSTALLED AND WIRED STEP-DOWN TRANSFORMER FOR CONTROL POWER. TRANSFORMER INPUT VOLTAGE SHALL MATCH HEATER VOLTAGE. 11. PROVIDE WITH FACTORY-MOUNTED INTEGRAL FUSES TO MATCH EQUIPMENT MANUFACTURERS NAMEPLATE RATING. DISCONNECT SWITCH TO BE PROVIDED BY DIVISION 26. 12. PROVIDE ECM MOTORS WITH LOCAL ADJUSTMENT KNOB FOR EACH PTU, FOR TEST AND BALANCE. 13. PROVIDE ACOUSTICAL LAGGING BENEATH PTUS THAT EXTEND 2' BEYOND UNIT IN ALL DIRECTIONS. 14. ALL MOTORS SHALL BE CAPABLE OF TURNING DOWN THE FAN TO THE SCHEDULED AIRFLOW FOR THE BASIS OF DESIGN UNIT. PROVIDE MOTOR CONSTANT TORQUE PROGRAMMING (IE HTP PROGRAM) TO ALLOW FAN TURN DOWN TO SCHEDULED VALUES.															

CONSTANT VOLUME TERMINAL UNIT SCHEDULE (ELECTRIC HEAT)									
PLAN MARK	INLET SIZE	AIRFLOW			MAX AIR PRESS. DROP (IN. WG)	ELECTRIC HEATING COIL DATA			
		COOLING DESIGN (CFM)	COOLING MINIMUM (CFM)	HEATING DESIGN (CFM)		EAT (°F)	LAT (°F)	KW	HEATING CONTROL
CTU-5-1	10"	750	750	750	0.25	55	76	5.0	SCR
NOTES: 1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS. 2. UNITS SHALL BE PRESSURE INDEPENDENT, NORMALLY OPEN. 3. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880. 4. MAX NC-30 AT 1" W.C. INLET STATIC PRESSURE. PROVIDE FACTORY SOUND ATTENUATOR AS REQUIRED. 5. MANUFACTURER SHALL FACTORY MOUNT AND TEST CONTROLS ON ALL TERMINALS. 6. 1" RIGID INSULATION WITH FOIL FACE TOWARD AIRSTREAM. 7. UNITS WITH HEATERS SHALL BE VAV FOR COOLING AND CONSTANT VOLUME FOR HEATING. 8. AIR PRESSURE DROP INDICATED IS AT FULL-OPEN POSITION AND INCLUDES HEATING COIL DROP WHERE APPLICABLE. 9. MINIMUM COOLING CFM SHALL BE AS SHOWN DURING OCCUPIED MODE, BUT SHALL BE ZERO (0) CFM (FULL-SHUTOFF) DURING UNOCCUPIED COOLING MODE. 10. HEATING COILS LESS THAN 4.5KW SHALL BE 277V/PH. HEATING COILS 4.5KW AND GREATER SHALL BE 480V/PH. SINGLE-POINT CONNECTIONS. 11. PROVIDE FACTORY-INSTALLED AND WIRED STEP-DOWN TRANSFORMER FOR CONTROL POWER. TRANSFORMER INPUT VOLTAGE SHALL MATCH HEATER VOLTAGE. 12. PROVIDE WITH FACTORY-MOUNTED INTEGRAL FUSES TO MATCH EQUIPMENT MANUFACTURERS NAMEPLATE RATING. DISCONNECT SWITCH TO BE PROVIDED BY DIVISION 26.									



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PROJ. NO. E-16078.00 SHEET
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CONDENSATE PUMP SCHEDULE

MARK	MFGR	MODEL	VOLTS / PHASE	HP	GAL. PER HOUR	FT. HEAD
CP-1	LITTLE GIANT	VCMX-20ULS	120 / 1	1/30	60	10
CP-2	LITTLE GIANT	VCMX-20ULS	120 / 1	1/30	60	10
CP-3	LITTLE GIANT	VCMX-20ULS	120 / 1	1/30	60	10
CP-4	LITTLE GIANT	VCMX-20ULS	120 / 1	1/30	60	10

NOTES:

1. PROVIDE WITH MINIMUM 6 FOOT GROUNDED 3-PRONG PLUG.
2. PROVIDE WITH OVERFLOW DETECTION SWITCH.
3. PROVIDE WITH MINIMUM 3 YEAR WARRANTY.
4. CONDENSATE PUMP SHALL HAVE AUTOMATIC START AND STOP OPERATION
5. PROVIDE WITH STAINLESS STEEL MOTOR SHAFT.

CONDENSING UNIT SCHEDULE

PLAN	BASIS OF DESIGN				COOLING DATA			ELECTRICAL DATA				
	PLANT MFR	MODEL	UNIT SERVED	NUM. OF FANS	NUMBER OF COMP.	TOTAL CAPACITY (BTUH)	SEER AT AHRI CONDITIONS	AMBIENT AIR TEMP (COOLING MODE) °F	CUA	FUZE SIZE	VOLTS/ PH REF	
SSCU-1		SSC-424	CRAC-1	1	1	1800		25	25	4000	R-410A	
SSCU-1	MITSUBISHI	PUY-2ANH4	SSAC-1	1	1	2272.6	21.4	94	19	25	208/1	R-410A
SSCU-2	MITSUBISHI	PUY-2ANH4	SSAC-2	1	1	2272.6	19.6	94	19	25	208/1	R-410A
SSCU-3	MITSUBISHI	PUY-18NHK4	SSAC-3	1	1	1704.3	18.5	94	11	15	208/1	R-410A

NOTES:

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS.
2. PROVIDE CURBING FOR MOUNTING UNIT TO ROOF. CURB SHALL BE FRAMED FOR A VIBRATION FREE INSTALLATION.
3. INSTALL AS DETAILED AND PER MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
4. PROVIDE ALL CODE AND MANUFACTURERS REQUIRED CLEARANCES.
5. SEE DIVISION 26 FOR DISCONNECT.

ARCHIVES FAN COIL UNIT SCHEDULE

BASIS OF DESIGN					AIRFLOW		FAN DATA		COOLING DATA					HUMIDIFIER SECTION		FILTER SECTION			ELECTRICAL DATA			CONDENSATE PUMP		WEIGHT (LBS)
PLAN MARK	MFRG	PLAN MODEL	TYPE	AREA SERVED	TOTAL CFM	ESP	MOTOR	EAT	LAT	CAPACITY	SEN BTU/H	TOTAL BTU/H	CAPACITY (LB/HR)	KW	FILTER TYPE	FILTER QUANTITY	FILTER EFFICIENCY	MCA	MOP	VOLTS / PHASE	CONDENSATE PUMP	WEIGHT (LBS)		
CRAC-1	STULZ	TR-005L-024-AHU	AIR-COOLED SPLIT SYSTEM	ARCHIVES 1,132	900	0.3	1/4	75	62.5	58.5	53.6	17261	23097	2-5	1	7	1	1	1	480 / 3	Yes	120		

NOTES:

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS.
2. PROVIDE ONE (1) SET OF CONSTRUCTION AIR FILTERS AND ONE (1) SET OF NEW FILTERS TO BE INSTALLED AT TIME OF C.O.
3. PROVIDE SINGLE POINT (SINGLE CIRCUIT) ELECTRICAL CONNECTION
4. INSTALL PER MANUFACTURER'S WRITTEN INSULATION INSTRUCTIONS.
5. PROVIDE ALL MANUFACTURER AND CODE REQUIRED CLEARANCES.
6. SEE DIVISION 26 FOR DISCONNECT
7. ALL REFRIGERANT PIPING SHALL BE SIZED PER THE MANUFACTURERS REQUIREMENTS.
8. PROVIDE CONDENSATE PUMP: ROUTE CONDENSATE TO NEAREST HUB DRAIN, REFER TO PLUMBING DRAWINGS FOR HUB DRAIN LOCATIONS.
9. PROVIDE FLOOD SWITCH IN THE AUXILIARY (DRAIN PAN) TIED INTO THE FAN SHUTDOWN FOR SECONDARY CONDENSATE DRAINAGE SYSTEM.
10. PROVIDE WITH STEAM GENERATING CANISTER HUMIDIFIER
11. PROVIDE WITH DOUBLE SINK PANELS.
12. PROVIDE FACTORY-INSTALLED STEP-DOWN TRANSFORMER FOR CONTROL POWER. POWER TO STEP-DOWN TRANSFORMER SHALL BE FACTORY WIRED, 277V PRIMARY FOR CONTROL POWER.
13. PROVIDE DRAIN COOLER OPTION FOR HUMIDIFIER
14. PROVIDE DRAIN CONNECTION FROM HUMIDIFIER TO DRAINAGE WATER RECEPTOR.
15. PROVIDE DOMESTIC COLD WATER (COW) CONNECTION WITH ISOLATION VALVE AND BACKFLOW PREVENTOR FOR HUMIDIFIER MAKE-UP WATER CONNECTION.
16. PROVIDE MASS DISPLACEMENT COW FLOW METER ON COW MAKE-UP LINE.
17. CONDENSING UNIT MATCH W/ AHU FOLLOWS MASS DISPLACEMENT SCHEME, EXAMPLE: CRAC-1 = CRCL-1.
18. PROVIDE HOT GAS-RETURN FOR DRAIN

INDOOR FAN COIL UNITS

BASIS OF DESIGN					AIRFLOW		FAN DATA		COOLING DATA					HUMIDIFIER SECTION		FILTER SECTION			ELECTRICAL DATA				
PLAN MARK	MFRG	MODEL	TYPE	AREA SERVED	TOTAL CFM	ESP	MOTOR HP	EAT DB	WB DB	LAT DB	SEN BTU/H	CAPACITY TOTAL BTU/H	CAPACITY (LB/HR)	KW	FILTER TYPE	FILTER QUANTITY	FILTER EFFICIENCY	MCA	MOP	VOLTS / PHASE	CONDENSATE PUMP	WEIGHT (LBS)	
SSAC-1	MITSUBISHI	PKA-42AA7	WALL MOUNTED DX FCU	TELECOM EQUIPMENT 1.123	775	-	-	75	63	53.2	53.2	180639	22724.6	-	-	PLEATED	1	MERV 8	-	-	208 / 1	Yes	-
SSAC-2	MITSUBISHI	PEAD-42AA7	DUCTED DX FCU	MAIN ELECTRICAL 2.109	740	0.8	-	75	63	54.7	54.7	18071.7	22724.6	-	-	PLEATED	1	MERV 8	-	-	208 / 1	Yes	-
SSAC-3	MITSUBISHI	PKA-A18HA7	WALL-MOUNTED DX FCU	TELECOM 2.108	425	-	-	75	63	48.5	48.5	12027	22724.6	-	-	PLEATED	1	MERV 8	-	-	208 / 1	Yes	-

NOTES:

1. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS AND ADDITIONAL REQUIREMENTS.
2. PROVIDE ONE (1) SET OF CONSTRUCTION AIR FILTERS AND ONE (1) SET OF NEW FILTERS TO BE INSTALLED AT TIME OF C.O.
3. PROVIDE SINGLE UNIT SINGLE CIRCUIT ELECTRICAL CONTROL. INDOOR UNIT POWER IS SERVED FROM OUTDOOR UNIT. INSTALL ELECTRICAL ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES.
4. INSTALL PER MANUFACTURERS WRITTEN INSULATION INSTRUCTIONS.
5. PROVIDE ALL MECHANICAL CODE AND ELECTRICAL CODE REQUIREMENTS.
6. SEE DIVISION 26 FOR DISCONNECT.
7. ALL REFRIGERANT PIPING SHALL BE FOLLOWED PER THE MANUFACTURERS REQUIREMENTS.
8. CONDENSING UNIT MATCH HILL AND FOLLOW PER THE MANUFACTURERS REQUIREMENTS. EXAMPLE: SSC-1 + SSCU-1
9. PROVIDE CONDENSATE TRAP AND PIPING FROM UNIT TO NEAREST HUB. SEE PLUMBING DRAWINGS FOR HUB RAIN LOCATIONS.
10. PROVIDE FLAP SWITCH TO AUXILIARY RAIN PAN DRAIN INTO THE FAN SHUTDOWN FOR SECONDARY CONDENSATE DRAINAGE SYSTEM.
11. PROVIDE CONDENSATE TRAP FOR UNIT.



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CONTROLS GENERAL NOTES

- 1. GENERAL NOTES ARE APPLICABLE AS STATED BELOW OR EXCEPT WHERE SPECIFICALLY INDICATED ON THE CONSTRUCTION DOCUMENTS.
- 2. WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF LATEST EDITION, STANDARDS OF UNIFORM BUILDING CODE, LATEST EDITION AND CODE.
- 3. FURNISH ELECTRICAL MATERIALS AND CONTROL EQUIPMENT PER THE "NATIONAL ELECTRICAL CODE". ALLOW REQUIRED WORKING SPACE PER THE "NATIONAL ELECTRICAL CODE".
- 4. ELECTRICAL EQUIPMENT (AC AND DC) SHALL HAVE APPLICABLE U.L. OR ETL LABEL.
- 5. REFER TO GENERAL CONDITIONS OF THE SPECIFICATIONS FOR RESTRICTIONS ON DEMOLITION AND NEW CONSTRUCTION WORK.
- 6. VERIFY SITE CONDITIONS AND COORDINATE WITH OTHER WORK. CONFIRM SUBMITTAL REVIEW COMMENTS PRIOR TO PROCEEDING WITH INSTALLATION.
- 7. PRIOR TO THE START OF WORK, FIELD VERIFY EXACT LOCATIONS OF MECHANICAL AND ELECTRICAL EQUIPMENT, FIELD SENSORS, AND EQUIPMENT REQUIRING INTERFACE WITH CONTROLS.
- 8. SINGLE LINE DIAGRAMS, SCHEMATICS, DETAILS AND CONDUIT PATHS ARE CONCEPTUAL AND ILLUSTRATE THE FUNCTIONAL RELATIONSHIPS AMONG SYSTEM COMPONENTS. ACCORDINGLY, APPLICATION ENGINEERING IS REQUIRED TO ACHIEVE THE SPECIFIED REQUIREMENTS.
- 9. OUTDOOR CONDUIT FITTINGS, CONNECTIONS, JUNCTION BOXES, PANELS AND PULL BOXES ARE TO BE WATERPROOF (NEMA 4). EXTERIOR CONTROL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF.
- 10. CONDUIT ROUTINGS ARE SHOWN DIAGRAMMATICALLY. PROVIDE ANY ADDITIONAL CONDUITS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- 11. REFER TO DIVISION 26 FOR ELECTRICAL COMPONENT PRODUCT STANDARDS.
- 12. ELECTRICAL CONTROL GUTTERS TO HAVE SUFFICIENT SPACE TO ACCOMMODATE THE REQUIRED CONDUCTORS WITH 80% FREE VOLUME.
- 13. PANELS TO HAVE LOCKING DOORS AND BE KEYPAD ALIKE.
- 14. DEMONSTRATE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
- 15. COORDINATE SHOP DRAWINGS WITH OTHER TRADES, INDICATING LOCATIONS OF LIGHT FIXTURES, CABLE TRAYS, BEAMS, ELECTRICAL AND DATA CONDUITS, WIRING AND OTHER RELATED ITEMS.
- 16. COORDINATE INTERPOSING RELAY COIL VOLTAGE AND CONTACTS TO THE APPLICATION.
- 17. REVIEW SPECIFICATIONS FOR WORK REQUIREMENTS.
- 18. CONTROLS CONTRACTOR IS TO REVIEW ALL MECHANICAL, ELECTRICAL AND PLUMBING PLANS AND SPECIFICATIONS.
- 19. CONTROLS CONTRACTOR TO REVIEW ALL EQUIPMENT QUANTITIES WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
- 20. EMERGENCY POWER TO SERVE CONTROLS ON EQUIPMENT SERVED BY EMERGENCY POWER.
- 21. ALL INPUTS, OUTPUTS, SET-POINTS AND DEADBANDS SHALL HAVE GRAPHIC INDICATION.
- 22. ALL EQUIPMENT SHALL HAVE INDEPENDENT EQUIPMENT GRAPHIC PAGES WITH DYNAMIC LINKS.
- 23. CONTROLS GRAPHICS PACKAGE SHALL INCLUDE FLOORPLANS WITH DYNAMIC GRAPHIC LINKS TO RESPECTIVE EQUIPMENT GRAPHIC PAGES. CONTROLS GRAPHICS PACKAGES SHALL ALSO INCLUDE, BUT NOT BE LIMITED TO, OVERALL SITE PLAN, OVERALL FLOOR PLANS AND ENLARGED FLOOR PLANS WITH DYNAMIC GRAPHIC LINKS.
- 24. SET-POINTS, RESET SCHEDULES AND DEAD BANDS SHALL BE USER ADJUSTABLE.
- 25. ALL INPUTS AND OUTPUTS SHALL BE TRENDED. TREND ALL ANALOG INPUTS/OUTPUTS AT 15 MINUTE INTERVALS (ADJ.). TREND ALL BINARY/DIGITAL INPUTS/OUTPUTS BASED ON CHANGE OF STATE.
- 26. ALL PROCESS VARIABLES AND EQUIPMENT SHALL HAVE ALARMS AND NOTIFICATION UPON FAILURE OR NON STANDARD OPERATING CONDITIONS.

CONTROLS CABLE SCHEDULE

FUNCTION	TYPE
10/100 MBAUD ETHERNET CABLE (TIER 1 LAN), CATEGORY 5e 4 PAIR, 24 AWG, SOLID, 100% SHIELD, NON-PLENUM 15 pF/ft, 300 V RMS.	BELDEN 1533R OR EQUAL
10/100 MBAUD ETHERNET CABLE (TIER 1 LAN), CATEGORY 5e 4 PAIR, 24 AWG, SOLID, 100% SHIELD, PLENUM 15 pF/ft, 300 V RMS.	BELDEN 1533P OR EQUAL
BACNET MTSP CABLE (TIER 2 LAN), RS-485 1 PAIR, 24 AWG, STRANDED, 100% SHIELD, NON-PLENUM 12.8 pF/ft, 300 V RMS, 120 IMPEDANCE.	BELDEN 9841 OR EQUAL
BACNET MTSP CABLE (TIER 2 LAN), RS-485 1 PAIR, 24 AWG, STRANDED, 100% SHIELD, NON-PLENUM 12 pF/ft, 300 V RMS, 120 IMPEDANCE.	BELDEN 89841 OR EQUAL
1 PAIR, 18 AWG, WITH SHIELD, I/O CABLE, NON-PLENUM RATED	BELDEN 8760 OR EQUAL
1 PAIR, 18 AWG, WITH SHIELD, I/O CABLE, PLENUM RATED	BELDEN 88760 OR EQUAL
1 PAIR, 18 AWG, NO SHIELD, I/O CABLE, NON-PLENUM RATED	BELDEN 8740 OR EQUAL
1 PAIR, 18 AWG, NO SHIELD, I/O CABLE, PLENUM RATED	BELDEN 82740 OR EQUAL
3 CONDUCTOR, 18 AWG, WITH SHIELD, I/O CABLE, NON-PLENUM RATED	BELDEN 88770 OR EQUAL
3 CONDUCTOR, 18 AWG, WITH SHIELD, I/O CABLE, PLENUM RATED	BELDEN 8770 OR EQUAL
3 CONDUCTOR, 18 AWG, NO SHIELD, I/O CABLE, NON-PLENUM RATED	BELDEN 83653 OR EQUAL
3 CONDUCTOR, 18 AWG, NO SHIELD, I/O CABLE, PLENUM RATED	BELDEN 8791 OR EQUAL

CONTROLS SCOPE OF WORK MATRIX

WORK SCOPE	DIVISION 23 - MECHANICAL	DIVISION 26	DIVISION 23 - CONTROLS	NOTES/COMMENTS
120VAC/1PH/60- WITH GROUND EMERGENCY POWER TO CONTROLS DEVICES AND CONTROLLERS		POWER TO CONTROLS DEVICES, ENCLOSURES AND DAMPERS. (CONDUIT, WIRE, CIRCUIT BREAKER)	PROVIDE AND MOUNT U.L. APPROVED CONTROLS TRANSFORMERS IN ENCLOSURE WITH CLASS II TRANSFORMERS	CONTROLS CONTRACTOR TO COORDINATE CONTROL VOLTAGES OF DAMPERS AND ACTUATORS. CONTROLS CONTRACTOR TO PROVIDE 120VAC CONDUIT AND WIRE NOT INDICATED ON ELECTRICAL DRAWINGS
120VAC/1PH/60- WITH GROUND POWER (NORMAL OR E- POWER) TO ZONE TERMINAL UNIT CONTROLLERS			PROVIDE CONDUIT AND WIRE TO CONTROL PANELS	MUST INCLUDE GROUND WIRE
120VAC/1PH/60- WITH GROUND EMERGENCY POWER TO BMS CONTROLLERS/ENCLOSURES (FCUS, AHUS, PLANT, TOWER, ETC.) AND FILE SERVER(S) AND WORKSTATIONS		PROVIDE ALL CONDUIT, WIRE, AND CIRCUIT BREAKER	PROVIDE UPS AND CONFIGURATION	
ZONE TERMINAL UNITS	PROVIDE FLOW CROSS, ENCLOSURE, SHIPPING		PROVIDE CONTROLLER SHIPPING TO BOX MANUFACTURER FOR MOUNTING	MOUNTING FEES BY BOX MANUFACTURER
TIER 1 BACNET TCP/IP CABLE			PROVIDE CABLE, CONDUIT, CONNECTORS, TERMINATIONS, ETC.	
FILE SERVERS, WORK-STATIONS, HUBS, PRINTERS, CABLES, UPS			PROVIDE FILE SERVER(S), WORKSTATIONS, HUBS, PRINTERS, MONITORS, CABLES, SOFTWARE INSTALLATION AND CONFIGURATION (APPLICATION SPECIFIC)	MUST CONFORM TO OWNERS IT EQUIPMENT STANDARD
TIER 2 BACNET MS/TP CABLE			PROVIDE CABLE, CONDUIT, TERMINATIONS	
PERIPHERAL DEVICES - AS APPLICABLE (SUPPLIED)	FLOW CONTROL DAMPERS TEMPERATURE CONTROL DAMPERS AIR HANDLING UNIT BASED AIR FLOW METERS/STATIONS COMBINATION SMOKE/FIRE DAMPERS WITH OPEN & CLOSED STATUS SWITCHES DIFFERENTIAL PRESSURE INDICATION (GAUGES) DUCT SMOKE DETECTORS	3 PHASE MOTOR STARTERS, DISCONNECTS	AIR HANDLING UNIT BASED AIR FLOW TRANSMITTERS FLOW CONTROL DAMPER ACTUATORS TEMPERATURE CONTROL DAMPER ACTUATORS TEMPERATURE SWITCHES TEMPERATURE ELEMENTS TEMPERATURE TRANSMITTERS AND THERMOWELLS PRESSURE TRANSMITTERS DIFFERENTIAL PRESSURE TRANSMITTERS MOISTURE SENSORS AND SWITCHES CURRENT SENSORS AND SWITCHES PROVIDE WIRE TERMINATIONS FOR FIRE LIFE SAFETY SHUTDOWN/INTERLOCK WIRING. COORDINATE WITH FA	
SYSTEM INTERFACES - AS APPLICABLE (GATEWAYS)	VFD'S (BACNET)	EMERGENCY GENERATOR (BACNET) SWITCHGEAR (BACNET)	FIRE LIFE SAFETY-GATEWAY SECURITY SYSTEM - GATEWAY ELEVATORS - GATEWAY LIGHTING CONTROLS - GATEWAY	

AIR SIDE SYSTEM CONTROL DIAGRAM LEGEND

<div>(A) (AQ) (B) (BO) AFMS DM DPS DPT ERU FZ HS NC NO SD SHS SPS STS TS</div>	<div>ANALOG INPUT ANALOG OUTPUT BINARY/DIGITAL INPUT BINARY/DIGITAL OUTPUT AIR FLOW MEASURING STATION DAMPER MOTOR DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE TRANSDUCER ENERGY RECOVERY UNIT FREEZE/STAT HUMIDITY SENSOR NORMALLY CLOSED NORMALLY OPEN SMOKE DETECTOR SPACE HUMIDITY SENSOR STATIC PRESSURE SWITCH SPACE TEMPERATURE SENSOR TEMPERATURE SENSOR</div>
<div></div>	<div>DIFFERENTIAL PRESSURE SWITCH (DPS) OR TRANSMITTER (DPT) AVERAGING TEMPERATURE SENSOR PROBE TYPE TEMPERATURE SENSOR HUMIDITY SENSOR TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE DUCT MOUNTED SMOKE DETECTOR MOTORIZED DAMPER AND ACTUATOR SMOKE DAMPER AND ACTUATOR STARTER DISCONNECT DISCONNECT FAN AIR FILTER WALL-MOUNTED THERMOSTAT/TEMP. SENSOR HUMIDITY SENSOR, CO2 SENSOR, ETC. AS NOTED COOLING COIL AIRFLOW DIRECTION (BREAK INDICATES SEPARATION FROM AHU.) VARIABLE FREQUENCY DRIVE ELECTRIC DUCT HEATER INTERLOCK RELAY RELAY AIR FLOW MEASUREMENT STATION CURRENT SWITCH (CS) W/ HIGH AND LOW CURRENT SETTINGS OR TRANSMITTER (CT) POWER MONITOR CABLE OR WIRE END SWITCHES</div>

- GENERAL CONTROL NOTES:
- 1. SET-POINTS, RESET SCHEDULES AND DEAD BANDS SHALL BE USER ADJUSTABLE.
 - 2. ALL INPUTS AND OUTPUTS SHALL BE TRENDED.
 - 3. ALL PROCESS VARIABLES AND EQUIPMENT SHALL HAVE ALARMS AND NOTIFICATION UPON FAILURE OR NON STANDARD OPERATING CONDITIONS.



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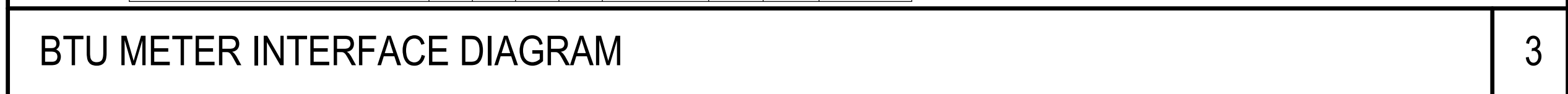


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MECHANICAL CONTROLS

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MECHANICAL CONTROLS

M902

GENERAL EXHAUST FAN CONTROL POINT MATRIX								
	Hardware Points				Software Points			
Point Name	AI	AO	BI	BO	Schedule	Trend	Alarm	Show On Graphic
Exhaust Fan Start/Stop								
Exhaust Fan Current Sensor								

CONTROL DIAGRAM FOR ELECTRICAL ROOM EXHAUST FAN

No Scale

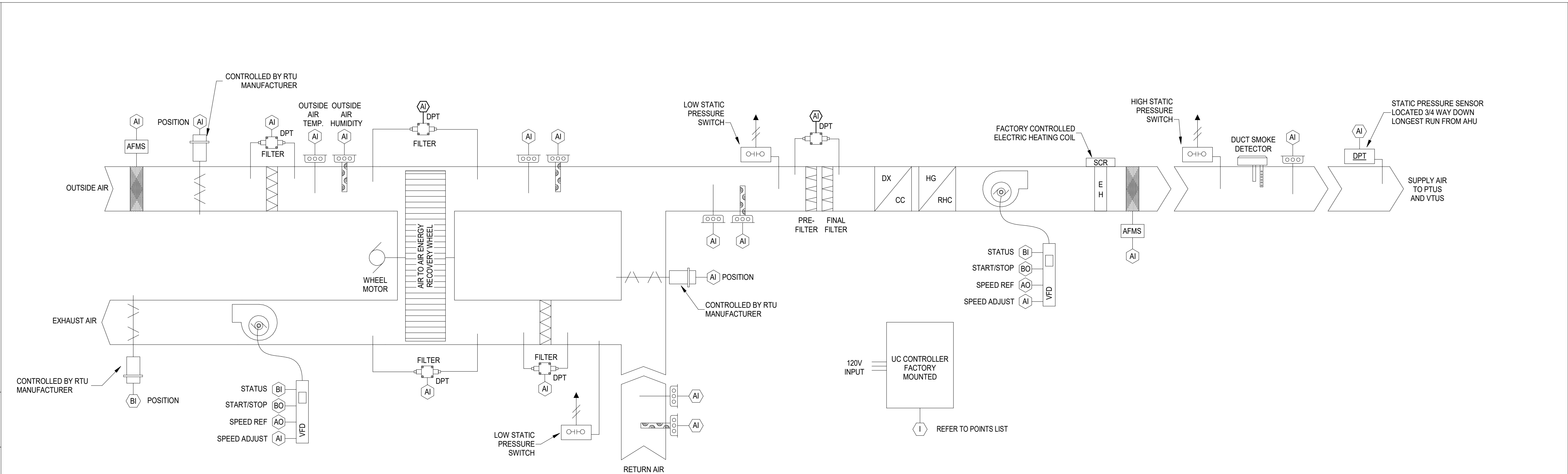
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GENERATOR CONTROL POINT MATRIX								
	Hardware Points				Software Points			
Point Name	AI	AO	BI	BO	Schedule	Trend	Alarm	Show On Graphic
Generator Status Fault								
Generator Alarm								
Generator Run Time								
Generatir Input Status								
Generator Output Status								
Generator Run Input								

GENERATOR MONITORING

No Scale

9



VAV DX AHU CONTROL DIAGRAM (AHU-XX)

No Scale

1

VAV RTU WITH ENERGY RECOVERY CONTROL POINT MATRIX								
	Hardware Points				Software Points			
Point Name	AI	AO	BI	BO	Schedule	Trend	Alarm	Show On Graphic
Space Temperature								
Spare RH								
Space Temperature Setpoint								
Space RH Setpoint								
Discharge Air Setpoint								
Discharge Air Setpoint								
Supply Fan Speed								
Supply Fan Speed Setpoint								
Supply Fan Static Setpoint								
Supply Fan Static								
Supply Fan VFD Alarm								
Supply Air Low Static								
Supply Air High Static								
Supply Fan Enable/Disable								
Return Duct/Space Pressure								
Exhaust Fan Speed								
Exhasut Fan Speed Setpoint								
Exhaust Air Static Setpoint								
Exhaust Fan VFM Alarm								
Exhaust Fan Enable/Disable								
Outside Air Temperature								
Exhaust Fan Low Static								
Exhaust Fan High Static								
Outside Air Humidity								
ERV Enable/Disable								
ERV Status								
Outside Air Damper Position								
Return Air Damper Position								
Wheel Bypass Position								
Outside Air Damper Position Setpoint								
Return Air Damper Position Setpoint								
Wheel Bypass Position Setpoint								
Heating Enable/Disable								
Heating SCR								
Cooling LAT								
Reheat LAT								
Digital Circuit 1 Status								
Digital Circuit 1 Speed								
Digital Circuit 1 Head Pressure								
Compressor Status								
Condensing Fan Status								
Condensing Fan Speed								
Space CO2								
OA CO2								
DAT Low								
DAT Exceed								
Outside Air Damper Proving Switch								
Supply Fan Failure								
Filter Change Required								

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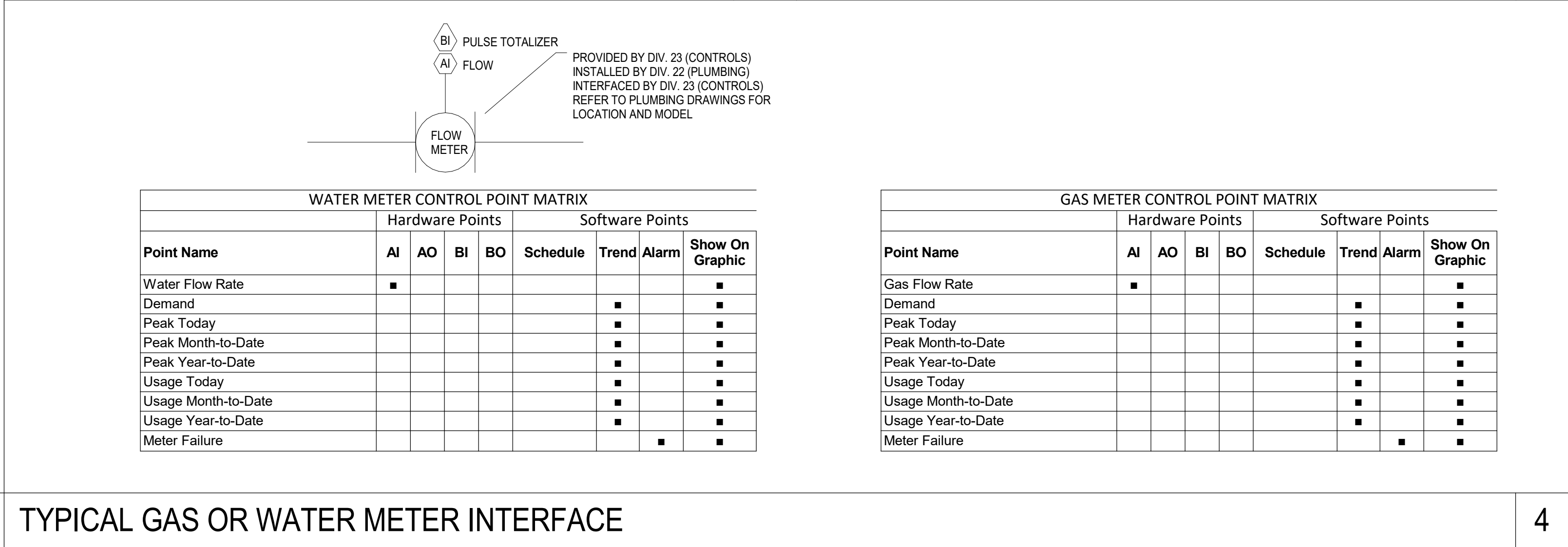
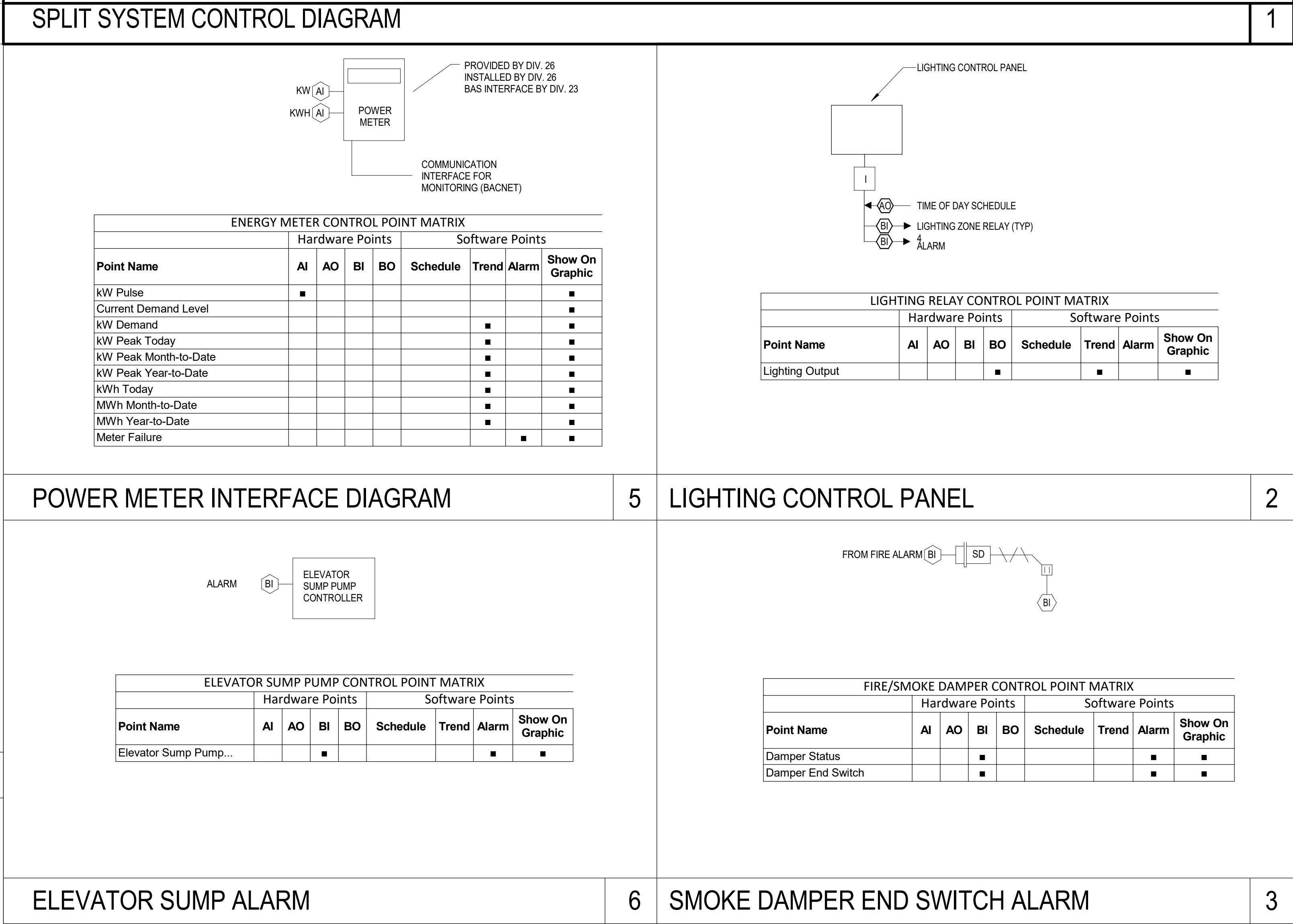
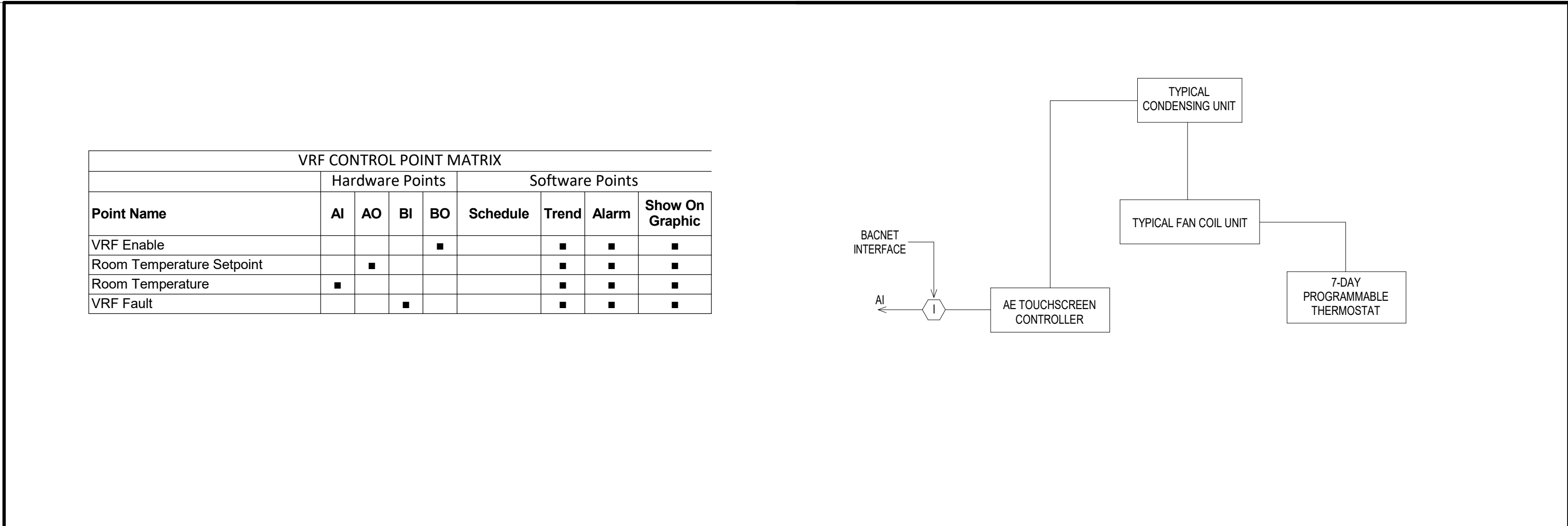
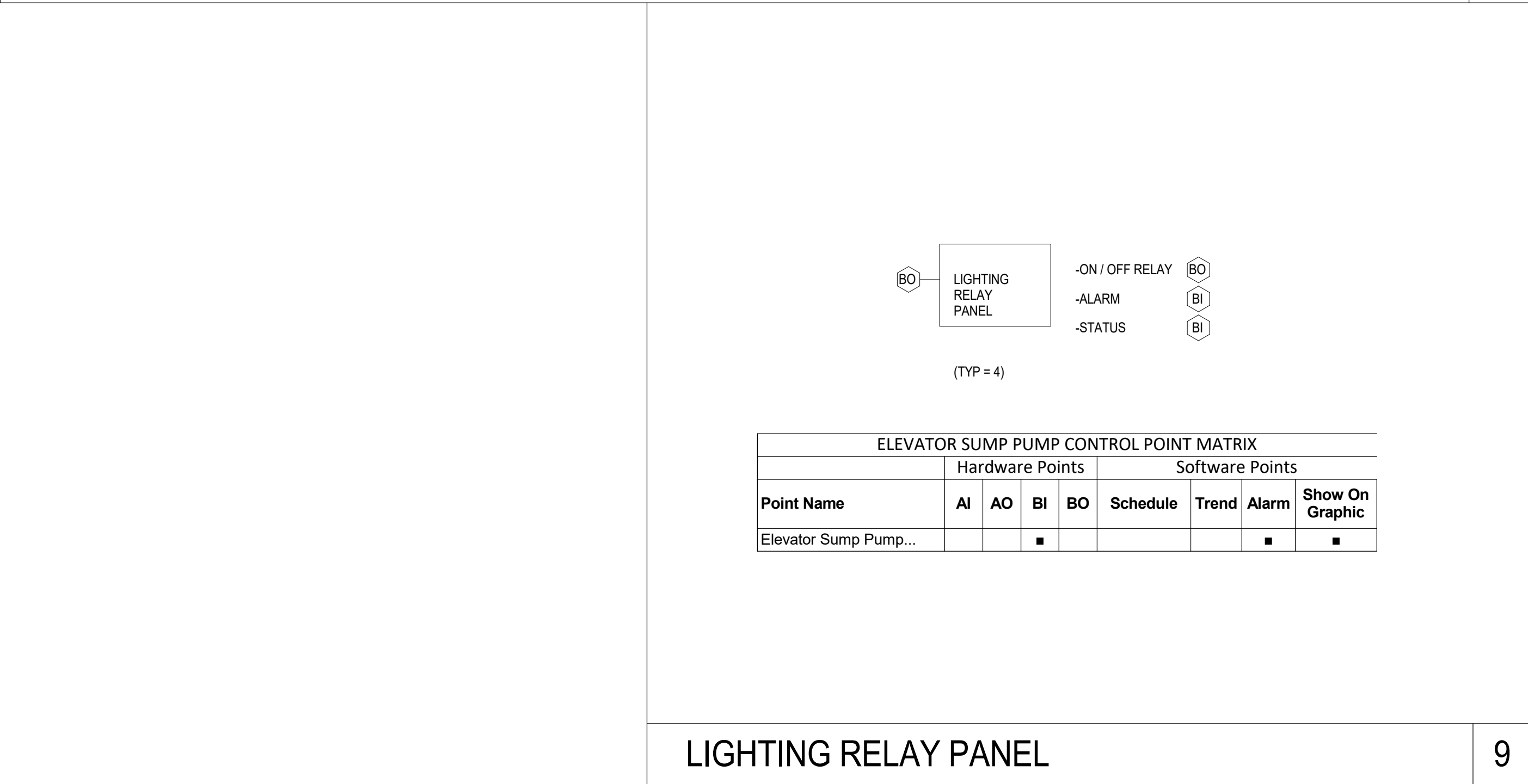
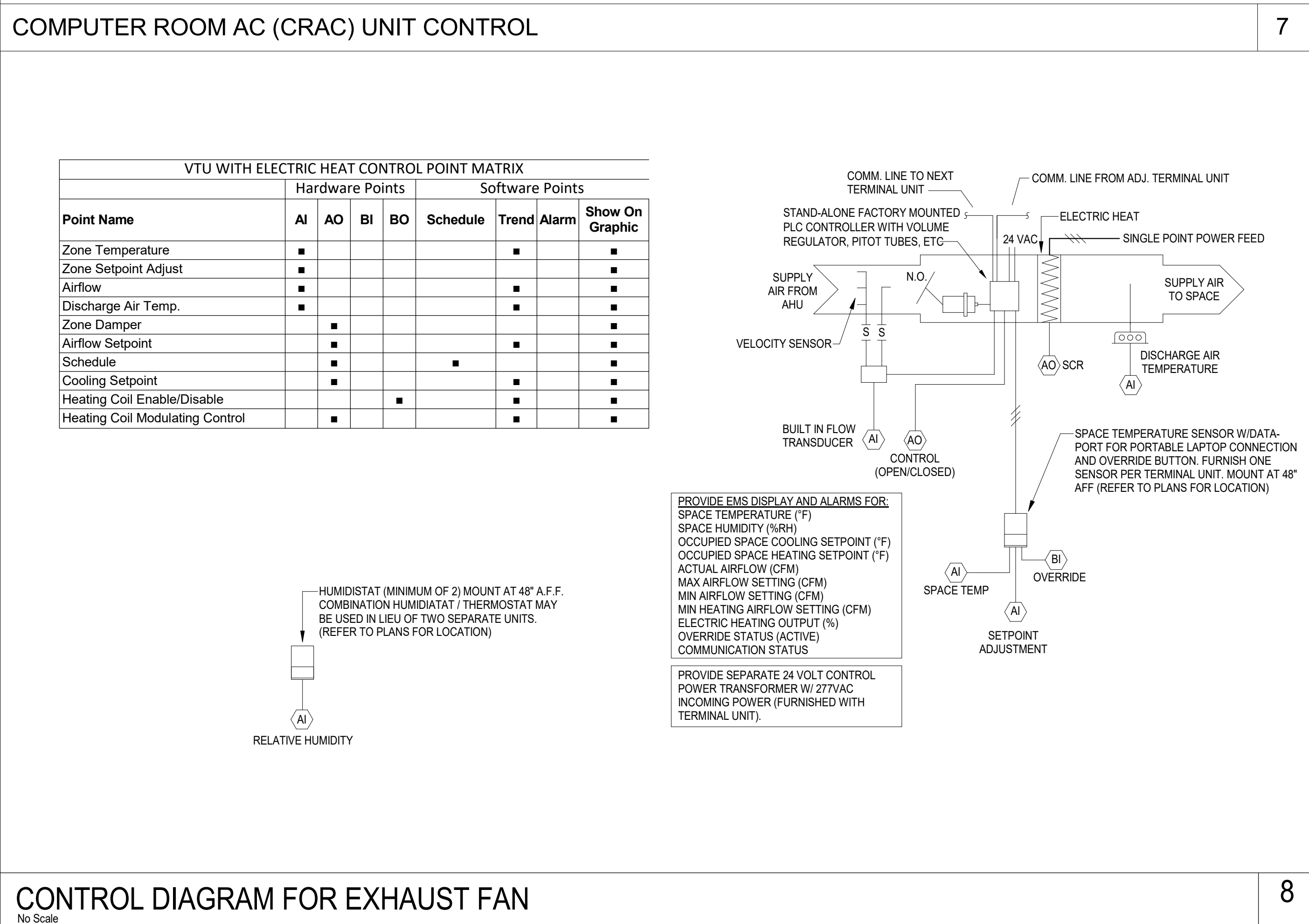
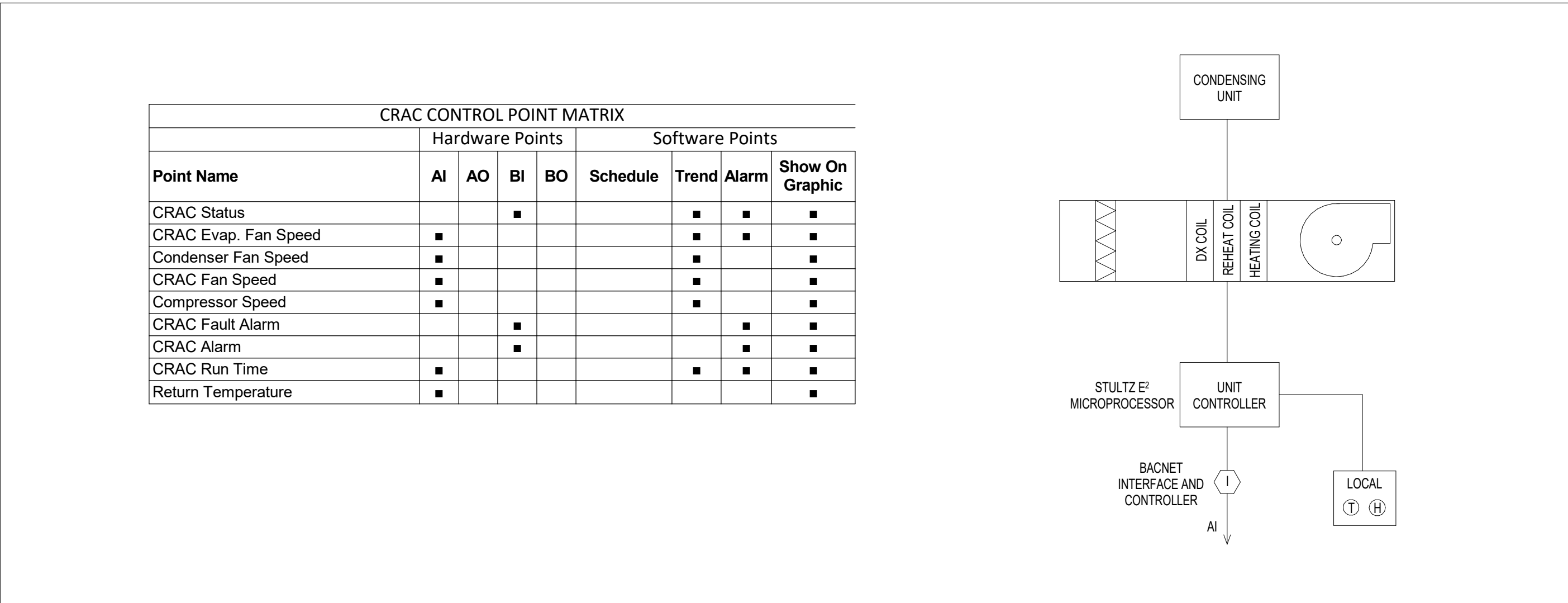
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MECHANICAL CONTROLS

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MECHANICAL CONTROLS

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PLUMBING FIXTURE SCHEDULE									
		FIXTURE			TRIM				
SEQUENCE	MARK	TYPE	MANUFACTURER	MODEL	MANUFACTURER	MODEL	FLOW RATE / FLOW CYCLE	DESCRIPTION / SPECIFICATIONS	
3WH	WC-1	WATER CLOSET	AMERICAN STANDARD	2257.101	SLOAN	ECOS 8111-1.28 OR	1.28 GPF	WALL HUNG VITREOUS CHINA, WITH SIPHON JETTED ELONGATED BOWL, BATTERY POWERED SENSOR FLUSH VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
4WH	WC-2	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	2257.101	SLOAN	ECOS 8111-1.28 OR	1.28 GPF	WALL HUNG VITREOUS CHINA, WITH SIPHON JETTED ELONGATED BOWL, BATTERY POWERED SENSOR FLUSH VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
101	U-1	URINAL	AMERICAN STANDARD	6590.001	SLOAN	ECOS 8186-0.125 OR	0.125 GPF	WALL HUNG VITREOUS CHINA, SIPHON JET URINAL, INTEGRAL TRAP, BATTERY POWERED SENSOR FLUSH VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
102	U-2	URINAL (ACCESSIBLE)	AMERICAN STANDARD	6590.001	SLOAN	ECOS 8186-0.125 OR	0.125 GPF	WALL HUNG VITREOUS CHINA, SIPHON JET URINAL, INTEGRAL TRAP, BATTERY POWERED SENSOR FLUSH VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
202.1	L-1	UNDERMOUNT LAVATORY	KOHLER	K-20000	SLOAN	SF-2250-BAT-C P-FCT-LAN-R	0.5 GPM	VITREOUS CHINA, UNDERMOUNT, 13" X 18" RECTANGULAR, SINGLE HOLE GOOSENECK SENSOR FAUCET, THERMOSTATIC MIXING VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
202.2	L-2	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	0356.421	SLOAN	SF-2250-BAT-C P-FCT-LAN-R	0.5 GPM	WALL HUNG VITREOUS CHINA FOR CONCEALED ARMS SUPPORT, 20" X 18", SINGLE HOLE GOOSENECK SENSOR FAUCET, THERMOSTATIC MIXING VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
202.3	L-3	UNDERMOUNT LAVATORY	KOHLER	K-20000	KOHLER	K-14410-4-BL	1.2 GPM	VITREOUS CHINA, UNDERMOUNT, 13" X 18" RECTANGULAR, BRASS FAUCET WITH LEVER HANDLE, 8" CENTERS, POP-UP DRAIN, BLACK MATTE FINISH, THERMOSTATIC MIXING VALVE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
501.1	S-1	SELF RIMMING SINK	ELKAY	LRA0205165PFD	KOHLER	K-7507	1.5 GPM	TYPE 304 18-8 STAINLESS STEEL 26" X 21-1/4" X 1/2" DEEP, INTERIOR AND TOP SURFACES SHALL BE POLISHED TO A HIGH LUSTER FINISH. PROVIDE SINK WITH CRUMB CUP STRAINER, 8" CHROME PLATED BRASS FAUCET.	
501.2	S-2	SELF RIMMING SINK	ELKAY	DLRS3322104	MOEN	K-7507	1.5 GPM	TYPE 304 18-8 STAINLESS STEEL 33" X 22" X 10-1/8" DEEP, INTERIOR AND TOP SURFACES SHALL BE POLISHED TO A HIGH LUSTER FINISH. PROVIDE SINK WITH CRUMB CUP STRAINER, 8" CHROME PLATED BRASS FAUCET.	
501.33	P__	FOOD SERVICE SINK/EQUIP	--	--	--	--	--	FOOD SERVICE SINK AND EQUIPMENT. SEE FOOD SERVICE DRAWINGS. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
601	OB-1	WASHING MACHINE SUPPLY AND DRAIN BOX	GUY GREY	MWB19	N/A	N/A	N/A	11/4" RECESSED SUPPLY BOX WITH WALL FLANGE MANUFACTURED FROM 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH. FURNISH WITH SUPPLY VALVES AND 2" DRAIN OUTLET.	
700	MS-1	MOP SINK	STERN-WILLIAMS	SB-900-8P	T & S BRASS	B-0665-BSTP	2.5 GPM	FLOOR MOUNTED PRECAST TERRAZZO WITH STAINLESS STEEL CAP, 24"x24"x1/2", DRAIN BODY SHALL BE STAINLESS STEEL, CAST IRON BODY FOR ADDITIONAL, GALVANIZED LEAD CONNECTION AND NOT LESS THAN 1" DEEP TO A 3" PIPE. REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
701	MS-2	MOP SINK	ELKAY	EF5263C	T & S BRASS	B-0665-BSTP	2.5 GPM	FLOOR MOUNTED STAINLESS STEEL MOP SINK, PRECAST TERRAZZO WITH STAINLESS STEEL CAP, 24"x24"x1/2", REFER TO NOTES BELOW FOR ADDITIONAL REQUIREMENTS.	
800	EWV-1	ELECTRIC WATER COOLER W/BOTTLE FILLER	ELKAY	LZW5-LRPB2M8K	N/A	N/A	9.0 GPH	TYPE 304 18-8 STAINLESS STEEL, TWO-LEVEL WHEELCHAIR ACCESSIBLE WATER COOLER WITH RECESSED REFRIGERATION SYSTEM, WATER SENSITRY FILTER SYSTEM AND STAINLESS STEEL WALL GRILL, CONTOURED BASIN RECESSED INTO STAINLESS STEEL TUBULAR SUPPORT ARM, RATED AT 1.5 GPH, 5 FULL LOAD AMPERS, 5/75 WATTS, 115 VOLTS, AND WEIGHTS 140 LBS.	
900	RD-1	ROOF DRAIN (PRIMARY)	ZURN	ZC-100-ERC	N/A	N/A	--	15" DIAMETER, DURA COATED CAST IRON BODY WITH FLASHING CLAMP, SUMP RECEIVER AND UNDER DECK CLAMP, DRAIN SHALL HAVE COMBINATION MEMBRANE GRAVEL STOP AND GALVANIZED CAST IRON DOME.	
901	RD-2	ROOF DRAIN (OVERFLOW)	ZURN	ZC-100-ERC-89	N/A	N/A	--	15" DIAMETER, DURA COATED CAST IRON BODY WITH 2" INTERNAL WATER DAM, FLASHING CLAMP, SUMP RECEIVER AND UNDER DECK CLAMP, DRAIN SHALL HAVE COMBINATION MEMBRANE GRAVEL STOP AND GALVANIZED CAST IRON DOME.	
913	PD-1	PLANTER DRAIN	WATTS	FD-890	N/A	N/A	N/A	PLANTER DRAIN, EPOXY COATED CAST IRON BODY, MULTILEVEL PLANTER DRAIN WITH BOTTOM FLASHING CLAMP AND STAINLESS STEEL SCREENED ALUMINUM DOME. PERFORATED ABS STANDPIPE, UPPER SELF LOCKING STAINLESS STEEL SCREENED ALUMINUM DOME. PAINT TOP DOME WITH 2 COATS OF BLACK EPOXY.	
1003	FD-1	FLOOR DRAIN	WATTS	FD-1100-A	N/A	N/A	N/A	EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, ADJUSTABLE 6" ROUND STAINLESS STEEL STRAINER, NO-HUB OUTLET, AND TRAP PRIMER CONNECTION.	
1011	FD-2	FLOOR DRAIN	WATTS	FD-1100-L	N/A	N/A	N/A	EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, ADJUSTABLE 6" SQUARE STAINLESS STEEL STRAINER, NO-HUB STRAIGHT, AND TRAP PRIMER CONNECTION.	
1021	FS-1	FLOOR SINK	WATTS	FS-750	N/A	N/A	N/A	12"x12"x10" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON RATE, ALUMINUM DOME BOTTOM STRAINER, AND NO-HUB OUTLET.	
1060	DSN-1	DOWNSPOUT NOZZLE	WATTS	RD-940	N/A	N/A	N/A	CAST NICKEL BRONZE DOWNSPOUT NOZZLE WITH ANCHOR FLANGE, COUNTERSUNK MOUNTING HOLES. SEE PLANS FOR OUTLET SIZES REQUIRED.	
1071	TD-1	TRENCH DRAIN	ZURN	Z882-HPDE	N/A	N/A	N/A	12" WIDE TOP MODULAR TRENCH DRAIN, HIGH DENSITY POLYETHYLENE CHANNEL WITH HEAL PROOF DUTTLE IRON GRATE WITH BOTTOM OUTLET. SEE PLANS FOR OUTLET SIZES REQUIRED.	
1100	WH-1	WALL HYDRANT IN LOCKED BOX	WOODFORD	B65	N/A	N/A	N/A	FREEZE PROOF ENCLOSED WALL ANTI-SIPHON WALL HYDRANT COMPLETE WITH BRONZE CASING, VACUUM BREAKER, ALL BRONZE INTERIOR PARTS AND NO-HUB ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE. WATER BOX DOOR SHALL BE BRASS CASTING WITH CHROME FINISH AND OPERATING KEY.	
1102	HB-1	HOSE BIB	WOODFORD	24P-34 CP	N/A	N/A	N/A	ANTI-SIPHON VACUUM BREAKER PROTECTED HOSE BIB LOOSE KEY HANDLE, CHROME PLATED.	
1105	YH-1	YARD HYDRANT IN LOCKED BOX	JR SMITH	5830	N/A	N/A	N/A	FREEZE PROOF ENCLOSED ANTI-SIPHON YARD HYDRANT COMPLETE WITH HEAVY DUTY GREY IRON CASTING WITH BLACK ANEMIL FINISH AND LOCKING DOOR AND OPERATING KEY.	

NOTES:

- WATER CLOSET HARDWARE:
TOILET SEAT - BEMIS No. 1655SS, EXTRA HEAVY SOLID PLASTIC WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGE, OPEN FRONT WITHOUT COVER.
FIXTURE CARRIER - WATTS RGA-102-UR, EXTRA-HEAVY DUTY (1,000 lbs) BARIATRIC CARRIER COMPLIANT WITH ASME A112.6.1M, SINGLE VERTICAL, THIN WALL WATER CLOSET CARRIER WITH EPOXY COATED CAST IRON FITTING, NO HUB WASTE (3"), AND VENT (2") CONNECTIONS, EPOXY COATED CAST IRON PATENTED COMPRESSION SEAL FACE PLATE ASSEMBLY, EPOXY COATED CAST IRON FOOT SUPPORTS ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, ADJUSTABLE ABS NIPPLE WITH INTEGRAL TEST CAP AND NEOPRENE BOWL GASKET, PLATED HARDWARE AND CHROME CAP NUTS.
- URNAL HARDWARE:
FIXTURE CARRIER - WATTS No. CA-321, FULLY ADJUSTABLE URINAL CARRIER WITH HEAVY GAUGE STEEL OFFSET UPRIGHTS, ADJUSTED TO ACCESSIBLE HEIGHT.
- LAVATORY HARDWARE:
STRAINER/TRAP - MCGUIRE No. 155A-8902, CHROME PLATED STRAINER, CAST GRID STRAINER WITH 1-1/4" TAILPIECE, PLATED 17 GAUGE 1/4" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. (ADA DEPTH SINKS SHALL HAVE OFFSET TAILPIECES MCGUIRE No. 155WC/8902).
SUPPLIES - MCGUIRE No. 2165CC, 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 1/2" FLEXIBLE RISERS AND ESCUTCHEONS.
INSULATION KIT - EXPOSED SUPPLIES AND TRAPS ARE TO BE PROTECTED WITH INSULATION ITS EQUAL, TO PLUMBERX No. 4333
FIXTURE CARRIER - WATTS No. WCA-411, CONCEALED ANIMA FLOOR MOUNTED CARRIER COATED STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, STEEL SLEEVES, ALIGNMENT TRUSS AND FASTENERS.
THERMOSTATIC MIXING VALVE - PROVIDE THERMOSTATIC MIXING VALVE WHERE NOT PROVIDED BY FAUCET MANUFACTURER.
- SINK HARDWARE:
TRAP - MCGUIRE No. 8912, CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. (ADA DEPTH SINKS SHALL HAVE OFFSET TAILPIECES MCGUIRE No. 155WC/8902).
SUPPLIES - MCGUIRE No. 2165CC, 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 1/2" FLEXIBLE RISERS AND ESCUTCHEONS.
- MOP SINK HARDWARE:
HOSE AND WALL HOOK - STERN WILLIAMS No. T-35, 36" LONG HOSE AND STAINLESS STEEL WALL BRACKET.
- ELECTRIC WATER COOLER / DRINKING FOUNTAIN HARDWARE:
FIXTURE CARRIER - WATTS No. CA-431-1, FLOOR MOUNTED B-LEVEL WATER COOLER CARRIER WITH HEAVY GAUGE STEEL UPRIGHTS WITH INTEGRAL WELDED FEET, UNIVERSAL STEEL HANGER SUPPORT PLATE, AND PLATED HARDWARE.

GAS WATER HEATER SCHEDULE														
MARK	MANUFACTURER	MODEL	FUEL TYPE	GAS INPUT (BTU/Hr)	GAS PRESSURE (PSI)	RECOVERY (GPH) @ 70°F	STORAGE CAPACITY (GAL)	STORAGE TEMP (°F)	ELECTRICAL			DIMENSIONS		OPERATING WEIGHT (LBS)
									VOLTAGE	PHASE	HERTZ	DIAMETER	HEIGHT	
GW-H	A. O. Smith	BTH-120	NATURAL	120,000 Btu/h	10.5 in. W.C.	197	60	140	120 V	1	60 Hz	2'-3 3/4"	55 1/2"	1000

ELECTRIC WATER HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	STORAGE TEMP (°F)	DELIVERY TEMP (°F)	ELECTRICAL				RECOVERY (60° F RISE)	DIMENSIONS	OPERATING WEIGHT (LBS)
						KW	VOLTS	PHASE	HERTZ			
EWH-1	LOCHINVAR	HCW12 050	50	130	110	12	277	1	60	31	48" (Height) x 20" (Dia.)	690

PLUMBING SYMBOLS		PLUMBING ABBREVIATIONS	
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
	- CONDENSATE DRAIN PIPING	CA	COMPRESSED AIR
	- DOMESTIC COLD WATER PIPING	AFB	ABOVE FINISH FLOOR
	- DOMESTIC HOT WATER PIPING	AW	ACID WASTE
	- DOMESTIC HOT WATER RETURN PIPING	AV	ACID VENT
	- DOMESTIC HOT WATER RETURN PIPING	CB	CATCH BASIN
	- DOMESTIC HOT WATER RETURN PIPING	CD	CONDENSATE DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	CH	CUBIC FEET PER HOUR
	- DOMESTIC HOT WATER RETURN PIPING	CO	CLEANOUT
	- DOMESTIC HOT WATER RETURN PIPING	CONT	CONTINUATION
	- DOMESTIC HOT WATER RETURN PIPING	CW	CONDENSATE COLD WATER
	- DOMESTIC HOT WATER RETURN PIPING	DS	DESIGNED WATER
	- DOMESTIC HOT WATER RETURN PIPING	DN	DOWN
	- DOMESTIC HOT WATER RETURN PIPING	DS	DOWNSPOUT
	- DOMESTIC HOT WATER RETURN PIPING	DWG	DRAWING
	- DOMESTIC HOT WATER RETURN PIPING	EXIST	EXISTING
	- DOMESTIC HOT WATER RETURN PIPING	F	DEGREE FAHRENHEIT
	- DOMESTIC HOT WATER RETURN PIPING	FOO	FLOOR CLEANOUT
	- DOMESTIC HOT WATER RETURN PIPING	FD	FLOOR DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	FOP	FUEL OIL FILL
	- DOMESTIC HOT WATER RETURN PIPING	FOG	FUEL OIL GAGE
	- DOMESTIC HOT WATER RETURN PIPING	FOR	FUEL OIL RETURN
	- DOMESTIC HOT WATER RETURN PIPING	FOS	FUEL OIL SUPPLY
	- DOMESTIC HOT WATER RETURN PIPING	FOV	FUEL OIL VENT
	- DOMESTIC HOT WATER RETURN PIPING	FS	FLOOR SINK
	- DOMESTIC HOT WATER RETURN PIPING	FSEB	FOODSERVICE EQUIPMENT NUMBER
	- DOMESTIC HOT WATER RETURN PIPING	G	GAS
	- DOMESTIC HOT WATER RETURN PIPING	GPH	GALLONS PER HOUR
	- DOMESTIC HOT WATER RETURN PIPING	GPM	GALLONS PER MINUTE
	- DOMESTIC HOT WATER RETURN PIPING	GR	KITCHEN WASTE (GREASE)
	- DOMESTIC HOT WATER RETURN PIPING	HB	HOSE BBB
	- DOMESTIC HOT WATER RETURN PIPING	HD	HUB DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	HW	DOMESTIC HOT WATER
	- DOMESTIC HOT WATER RETURN PIPING	HWIR	DOMESTIC HOT WATER RECIRCULATING
	- DOMESTIC HOT WATER RETURN PIPING	I	INVERT ELEVATION
	- DOMESTIC HOT WATER RETURN PIPING	IW	INDIRECT WASTE
	- DOMESTIC HOT WATER RETURN PIPING	KW	KILOWATT
	- DOMESTIC HOT WATER RETURN PIPING	LES	POUNDS
	- DOMESTIC HOT WATER RETURN PIPING	MH	MANHOLE
	- DOMESTIC HOT WATER RETURN PIPING	NC	NORMALLY CLOSED
	- DOMESTIC HOT WATER RETURN PIPING	NC	NOT IN CONTACT
	- DOMESTIC HOT WATER RETURN PIPING	NO	NORMALLY OPEN
	- DOMESTIC HOT WATER RETURN PIPING	NP	NON-POTABLE WATER
	- DOMESTIC HOT WATER RETURN PIPING	NTS	NOT TO SCALE
	- DOMESTIC HOT WATER RETURN PIPING	OD	OUTSIDE DIAMETER
	- DOMESTIC HOT WATER RETURN PIPING	PRV	PRESSURE REDUCING VALVE
	- DOMESTIC HOT WATER RETURN PIPING	PSI	POUNDS PER SQUARE INCH
	- DOMESTIC HOT WATER RETURN PIPING	PVC	POLYVINYL CHLORIDE PIPE
	- DOMESTIC HOT WATER RETURN PIPING	RD	ROOF DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
	- DOMESTIC HOT WATER RETURN PIPING	SAN	SANITARY
	- DOMESTIC HOT WATER RETURN PIPING	SD	STORM DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	SF	SQUARE FEET
	- DOMESTIC HOT WATER RETURN PIPING	SH	SHEET
	- DOMESTIC HOT WATER RETURN PIPING	ST	STORM
	- DOMESTIC HOT WATER RETURN PIPING	STO	OVERFLOW STORM DRAIN
	- DOMESTIC HOT WATER RETURN PIPING	SW	SOFT COLD WATER
	- DOMESTIC HOT WATER RETURN PIPING	V	VENT
	- DOMESTIC HOT WATER RETURN PIPING	VAC	VACUUM
	- DOMESTIC HOT WATER RETURN PIPING	VC	VACUUM CLEANING
	- DOMESTIC HOT WATER RETURN PIPING	VTR	VENT THRU ROOF
	- DOMESTIC HOT WATER RETURN PIPING	WCO	WALL CLEANOUT
	- DOMESTIC HOT WATER RETURN PIPING	WTR	WATER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

PLUMBING GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE REQUIRED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
4. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
5. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
6. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
9. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
12. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
13. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
14. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
15. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
16. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
17. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
18. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
19. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
20. COORDINATE EXISTING FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BEHIND FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
21. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
22. ALL WALL MOUNTED VALVETURES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
23. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED SPTS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
24. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLenums SHALL BE NON-COMBUSTIBLE AND BE RATED FOR USE IN A RETURN AIR PLenum SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLenums, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE PROOF FIBER WRAP (I.E. FIREWRAP 0.5 PLenum INSULATION OR APPROVED EQL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHANICAL DRAWINGS FOR RETURN AIR PLenum LOCATIONS.)
25. PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLenum SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

PLUMBING DRAWING INDEX	
SHEET	DESCRIPTION
P001	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX
P011	PLUMBING SITE PLAN
P101	PLUMBING PLAN - BASEMENT LEVEL - AREA 1 - LIBRARY
P111	PLUMBING PLAN - 1ST LEVEL - AREA 1 - LIBRARY
P121	PLUMBING PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER
P113	PLUMBING PLAN - 1ST LEVEL AND ROOF - AREA 3 - FORTE COCHERE
P112	PLUMBING PLAN - 2ND LEVEL - AREA 1 - LIBRARY
P122	PLUMBING PLAN - 2ND LEVEL - AREA 2 - EVENTS CENTER
P131	PLUMBING ROOF PLAN - AREA 1 - LIBRARY
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P502	PLUMBING ENLARGED PLANS
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P602	PLUMBING RISERS
P603	PLUMBING RISERS
P604	PLUMBING RISERS
P605	PLUMBING RISERS
P606	PLUMBING RISERS
P701	PLUMBING DETAILS

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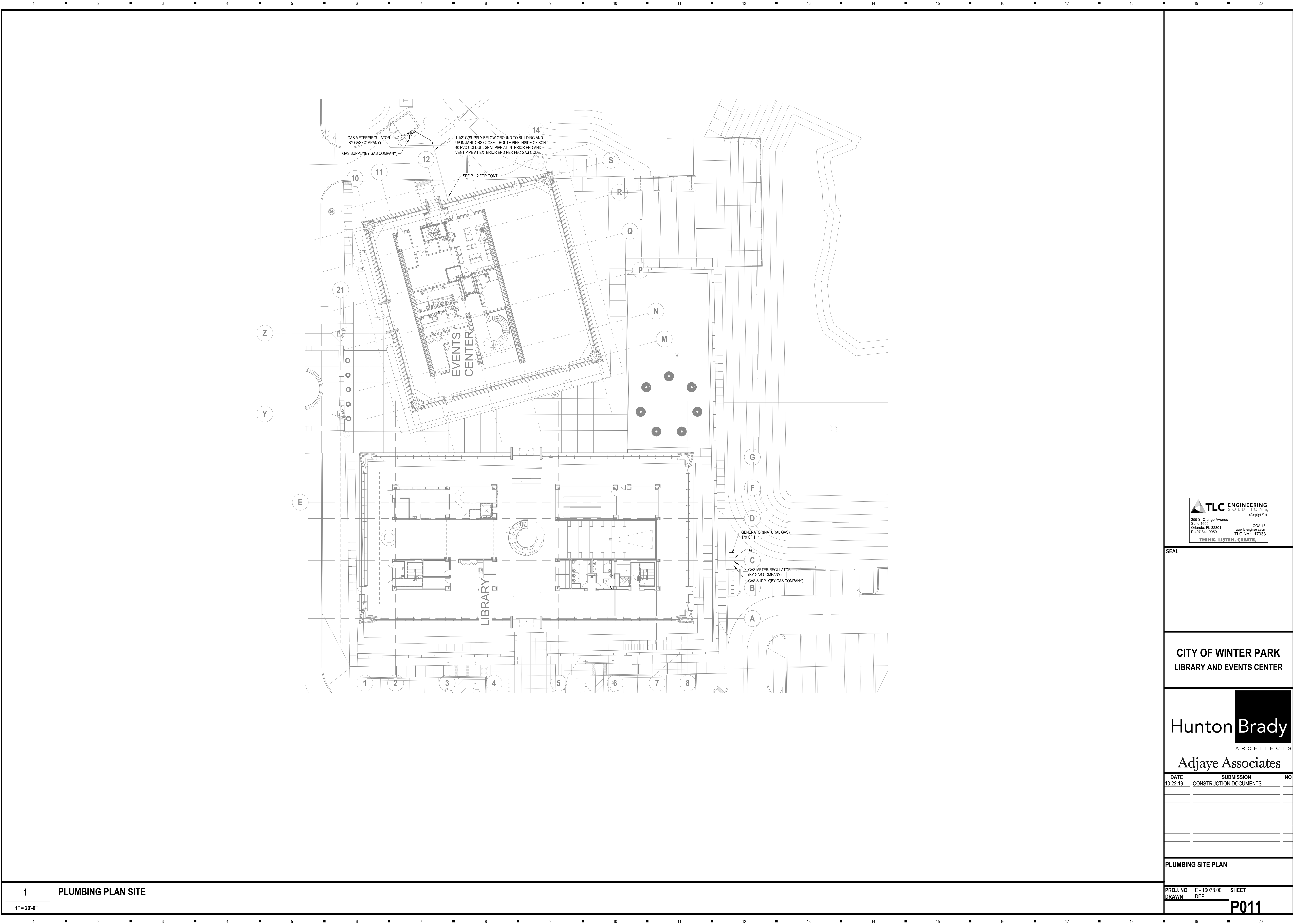
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PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX

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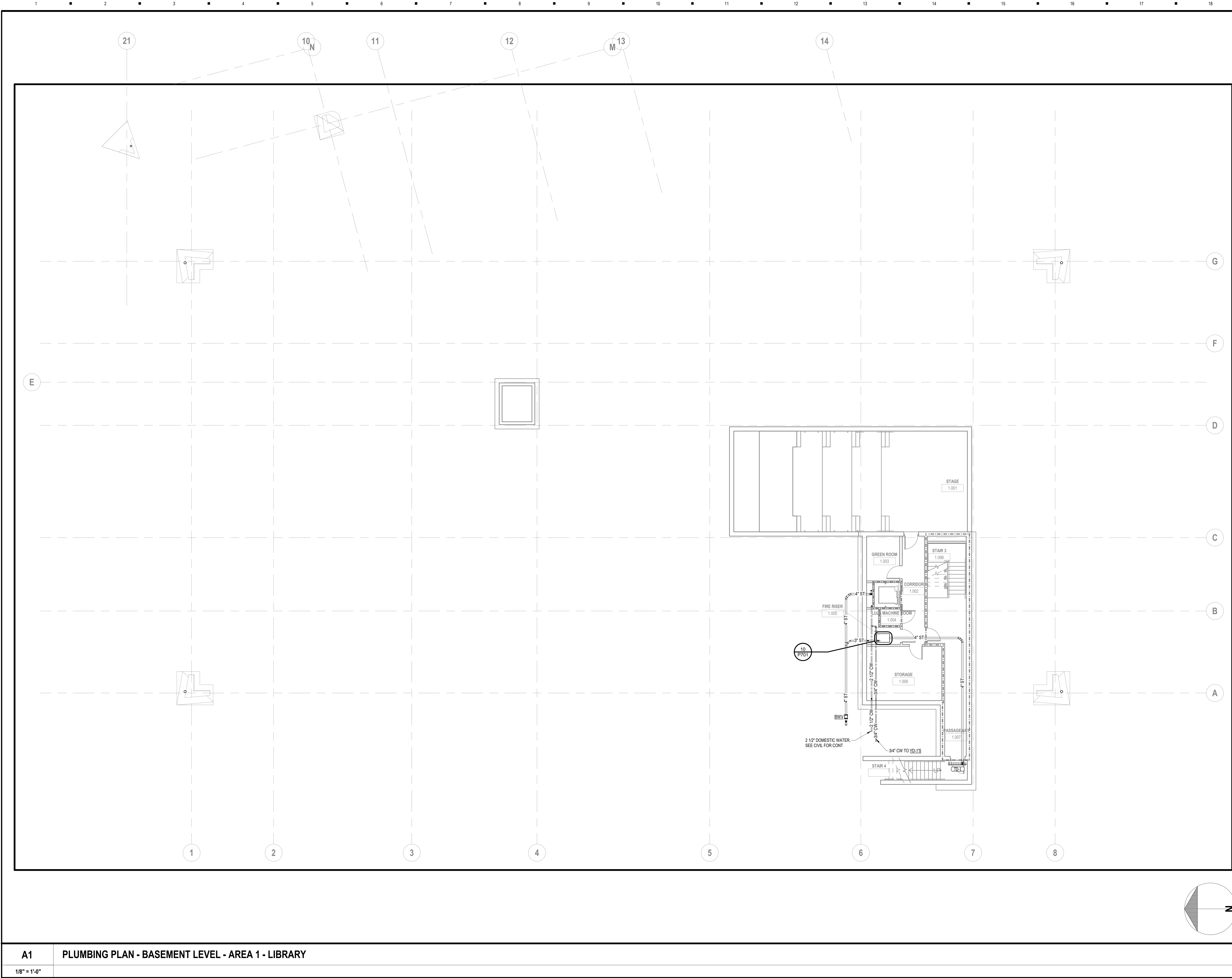
DATE	SUBMISSION	NO
10.22.19	CONSTRUCTION DOCUMENTS	1

PLUMBING SITE PLAN

PROJ. NO. E-16078.00 SHEET
DRAWN DEP

P011

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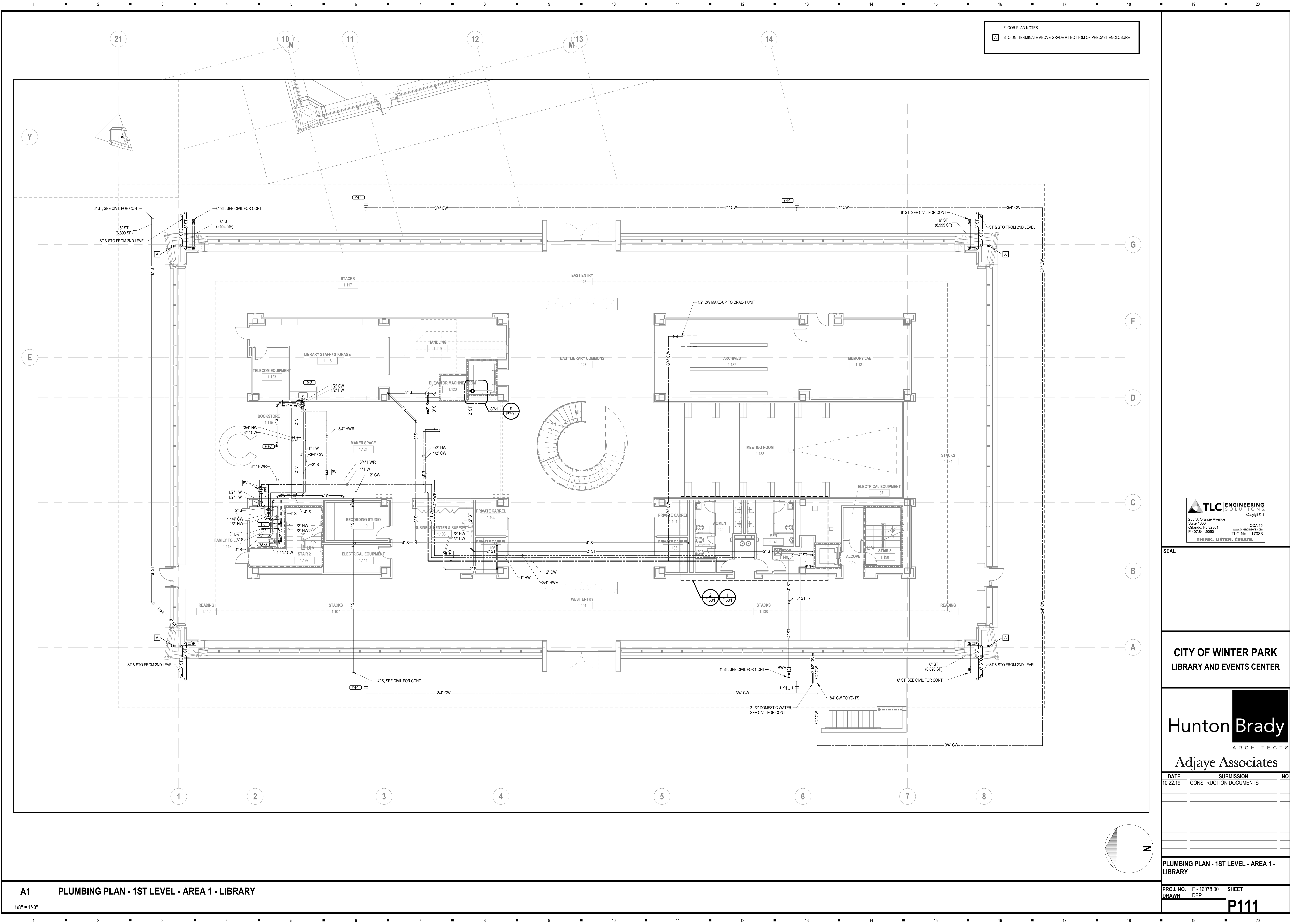
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PLUMBING PLAN - BASEMENT LEVEL -
AREA 1 - LIBRARY

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FLOOR PLAN NOTES
[A] STO DN, TERMINATE ABOVE GRADE AT BOTTOM OF PRECAST ENCLOSURE

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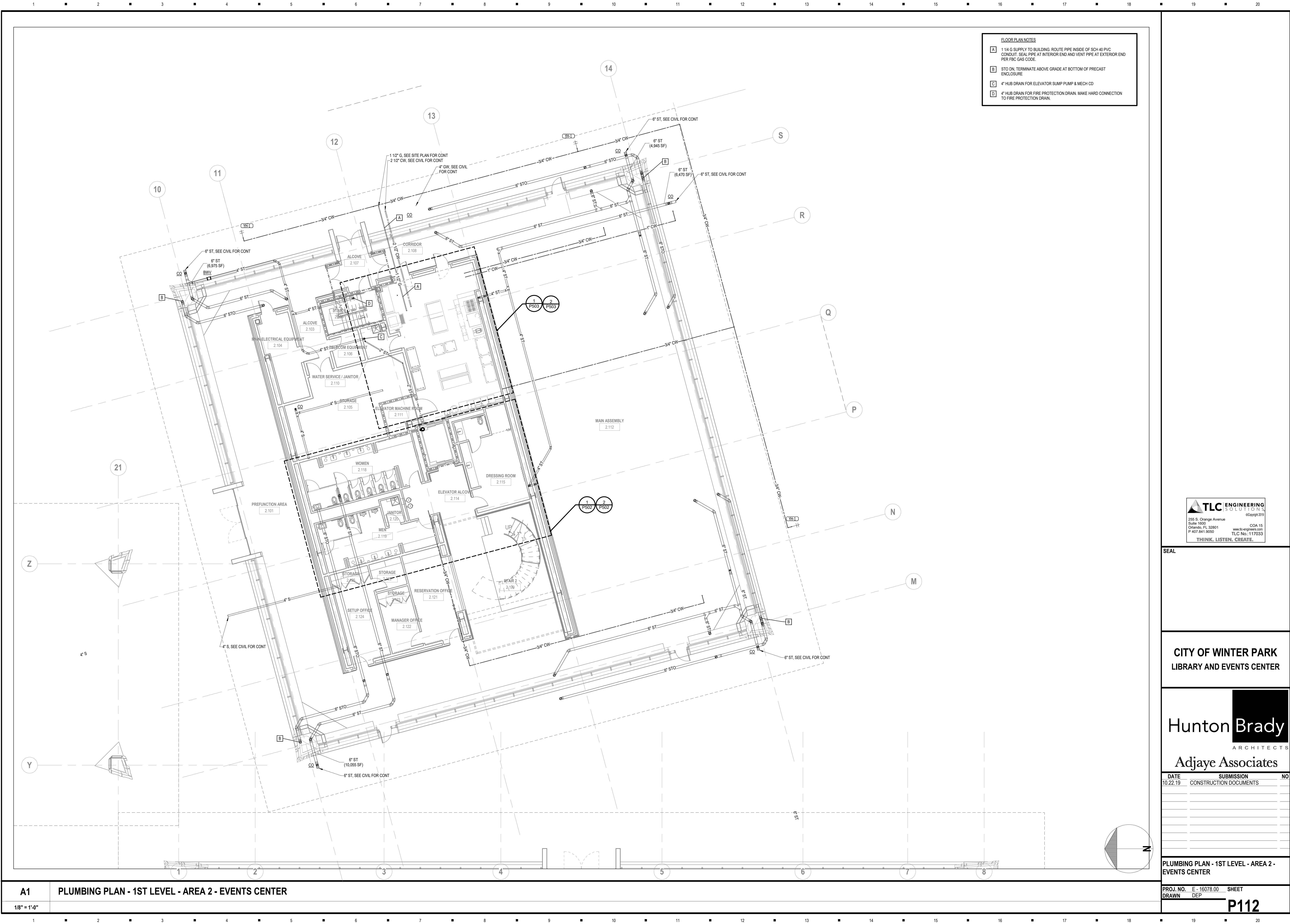
PLUMBING PLAN - 1ST LEVEL - AREA 1 - LIBRARY

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P111

A1 PLUMBING PLAN - 1ST LEVEL - AREA 1 - LIBRARY

1/8" = 1'-0"



- FLOOR PLAN NOTES**
- [A] 1 1/4" G. SUPPLY TO BUILDING. ROUTE PIPE INSIDE OF SCH 40 PVC CONDUIT. SEAL PIPE AT INTERIOR END AND VENT PIPE AT EXTERIOR END PER FBC GAS CODE.
 - [B] STO DN. TERMINATE ABOVE GRADE AT BOTTOM OF PRECAST ENCLOSURE.
 - [C] 4" HUB DRAIN FOR ELEVATOR SUMP PUMP & MECH CD.
 - [D] 4" HUB DRAIN FOR FIRE PROTECTION DRAIN. MAKE HARD CONNECTION TO FIRE PROTECTION DRAIN.

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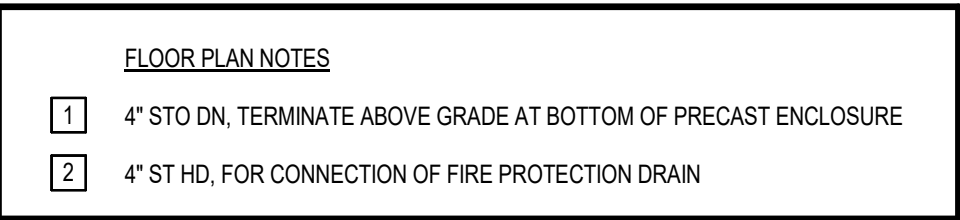
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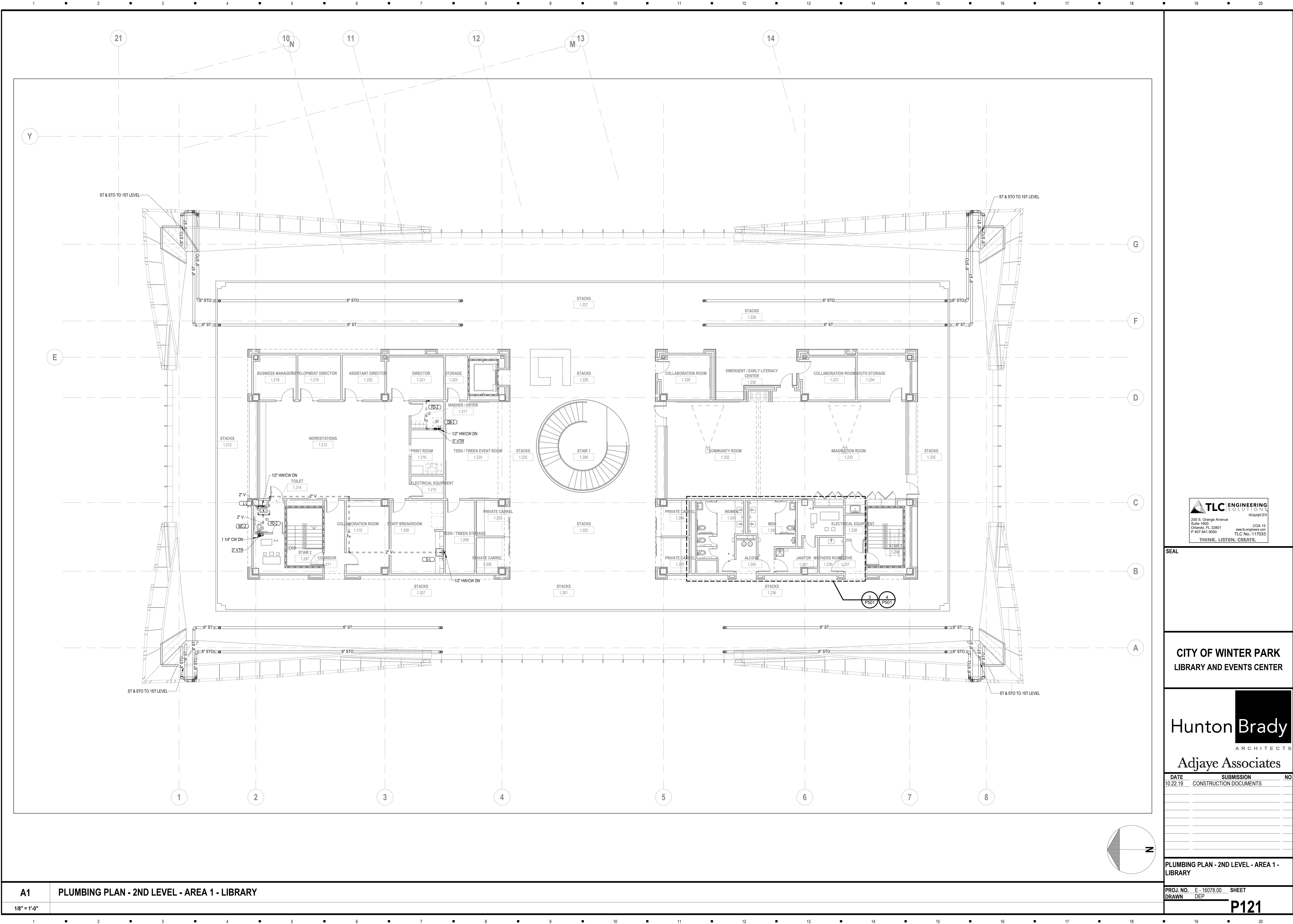
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A1 PLUMBING PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"





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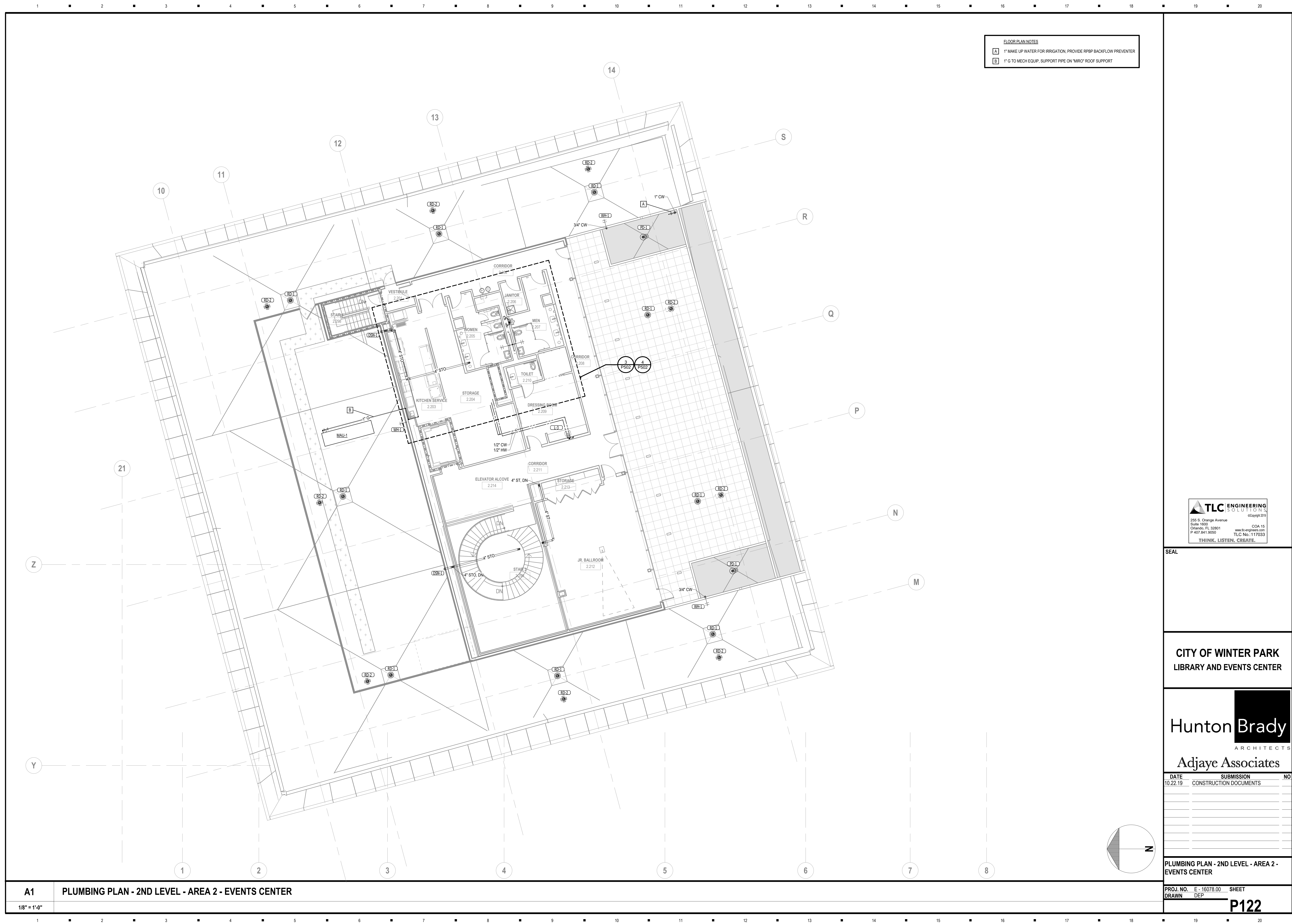
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PLUMBING PLAN - 2ND LEVEL - AREA 1 -
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FLOOR PLAN NOTES

[A] 1" MAKE UP WATER FOR IRRIGATION. PROVIDE RPBP BACKFLOW PREVENTER

[B] 1" G TO MECH EQUIP. SUPPORT PIPE ON "MIRO" ROOF SUPPORT



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[illegible]

PLUMBING PLAN - 2ND LEVEL - AREA 3

PLUMBING PLAN - 2ND LEVEL - AREA 2 -
EVENTS CENTER

EVENTS CENTER

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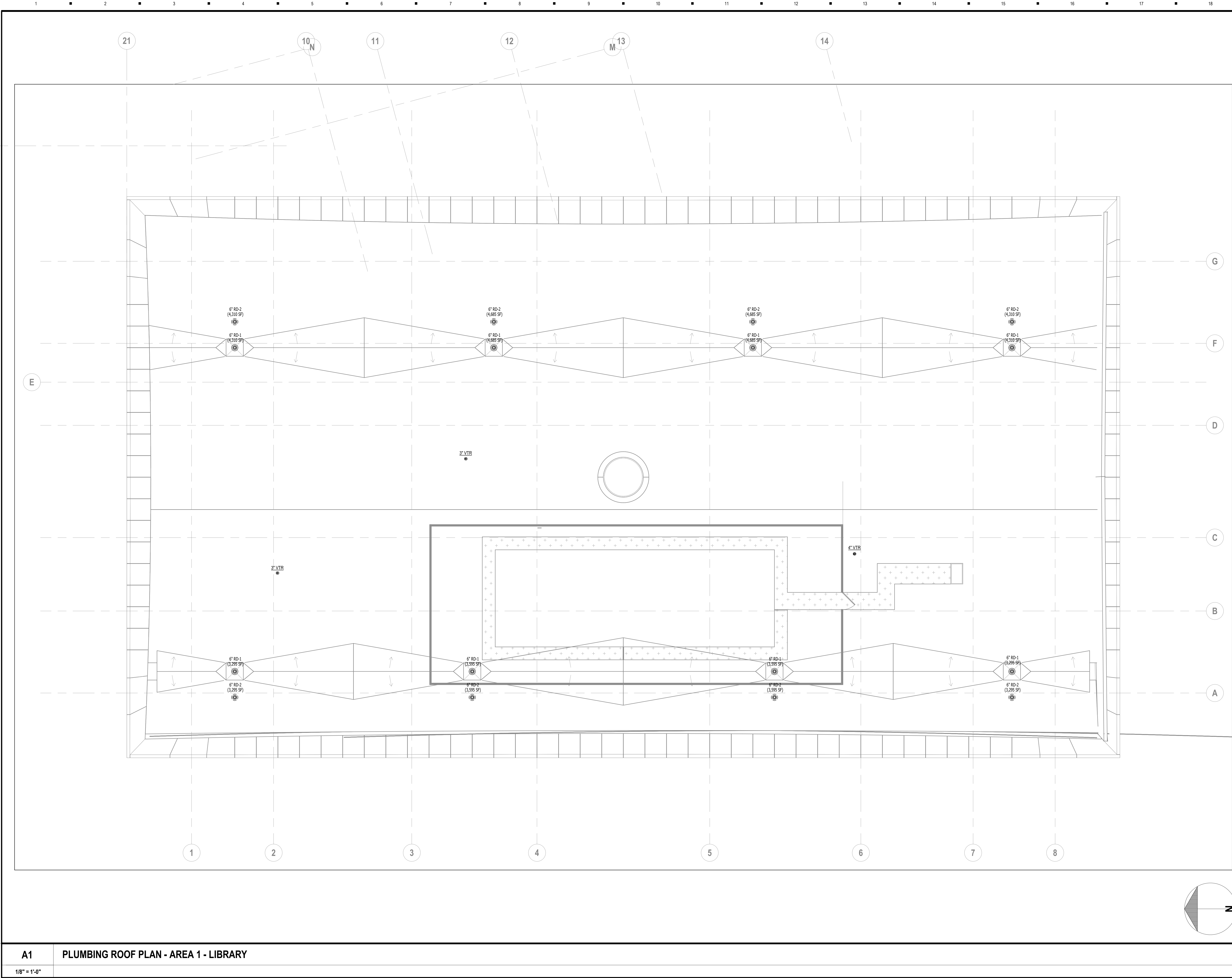
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PLUMBING ROOF PLAN - AREA 1 -
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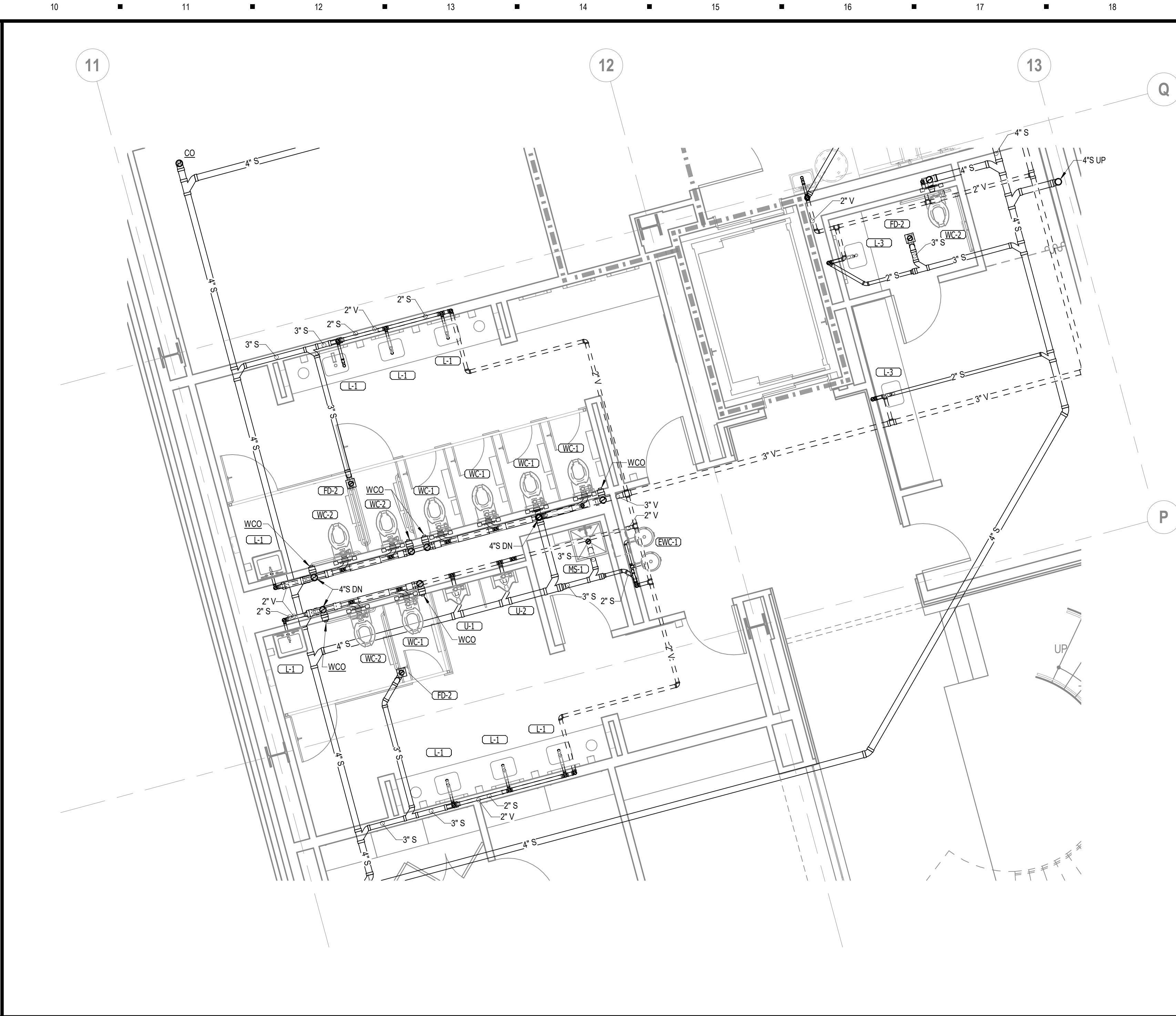
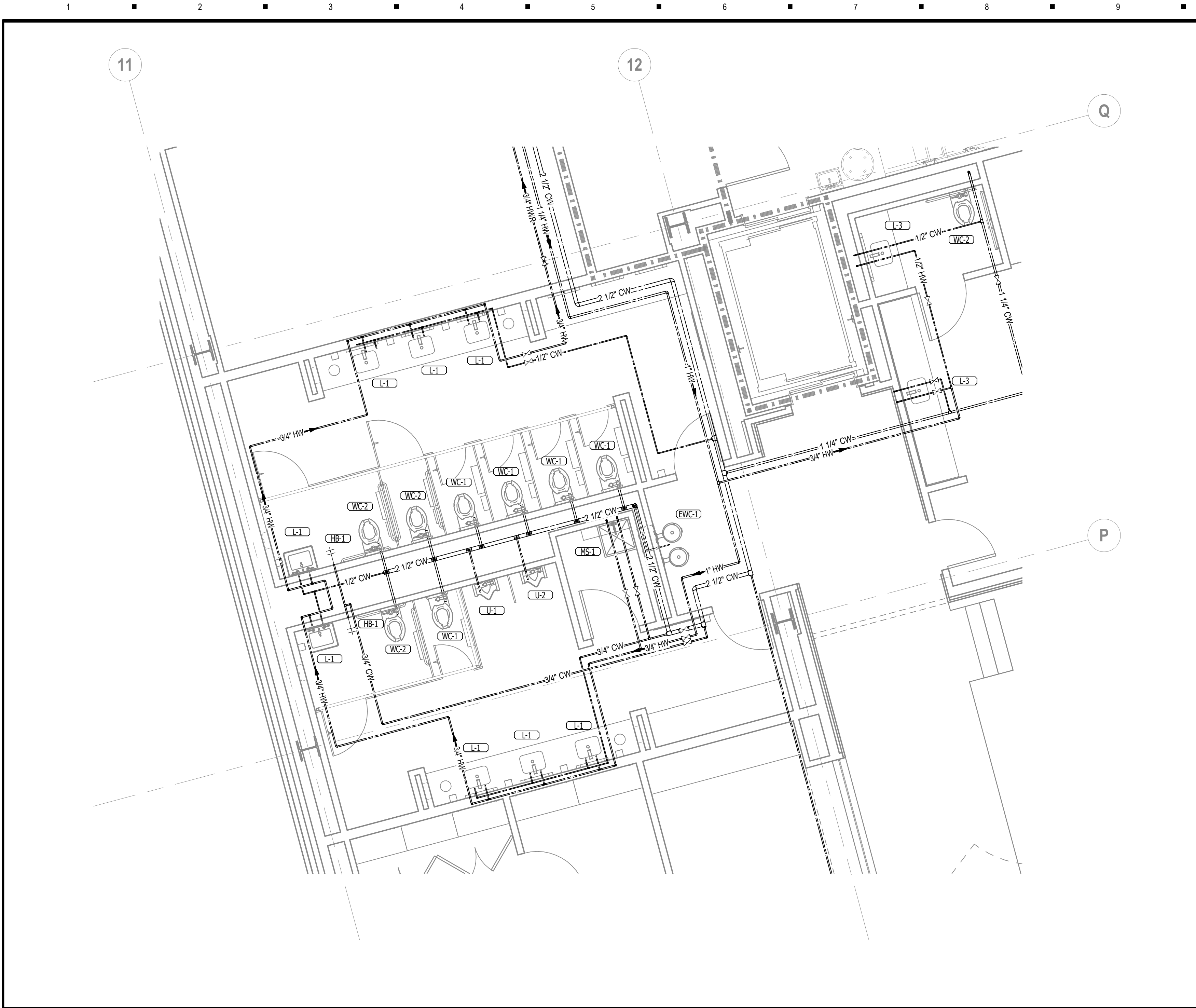
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PLUMBING HIGH ROOF PLAN - AREA 2 -
EVENTS CENTER

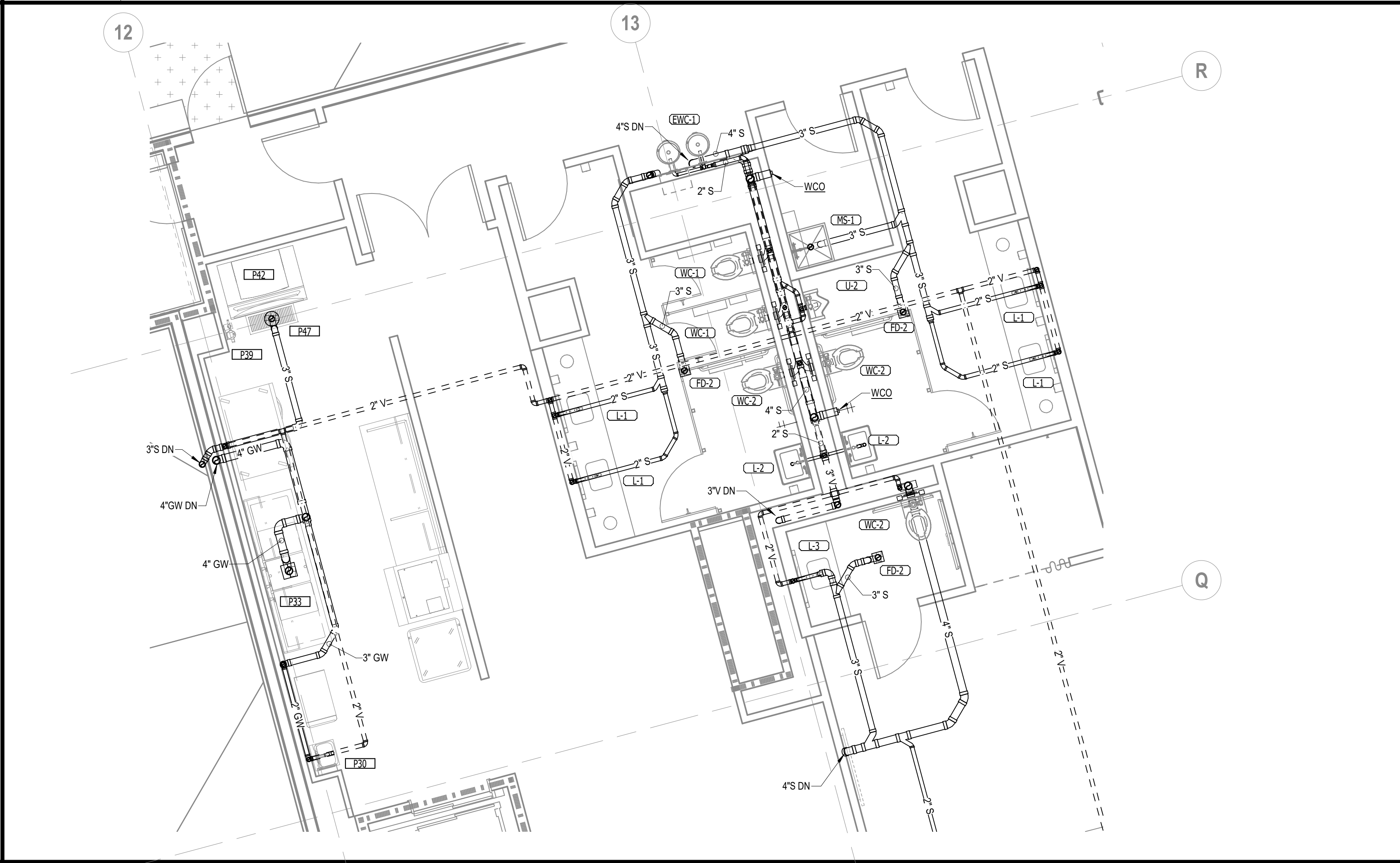
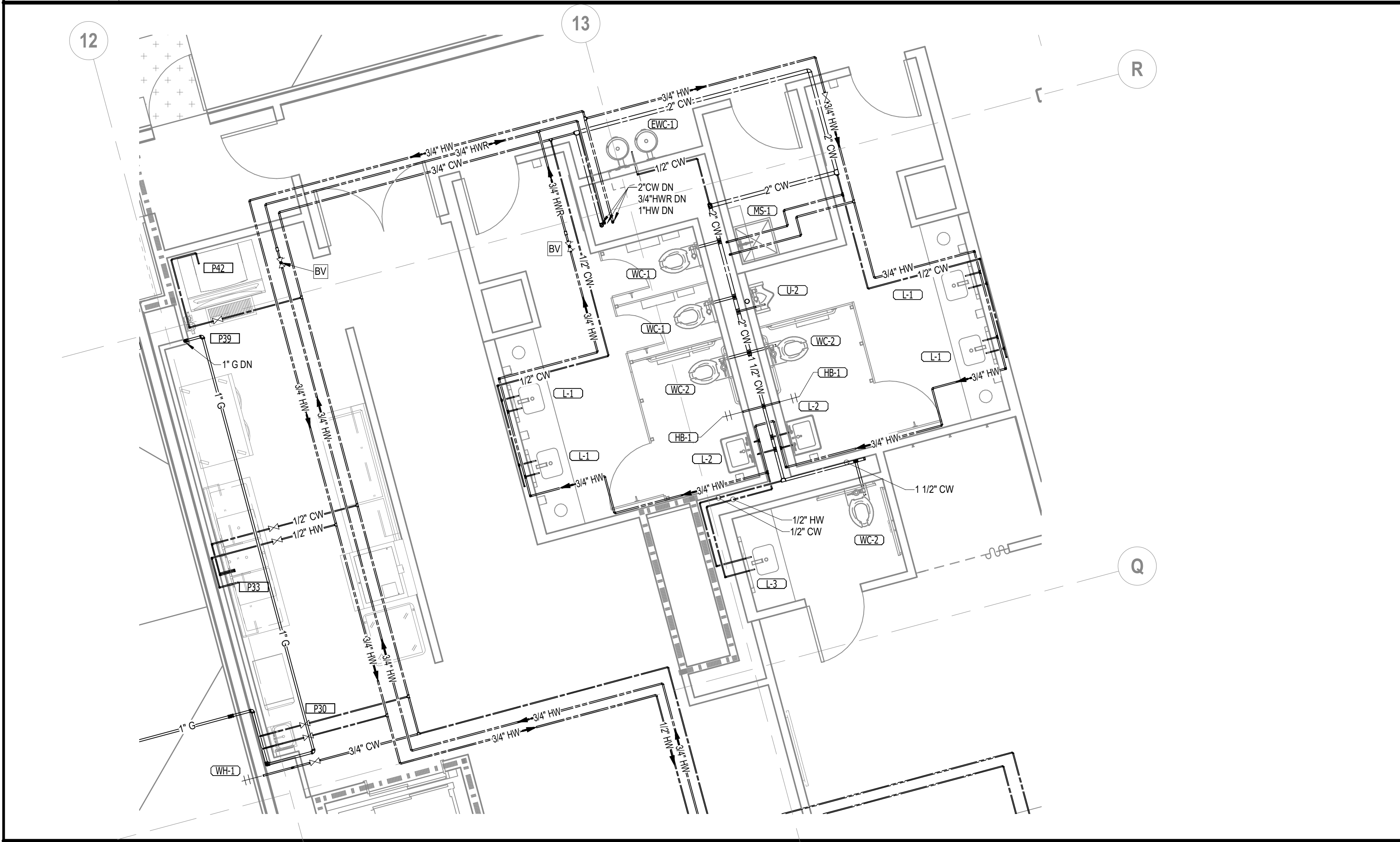
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2 ENLARGED PRESSURE PLAN - EVENTS CENTER(WOMEN 2.118/MEN 2.119)
1/4" = 1'-0"

1 ENLARGED GRAVITY PLAN - EVENTS CENTER(WOMEN 2.118/MEN 2.119)
1/4" = 1'-0"



4 ENLARGED PRESSURE PLAN- EVENTS CENTER(MEN 2.207/WOMEN 2.205)
1/4" = 1'-0"

3 ENLARGED GRAVITY PLAN- EVENTS CENTER(MEN 2.207/WOMEN 2.205)
1/4" = 1'-0"

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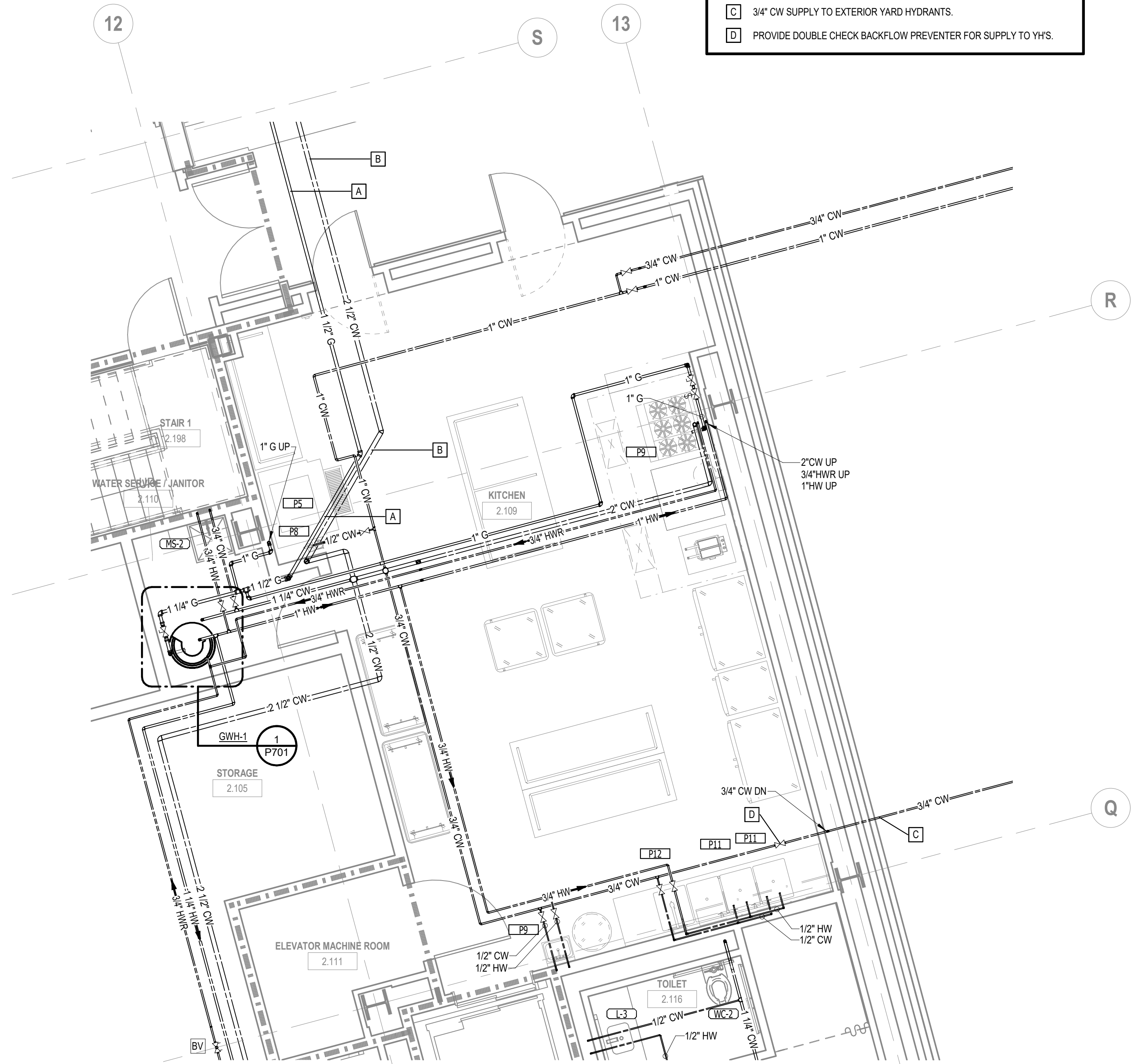
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PLUMBING ENLARGED PLANS

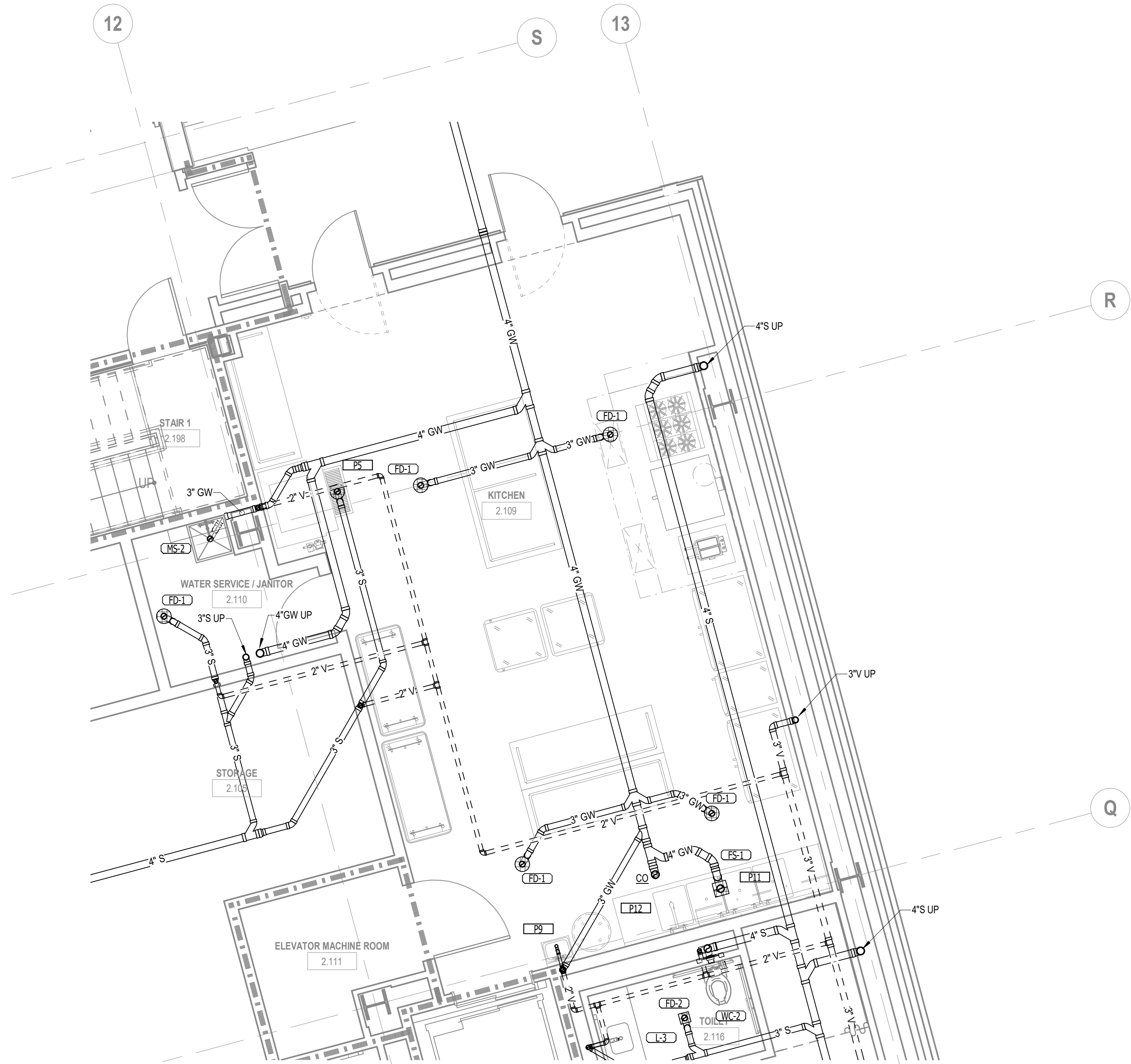
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DRAWN	DEP	P502

- FLOOR PLAN NOTES
- A 1 1/4" G SUPPLY BELOW GROUND TO BUILDING AND UP IN JANITORS CLOSET. ROUTE PIPE INSIDE OF SCH 40 PVC CONDUIT. SEAL PIPE AT INTERIOR END AND VENT PIPE AT EXTERIOR END PER FBC GAS CODE.
 - B 2 1/2" CW SUPPLY BELOW GROUND TO BUILDING AND UP IN JANITORS CLOSET
 - C 3/4" CW SUPPLY TO EXTERIOR YARD HYDRANTS.
 - D PROVIDE DOUBLE CHECK BACKFLOW PREVENTER FOR SUPPLY TO YHS.



2 ENLARGED PRESSURE PLAN - EVENTS CENTER(KITCHEN 2.109)

1/4" = 1'-0"



1 ENLARGED GRAVITY PLAN - EVENTS CENTER(KITCHEN 2.109)

1/4" = 1'-0"



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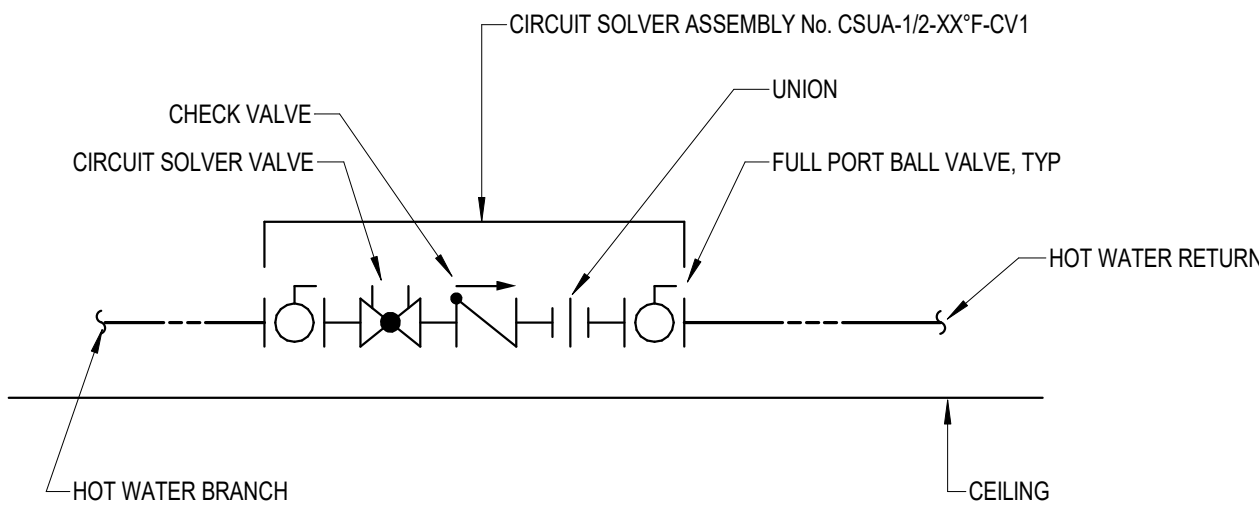
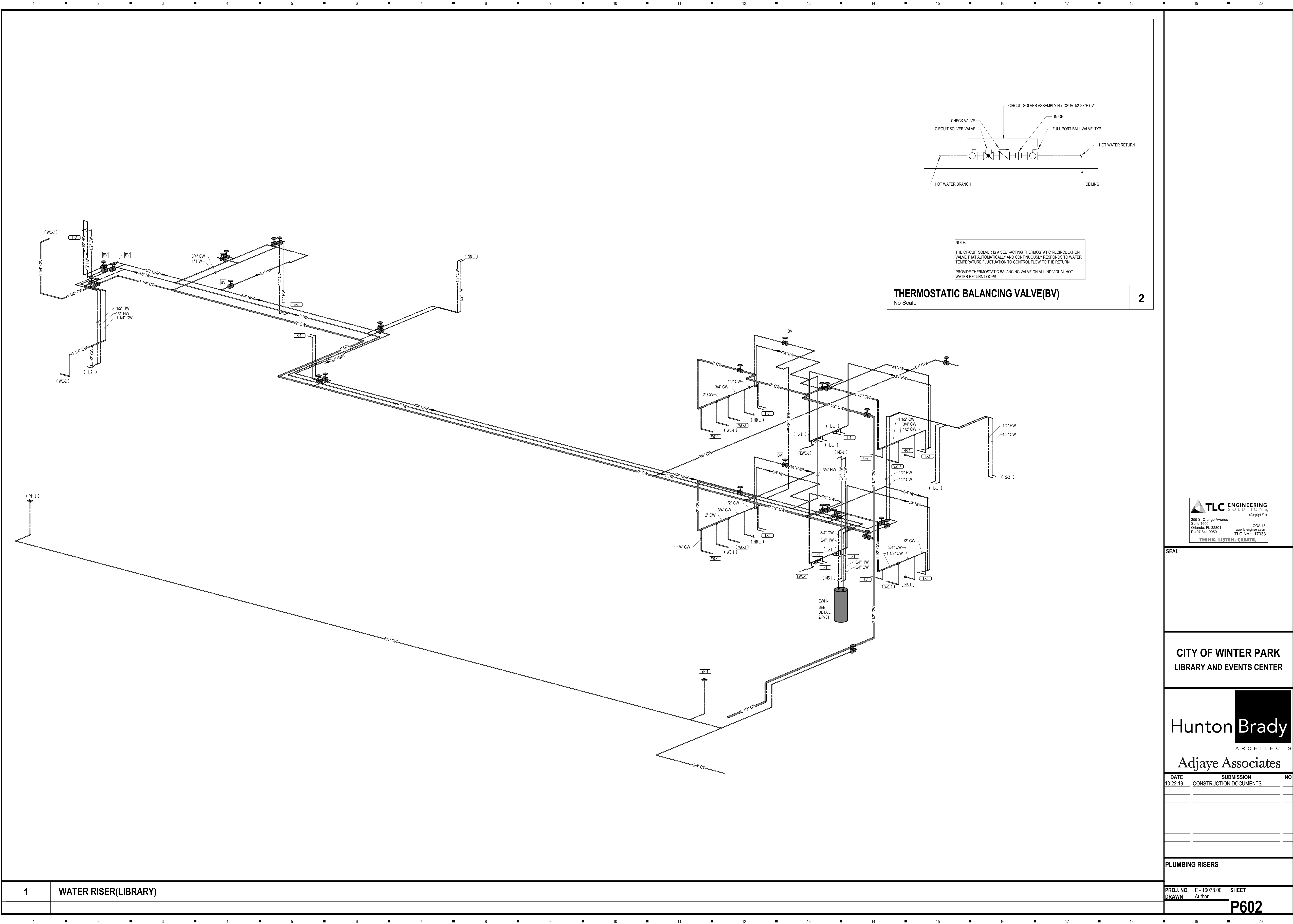
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PLUMBING ENLARGED PLANS

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NOTE:
THE CIRCUIT SOLVER IS A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE THAT AUTOMATICALLY AND CONTINUOUSLY RESPONDS TO WATER TEMPERATURE FLUCTUATION TO CONTROL FLOW TO THE RETURN.
PROVIDE THERMOSTATIC BALANCING VALVE ON ALL INDIVIDUAL HOT WATER RETURN LOOPS.

THERMOSTATIC BALANCING VALVE(BV)
No Scale

2

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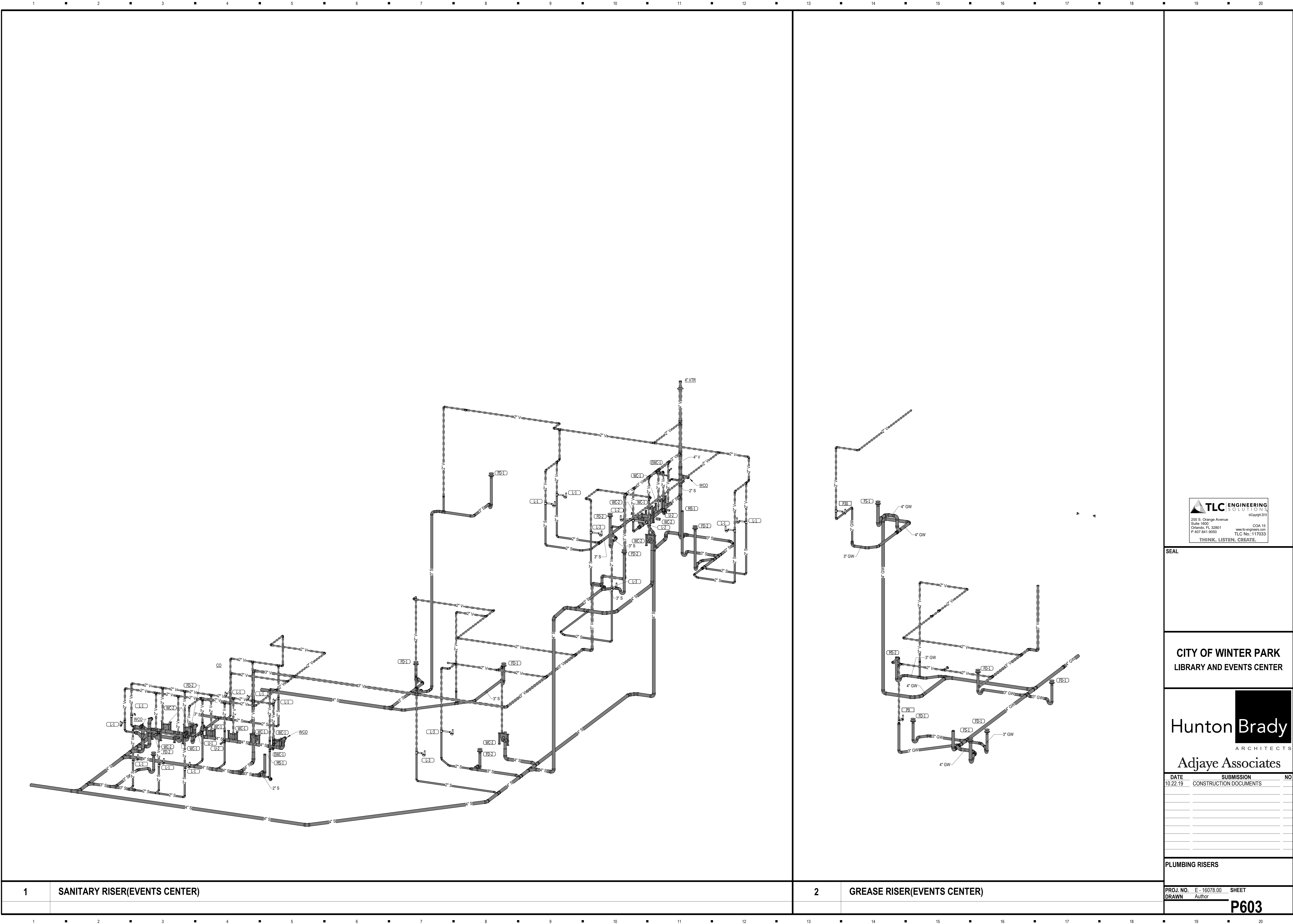
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PLUMBING RISERS

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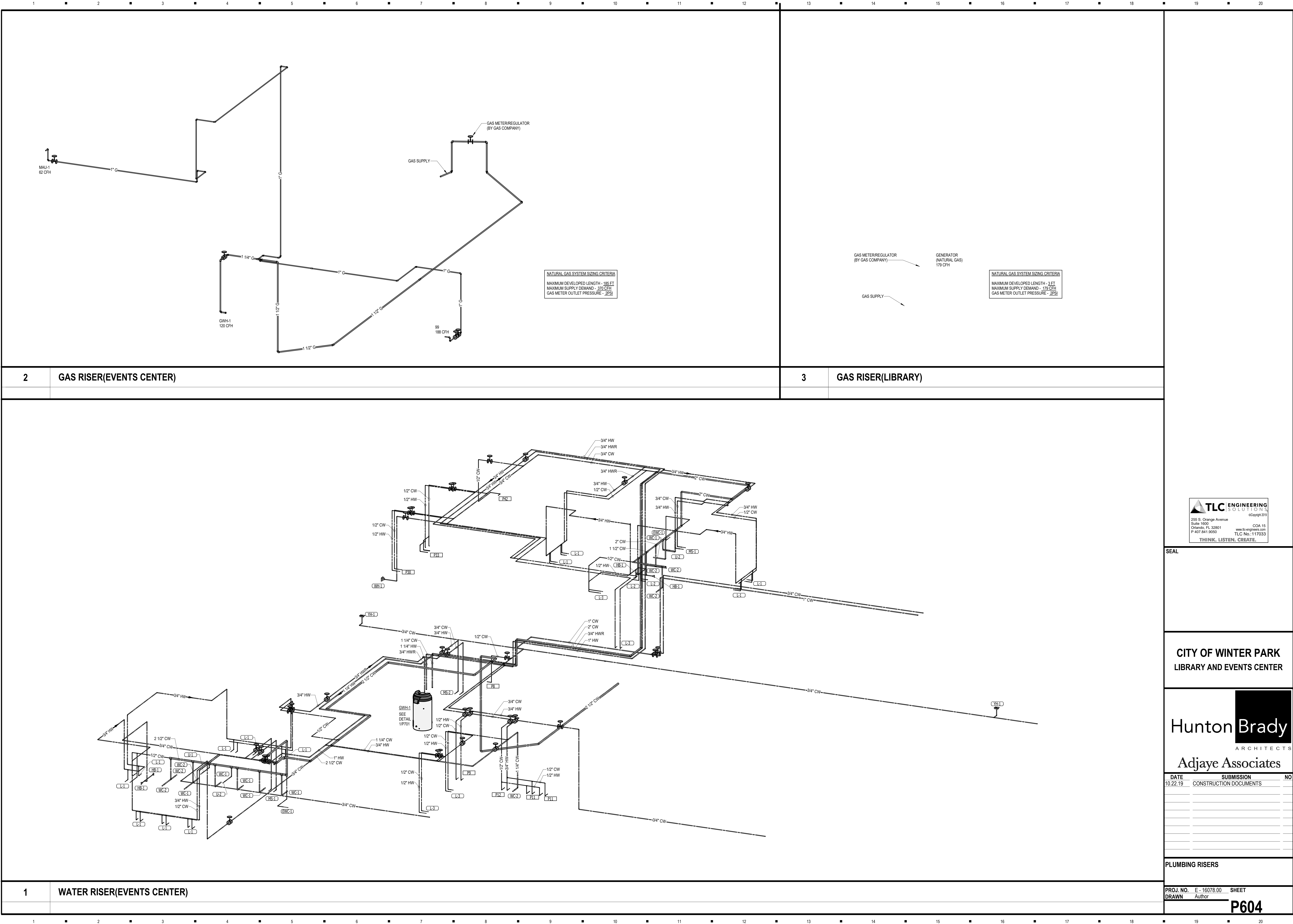
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PLUMBING RISERS

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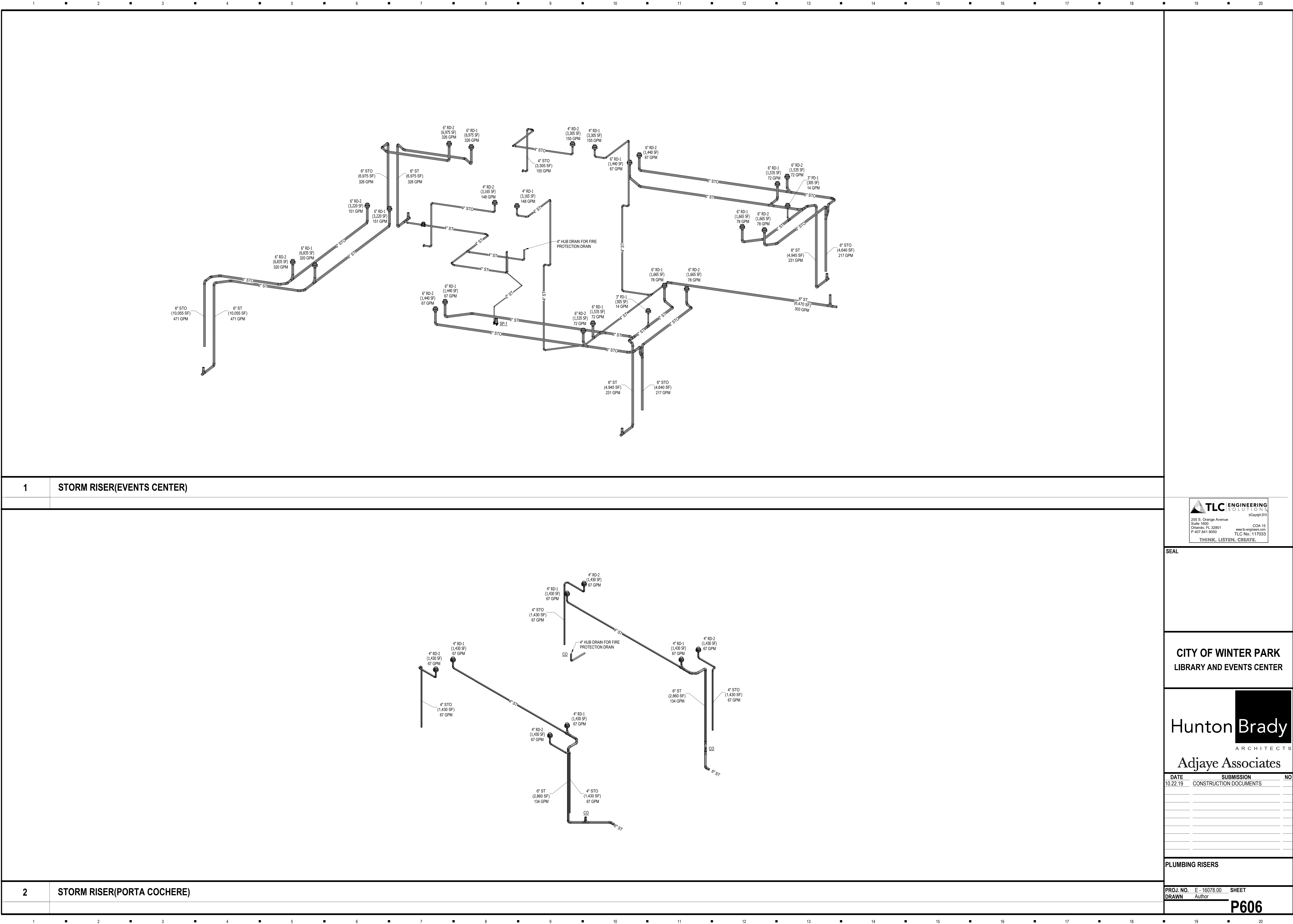


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PLUMBING RISERS

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1 STORM RISER(EVENTS CENTER)

2 STORM RISER(PORTA COCHERE)

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PLUMBING RISERS

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STRUCTURAL SYMBOLS AND LEGEND

	SECTION / DETAIL MARK
	PLAN / DETAIL MARK
	ELEVATION MARK
	RECESS OR STEP IN SLAB
	SLOPED SURFACE
	PITCHED ROOF
	PLAN KEY NOTE
	MOMENT CONNECTION
	JOIST BEARING ELEVATION
	BOLTED JOIST CONNECTION
	STEP FOUNDATION
	STEP HEIGHT
	STEPPED FOUNDATION
	COLUMN AND FOUNDATION TYPE MARKS
	SPOT ELEVATION, TYPICALLY TOP OF ITEM TAGGED (T/WALL, T/FOUNDATION, ETC)
	PANEL TYPE SEE SCHEDULE WALL TYPE DESIGNATION TAG
	INCREASED FLOOR LOAD AREA IN PSF
	WALL TYPES
	LOAD BEARING MASONRY WALL
	NON-LOAD BEARING MASONRY WALL
	TILT-UP/PRECAST CONCRETE WALL
	CIP CONCRETE WALL
	STUD WALL

The diagram illustrates the design of a composite beam and a composite steel girder, showing various design parameters and forces.

COMPOSITE BEAM DESIGNATION:

- SIZE DESIGNATION: W24x55
- NUMBER OF WELDED STUDS SPACED EQUALLY ALONG BEAM: 56
- AMOUNT OF MID-SPAN CAMBER, UP: $c=2"$

COMPOSITE STEEL GIRDER DESIGNATION:

- SIZE DESIGNATION: W36x194
- TOTAL NUMBER OF WELDED STUDS: (90)
- AMOUNT OF MID-SPAN CAMBER, TYP.: $c=1"$

PORTION OF TOTAL NUMBER OF WELDED STUDS TO BE SPACED EQUALLY BETWEEN INTERSECTING BEAMS, TYP.:

BEAM FORCES:

- DESIGN MOMENTS AT MOMENT CONNECTIONS: $M=XX$
- AXIAL FORCE: $A_u=XXX$
- BEAM REACTION: $R=XXX$

PRE-ENGINEERED TRUSS DESIGNATION:

- UPLIFT REACTION > 1K
- GRAVITY REACTION > 5K
- CONNECTION DESIGNATION: $U=XXX$, $R=XXX$

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ABBREVIATIONS SYMBOLS AND SHEET INDEX

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S001

STRUCTURAL GENERAL NOTES

1000 GENERAL NOTES:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR OPENINGS, DEPRESSIONS, EQUIPMENT WEIGHTS AND LOCATIONS, EMBEDDED ITEMS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
3. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.
4. DO NOT SCALE DRAWINGS.
5. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE-DOWNS.
6. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE DRAWINGS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE REPEATED AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER OF RECORD.
7. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
10. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF TLC ENGINEERING SOLUTIONS IS SOLELY FOR DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK.
11. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXCEED LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
12. STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, HANDRAILS, CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
13. IN THE PROFESSIONAL OPINION OF TLC ENGINEERING SOLUTIONS, THE STRUCTURAL CONTRACT DOCUMENTS FOR THIS PROJECT HAVE BEEN PREPARED IN ACCORDANCE WITH THE DESIGN CRITERIA AS SET FORTH IN THE FLORIDA BUILDING CODE.
14. NO PROVISIONS HAVE BEEN MADE FOR VERTICAL OR HORIZONTAL EXPANSION.
15. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

SEAL

1060 DESIGN LOADS:

1. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:
- 2.1 LIVE LOADS
- | | |
|------------------------------|---------|
| ROOF..... | .20 PSF |
| LIBRARY..... | 150 PSF |
| FLOOR (LIGHT STORAGE)..... | 125 PSF |
| FLOOR (PUBLIC ASSEMBLY)..... | 100 PSF |
| STAIRS AND EXITS..... | 100 PSF |
- 2.2 WIND: PER FLORIDA BUILDING CODE AND ASCE 7-10
- SEE SHEET S004 FOR COMPONENTS AND CLADDING PRESSURES.
- | | |
|--------------------------------------|-------------------------|
| V _{WT} =..... | 150 MPH (3-SECOND GUST) |
| V _{SB} =..... | 116 MPH (3-SECOND GUST) |
| RISK CATEGORY =..... | III |
| EXPOSURE CATEGORY =..... | C |
| INTERNAL PRESSURE COEFFICIENT =..... | ± 0.18 |

1330 SHOP DRAWING REVIEW:

1. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN ON THE CONTRACT DOCUMENTS. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. REVIEW OF SUBMITTALS AND SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. NON-CONFORMING DRAWINGS SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
3. THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER OF RECORD.
4. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ARCHITECT/ENGINEER OF RECORD REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR COSTS CAUSED BY MULTIPLE RE-SUBMITTALS (MORE THAN ONE) AT ARCHITECT/ENGINEERS' CURRENT HOURLY RATES.

1334 REQUEST FOR INTERPRETATION (RFI):

1. RFI SHALL ORIGINATE WITH CONTRACTOR AND SHALL BE SUBMITTED IN THE FORM SPECIFIED WITHIN CONTRACT DOCUMENTS. RFI SHALL BE SUBMITTED IN A PROMPT MANNER AS TO AVOID DELAYS IN CONTRACTORS WORK.
2. RFI SHALL BE SUBMITTED AS SPECIFIED WITHIN THE CONTRACT DOCUMENTS AND SHALL BE FORWARDED TO THE ENGINEER VIA THE ARCHITECT OR DIRECTLY BY CONTRACTOR TO ENGINEER WHEN APPROVED BY THE ARCHITECT.
3. RFI SHALL CONTAIN AND STATE THE CLARIFICATION/ PROBLEM/ DISCREPANCY, THE CONTRACTORS SUGGESTION FOR RESOLUTION OF THE CLARIFICATION/ PROBLEM/ DISCREPANCY, AND THE COST IMPACT, IF ANY, ASSOCIATED WITH THE RESOLUTION.
4. ENGINEER SHALL TAKE UP TO 5 BUSINESS DAYS TO REVIEW, PROVIDE A RESPONSE, AND RETURN RFIs. HOWEVER, THE ENGINEER WILL ATTEMPT TO EXPEDITE THE REVIEW OF ALL RFIs WITHIN A REASONABLE TIME FRAME.
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR DETERMINING THE COST OR COST EFFECTIVENESS OF THE RESPONSE TO TO THE PROPOSED RESOLUTION.
6. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR TIME EXTENSIONS, OR CONSTRUCTION IN CONFLICT WITH ANY APPLICABLE CODES OR SPECIFIED DESIGN STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED SCOPE, SCHEDULE, COST IMPACTS, OR ADJUSTMENTS. IF THE CONTRACTOR REQUESTS ANY ADDITIONAL COST, INCREASE IN SCHEDULE OR ADJUSTMENT IN SCOPE, THE CONTRACTOR SHALL NOT PROCEED WITH ADDITIONAL WORK UNTIL APPROVED IN WRITING BY THE CONSTRUCTION ADMINISTRATOR.

2310 FOUNDATIONS – W/ SOIL REPORTS:

1. SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES. SITE PREPARATION AND FOUNDATION INSTALLATION SHALL COMPLY WITH:
- | | |
|--------------|---------------------------------------|
| REPORT No. | 18-6303 |
| PREPARED BY: | ARDAMAN & ASSOCIATES |
| DATED: | MAY 14, 2018, REVISED AUGUST 13, 2019 |
2. BASED ON THIS INFORMATION, FOUNDATION DESIGN IS BASED ON A NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF
3. THE GEOTECHNICAL RECOMMENDATION REPORT SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS.

2466 AUGERCAST PILES:

1. AUGERCAST PILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES CONTAINED IN THE FOLLOWING GEOTECHNICAL REPORT REFERENCED ABOVE.
2. PILES SHOULD BE REINFORCED AS INDICATED IN "TYPICAL AUGERCAST PILE DETAIL".
3. GROUT SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS OF 5,000 PSI. GROUT SHALL HAVE A MAXIMUM FLOW RATE OF 15 TO 25 SECONDS. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD OR LAB CYLINDER TESTS FOR REVIEW PRIOR TO USE.
4. GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARDS UTILIZING 2" X 2" CUBES. CUBES SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C109.
5. WHEN IN CLUSTERS OF TWO OR MORE, INDIVIDUAL PILES SHALL BE INSTALLED WITHIN 3 INCHES OF DESIGN LOCATION. THE CUMULATIVE LOCATION OF PILE GROUP CENTER OF GRAVITY SHALL NOT EXCEED 1-1/2". SINGLE PILES SHALL BE INSTALLED WITHIN 1-1/2 INCHES OF DESIGN LOCATION. VARIATION FROM PLUMB SHALL NOT EXCEED 1/2 INCH IN TWO FEET.
6. ADJACENT PILES SHALL NOT BE PLACED UNTIL THE GROUT IN THE PILES HAS SET FOR 12 HOURS IN ORDER THAT THERE WILL BE NO INTER CONNECTION BETWEEN ADJACENT PILES WHILE THE GROUT IS IN A FLUID STATE.
7. AN AS-BUILT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A FLORIDA REGISTERED LAND SURVEYOR. PILES SHALL BE LOCATED ON THE AS-BUILT DRAWINGS HORIZONTALLY AND VERTICALLY FROM THE COLUMN CENTERLINES. SUBMIT THE AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
8. CONTRACTOR IS RESPONSIBLE FOR ENGINEERING COSTS ASSOCIATED WITH REDESIGNS CAUSED BY IMPROPER PILE LOCATIONS.
9. THE DESIGN IS BASED ON A MAXIMUM WORKING CAPACITY OF 20 TONS PER PILE IN COMPRESSION AND 23 TONS PER PILE IN TENSION AND 3 TONS PER PILE LATERAL. PILE DIAMETER SHALL BE 14" INCHES BY 70 FEET LONG BELOW GRADE BEAM.
10. WHERE THE PILE CUTOFF IS NEAR THE SURFACE OR ABOVE THE BOTTOM OF THE EXCAVATION, METAL SLEEVES OR CASING OF THE PROPER DIAMETER AND AT LEAST 18 INCHES IN LENGTH SHALL BE PLACED AROUND THE PILE TOPS. (SPECIAL CONDITIONS MAY REQUIRE METAL SLEEVES OF ADDITIONAL LENGTH.)
11. INSTALLATION OF PILING SHALL BE MONITORED BY A LICENSED GEOTECHNICAL ENGINEER. REPORTS OF ALL WORK SHALL BE SUBMITTED FOR REVIEW. REPORT SHALL INCLUDE PILE DEPTH, PILE GROUT VOLUME, GROUT FACTOR, CONCRETE COVERAGE ON THE REINFORCING STEEL, GROUT DELIVERY DATES, MISCELLANEOUS OBSERVATIONS, AND OTHER INFORMATION AS REQUIRED.

CONCRETE:

1. SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:
- | LOCATION | STRENGTH | SLUMP | MAX AGGREGATE | WCM RATIO (MAX) |
|----------------------------------|----------|-------|---------------|-----------------|
| BEAMS, COLUMNS & WALLS | 5000 PSI | 4-6" | ASTM #57 | 0.42 |
| GROUND FLOOR SLABS & GRADE BEAMS | 4000 PSI | 4-6" | ASTM #57 | 0.42 |
| OTHER STRUCTURAL CONCRETE | 4000 PSI | 4-6" | ASTM #57 | 0.45 |
2. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
3. SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE.
4. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
5. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-CLASS D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.
6. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
7. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
8. CONDUITS, PIPES AND SLEEVES SHALL BE PLACED AND SPACED IN ACCORDANCE WITH ACI 318, 6.3.
9. CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA PER CHAPTER 5 OF ACI 318.
10. WHEN WATER-BASED ADHESIVE ARE BEING USED ON CONCRETE SURFACES THE CONTRACTOR SHALL VERIFY THAT THE WATER CONTENT OF THE CONCRETE IS WITHIN THE ALLOWABLE RANGE BEFORE INSTALLATION
11. FLYASH, WHEN USED, SHALL BE LIMITED TO 20% OF THE CEMENTITIOUS MATERIAL. USE HIGH RANGE WATER REDUCING ADMIXTURE TO INCREASE SLUMP. DO NOT ADD WATER IN THE FIELD WITHOUT PRIOR WRITTEN ACCEPTANCE FROM CONTRACTING OFFICER.
12. ALL PUMPED CONCRETE WITH 3/4" OR LARGER AGGREGATE IS TO CONTAIN A HIGH RANGE WATER REDUCING AGENT. MINIMUM SIZE OF DISCHARGE TO BE 4" I.D.
13. A 2" I.D. DISCHARGE MAY BE USED WITH 3/8" AGGREGATE. USE HIGH RANGE WATER REDUCING ADMIXTURE IF NECESSARY TO INCREASE SLUMPS BEYOND THAT NOTED ABOVE.
14. CHAMFER ALL EDGES OF EXPOSED CONCRETE 3/4" UNLESS NOTED OTHERWISE.
15. AT CHANGES IN DIRECTION OF CONCRETE WALLS, BEAMS AND STRIP FOOTINGS, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY (U.N.O.) AS HORIZONTAL STEEL, REFER TO TYPICAL DETAIL.
16. FOOTING SIZES SHOWN ARE FOR FOOTINGS CONSTRUCTED WITH SIDE FORMS. IF SOIL MATERIAL CAN HOLD A VERTICAL SHAPE, THE SOIL CAN BE USED AS AN EARTH FORM PROVIDED OVERALL FOOTING WIDTH IS INCREASED 4", AND CODE COVER INCREASED BY 2". ALL SLOUGHED MATERIAL SHALL BE REMOVED FROM EXCAVATION BEFORE AND DURING PLACEMENT OF CONCRETE.
17. SLEEVE ALL PENETRATIONS THROUGH BEAMS AND SLABS INDIVIDUALLY. CORE DRILLING SHALL NOT BE PERMITTED. SUBMIT LOCATION AND SIZE OF SLEEVES THROUGH BEAMS TO CONTRACTING OFFICER FOR REVIEW PRIOR TO CASTING CONCRETE.
18. ALL EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.
29. PLACE CONCRETE PER ACI 304. USE INTERNAL MECHANICAL VIBRATION FOR ALL CONCRETE. LIMIT MAXIMUM FREE FALL DROP OF COLUMN OR WALL CONCRETE TO 6'-0" FOR #57 AGGREGATE AND 8'-0" FOR #89 AGGREGATE. IN SLABS, GRADE BEAMS, FOOTINGS, ETC., LIMIT FREE FALL DROP TO 3'-0". ALL PRECAUTIONS SHOULD BE TAKEN TO VOID SEGREGATION OF CONCRETE DURING PLACEMENT.
20. PROVIDE VAPOR RETARDER UNDER BOTTOM OF ALL SLABS AND BEAMS CAST IN CONTACT WITH EARTH.

3314 WELDED WIRE FABRIC:

1. SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
2. MINIMUM LAP SHALL BE TWO PANELS.
3. USE OF FLAT MANUFACTURED SHEETS IS REQUIRED (NO ROLLS).
4. FABRIC SHALL BE SUPPORTED ON CHAIRS TO MAINTAIN PROPER LOCATION OF 1 1/2" FROM TOP OF SLAB.

5120 STRUCTURAL STEEL:

1. STEEL WORK SHALL BE NEW AND CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. – ALLOWABLE STRESS DESIGN AND LOAD AND RESISTANCE FACTOR DESIGN.
2. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:
- | | |
|------------------------------------|--------------------------------|
| WIDE FLANGE SHAPES..... | ASTM A992 (Fy=50 KSI) |
| ANGLES, CHANNELS AND PLATES..... | ASTM A36 (Fy=36 KSI) |
| PIPE..... | ASTM A53, GRADE B (Fy=35 KSI) |
| RECTANGULAR HSS..... | ASTM A500, GRADE B (Fy=46 KSI) |
| ROUND HSS..... | ASTM A500, GRADE B (Fy=42 KSI) |
| HIGH STRENGTH BOLTS..... | ASTM A325 |
| THREADED RODS..... | ASTM A36 (Fy=36 KSI) |
| S.M. AND HP SHAPES..... | ASTM A36 (Fy=36 KSI) |
| HEAVY HEX NUTS..... | ASTM A563 |
| HARDENED STEEL WASHERS..... | ASTM F436 |
| DIRECT TENSION INDICATORS..... | ASTM F959, TYPE 325 |
| ANCHOR RODS..... | ASTM F1554 GR. 36 (Fy=36 KSI) |
| HEADED STUD ANCHORS..... | ASTM A108 (Fy=50 KSI) |
| TWIST-OFF TENSION CONTROL BOLTS... | ASTM F1852 |
3. CONNECTIONS:
- A. BOLTS SHALL BE HIGH-STRENGTH, BEARING TYPE. TIGHTEN BY AN AISC APPROVED METHOD.
- B. WELDING ELECTRODES SHALL BE PER AWS D1.1. RETURN FILLET WELDS FOR FRAMED CONNECTIONS 1/2" AT EACH END.
- C. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" BOLTS, EXCEPT AS NOTED OTHERWISE.
- D. DESIGN BEAM CONNECTIONS TO DEVELOP THE REACTIONS SHOWN. IF NOT SHOWN, DESIGN CONNECTIONS TO DEVELOP THE REACTIONS DUE TO THE MAXIMUM ALLOWABLE UNIFORM LOAD FOR THE BEAM SIZE AND SPAN SHOWN, ASSUMING FULL LATERAL SUPPORT PER AISC BEAM (ALL OWABLE UNIFORM LOAD) TABLE VALUE FOR THE CORRESPONDING SPAN, U.N.O.
- E. DESIGN DIAGONAL BRACING CONNECTIONS TO DEVELOP THE REACTIONS SHOWN. IF REACTIONS ARE NOT SHOWN, DESIGN CONNECTIONS TO DEVELOP FULL TENSION CAPACITY OF THE DIAGONAL BRACING MEMBER.
- F. CALCULATIONS AND SHOP DRAWINGS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION AND SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT RESIDES.
4. ALL STRUCTURAL STEEL EXPOSED TO EXTERIOR CONDITIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
5. GROUT UNDER BEARING. PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5,000 PSI IN 28 DAYS.
6. COMPOSITE FLOOR MEMBERS ARE DESIGNED TO BE UNSHORED UNLESS OTHERWISE NOTED. THE WEIGHT OF THE WET CONCRETE WILL RESULT IN DEFLECTIONS OF THE SUPPORTING STEEL DECK, BEAMS, AND GIRDERS. ALL OVERRUNS OF CONCRETE QUANTITIES ARE TO BE ANTICIPATED AND INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS REQUIRED FOR ARCHITECTURAL, STRUCTURAL, AND MECHANICAL ELEMENTS. CONCRETE FLOORS UTILIZING UNSHORED CONSTRUCTION SHALL BE SCREEDDED LEVEL.
7. SIZE AND SPACING OF CONDUITS IN COMPOSITE SLABS SHALL COMPLY WITH THE REQUIREMENTS OF ASCE 3-91 UNLESS NOTED OTHERWISE ON DRAWINGS.
8. LENGTH OF SHEAR STUD CONNECTIONS IN COMPOSITE SLABS SHALL EQUAL THE DEPTH OF THE COMPOSITE DECK PLUS 1-1/2" (U.N.O.).
9. THE CAMBER OF STEEL MEMBERS SHALL BE VERIFIED IN THE SHOP AND THE FIELD. WHEN NO CAMBER IS INDICATED, TURN THE MEMBER NATURAL CAMBER UP.
10. IT IS THE INTENTION OF THESE DESIGN DOCUMENTS TO DELEGATE THE DESIGN OF ALL STRUCTURAL STEEL CONNECTIONS TO A QUALIFIED SPECIALTY PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA. THIS REQUIREMENT EXTENDS TO ALL CONNECTIONS, WITH THE EXCEPTION OF THOSE SPECIFICALLY FULLY DESIGNED IN THE DESIGN DOCUMENTS. IT IS ANTICIPATED THAT PROSPECTIVE STRUCTURAL STEEL FABRICATORS WILL PERFORM NECESSARY INVESTIGATION TO DETERMINE THE FULL IMPACT OF CONNECTION CLEARANCE REQUIREMENTS, AS WELL AS THE POTENTIAL NECESSARY INTRODUCTION OF DOUBLER PLATES, CONTINUITY PLATES, AND/OR WEB FLANGE OR OTHER STIFFENERS PRIOR TO SUBMITTING ANY BID FOR THIS WORK.
11. PROVIDE SIGNED AND SEALED CALCULATIONS FOR ALL STRUCTURAL STEEL CONNECTION DESIGN PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. CALCULATIONS ARE TO BE SUBMITTED SIMULTANEOUSLY WITH CORRESPONDING SUBMITTAL.
12. HIGH STRENGTH BOLTS IN BEARING CONDITION SUPPORTING SIMPLE SPAN BEAMS NOT SUBJECT TO AXIAL LOADS MAY BE INSTALLED TO "SNUG TIGHT" CONDITION IF NORMAL, SHORT SLOTTED OR OVERSIZED HOLES ARE USED. THE ENGINEER OF RECORD WILL BE THE ULTIMATE AUTHORITY IN THE USE OF "SNUG TIGHT" BOLTS.
13. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.



SEAL

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10.22.19	CONSTRUCTION DOCUMENTS	

STRUCTURAL GENERAL NOTES

TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 653, FLORIDA STATUTES.

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STRUCTURAL GENERAL NOTES CONTINUED

5122 WELDING:

- 1. WELDING SHALL BE DONE BY WELDERS WITH CURRENT CERTIFICATION IN ACCORDANCE WITH AWS D1.1.
- 2. WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.
- 3. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 4. UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.
- 5. MINIMUM TENSILE STRENGTH OF ELECTRODE MATERIAL, F_{Exx} = 70ksi, U.N.O.

5124 SHEAR STUD CONNECTORS:

- 1. SHEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE", SECTION 7 - STUD WELDING.
- 2. ATTACHMENT OF STUDS SHALL BE SUFFICIENT TO DEVELOP THE FULL CAPACITY OF EACH INDIVIDUAL STUD.
- 3. STUDS SHALL BE TYPE 'B', HEADED STUDS HAVING A MINIMUM TENSILE STRENGTH OF 65,000 PSI, AND SHALL BE OF LENGTH AND DIAMETER SHOWN ON STRUCTURAL DRAWINGS.

5230 COMPOSITE STEEL DECK:

- 1. SHALL BE GALVANIZED, CORRUGATED STEEL COMPOSITE DECK OF GAGE AND DEPTH INDICATED ON DRAWINGS, CONFORMING TO STEEL DECK INSTITUTE SPECIFICATION FOR COMPOSITE FLOOR DECK.
- 2. DECK SHALL HAVE DEFORMATIONS TO PROVIDE ADEQUATE MECHANICAL INTERLOCKING BETWEEN DECK AND CONCRETE FOR COMPOSITE ACTION.
- 3. PROVIDE 5/8" DIAMETER PUDDLE WELDS AT 12" C/C AT EACH SUPPORT.
- 4. SIDE LAPS BETWEEN DECKS SHALL BE WELDED OR FASTENED USING #10 TEK SCREWS AT A MAXIMUM SPACING OF 36 INCHES.
- 5. BUTTON PUNCHING OF SIDE LAPS IS NOT PERMITTED.

5310 STEEL ROOF DECK:

- 1. DECK CENTERING SHALL BE PLACED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL BE CONTINUOUS OVER AT LEAST 3 SPANS
- 2. DECK SHALL BE TOPPED WITH TYPE II INSULATING FILL CONSISTING OF RIGID INSULATING BOARD IMBEDDED WITH TWO OR MORE INCHES OF LIGHT WEIGHT INSULATING CONCRETE OVER THE TOP (MAX. 30 p.c.f. oven dry density).
- 3. FASTEN DECK TO STRUCTURAL STEEL SUPPORTS BY WELDING THROUGH WELDING WASHERS IN A PATTERN AS INDICATED ON PLANS. FASTEN SIDE LAPS AS INDICATED ON PLANS.
- 4. DECK SUBMITTALS SHALL INCLUDE THE INTENDED FASTENING PATTERNS AND THE CAPACITY OF EACH PATTERN IN UPLIFT AND DIAPHRAGM ACTION.

5400 STRUCTURAL COLD-FORMED STEEL (CFS) (ALL APPLICATIONS):

- 1. ALL COLD FORMED STEEL FRAMING SHALL CONFORM TO THE AISI/COFS/NASPEC 2001 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, THE AISI MANUAL COLD-FORMED STEEL DESIGN (2002 EDITION), AISI CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING (2006 EDITION), AISI/COFS/GP-2004 STANDARD FOR COLD-FORMED STEEL FRAMING – GENERAL PROVISIONS (2004 EDITION) AND COLD-FORMED STEEL ENGINEERS INSTITUTE (CFSEI) PUBLICATIONS, AS MODIFIED OR CLARIFIED HEREIN.
- 2. SUBMIT PROPOSED LIGHT GAGE CFS MANUFACTURERS DATA AND LOAD TABLES FOR REVIEW.
- 3. ATTACHMENTS, CLOSURES, HARDWARE, ETC., SHALL BE AS SHOWN AND/OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 4. TOLERANCES TO COMPLY WITH ASTM C955.
- 5. WELDING TO COMPLY WITH COLD-FORMED STEEL ENGINEERS INSTITUTE TECH NOTE 5606-1 – WELDING COLD-FORMED STEEL.
- 6. REPAIR DAMAGED OR UNCOATED GALVANIZED COATINGS PER ASTM A780.

5714 STEEL STAIRS:

- 1. ENGINEERED STEEL STAIR SYSTEM AND CONNECTIONS OF SAME TO THIS STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- 2. THE CONFIGURATION OF THE STEEL STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3. STEEL STAIR SYSTEM AND CONNECTIONS SHALL BE DESIGNED FOR APPLICABLE LOADS AS INDICATED ON THE DRAWINGS AND IN THE FLORIDA BUILDING CODE.
- 4. THE LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS.
- 5. SHOP DRAWINGS SHALL SHOW AND SPECIFY CONNECTIONS UTILIZED WITHIN THE STEEL STAIR SYSTEM AS WELL AS CONNECTIONS TO AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM SHOWN ON THESE DRAWINGS.
- 6. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.

THRESHOLD INSPECTION PLAN

GENERAL

- 1. PER FLORIDA STATUTE §553.79, THE FOLLOWING PLAN PROVIDES SPECIFIC PROCEDURES AND SCHEDULES SO THE BUILDING CAN BE INSPECTED FOR COMPLIANCE WITH THE PERMITTED DOCUMENTS. THIS PLAN SHALL BE AVAILABLE AT THE JOBSITE FOR USE BY THE BUILDING OFFICIAL. SPECIAL INSPECTOR OR THE DESIGNATED REPRESENTATIVE. NOTWITHSTANDING THE PRECEDING, DURING THE COURSE OF CONSTRUCTION THE SPECIAL INSPECTOR MAY OBSERVE ITEMS NOT SPECIFICALLY LISTED BELOW WHICH HE DETERMINES NEED TO BE INSPECTED. FLORIDA STATUTE §553.79 LISTS A NUMBER OF RESPONSIBILITIES THAT ARE IN NO WAY EXEMPTED BY THE FOLLOWING.
- 2. THIS PLAN SHALL NOT RELIEVE THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS OF ANY LIABILITY. RESPONSIBILITY OR CONTRACTUAL OBLIGATIONS RELATED TO THE CONSTRUCTION AND INSTALLATION OF THE STRUCTURAL COMPONENTS OF THE BUILDING, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO CARRY OUT HIS OWN QUALITY CONTROL, INSPECTIONS AND TESTING. THIS PLAN INTENDS THAT ALL STRUCTURAL LOAD BEARING ELEMENTS **INCLUDING WIND LOADED ELEMENTS** BE INSPECTED FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- 3. THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES AS SPECIFIED BELOW. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL REVIEW THIS PLAN, COORDINATE AND SCHEDULE WORK TO ACCOMMODATE THE REQUIRED INSPECTIONS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWENTY-FOUR (24) HOUR NOTICE TO THE SPECIAL INSPECTOR FOR ALL INSPECTIONS.
- 4. PER SECTION §553.79 5(A), THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE SHORING AND RE-SHORING SHALL INSPECT IT FOR CONFORMANCE WITH THE PLANS SUBMITTED TO THE ENFORCING AGENCY AND FURNISH A SIGNED AND SEALED LETTER TO THE SPECIAL INSPECTOR STATING THE INSTALLATION IS IN CONFORMANCE WITH THE SUBMITTED PLANS, PRIOR TO CONCRETE PLACEMENT.
- 5. PER SECTION §553.79 7(C), EACH SHORING AND RE-SHORING INSTALLATION SHALL BE SUPERVISED, INSPECTED AND CERTIFIED BY THE CONTRACTOR TO BE IN COMPLIANCE WITH THE SHORING DOCUMENTS.

PROCEDURES AND SCHEDULE

- 1. THE THRESHOLD INSPECTOR SHALL PERFORM SITE VISITS AT A FREQUENCY DETERMINED BY HIM TO SATISFY HIM THAT THE INSPECTIONS ARE BEING PERFORMED BY HIS ON-SITE REPRESENTATIVE(S) IN ACCORDANCE WITH THIS PLAN.
- 2. THE CONTRACTOR SHALL ADVISE THE SPECIAL INSPECTOR IN ADVANCE OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE OBSERVATION INSPECTION.
- 3. THE SPECIAL INSPECTOR SHALL COOPERATE WITH THE CONTRACTOR AND SHALL REFRAIN FROM DIRECTING WORK, AS THIS IS EXPRESSLY NOT PART OF THE SPECIAL INSPECTION.

SOIL COMPACTION & FOUNDATIONS

- 1. CONFIRM THAT A SOILS TESTING LABORATORY MONITORS SOIL COMPACTION, PILE INSTALLATION, AND PERFORMS TESTS TO VERIFY THAT THE INSTALLATIONS MEET THE REQUIREMENTS STATED IN THE PROJECT'S SPECIFICATIONS AND THE SOILS REPORT SUBMITTED BY ARDAMAN & ASSOCIATES. .
- 2. VERIFY THAT FOOTINGS AND FOUNDATIONS ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. SPECIFICALLY VERIFY SIZE, REINFORCING, CONFIGURATION, LAP SPLICES, LOCATION, ADDITIONAL BARS AT CORNERS AND INTERSECTIONS, COVER ON REINFORCING AND ORIENTATION.
- 3. MONITOR CONSTRUCTION TO ENSURE THAT THERE HAS BEEN NO UNDERMINING OR EXCAVATION UNDER EXISTING FOOTINGS FOR ANY REASON, E.G. TO INSTALL UNDERGROUND UTILITIES AND PIPING, ETC.
- 4. VERIFY THAT DE-WATERING METHODS ARE MAINTAINED DURING DEEP EXCAVATIONS AND THAT PROCEDURES DO NOT ADVERSELY AFFECT THE STRUCTURAL INTEGRITY OF THE FOUNDATIONS.

CONCRETE AND REINFORCEMENT

- 1. CONFIRM THAT THE CONTRACTOR HAS OBTAINED APPROVED SHOP DRAWINGS FOR SPECIFIED ITEMS PRIOR TO COMMENCING WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, ANCHOR BOLTS, EMBEDDED ITEMS, STEEL REINFORCING, FORMWORK, SHORING AND CONCRETE MIX DESIGNS.
- 2. VERIFY THAT REINFORCING STEEL IS INSTALLED PER THE CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS. SPECIFICALLY VERIFY SIZE, GRADE, LAP SPICE LENGTH AND LOCATION, QUANTITY AND/OR SPACING, BENDS OR OFFSETS AND COVERAGE. REPORT ANY DEVIATIONS TO THE GENERAL CONTRACTOR FROM THE CONTRACT DOCUMENTS BEFORE CONCRETE IS CAST AND CONFIRM CORRECTIONS ARE MADE.
- 3. VERIFY THAT DOWELS, ANCHOR BOLTS AND EMBEDDED ITEMS ARE PROPERLY INSTALLED AND SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT.
- 4. VERIFY THAT REINFORCING IS NEW BILLET STEEL AND IS CLEAN OF ALL LOOSE, FLAKING RUST OR SCALE AND IS FREE OF GREASE OR OTHER FOREIGN MATERIALS WHICH COULD REDUCE OR PREVENT BOND.
- 5. VERIFY THAT DEBRIS AND FOREIGN MATERIAL HAS BEEN REMOVED FROM FORMS BEFORE CONCRETE IS PLACED.
- 6. COLUMNS: INSPECT REINFORCING STEEL AND OTHER EMBEDDED ITEMS. CHECK TIE SPACING.
- 7. ONE WAY SLABS: INSPECT REINFORCING STEEL, INCLUDING TEMPERATURE STEEL. CHECK THAT HOOKED BARS EXTEND TO FAR FACE OF SUPPORT.
- 8. CHECK THAT EXPANSION JOINT MATERIAL, ANCHORS AND OTHER EMBEDDED ITEMS ARE CORRECT AND HAVE BEEN POSITIONED AND SECURED IN PLACE SO THAT DISPLACEMENT IS NOT POSSIBLE.
 - a. CHECK THAT CONDUITS PLACED IN THE SLAB ARE REASONABLY SPACED TO ENSURE INTEGRITY OF THE SLAB AND DO NOT VIOLATE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.
 - b. CONFIRM THAT LOAD CARRYING EMBEDDED ITEMS ARE PLACED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. RELOCATION OF EMBEDDED ITEMS IN CONFLICT WITH REINFORCING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- 9. OPENINGS: REPORT ALL SLAB OPENINGS LARGER THAN 12" AND NOT SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER. CHECK PLACEMENT OF ADDITIONAL REINFORCEMENT AROUND OPENINGS. NO SLEEVES OR OPENINGS WILL BE PERMITTED IN BEAMS WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- 10. AS REQUIRED BY THE CONSTRUCTION DOCUMENTS, VERIFY THAT A TESTING LABORATORY IS PRESENT AT THE JOBSITE TO TAKE SLUMP TESTS AND CYLINDERS BEFORE CONCRETE IS PLACED IN FORMS.
- 11. CONFIRM THAT THE CONCRETE BEING PLACED AT THE JOBSITE MEETS THE PROJECT REQUIREMENTS REGARDING MIXING AND DELIVERY TIME, SLUMP, CONCRETE STRENGTH AND THAT THE PROPER MIX DESIGN IS USED.
- 12. VERIFY THAT THE CONTRACTOR DOES NOT ADD WATER TO THE CONCRETE AFTER SLUMP TESTS AND CYLINDERS HAVE BEEN MADE. IF ADDITIONAL WATER IS ADDED TO INCREASE SLUMP, ANOTHER SLUMP TEST IS TO BE TAKEN. IF THE SLUMP TEST DOES NOT MEET THE PROJECT'S REQUIREMENTS, THE CONCRETE IS SUBJECT TO REJECTION.
- 13. REVIEW THE GENERAL ARRANGEMENT OF FORMS FOR COMPLIANCE WITH FORMWORK SHOP DRAWINGS. CHECK THAT THE FORMWORK INSTALLATION, REMOVAL AND RE-SHORING PROCEDURES ARE ACCORDING TO THE CONSTRUCTION DOCUMENTS AND SUBMITTED SHOP DRAWINGS. INSPECT THE SHORING AND RE-SHORING FOR CONFORMANCE WITH THE SHORING AND RE-SHORING PLANS SUBMITTED TO THE ENFORCING AGENCY.
- 14. REVIEW THE TIME SEQUENCE OF FORM REMOVAL AND RE-SHORING PROCEDURES AND SCHEDULE FOR COMPLIANCE WITH FORMWORK, SHORING AND RE-SHORING DRAWINGS AND PROJECT SPECIFICATIONS.
- 15. FOOTING EDGES ARE TO BE FORMED UNLESS UNFORMED FOOTINGS ARE PERMITTED PER THE CONSTRUCTION DOCUMENTS. IF UNFORMED FOOTING EDGES CANNOT RETAIN SHAPE DURING PLACEMENT OF CONCRETE, THEN FOOTING EDGES SHALL BE FORMED. VERIFY THAT SLOUGHED SOIL HAS BEEN CLEANED OUT AND REMOVED FROM EXISTING FOOTING.
- 16. OBSERVE THE PLACEMENT OF AT LEAST 50% OF CONCRETE BEING PLACED FOR STRUCTURAL ELEMENTS TO ASSURE THAT HANDLING, PLACING, CONSOLIDATION, FINISHING AND CURING IS IN ACCORDANCE WITH THE PROJECT'S SPECIFICATIONS.
- 17. OBSERVATION OF PLACEMENT OF CONCRETE FOR SLABS ON GRADE, WHICH DO NOT SUPPORT BEARING WALLS, IS NOT REQUIRED BUT REINFORCEMENT MUST BE INSPECTED AS DISCUSSED ABOVE.

PRECAST WALL PANELS

- 1. CONFIRM THAT PLACEMENT AND INSTALLATION OF PANELS IS IN ACCORDANCE WITH APPROVED DRAWINGS.
- 2. CONFIRM THAT A TESTING LABORATORY INSPECTS WELDED CONNECTIONS. VERIFY THAT CONNECTIONS HAVE BEEN MADE PER STRUCTURAL DRAWINGS AND APPROVED SHOP DRAWINGS.

MASONRY

- 1. VERIFY THAT REQUIRED MASONRY SUBMITTALS, STRUCTURAL IN NATURE, HAVE BEEN ACCEPTED BY THE STRUCTURAL ENGINEER AND THAT COPIES ARE ON SITE.
- 2. VERIFY THAT MASONRY COMPONENTS USED ON THE JOB MATCH THE SUBMITTED ITEMS.
- 3. VERIFY THAT MASONRY IS PROPERLY INSTALLED. SPECIFICALLY CHECK FOR HORIZONTAL JOINT REINFORCING AND SIZE AND LOCATION OF FILLED CELL REINFORCING AND DOWELS.
- 4. VERIFY THAT FULL MORTAR BEDDING IS PLACED AROUND GROUT/CONCRETE FILLED CELLS.
- 5. VERIFY THAT INSPECTIONS/CLEAN-OUT HOLES ARE INSTALLED FOR **HIGHLIFT/LOWLIFT** GROUTING. ALSO, VERIFY THAT DEBRIS AND LOOSE MORTAR HAS BEEN REMOVED PRIOR TO CLOSING HOLE.
- 6. INSPECT AT LEAST 50% OF CONCRETE GROUT PLACEMENT FOR GROUTED MASONRY.

STRUCTURAL STEEL AND STEEL CONNECTIONS

- 1. CONFIRM THAT PLACEMENT OF STRUCTURAL STEEL AND METAL DECK IS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS.
- 2. CONFIRM THAT A TESTING LABORATORY INSPECTS BOLTED AND WELDED CONNECTIONS AND DECK WELDING PER THE REQUIREMENTS OF THE PROJECT DOCUMENTS.
- 3. VERIFY THAT THE ATTACHMENT OF THE METAL DECK IS PER THE PROJECT'S SPECIFICATIONS.
- 4. CONFIRM THAT CONNECTIONS MADE TO EXISTING FRAMING EMBEDS OR MEMBERS ARE MADE PER STRUCTURAL DETAILS.

LIGHTGAUGE METAL FRAMING

- 1. VERIFY THAT APPROVED SHOP DRAWINGS FOR EXTERIOR LIGHTGAUGE FRAMING ARE AVAILABLE AT THE JOBSITE AND THAT INSTALLATION OF MEMBERS IS IN ACCORDANCE WITH THESE DRAWINGS AND CONSTRUCTION DOCUMENTS.

REPORTING

- 1. DURING AN INSPECTION, IF A DEFICIENCY IS OBSERVED AND HAS NOT BEEN CORRECTED PRIOR TO LEAVING THE SITE, THE SPECIAL INSPECTOR SHALL INFORM THE CONTRACTOR OF THE DEFICIENCY. IF THE DEFICIENCY IS DISPUTED BY THE CONTRACTOR, IMMEDIATELY INFORM THE STRUCTURAL ENGINEER AS TO THE NATURE OF THE DEFICIENCY AND ITS EXTENT.
- 2. ADDITIONALLY, FOR THE ITEMS FOUND IN NON-CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND NOT CORRECTED DURING THE INSPECTION, THE SPECIAL INSPECTOR SHALL MAINTAIN A LOG OF THE DEFICIENT ITEMS AT THE SITE. THE DEFICIENCIES SHALL BE CONSECUTIVELY NUMBERED AND INCLUDE DATE ITEM OBSERVED AND DATE ITEM CORRECTED. THE LOG SHALL BE SUBMITTED MONTHLY FOR REVIEW BY CONTRACTOR, ENGINEER OF RECORD AND BUILDING OFFICIAL.
- 3. IT IS NOT THE RESPONSIBILITY OF THE SPECIAL INSPECTOR TO SEEK A SOLUTION TO DEFICIENCIES AND UNDER NO CIRCUMSTANCES IS HE TO REDESIGN A DEFICIENT CONDITION OR ALLOW A DEVIATION WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER. THE CONTRACTOR ALONE IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER FOR SOLUTIONS TO DEVIATIONS AND NON-CONFORMING ITEMS.
- 4. THE SPECIAL INSPECTOR SHALL SUBMIT AN ORIGINAL SIGNED AND SEALED COPY OF WRITTEN REPORTS FOR EACH INSPECTION TO THE ENGINEER OF RECORD A MAXIMUM OF 3 DAYS AFTER PERFORMING SUCH INSPECTION. SUBMIT INSPECTION REPORTS TO THE BUILDING DEPARTMENT MONTHLY OR AS REQUESTED BY THE BUILDING OFFICIAL.
- 5. THE PRESENCE OF A SPECIAL INSPECTOR IN NO WAY LESSENS THE RESPONSIBILITY OF THE CONTRACTOR TO BUILD A QUALITY STRUCTURE IN TOTAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THERE IS ANY FAILURE BY THE CONTRACTOR TO CONFORM TO CONSTRUCTION DOCUMENTS.



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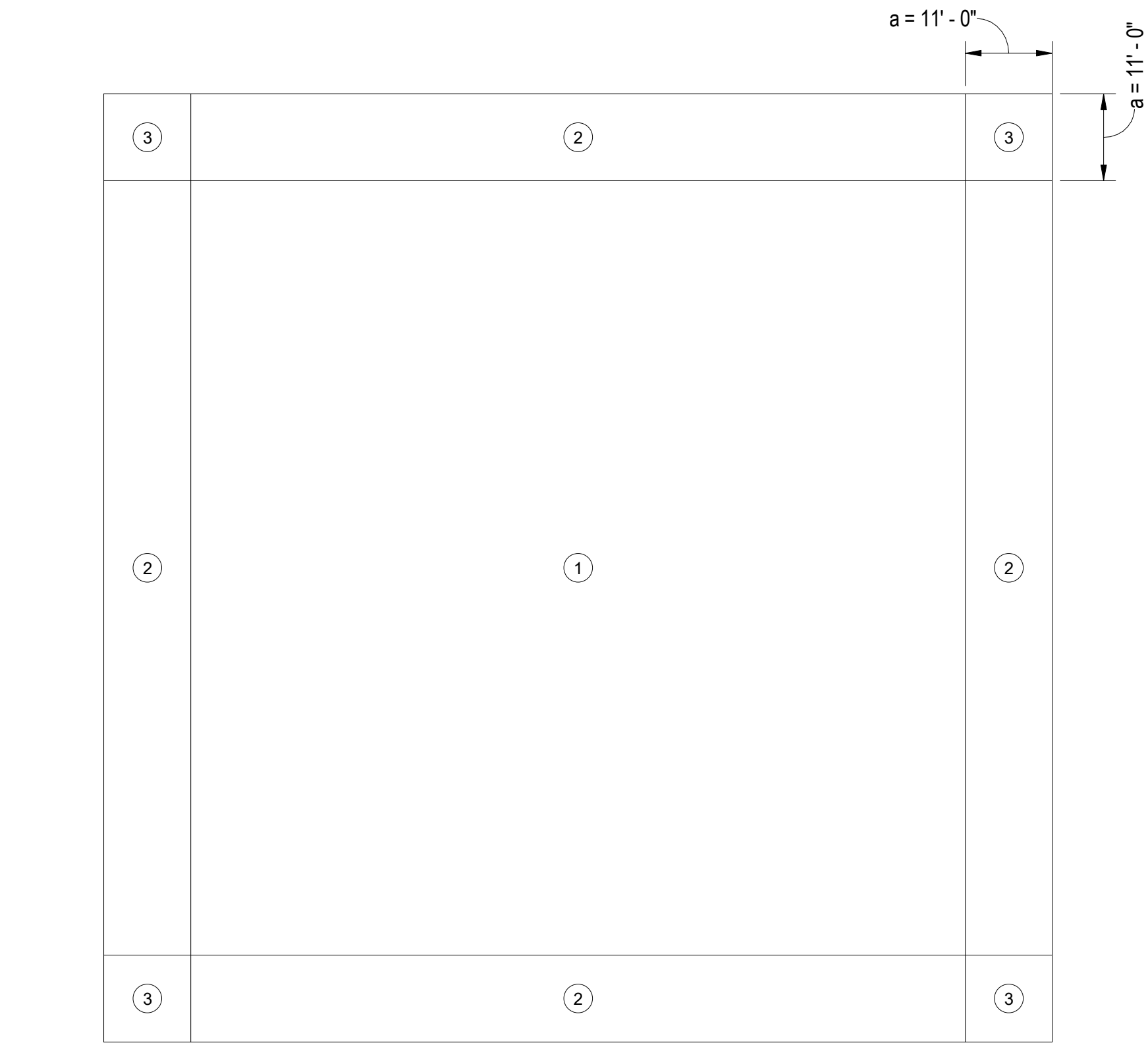
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STRUCTURAL GENERAL NOTES
CONTINUED AND THRESHOLD
INSPECTION PLAN

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S003

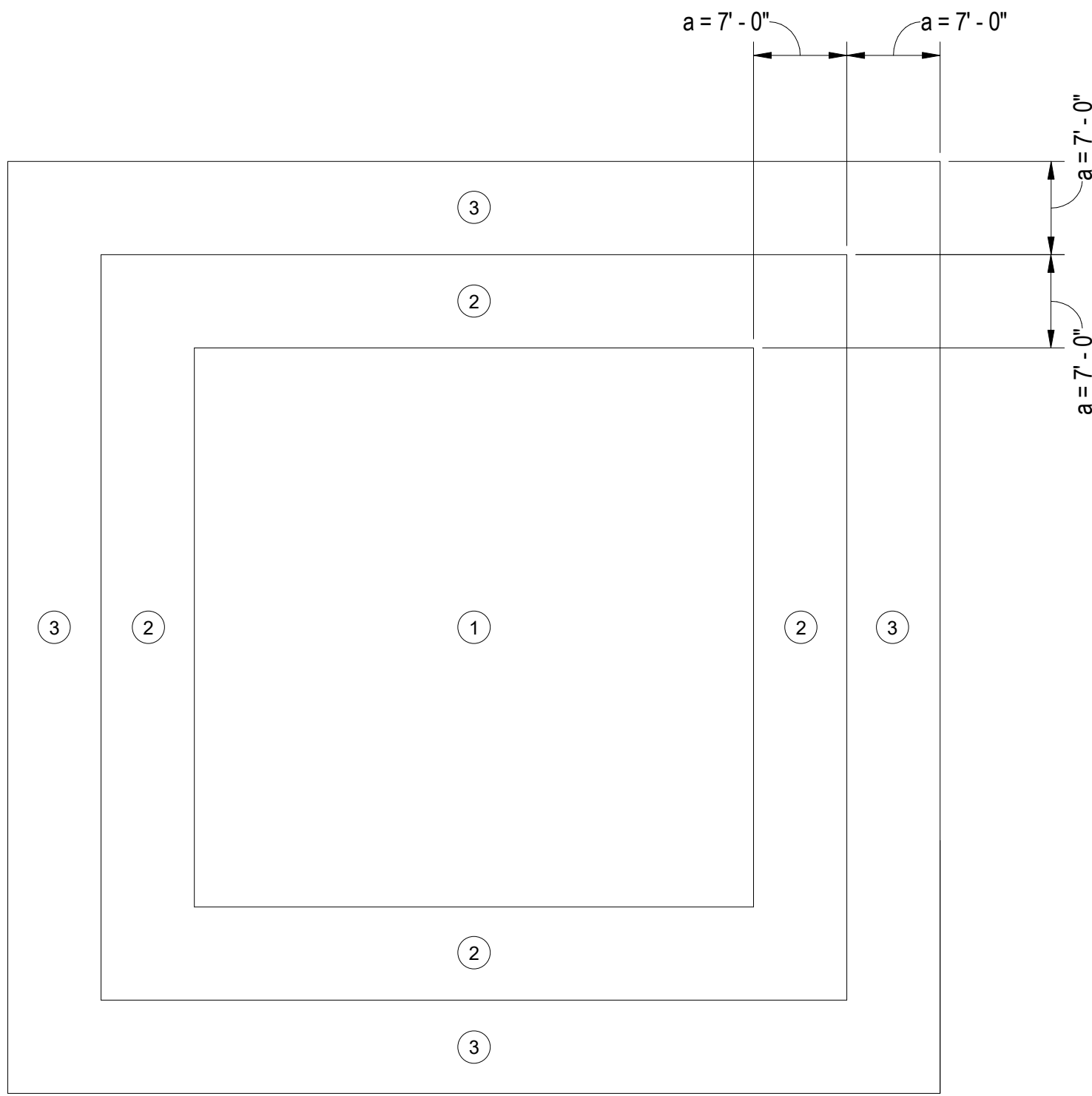
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1
S004
WIND LOADING PLAN - EVENT CENTER
1/16" = 1'-0"



2
S004
WIND LOADING PLAN - LIBRARY
1" = 20'-0"



3
S004
WIND LOADING PLAN - PORTE COCHERE
3/32" = 1'-0"

ULTIMATE C&C WIND PRESSURES (ASCE 7-10)												
BUILDING	a (FT)	Vult (MPH)	Vasd (MPH)	A (SF)	ZONE (1) (PSF)	ZONE (2) (PSF)	ZONE (3) (PSF)	ZONE (4) (PSF)	ZONE (5) (PSF)	ZONE (2H) (PSF)	ZONE (3H) (PSF)	
EVENT CENTER	11	144	112	<10	+21.0 -51.5	+47.2 -86.5	+47.2 -86.5	+47.2 -51.1	+47.2 -62.9	+XX -XX	+XX -XX	
				20	+19.7 -50.2	+45.1 -77.3	+45.1 -77.3	+45.1 -49.0	+45.1 -58.7	+XX -XX	+XX -XX	
				50	+17.9 -48.5	+42.3 -65.1	+42.3 -65.1	+42.3 -46.3	+42.3 -53.2	+XX -XX	+XX -XX	
				100+	+16.6 -47.2	+40.2 -55.9	+40.2 -55.9	+40.2 -44.2	+40.2 -49.0	+XX -XX	+XX -XX	
LIBRARY	10	144	112	<10	+21.8 -53.7	+49.1 -90.1	+49.1 -90.1	+49.1 -53.2	+49.1 -65.5	+XX -XX	+XX -XX	
				20	+20.5 -52.3	+47.0 -80.5	+47.0 -80.5	+47.0 -51.1	+47.0 -61.2	+XX -XX	+XX -XX	
				50	+18.7 -50.5	+44.1 -67.8	+44.1 -67.8	+44.1 -48.2	+44.1 -55.4	+XX -XX	+XX -XX	
				100+	+17.3 -49.1	+41.9 -58.2	+41.9 -58.2	+41.9 -46.0	+41.9 -51.1	+XX -XX	+XX -XX	
PORTE COCHERE	7	135	105	<49	+28.3 -25.9	+42.4 -40.0	+56.5 -40.0	-	-	-	-	
				>49<196	+28.3 -25.9	+42.4 -40.0	+42.4 -40.0	-	-	-	-	
				>196	+28.3 -25.9	+28.3 -25.9	+28.3 -25.9	-	-	-	-	

ULTIMATE C&C WIND PRESSURE PLAN NOTES:

1. WIND PRESSURE TABLE IS BASED ON FBC 2017/ASCE 7-10 ULTIMATE WIND SPEED, PRESSURES SHOWN ABOVE ARE ULTIMATE COMPONENTS AND CLADDING PRESSURES.

A - INDICATES TRIBUTARY AREA IN S.F.
a - INDICATES END ZONE WIDTH IN FT.
Vult - INDICATES ULTIMATE DESIGN WIND SPEED IN MPH
Vasd - INDICATES NOMINAL DESIGN WIND SPEED IN MPH

2. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.

3. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.

4. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.

5. ROOF AND ZONES 1 THRU 3

6. WALL ZONES 4 AND 5

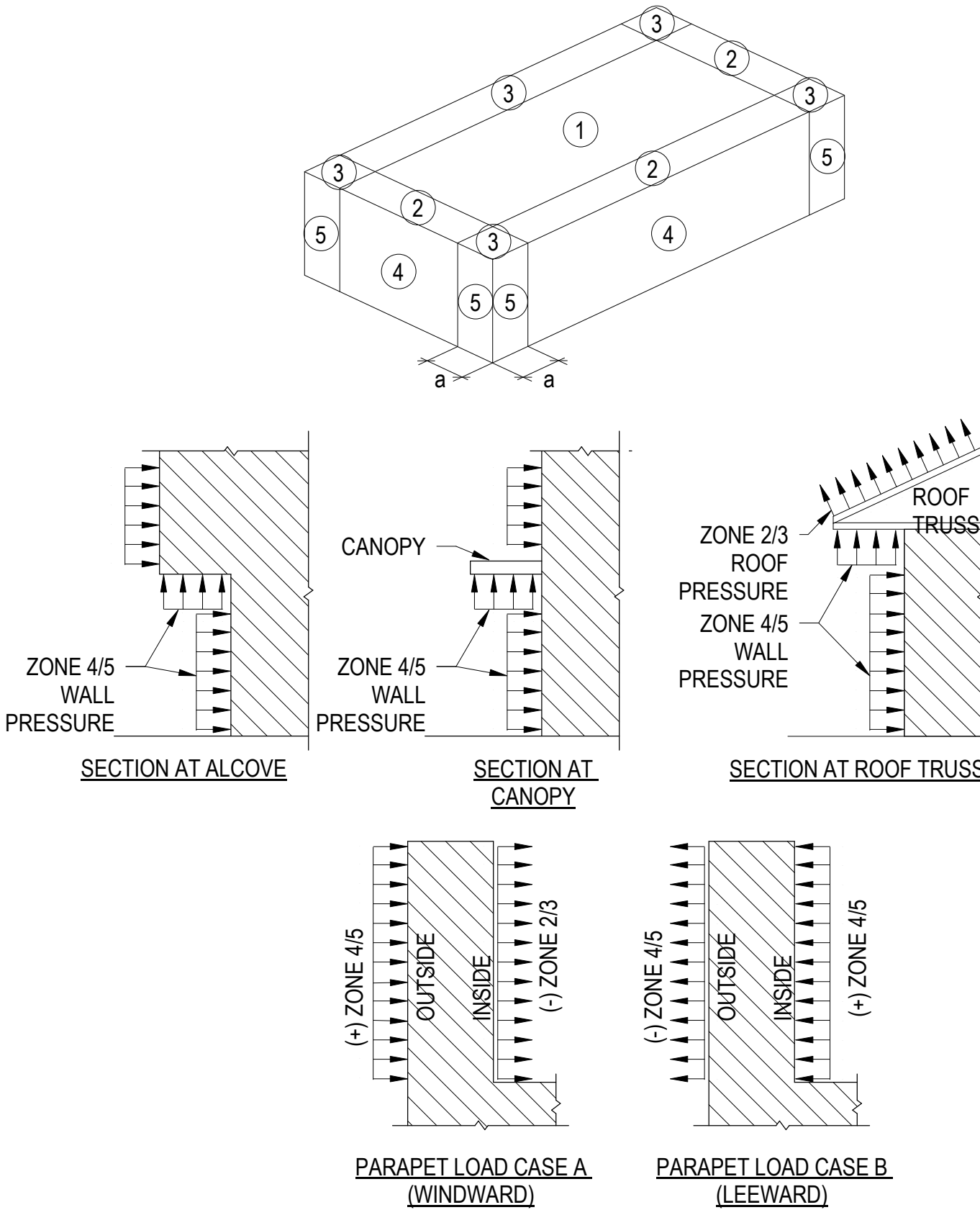
7. OVERHANG ZONES 2H AND 3H APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.

8. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. HOWEVER, THE MAXIMUM REDUCTION OF WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF FOR SUPERIMPOSED DEAD LOADS.

9. INTERNAL PRESSURE COEFFICIENT FOR ENCLOSED BUILDING EQUALS +0.18 AND -0.18
INTERNAL PRESSURE COEFFICIENT FOR OPEN STRUCTURE EQUALS +/- 0.00
INTERNAL PRESSURE COEFFICIENT FOR PARTIALLY ENCLOSED STRUCTURE EQUALS +/- 0.55

10. ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A LATERAL PRESSURE OF XX PSF AND A SIMULTANEOUS UPLIFT PRESSURE OF XX PSF (ROOF TOP EQUIPMENT PER FBC SECTION 1620.6 WITH Qh = XX PSF)

11. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT OR CANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.



TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 653, FLORIDA STATUTES.

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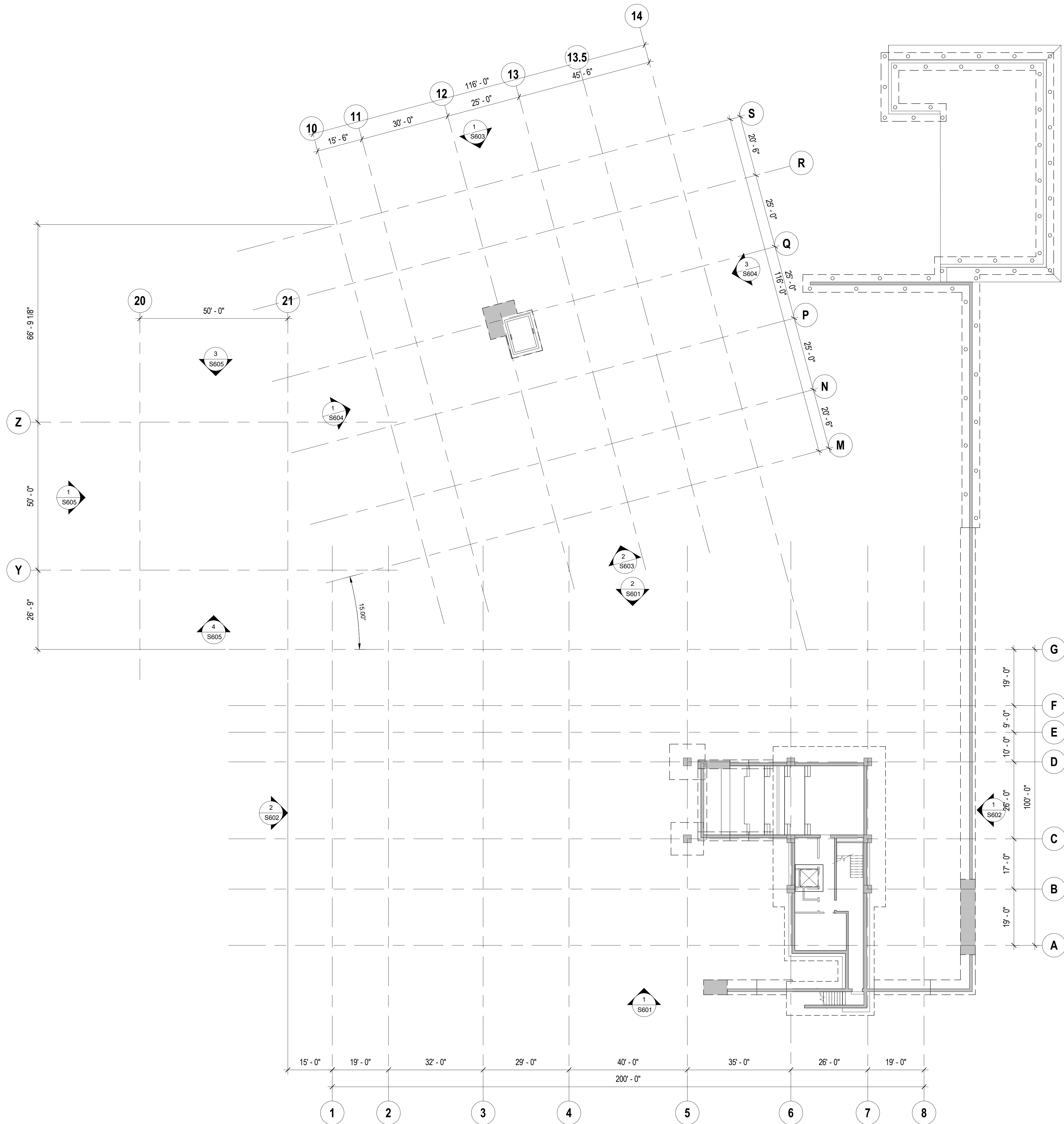
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COMPONENT WIND CRITERIA

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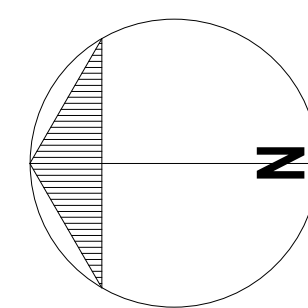
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S100

FOUNDATION PLAN - BASEMENT LEVEL - OVERALL

1/16" = 1'-0"



TO THE BEST OF THE STRUCTURAL ENGINEER'S
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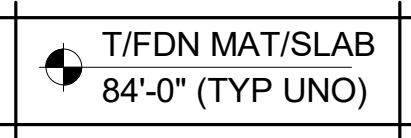
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FOUNDATION PLAN - BASEMENT LEVEL -
OVERALL

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S100



1. REFER TO GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
2. FOUNDATION SIZES INDICATED ARE BASED ON THE SUBSURFACE RECOMMENDATIONS PROVIDED BY THE GEO-TECHNICAL ENGINEER FOR THE PROJECT. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. VERIFY ALL DIMENSIONS, ELEVATIONS, DEPRESSIONS, DRAINAGE DIRECTIONS, FINISHES AND LIMITS THEREOF, AND INFORMATION NOT EXPLICITLY INDICATED ON CONTRACT DOCUMENTS WITH THE ARCHITECTURAL, CIVIL, AND MEP/FP DRAWINGS PRIOR TO CONSTRUCTION.
4. COLUMN AND WALL CENTERLINES SHALL COINCIDE WITH FOUNDATION CENTERLINES UNLESS NOTED OTHERWISE ON PLAN, SECTIONS, AND DETAILS.
5. ALL REINFORCING IN FOUNDATION CORNERS, INTERSECTIONS, TEES, AND CHANGES IN DIRECTION SHALL BE CONTINUOUS AND CORNER REINFORCING SHALL BE PROVIDED AND LAPPED.
6. SEE DETAIL X/SXXX FOR CONCRETE SLAB ON GRADE CONTACT JOINT INFORMATION
7. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR SLABS AND SLAB PADES OUTSIDE OF BUILDING FOOTPRINT.

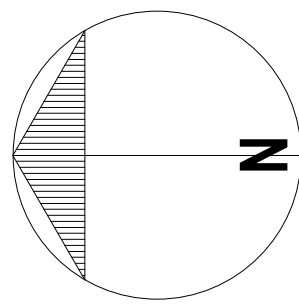
- 1 SLAB ON GRADE SHALL BE A MINIMUM OF 4" (TOTAL) THICKNESS WITH 6X6-W6.1XW2.1 WWF OVER "SAND-CHAIRS" AND SHALL BEAR ON COMPACTED TERMITE TREATED SOIL. SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY. PROVIDE A 10 MIL VAPOR BARRIER BENEATH SLAB.
- 2 PROVIDE (2) 4X 4'-0" LONG REBAR CENTERED IN SLAB @ ALL RE-ENTRANT SLAB CORNERS - TYP.
- 3 PRE-ENGINEERED METAL STAIRS AND LANDINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS. SUBMIT SIGNED & SEALED SHOP DRAWINGS FOR REVIEW.
- 4 12" REINF CONCRETE RETAINING WALL. DEWATER AND PLACE FIRST FLOOR SLAB PRIOR TO BACKFILLING.
- 5 8" REINF CONCRETE WALL.



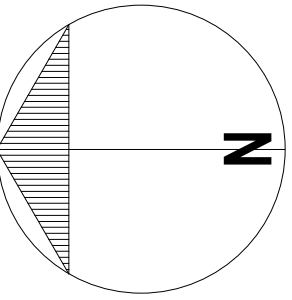
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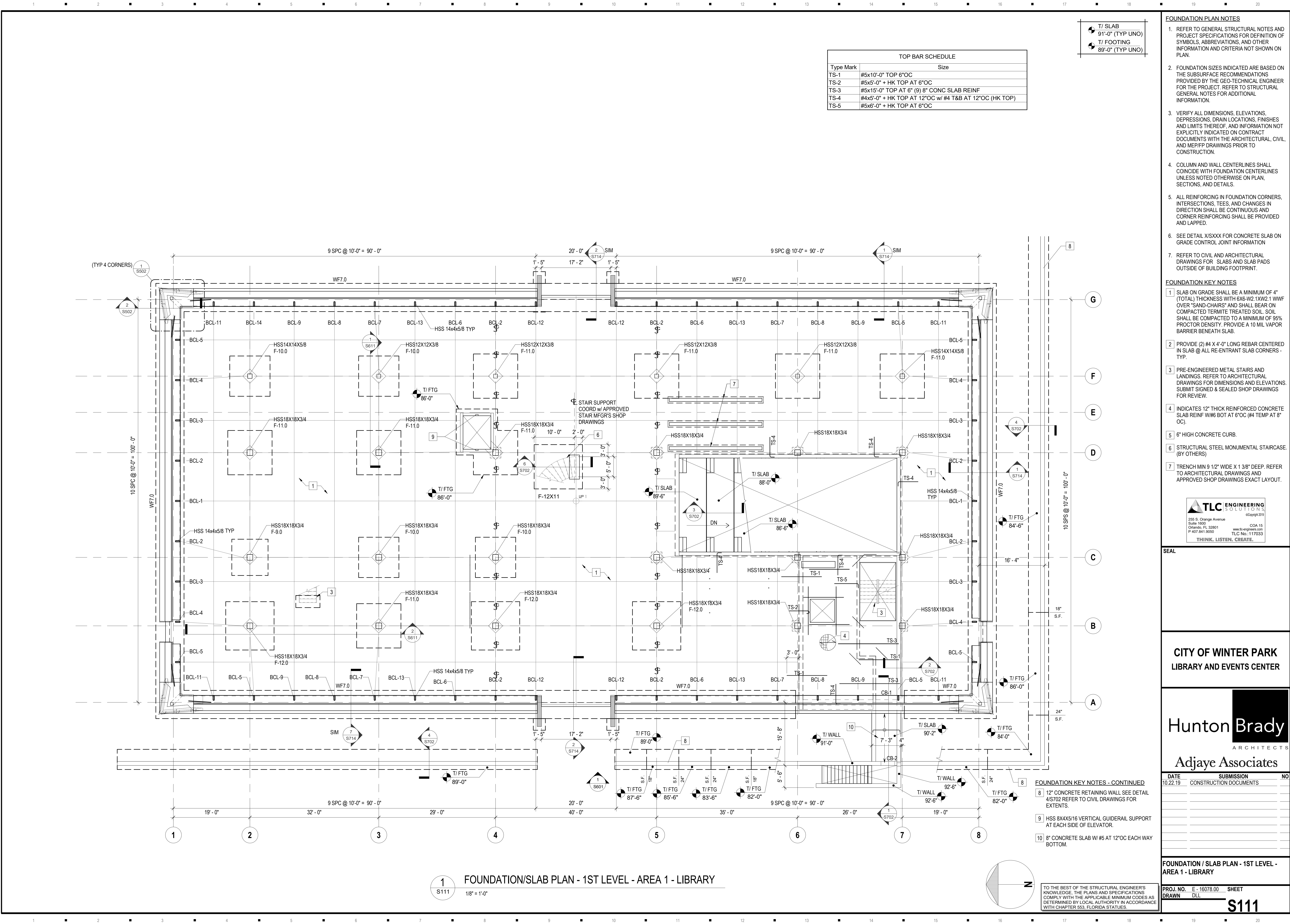


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FOUNDATION PLAN NOTES

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- VERIFY ALL DIMENSIONS, ELEVATIONS, DEPRESSIONS, DRAIN LOCATIONS, FINISHES AND LIMITS THEREOF, AND INFORMATION NOT EXPLICITLY INDICATED ON CONTRACT DOCUMENTS WITH THE ARCHITECTURAL, CIVIL, AND MEP/FP DRAWINGS PRIOR TO CONSTRUCTION.
- COLUMN AND WALL CENTERLINES SHALL COINCIDE WITH FOUNDATION CENTERLINES UNLESS NOTED OTHERWISE ON PLAN, SECTIONS, AND DETAILS.
- ALL REINFORCING IN FOUNDATION CORNERS, INTERSECTIONS, TEES, AND CHANGES IN DIRECTION SHALL BE CONTINUOUS AND CORNER REINFORCING SHALL BE PROVIDED AND LAPPED.
- SEE DETAIL X/SXXX FOR CONCRETE SLAB ON GRADE CONTROL JOINT INFORMATION
- REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR SLABS AND SLAB PADS OUTSIDE OF BUILDING FOOTPRINT.

FOUNDATION KEY NOTES

- SLAB ON GRADE SHALL BE A MINIMUM OF 4" (TOTAL) THICKNESS WITH 6X6-W/2.1XW/2.1 WWF OVER "SAND-CHAIRS" AND SHALL BEAR ON COMPACTED TERMITES TREATED SOIL. SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY. PROVIDE A 10 MIL VAPOR BARRIER BENEATH SLAB.
- PROVIDE (2) #4 X 4'-0" LONG REBAR CENTERED IN SLAB @ ALL RE-ENTRANT SLAB CORNERS - TYP.
- PRE-ENGINEERED METAL STAIRS AND LANDINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS. SUBMIT SIGNED & SEALED SHOP DRAWINGS FOR REVIEW.
- INDICATES 12" THICK REINFORCED CONCRETE SLAB REIN W/ #6 BOT AT 6"OC (#4 TEMP AT 8" OC).
- 6" HIGH CONCRETE CURB.
- STRUCTURAL STEEL MONUMENTAL STAIRCASE. (BY OTHERS)
- TRENCH MIN 9 1/2" WIDE X 1 3/8" DEEP. REFER TO ARCHITECTURAL DRAWINGS AND APPROVED SHOP DRAWINGS EXACT LAYOUT.



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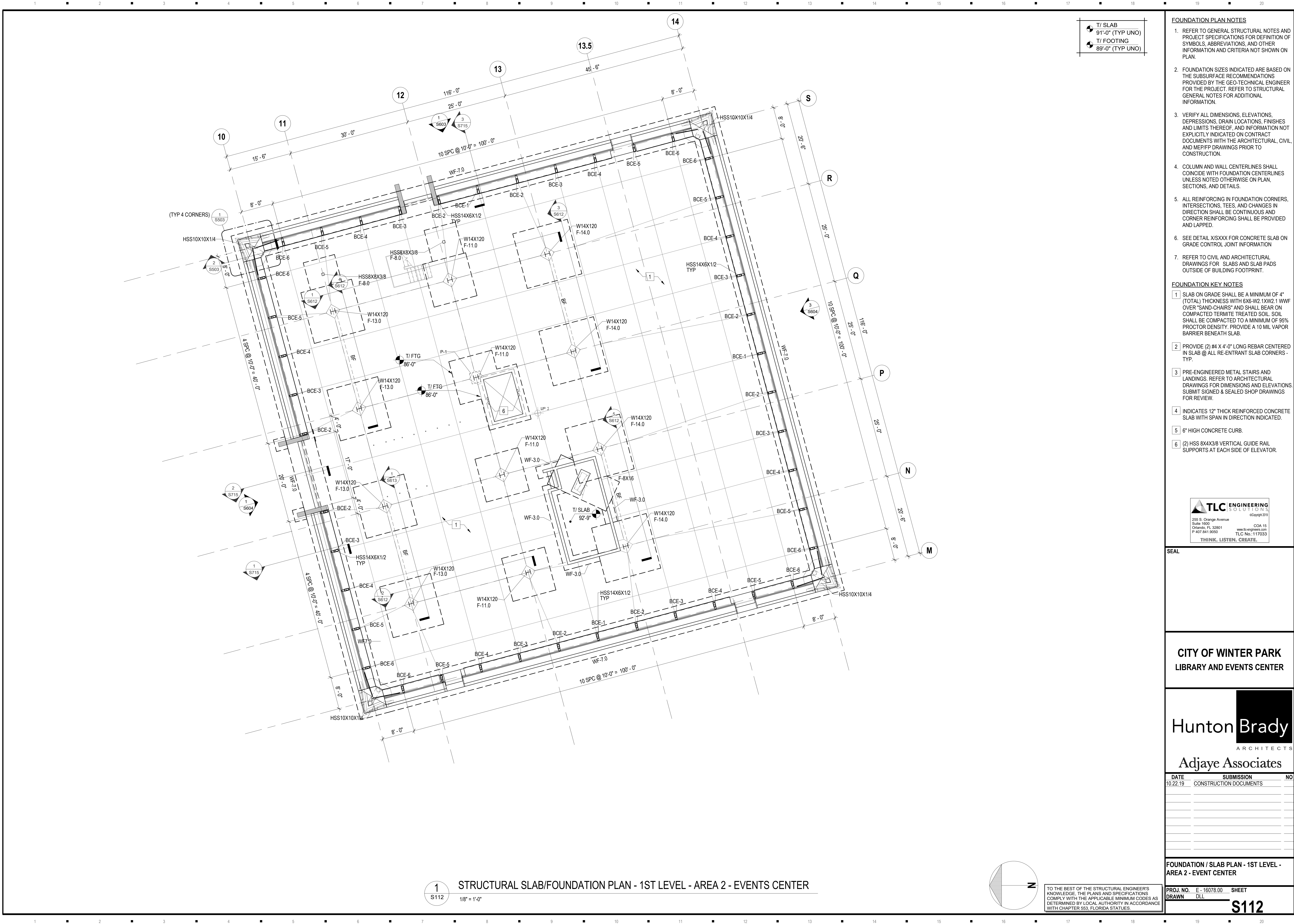
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FOUNDATION KEY NOTES - CONTINUED

- 12" CONCRETE RETAINING WALL SEE DETAIL 4/S702 REFER TO CIVIL DRAWINGS FOR EXTENTS.
- HSS 8X4X5/16 VERTICAL GUIDERAIL SUPPORT AT EACH SIDE OF ELEVATOR.
- 8" CONCRETE SLAB W/ #5 AT 12"OC EACH WAY BOTTOM.



FOUNDATION PLAN NOTES

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5. ALL REINFORCING IN FOUNDATION CORNERS, INTERSECTIONS, TEES, AND CHANGES IN DIRECTION SHALL BE CONTINUOUS AND CORNER REINFORCING SHALL BE PROVIDED AND LAPPED.
6. SEE DETAIL X/SXXX FOR CONCRETE SLAB ON GRADE CONTROL JOINT INFORMATION
7. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR SLABS AND SLAB PADS OUTSIDE OF BUILDING FOOTPRINT.

FOUNDATION KEY NOTES

- 1 SLAB ON GRADE SHALL BE A MINIMUM OF 4" (TOTAL THICKNESS WITH 6X6-W/2 1X12-1 WWF OVER "SAND-CHAIRS" AND SHALL BEAR ON COMPACTED TERMITE TREATED SOIL. SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% PROCTOR DENSITY. PROVIDE A 10 MIL VAPOR BARRIER BENEATH SLAB.
- 2 PROVIDE (2) #4 X 4'-0" LONG REBAR CENTERED IN SLAB @ ALL RE-ENTRANT SLAB CORNERS - TYP.
- 3 PRE-ENGINEERED METAL STAIRS AND LANDINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS. SUBMIT SIGNED & SEALED SHOP DRAWINGS FOR REVIEW.
- 4 INDICATES 12" THICK REINFORCED CONCRETE SLAB WITH SPAN IN DIRECTION INDICATED.
- 5 6" HIGH CONCRETE CURB.
- 6 (2) HSS 8X4X3/8 VERTICAL GUIDE RAIL SUPPORTS AT EACH SIDE OF ELEVATOR.



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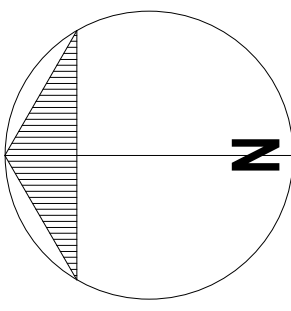
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FOUNDATION / SLAB PLAN - 1ST LEVEL -
AREA 2 - EVENT CENTER

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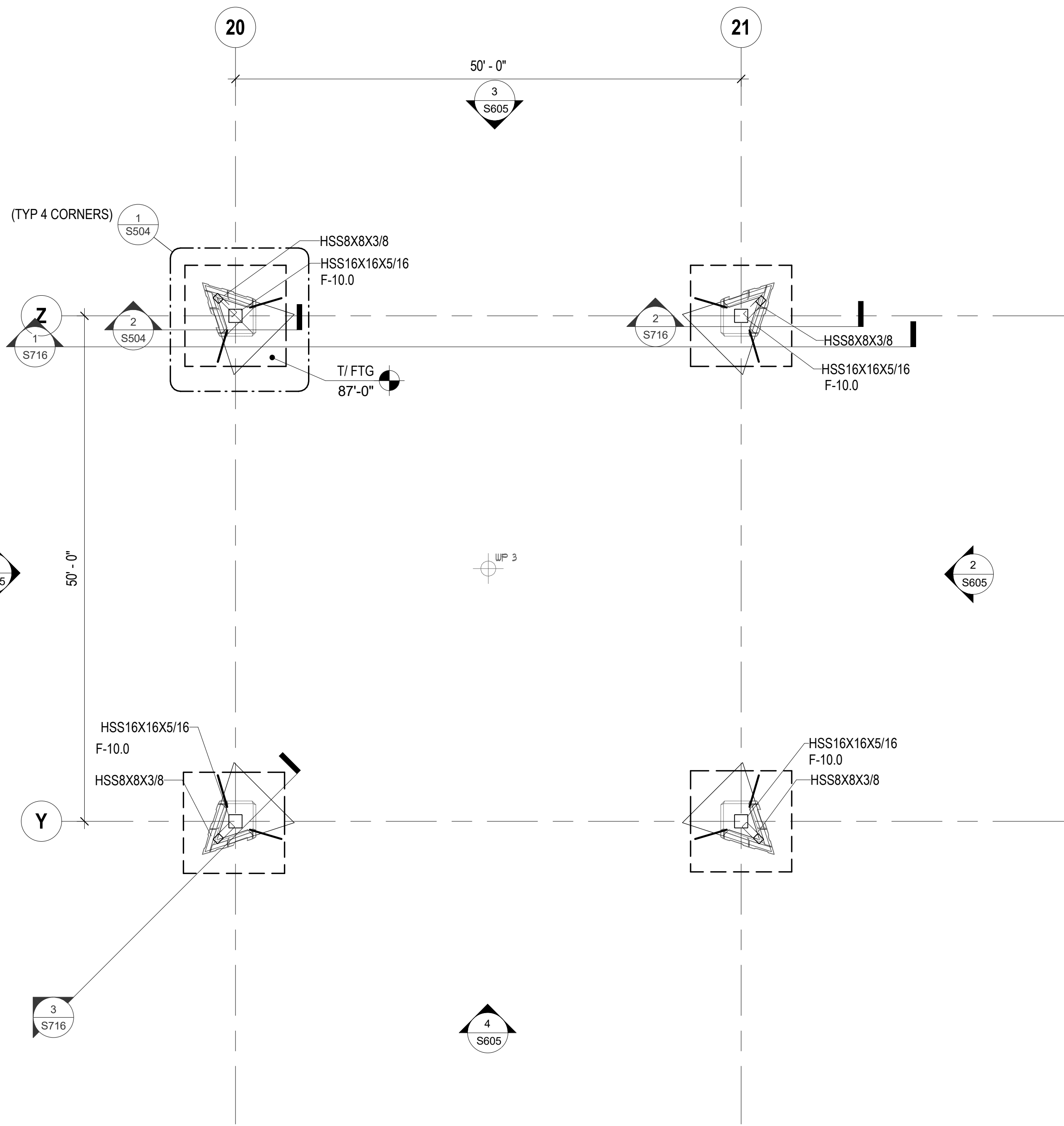
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1
S112

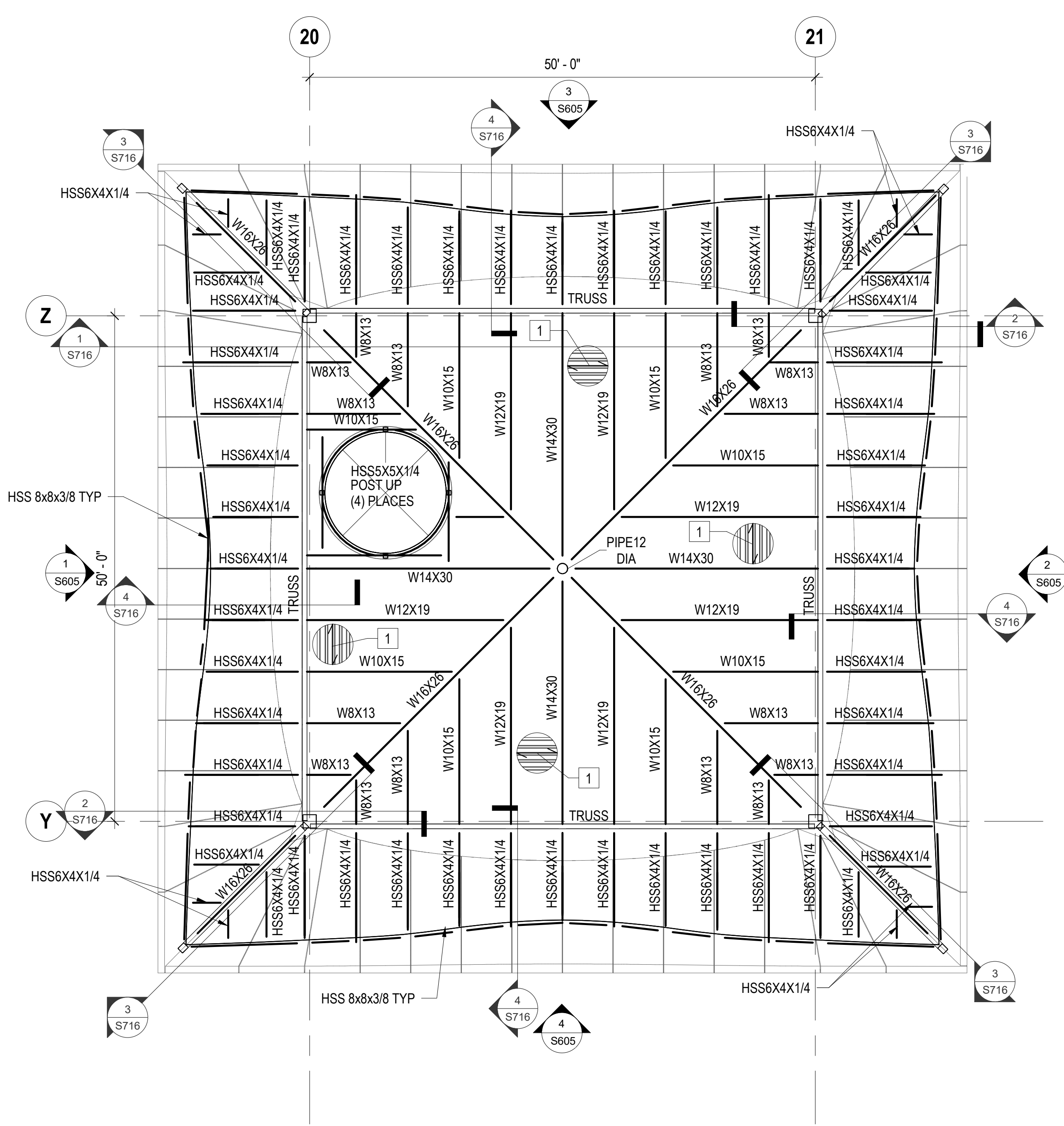
STRUCTURAL SLAB/FOUNDATION PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



T/ SLAB
91'-0" (TYP UNO)
T/ FOOTING
89'-0" (TYP UNO)

1
S113
FOUNDATION/SLAB PLAN - 1ST LEVEL - AREA 3 - PORTE COCHERE
1/8" = 1'-0"



T/ STEEL
114'-10 1/2" (TYP UNO)

2
S113
ROOF FRAMING PLAN - AREA 3 - PORTE COCHERE
1/8" = 1'-0"

ROOF FRAMING KEY NOTES
1 TYPICAL ROOF CONSTRUCTION: TAPERED RIGID INSULATION (SEE ARCHITECTURAL DRAWINGS) OVER 1-1/2" TYPE "B" 22 GAGE GALVANIZED STEEL ROOF DECK. REFER TO SYMBOLS ON PLAN FOR THE INTENDED SPAN DIRECTIONS OF THE METAL DECK.

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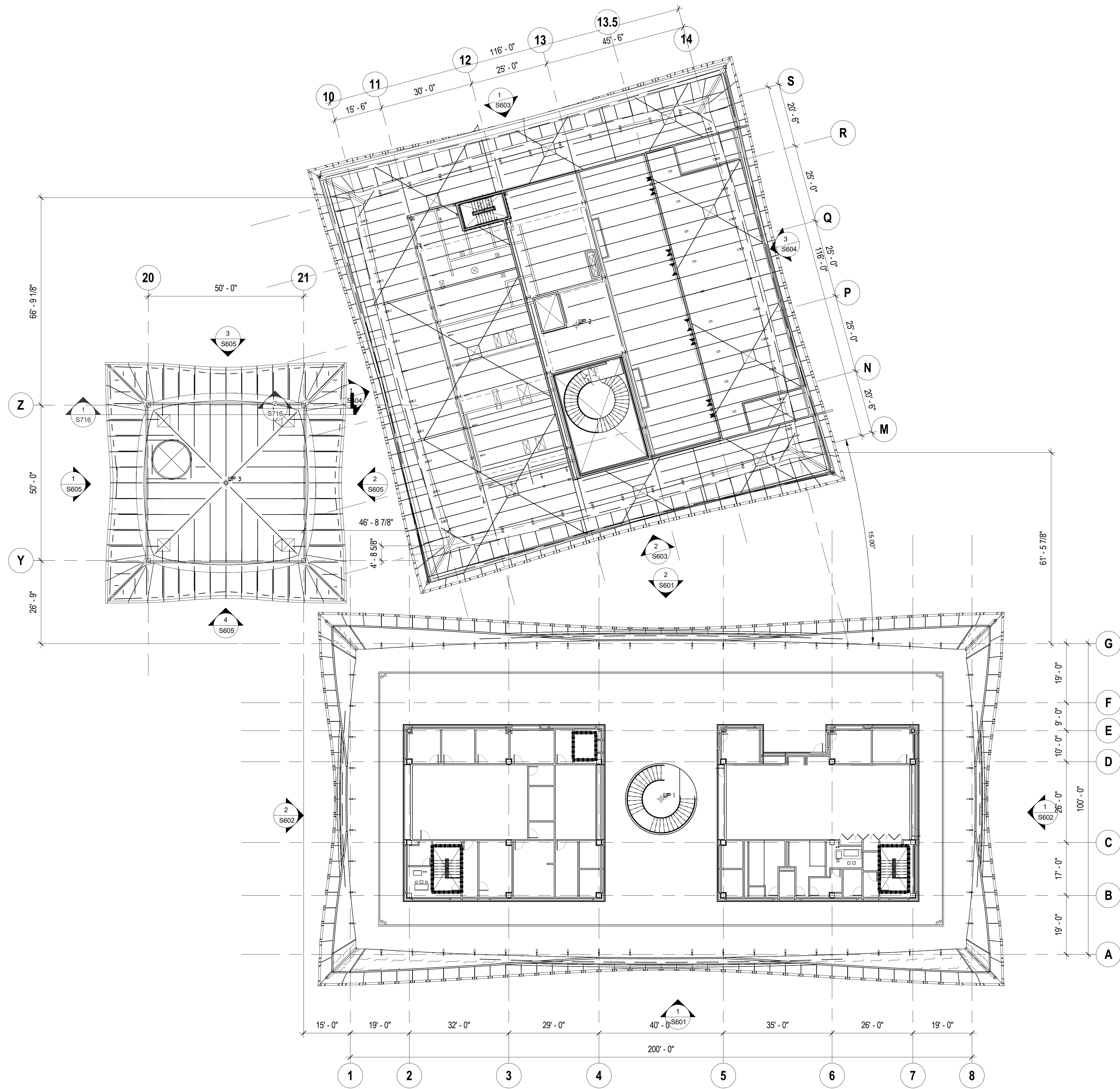
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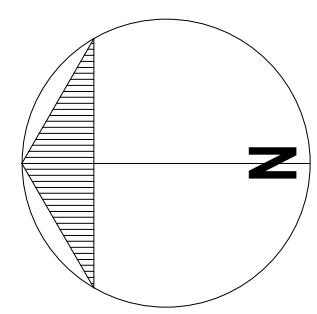
FOUNDATION / FRAMING PLAN - 1ST LEVEL & ROOF FRAMING PLAN - AREA 3 - PORTE COCHERE

PROJ. NO. E - 16078.00 SHEET
DRAWN DLL
S113

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1 FRAMING PLAN - 2ND LEVEL - OVERALL
1/16" = 1'-0"



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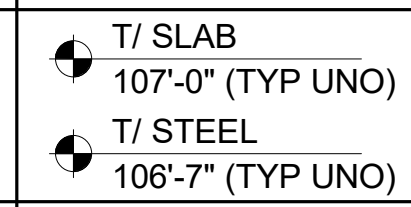
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FRAMING PLAN - 2ND LEVEL - OVERALL

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S120



1. REFER TO THE GENERAL STRUCTURAL NOTES & PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION / CRITERIA NOT SHOWN ON PLAN.
2. REFER TO THE GENERAL STRUCTURAL NOTES FOR REQUIREMENTS PERTAINING TO THE EXISTING CONSTRUCTION AS IT RELATES TO NEW WORK.
3. TYPICAL SECTIONS SHOWN ARE APPLICABLE TO SIMILAR CONDITIONS, EVEN IF SECTION MARKS ARE NOT SHOWN.
4. COORDINATE FINAL SIZE AND LOCATION OF ROOF PENETRATIONS, OPENINGS, AND CHASES WITH THE ARCHITECTURAL AND MEP/FD DRAWINGS. PROVIDE ADDITIONAL FRAMING / STRUCTURAL REINFORCEMENT FOR OPENINGS IN METAL ROOF DECK PER DETAIL X/SXXX WHERE SUCH IS REQUIRED BY THE DETAIL.
5. TOP-OF-STEEL ELEVATION SHALL BE AS REFERENCED IN THE "TYPICAL ELEVATION" NOTE ON THIS PLAN, EXCEPT AS NOTED OTHERWISE IN THE PLANS AND DETAILS. ELEVATIONS NOTED WITH A [+] OR [-] ARE REFERENCED FROM THE TYPICAL TOP-OF-STEEL ELEVATION.
6. UNLESS OTHERWISE NOTED OR DIMENSIONED ON PLAN, FRAMING IS LOCATED ON THE GRIDLINES AND THEN EQUALLY SPACED BETWEEN WITHIN THE BAYS.
7. STRUCTURAL STEEL CONNECTIONS DENOTED THUS  ARE MOMENT CONNECTIONS AND SHALL BE CONSTRUCTED PER THE ASSOCIATED DETAILS.
8. (###) AFTER A BEAM SIZE DENOTES THE NUMBER OF 3/4"x4" LONG HEADED STUDS, EQUALLY SPACED ALONG THE BEAM SPAN.

1. TYPICAL FLOOR CONSTRUCTION: 3 1/2" NORMAL WEIGHT CONCRETE OVER 1-1/2" TYPE "VL" 20 GAGE GALVANIZED COMPOSITE STEEL FLOOR DECK. REFER TO SECTION 0546-02-1.00-2.1 (5" TALL THICKNESS). REFER TO SYMBOLS ON PLAN FOR THE INTENDED SPAN DIRECTIONS OF THE COMPOSITE DECK.
2. PRE-ENGINEERED STEEL STAIR BY STAIR FABRICATOR'S ENGINEER. ANY FRAMING SHOWN IS CONCEPTUAL ONLY AND CONVEYS THE INTENT FOR SUPPORT LOCATIONS AND CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS, AND SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW.
3. REFER TO DETAILS X/SXXXX AND X/SXXXX FOR ADDITIONAL FRAMING REQUIRED AROUND FLOOR OPENINGS BASED UPON OPENING SIZE, TYPICAL.
4. BRACE BOTTOM FLANGE OF NOTED STEEL FRAMING WITH KICKERS PER DETAIL X/SXXXX.
5. PROVIDE MISC. STEEL FRAME AT GUARDRAIL /ROCKSHIELD ALONG PERIMETER OF 2ND FL.



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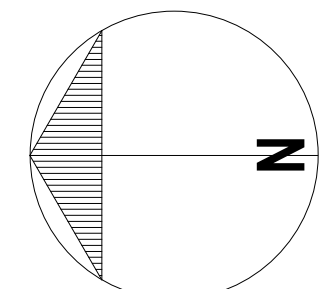
[illegible]

FRAMING PLAN - 2ND LEVEL - AREA 1 -
LIBRARY

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S130

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[illegible]

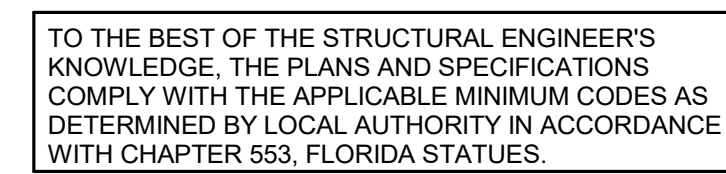
ROOF FRAMING PLAN - OVERALL

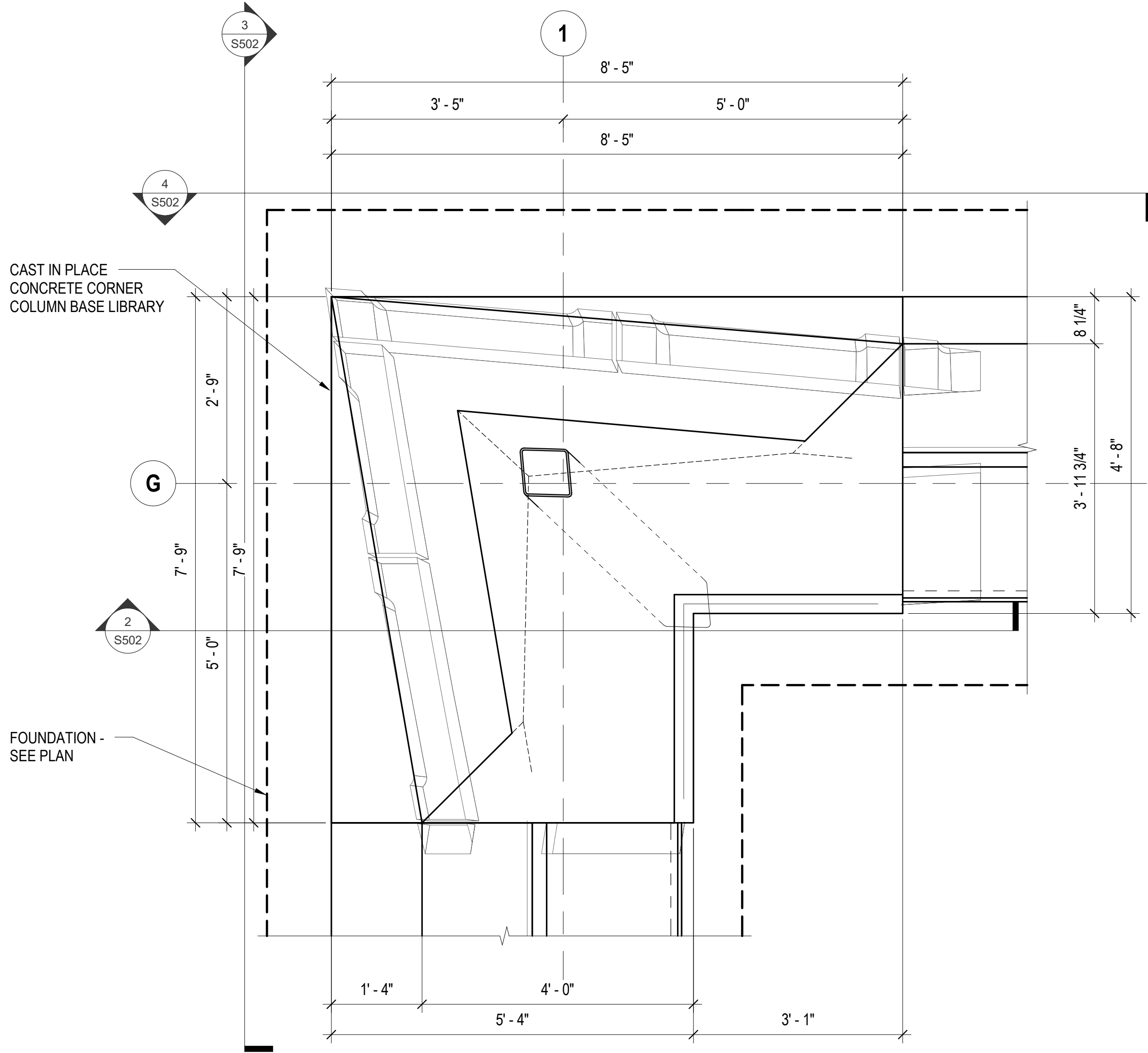

$$1/8" = 1'-0"$$

1 TYPICAL ROOF CONSTRUCTION: TAPERED RIGID INSULATION (SEE ARCHITECTURAL DRAWINGS) OVER 1-1/2" TYPE "B" 22 GAGE GALVANIZED STEEL ROOF DECK. REFER TO SYMBOLS ON PLAN FOR THE INTENDED SPAN DIRECTIONS OF THE METAL DECK.

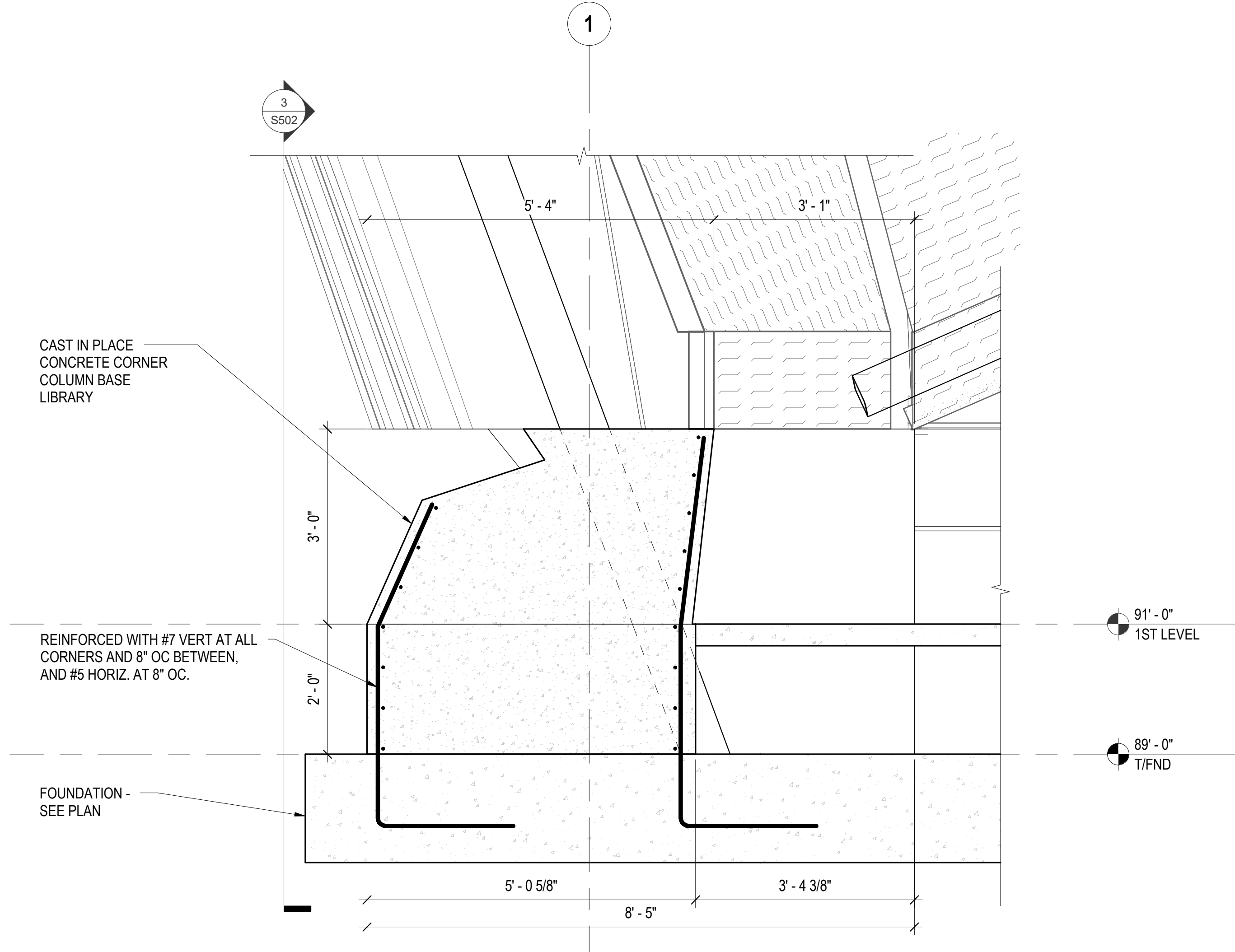


19 ■ 20

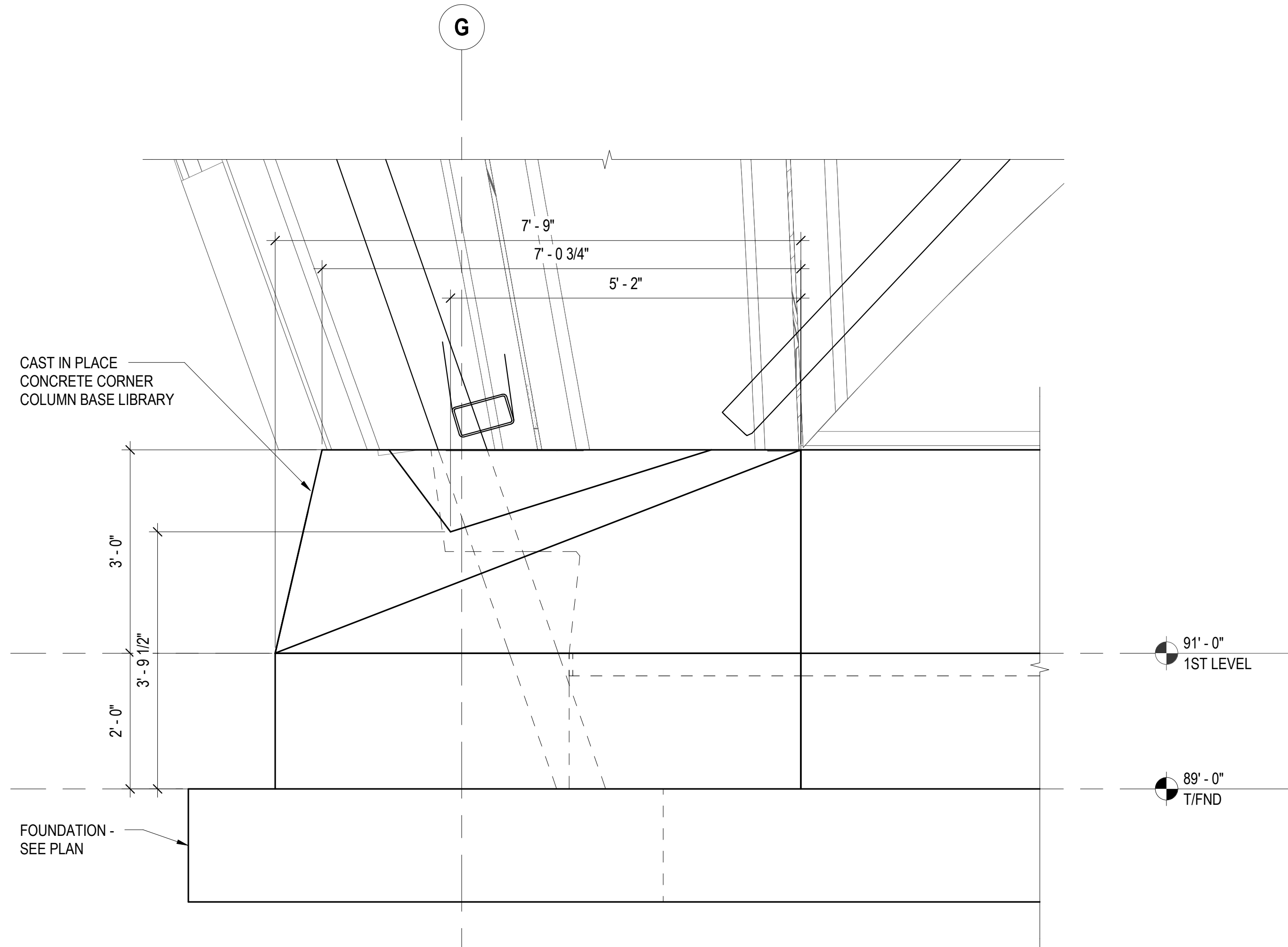




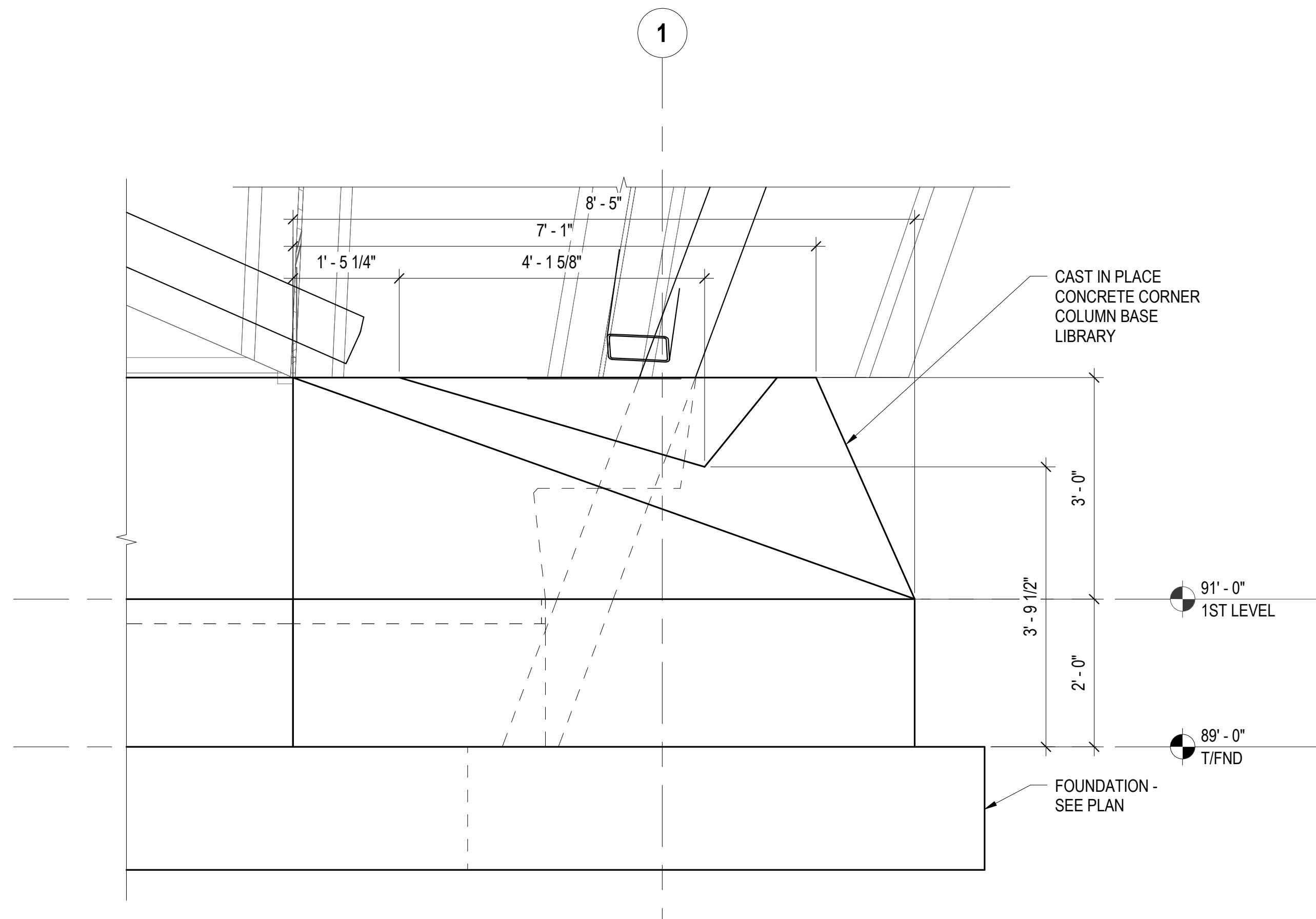
1 ENLARGED PLAN - CORNER COLUMN BASE LIBRARY
3/4" = 1'-0"



2 SECTION - CORNER COLUMN BASE LIBRARY
3/4" = 1'-0"



3 ELEVATION - CORNER COLUMN BASE LIBRARY
3/4" = 1'-0"



4 ELEVATION - CORNER COLUMN BASE LIBRARY
3/4" = 1'-0"

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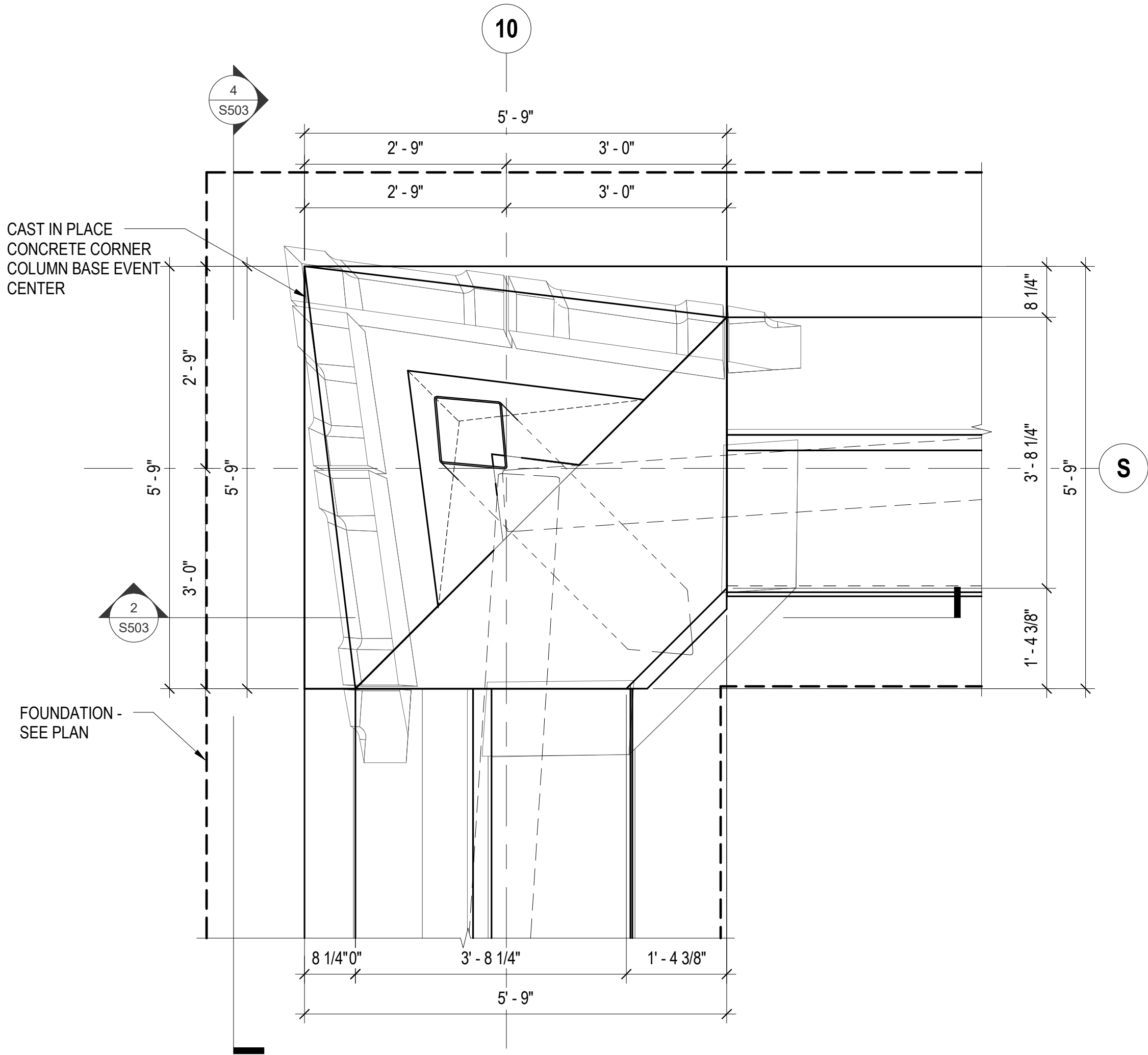
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ENLARGED PLAN - CORNER COLUMN
BASE LIBRARY

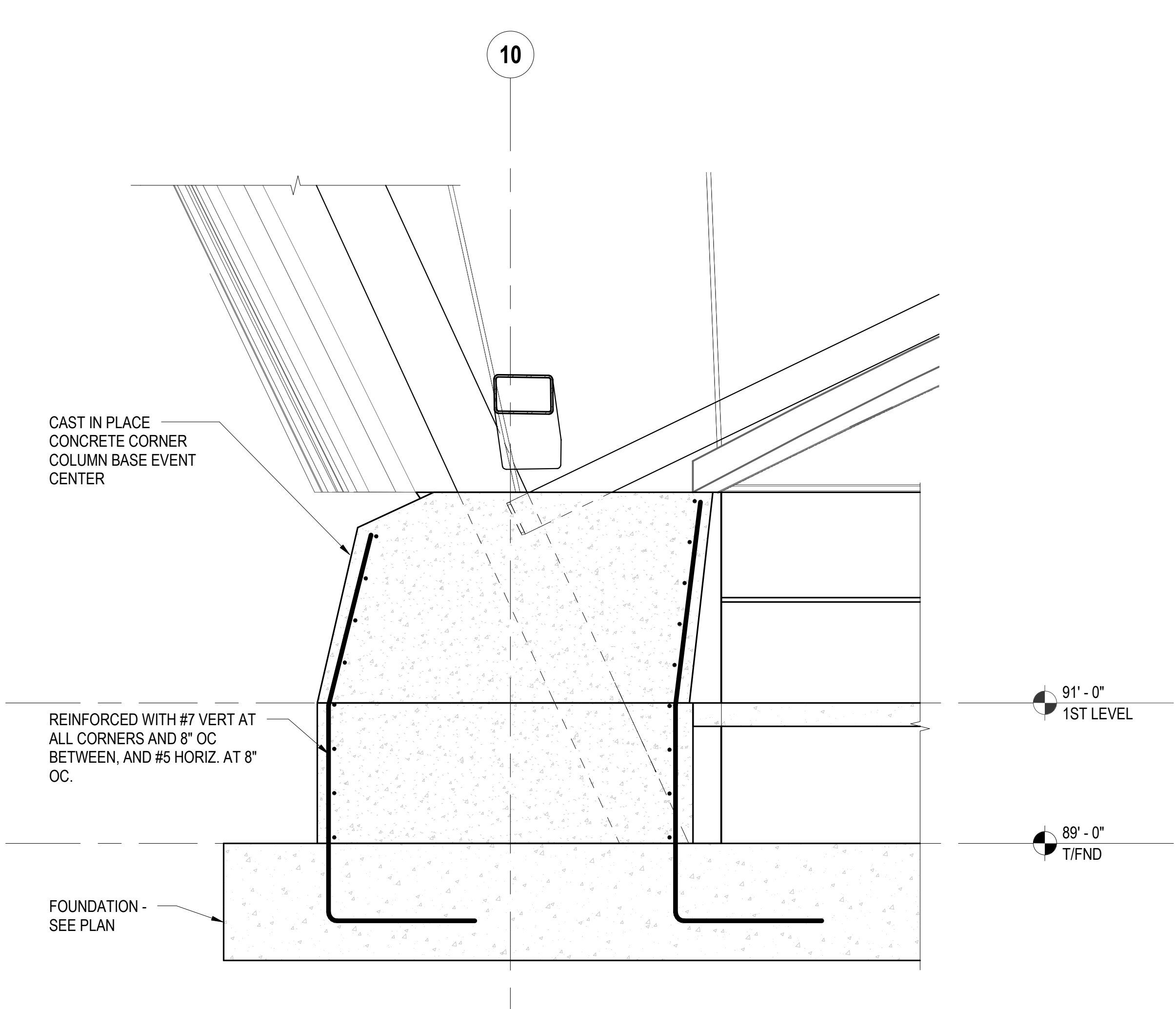
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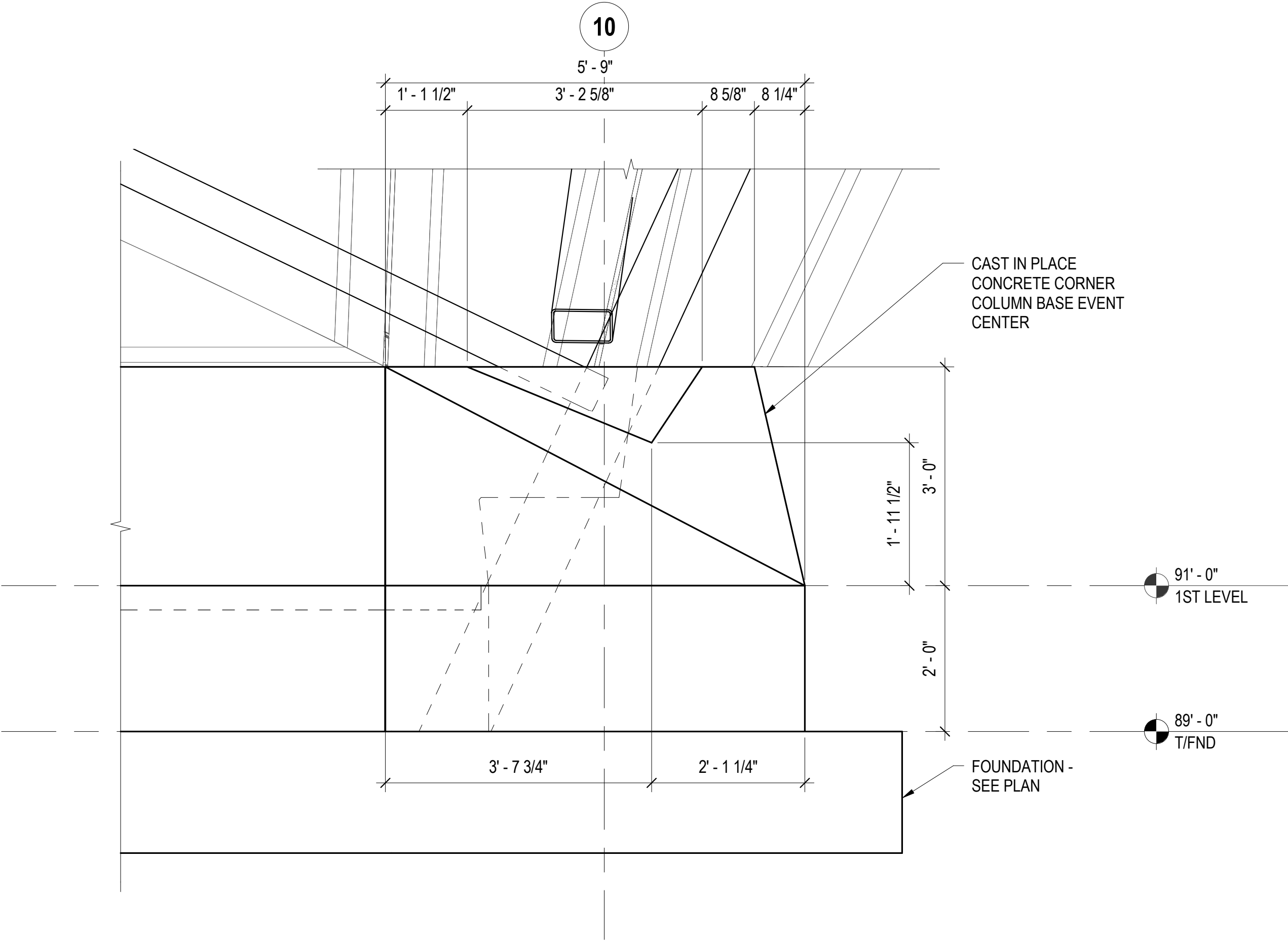
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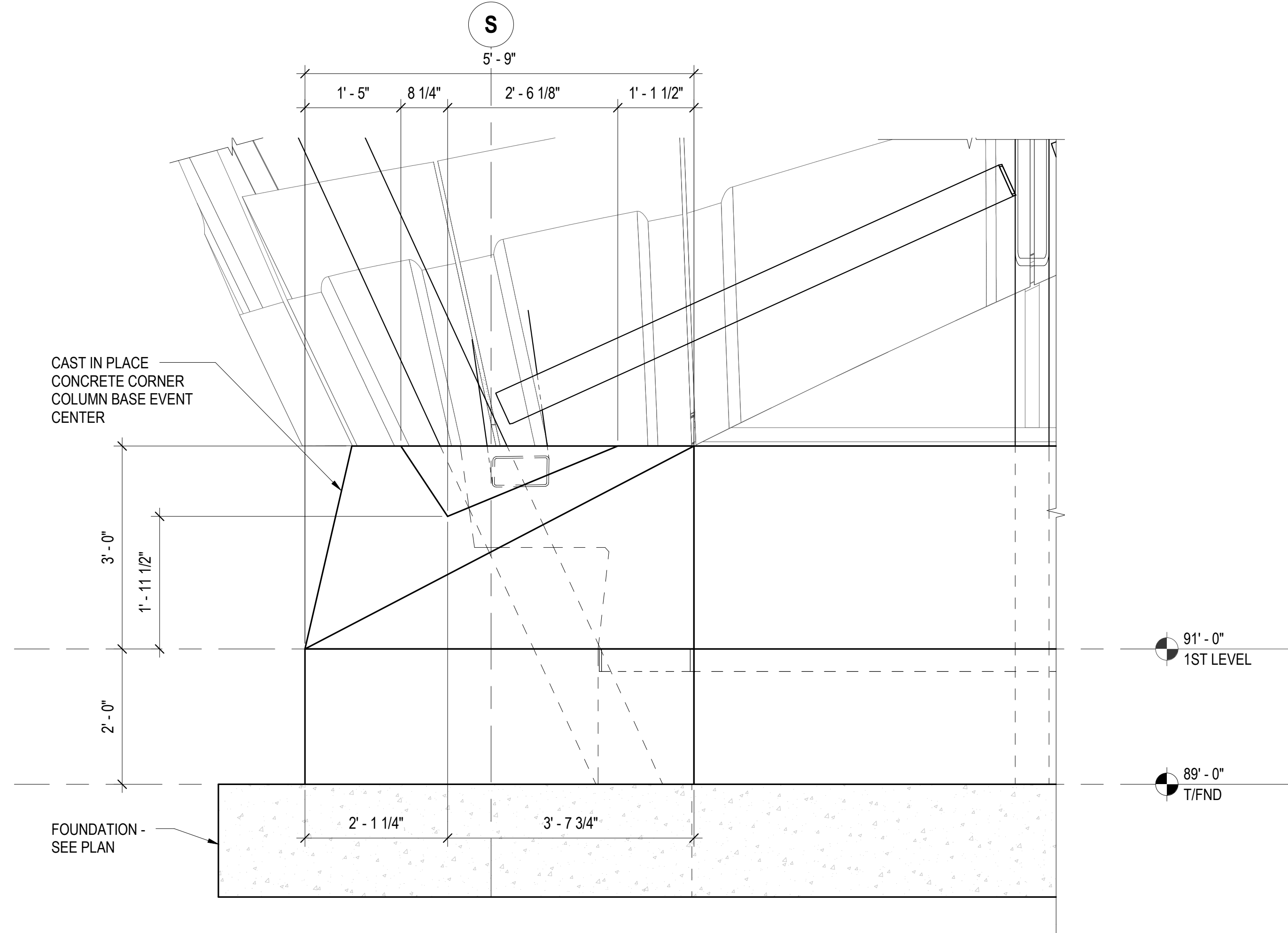
1 ENLARGED PLAN - CORNER COLUMN BASE EVENT CENTER
3/4" = 1'-0"



2 SECTION - CORNER COLUMN BASE EVENT CENTER
3/4" = 1'-0"



3 ELEVATION - CORNER COLUMN BASE EVENT CENTER
3/4" = 1'-0"



4 ELEVATION - CORNER COLUMN BASE EVENT CENTER
3/4" = 1'-0"



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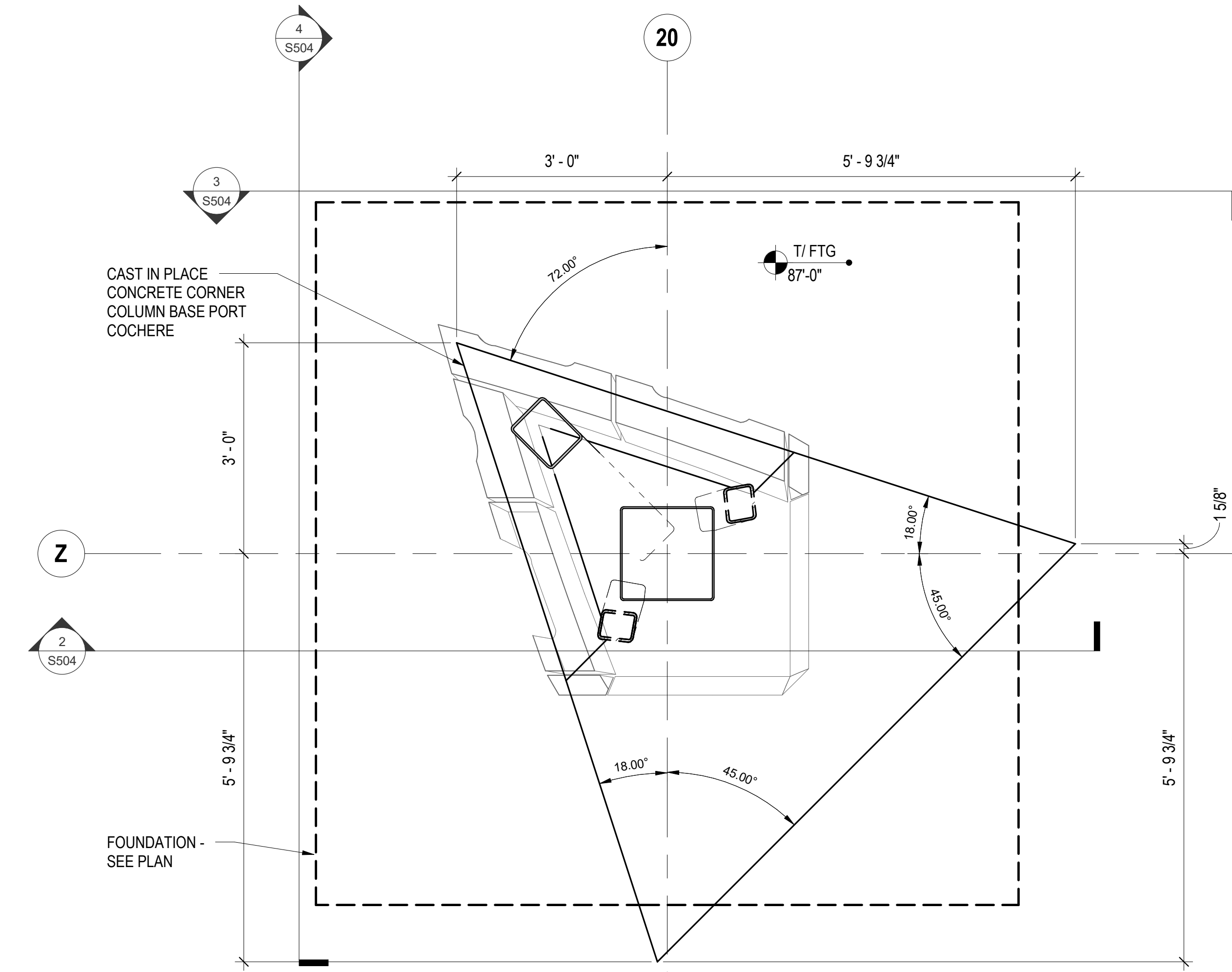
DATE	SUBMISSION	NO
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ENLARGED PLAN - CORNER COLUMN
BASE EVENT CENTER

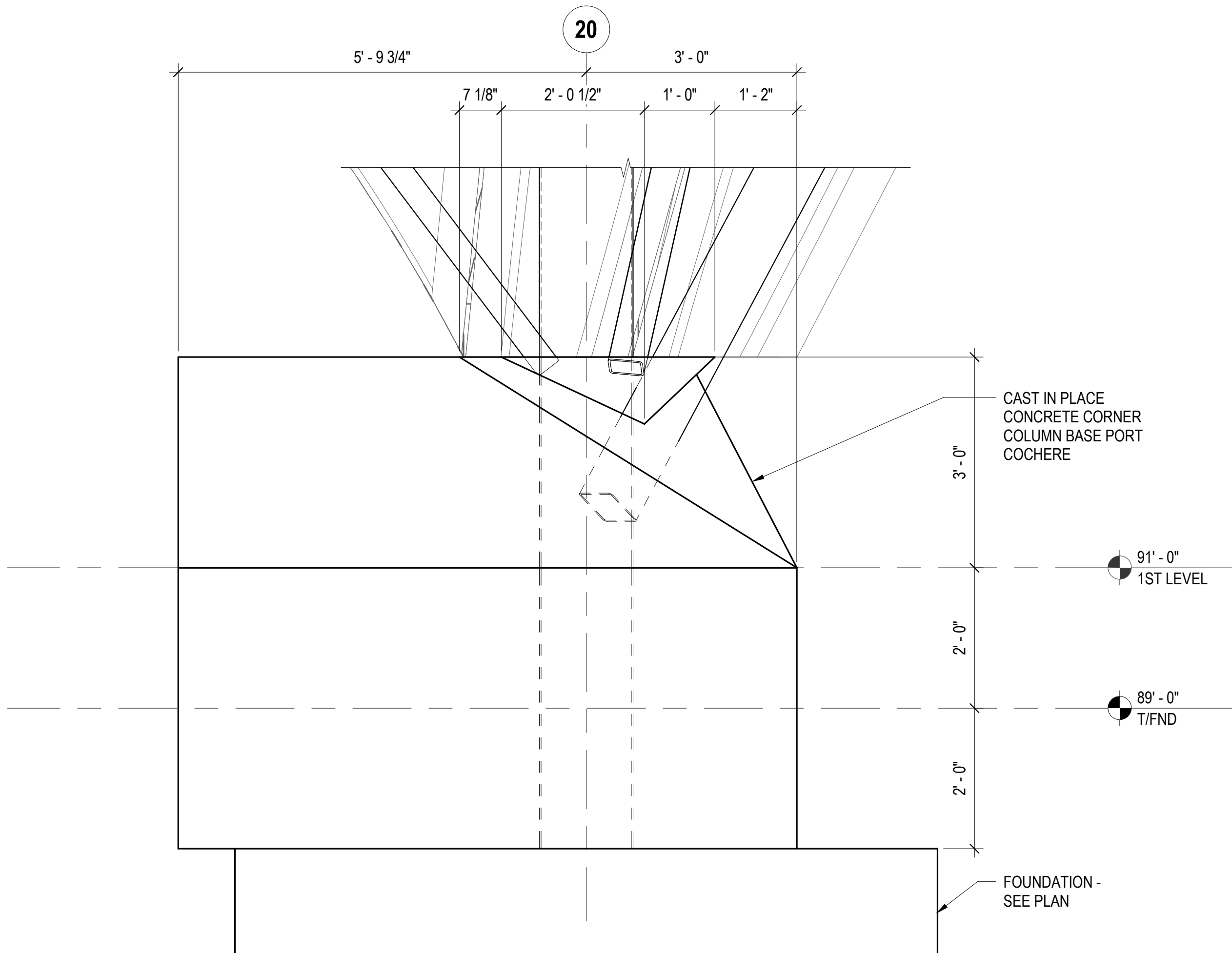
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S503

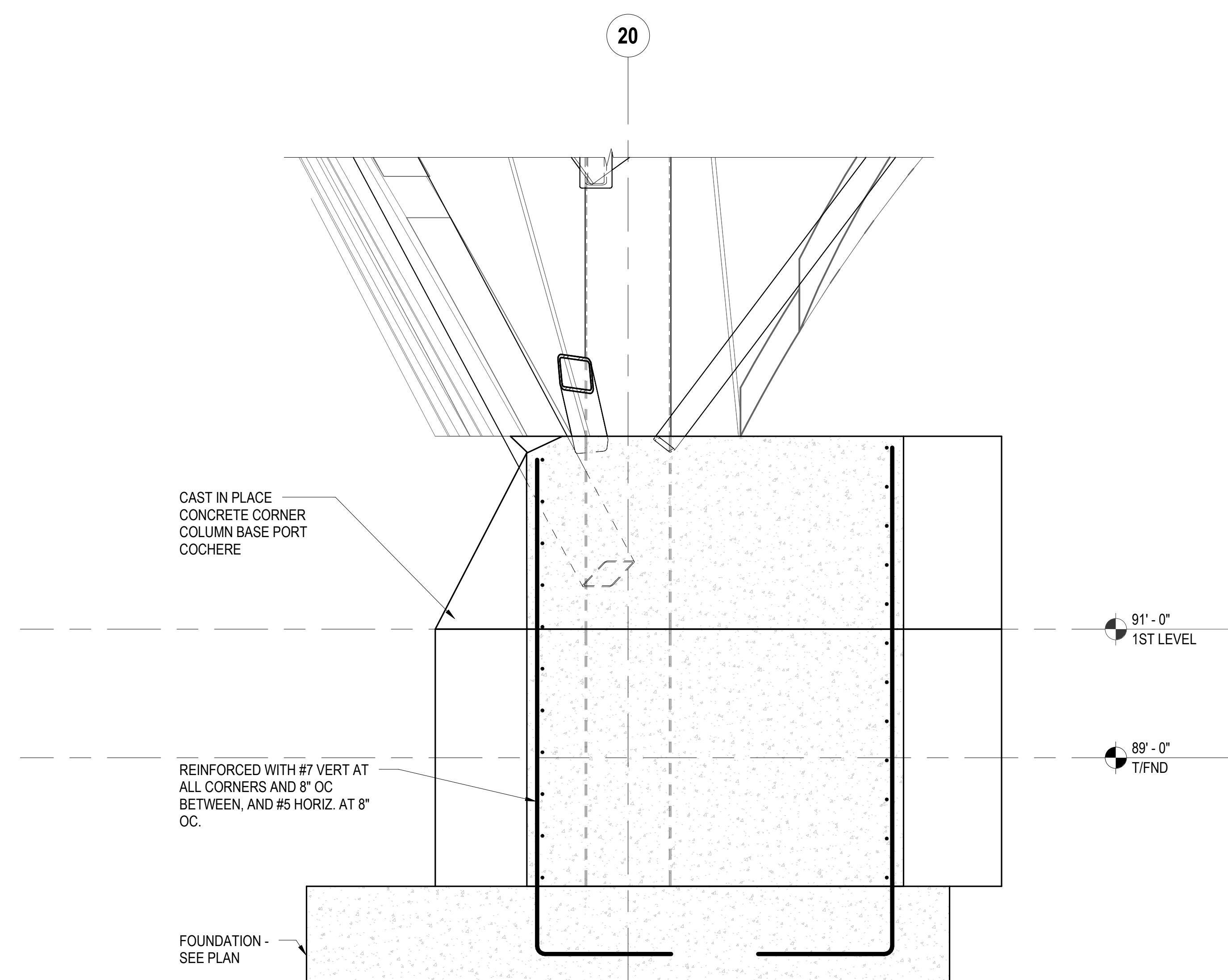
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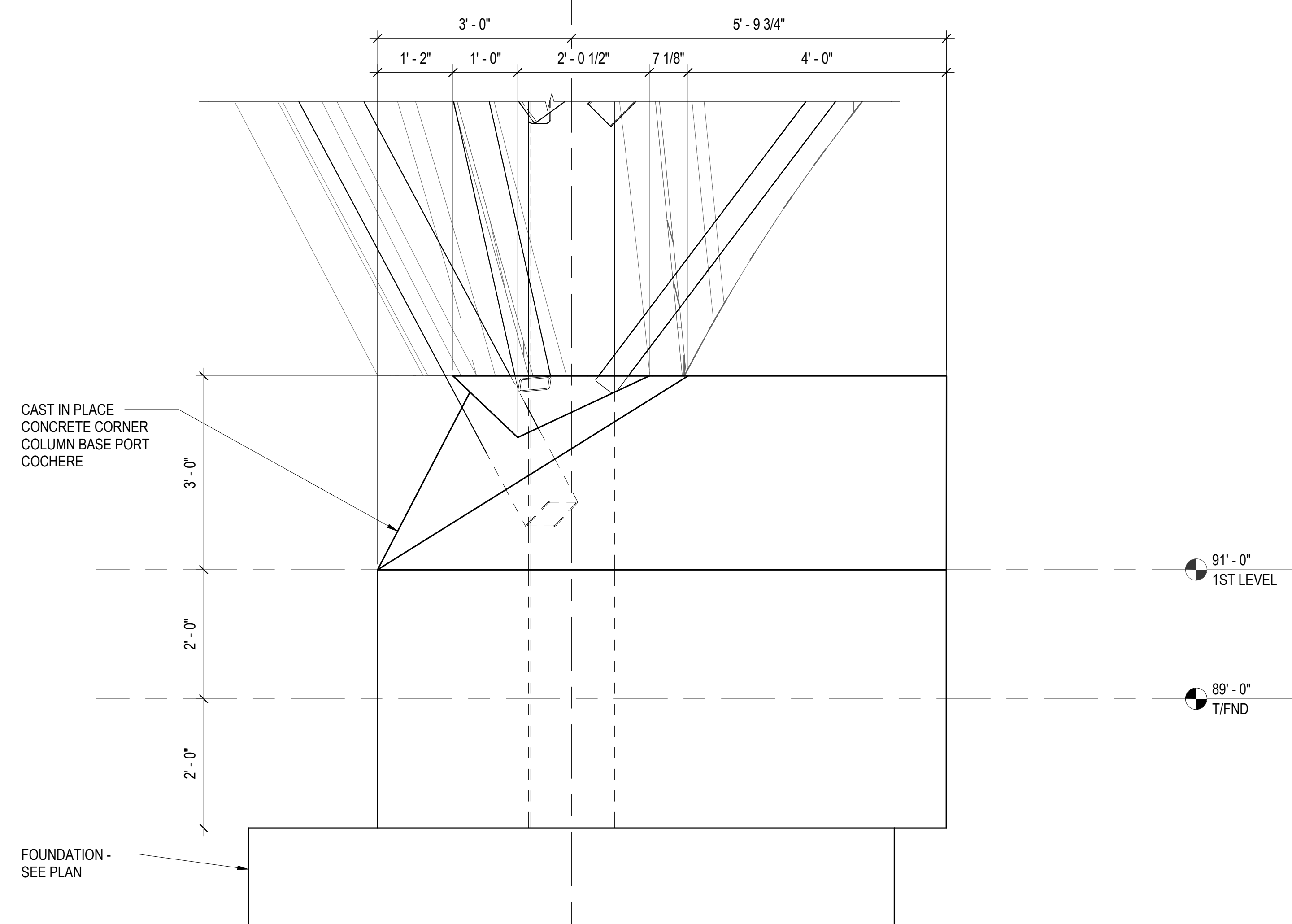
1 ENLARGED PLAN - CORNER COLUMN BASE PORTE COCHERE
3/4" = 1'-0"



3 ELEVATION - CORNER COLUMN BASE PORTE COCHERE
3/4" = 1'-0"



2 SECTION - CORNER COLUMN BASE PORTE COCHERE
3/4" = 1'-0"



4 ELEVATION - CORNER COLUMN BASE PORTE COCHERE
3/4" = 1'-0"



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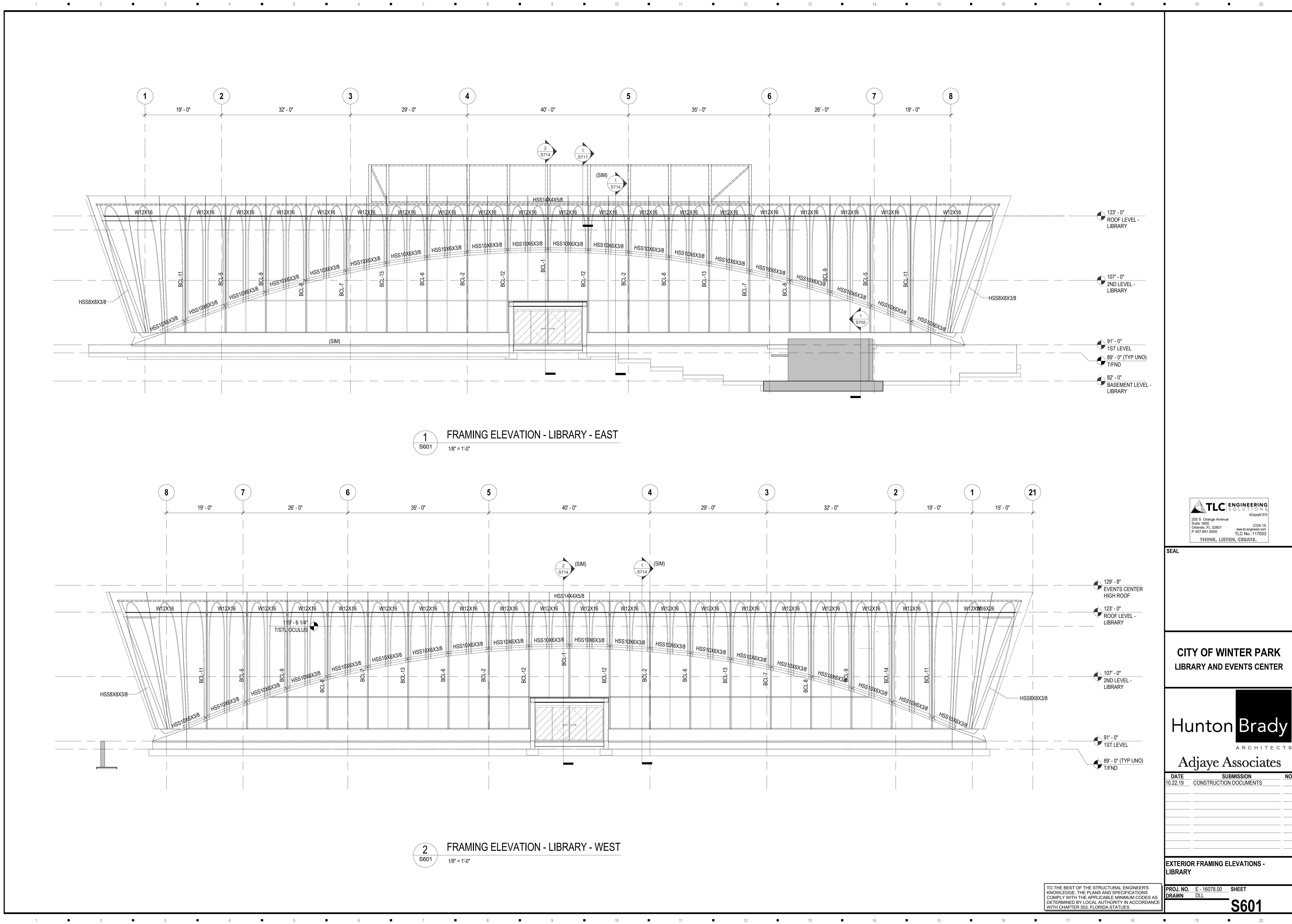
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ENLARGED PLAN - CORNER COLUMN
BASE PORTE COCHERE

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DRAWN Author
S504

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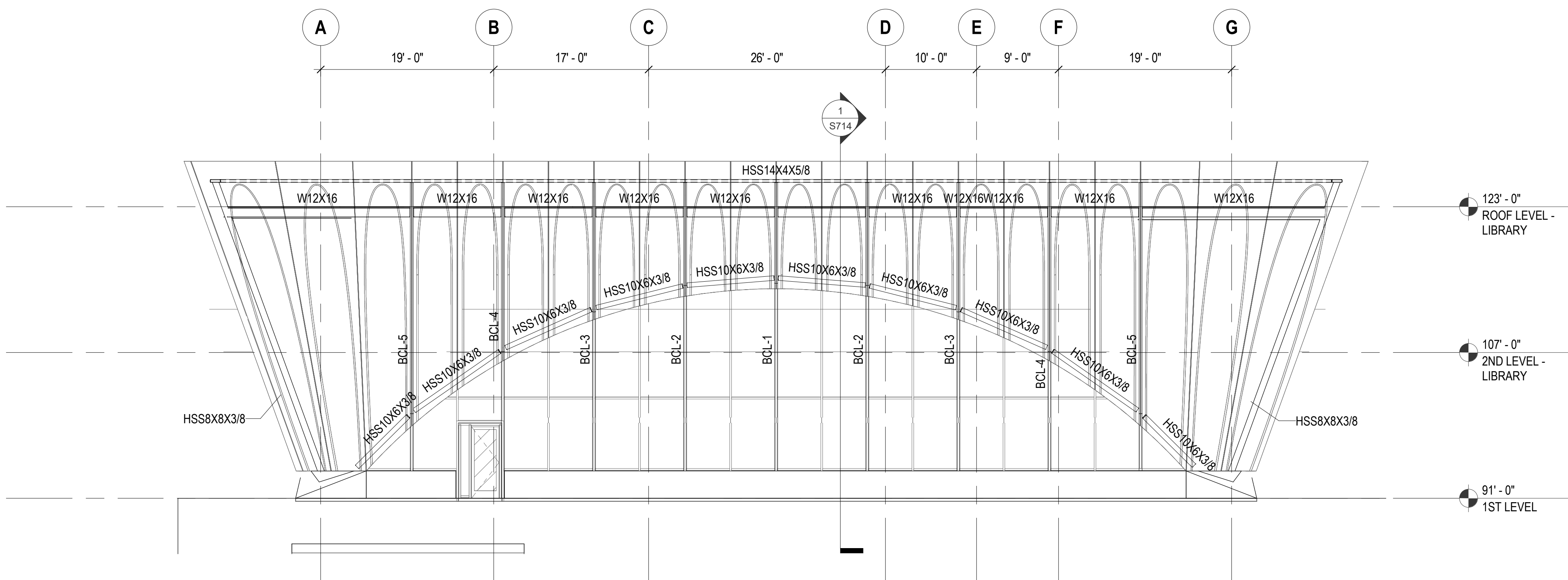
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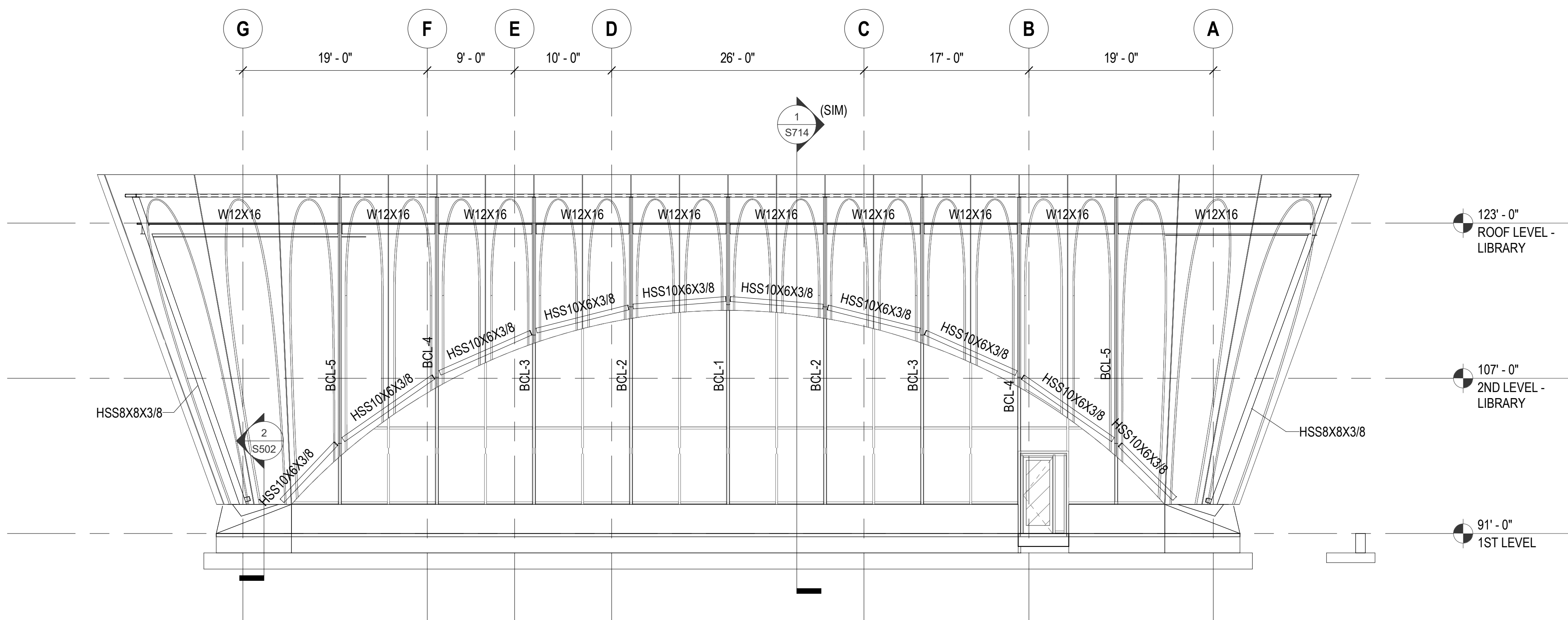
EXTERIOR FRAMING ELEVATIONS - LIBRARY

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S601

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1 FRAMING ELEVATION - LIBRARY - NORTH
S602 1/8" = 1'-0"



2 FRAMING ELEVATION - LIBRARY - SOUTH
S602 1/8" = 1'-0"

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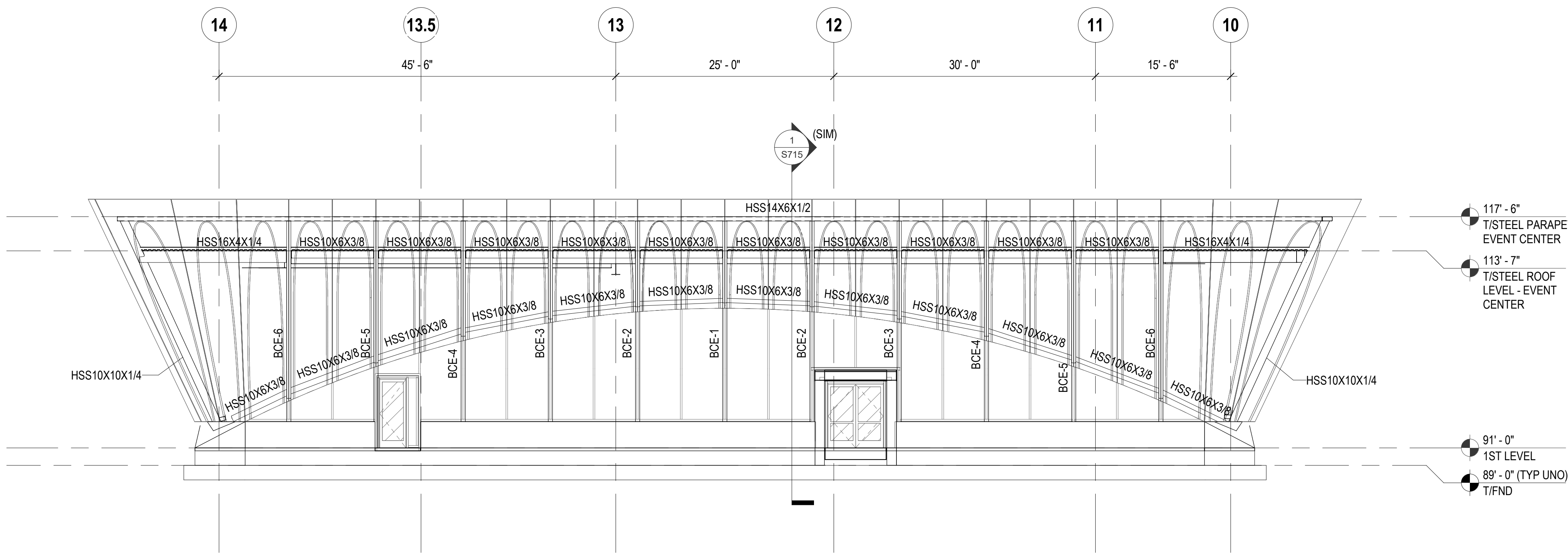
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EXTERIOR FRAMING ELEVATIONS - LIBRARY

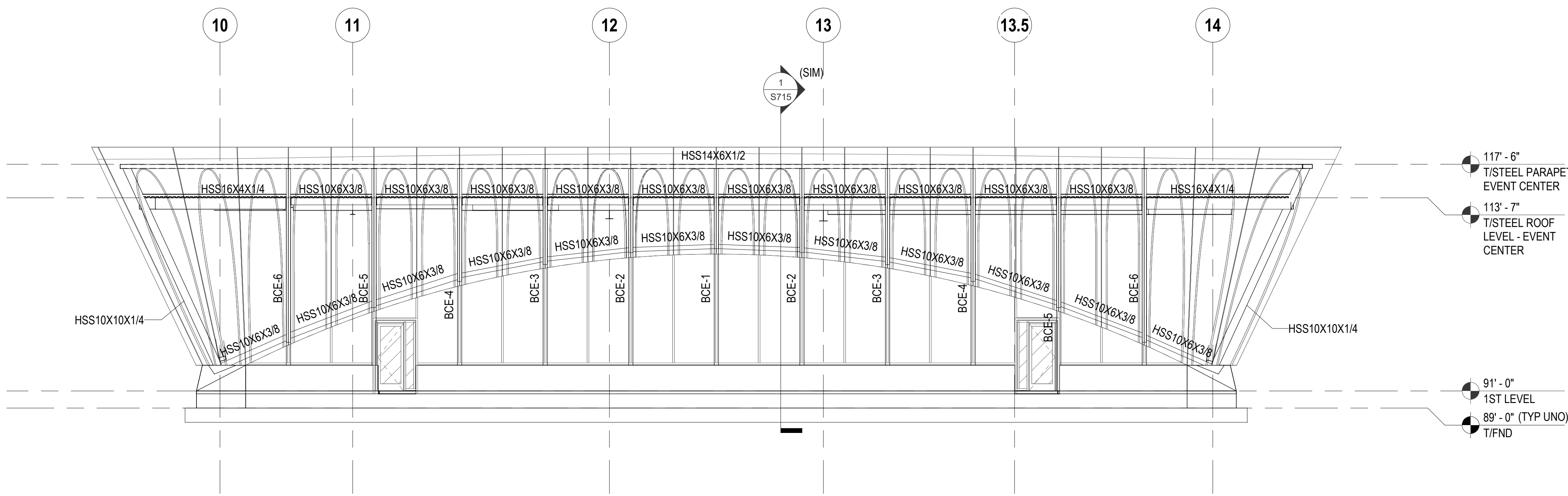
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S602

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1 FRAMING ELEVATION - EVENTS CENTER - EAST
S603
1/8" = 1'-0"



2 FRAMING ELEVATION - EVENTS CENTER - WEST
S603
1/8" = 1'-0"

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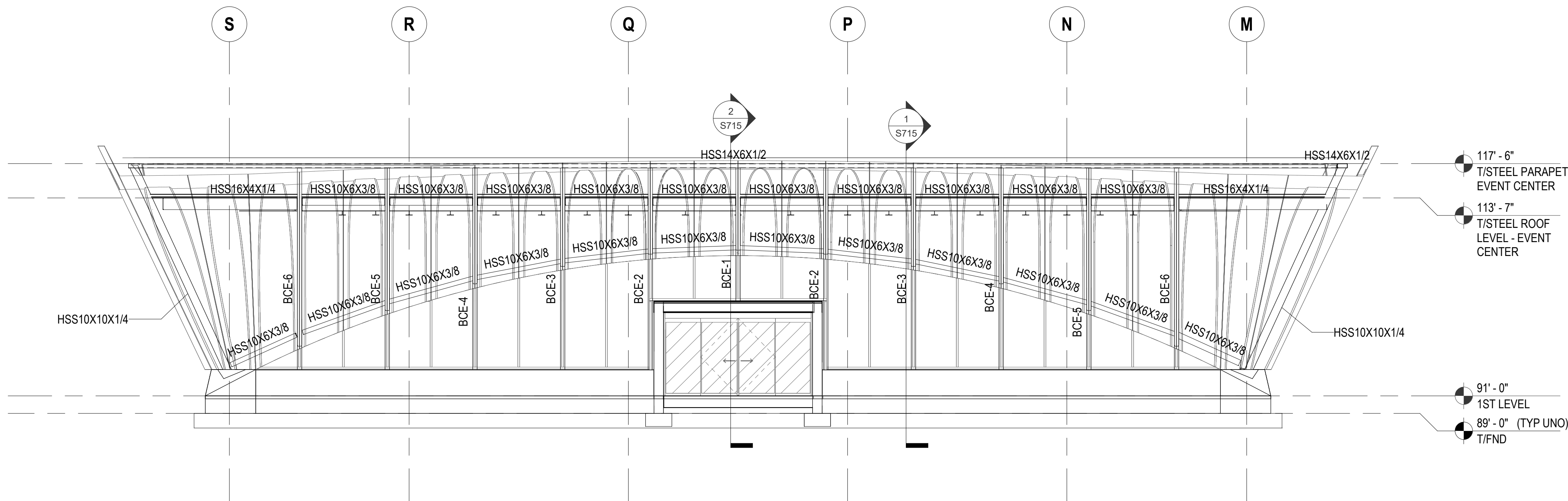
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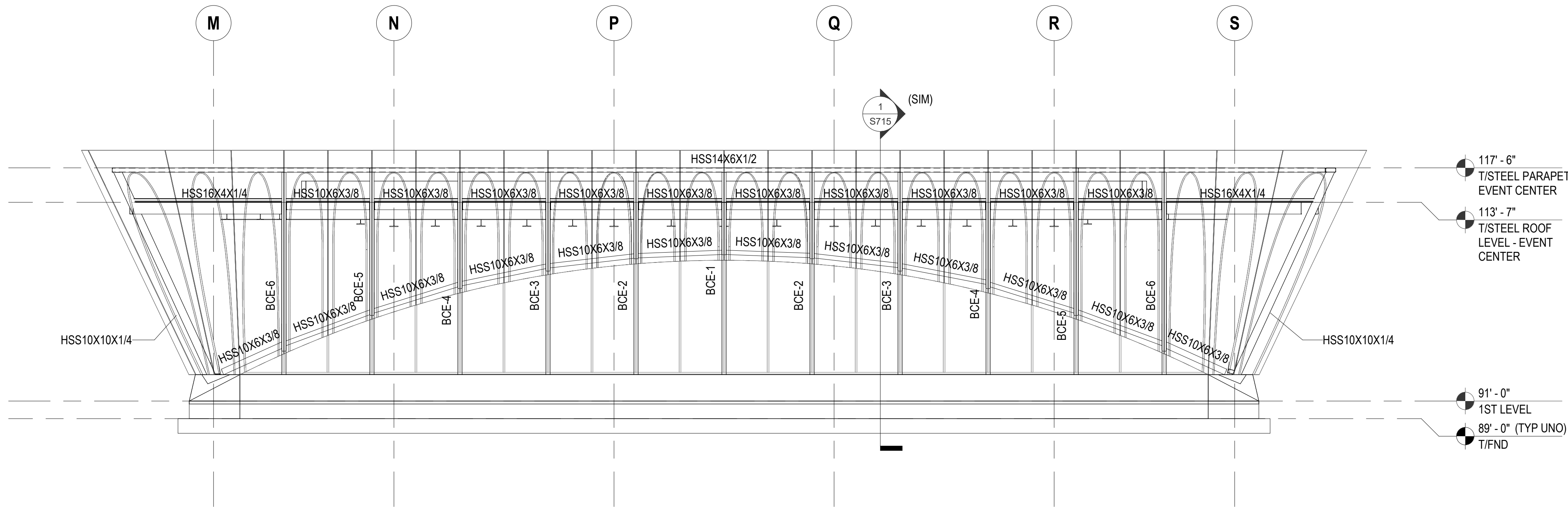
EXTERIOR FRAMING ELEVATIONS - EVENT CENTER

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S603

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1
S604
FRAMING ELEVATION - EVENTS CENTER - NORTH
1/8" = 1'-0"



3
S604
FRAMING ELEVATION - EVENTS CENTER - SOUTH
1/8" = 1'-0"

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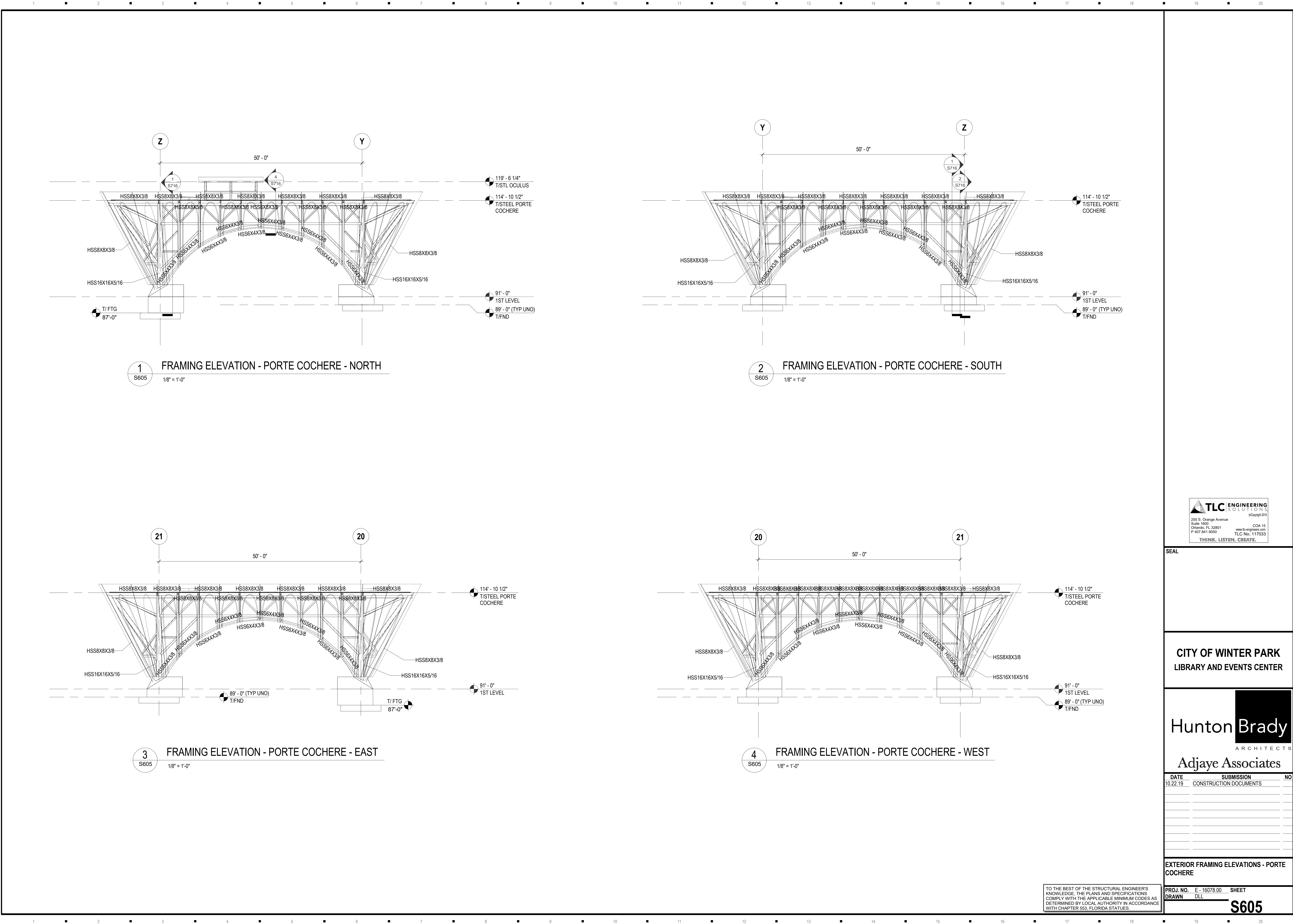
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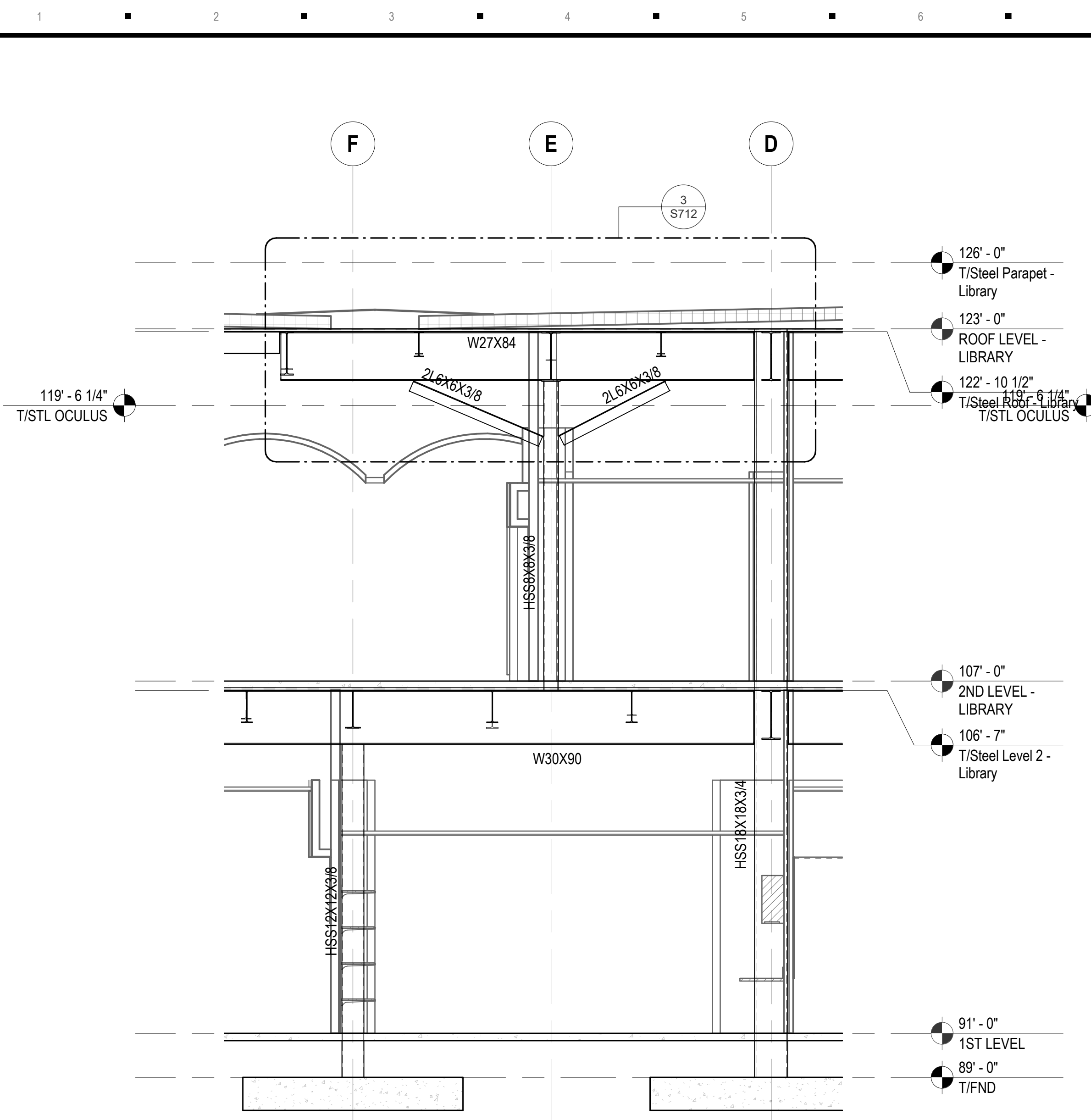
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EXTERIOR FRAMING ELEVATIONS - PORTE COCHERE

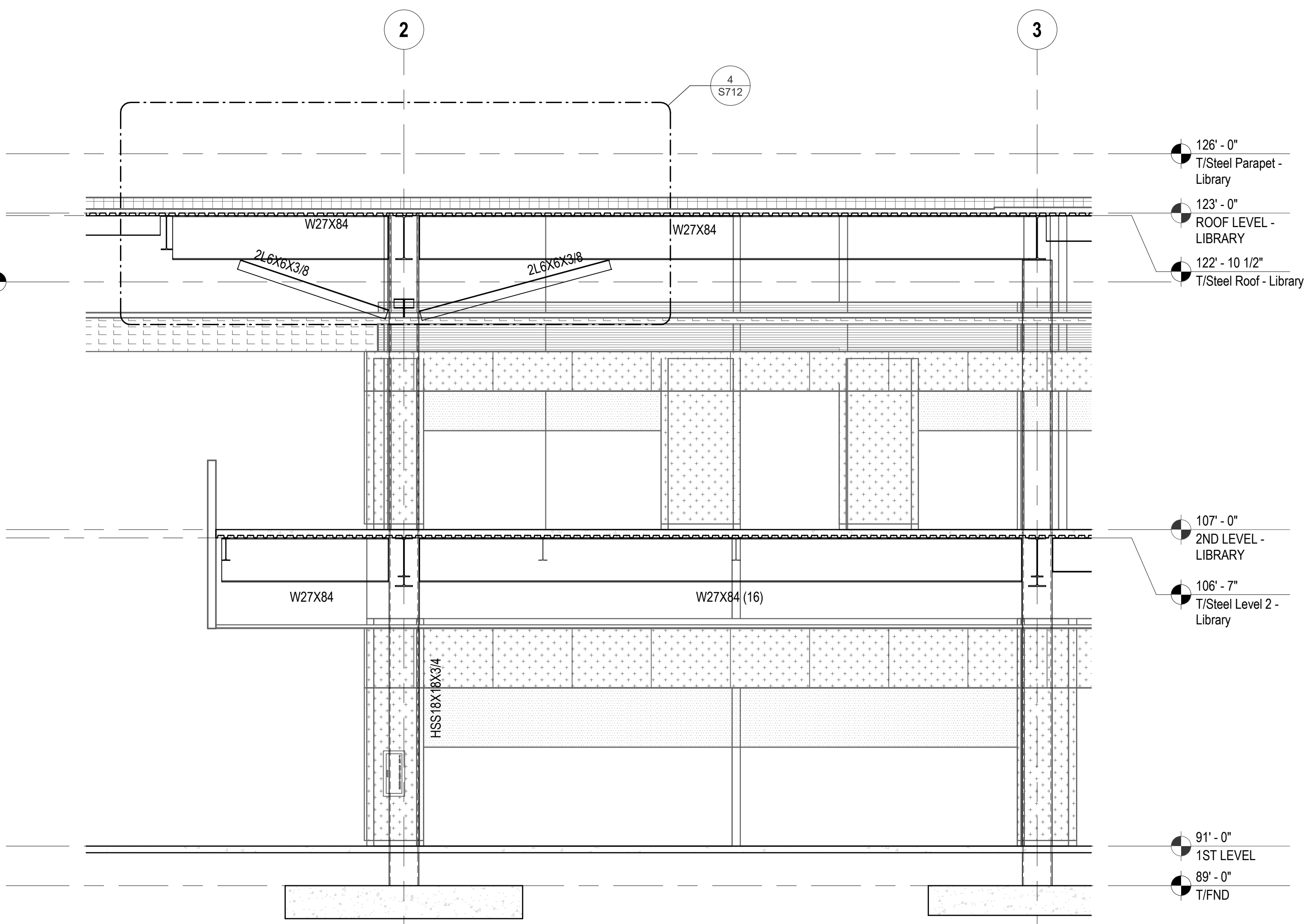
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S605

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1 INTERIOR FRAMING ELEVATION



2 INTERIOR FRAMING ELEVATION
S611 1/4" = 1'-0"



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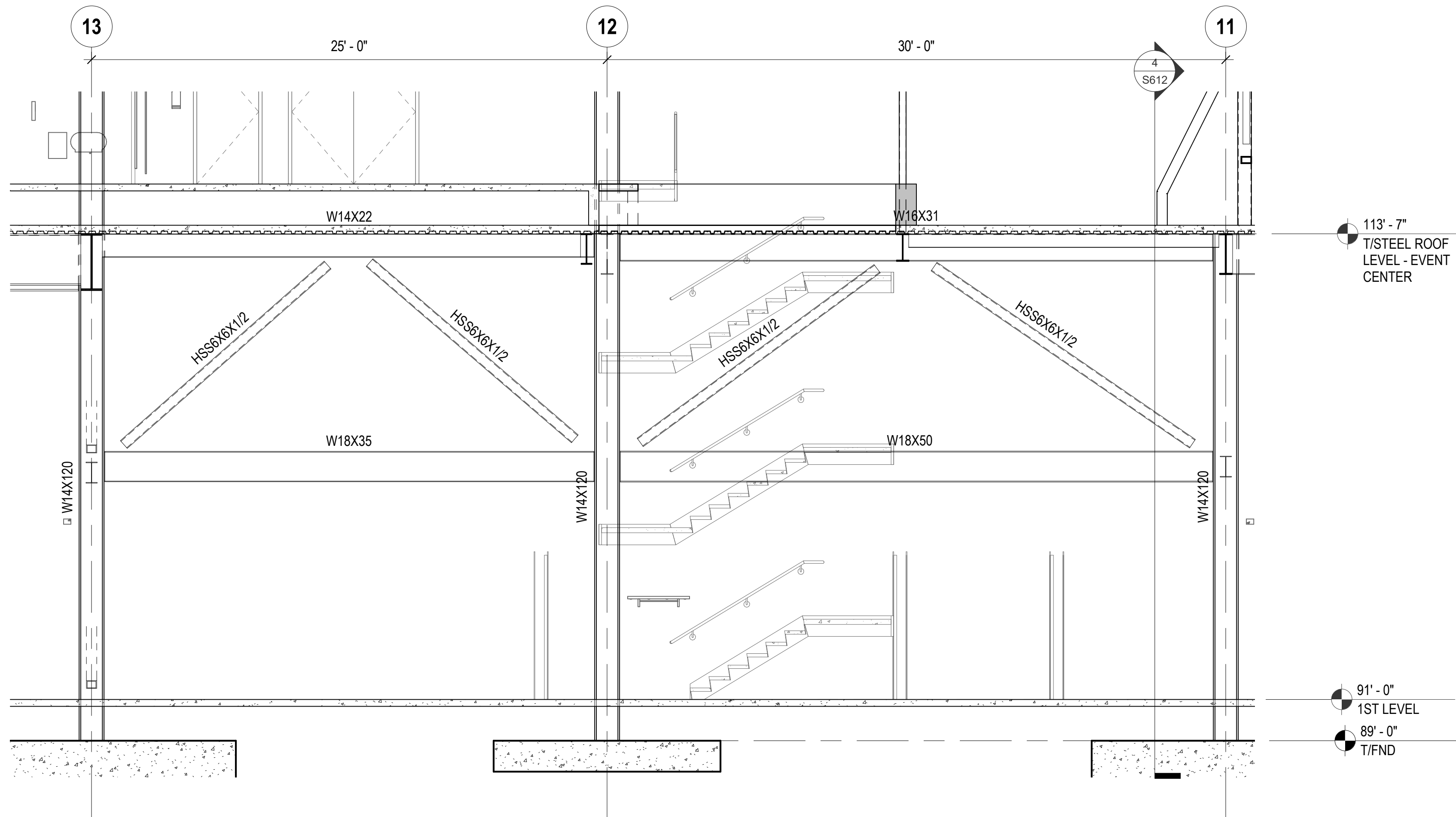
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INTERIOR FRAMING ELEVATIONS -
LIBRARY

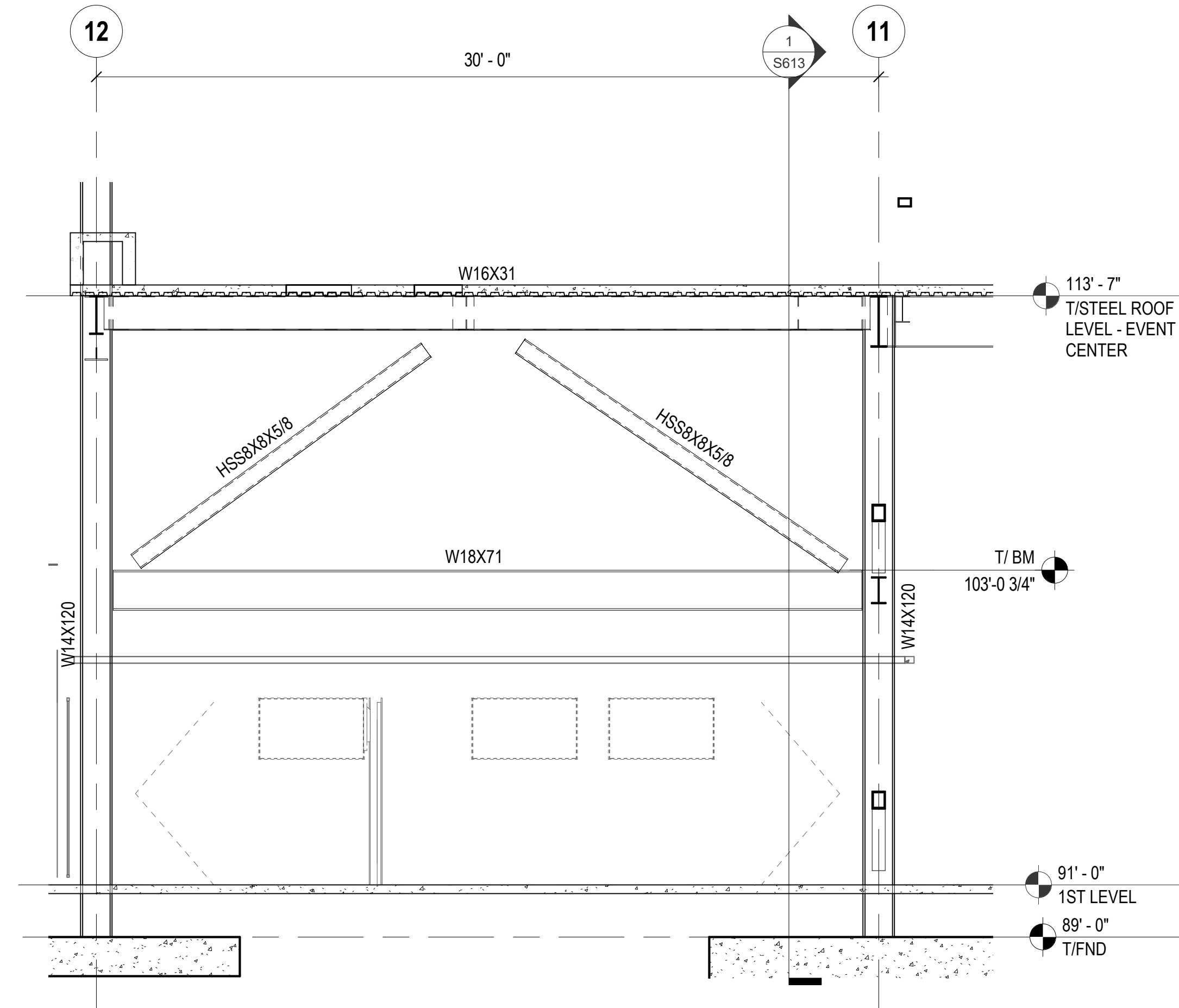
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S611

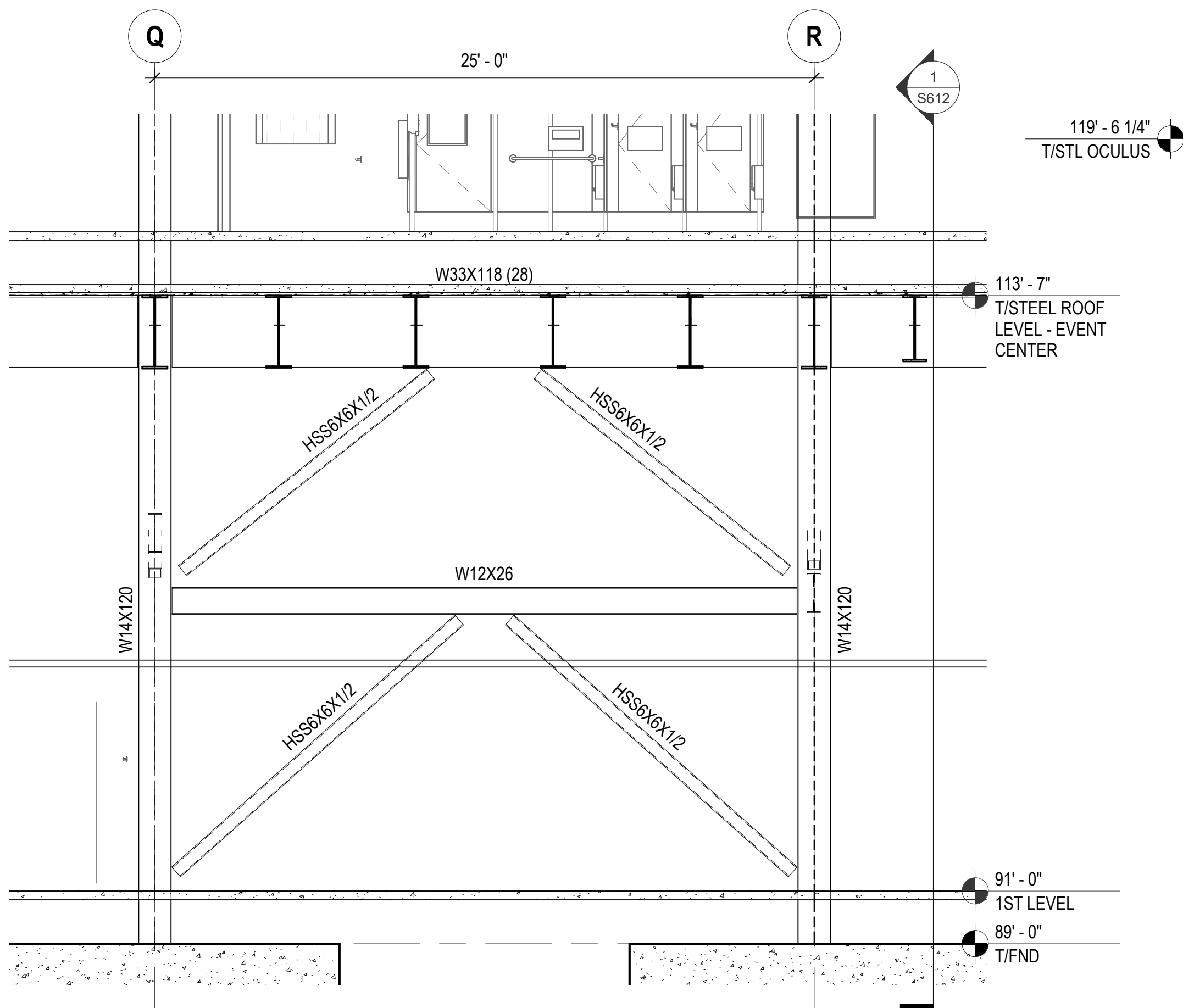
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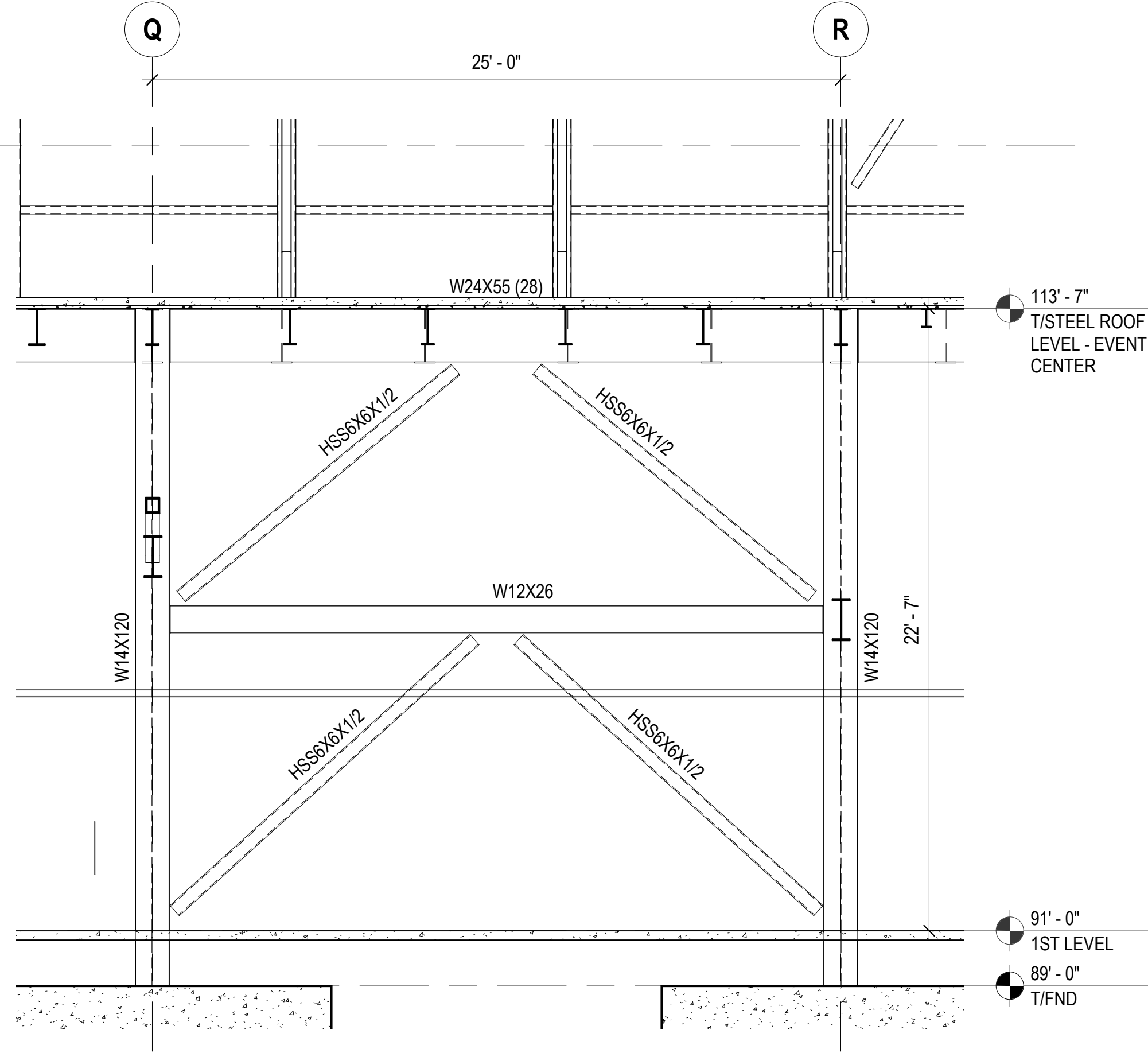
1 ELEVATION - GRID 11 & 12 ON GRID R
1/4" = 1'-0"



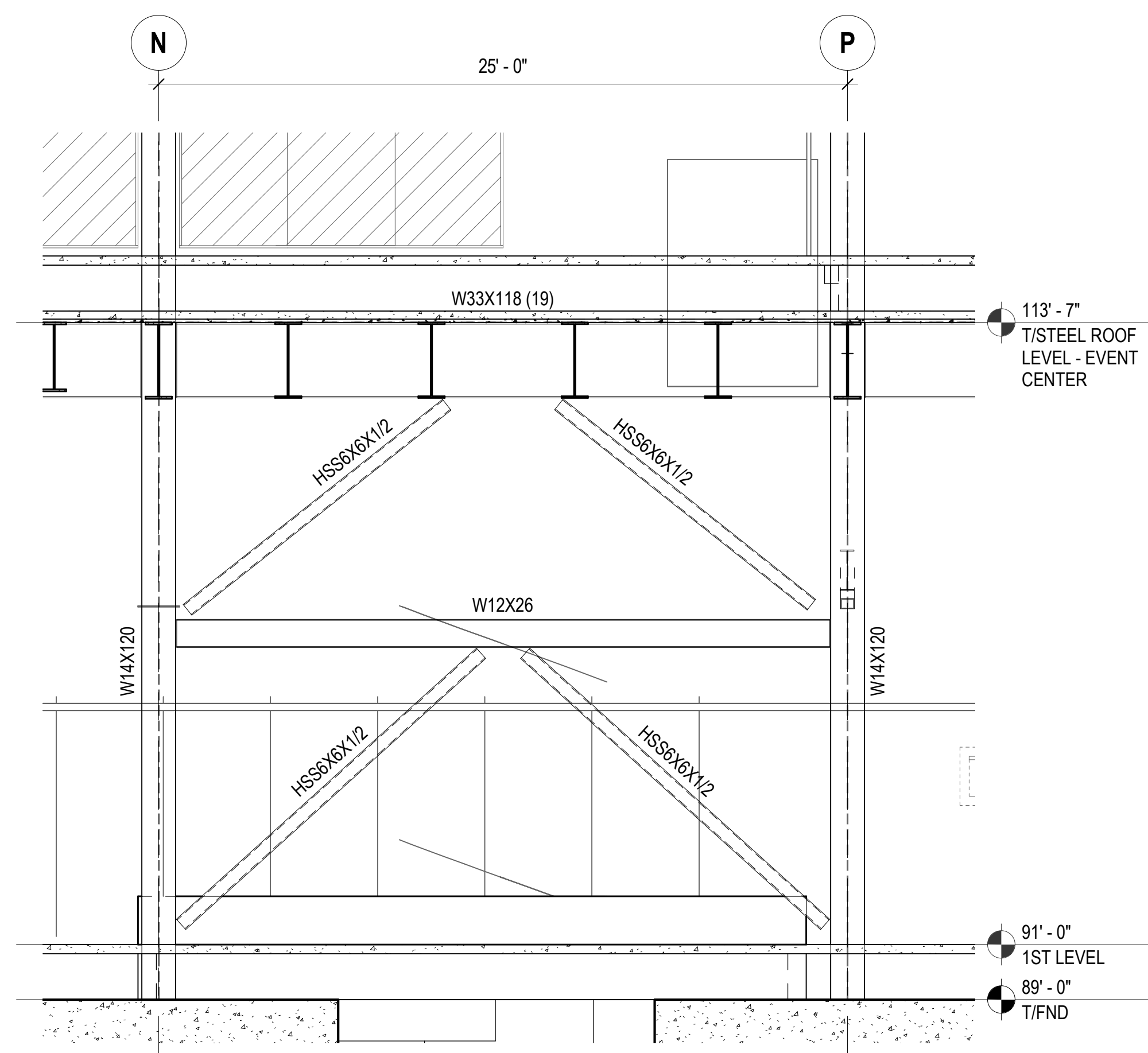
2 ELEVATION - GRID 11 & 12 ON GRID N
1/4" = 1'-0"



3 ELEVATION - GRID Q & R ON GRID 13
1/4" = 1'-0"



4 ELEVATION - GRID Q & R ON GRID 11
1/4" = 1'-0"



5 ELEVATION - GRID N & P ON GRID 13
1/4" = 1'-0"



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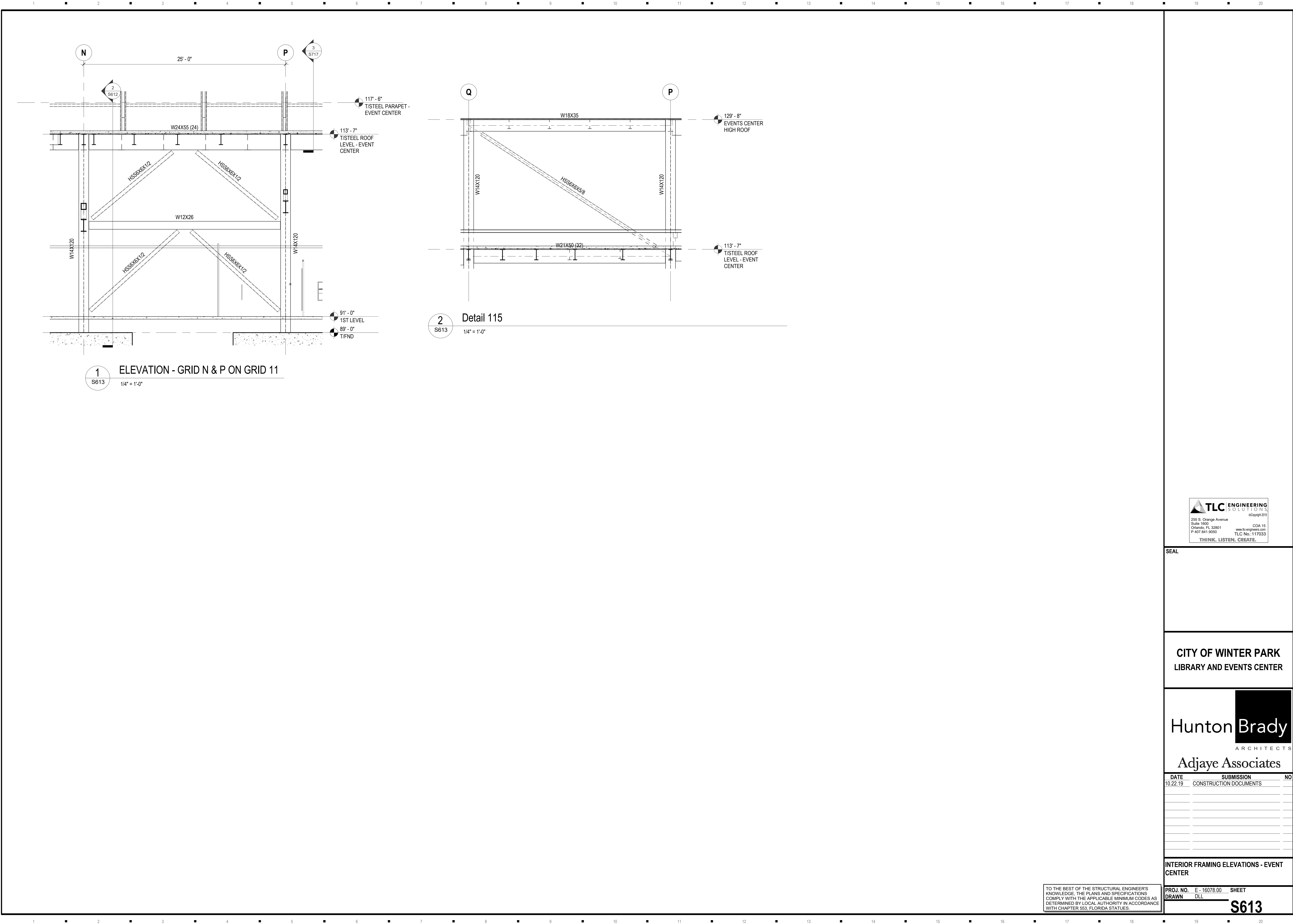
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INTERIOR FRAMING ELEVATIONS - EVENT
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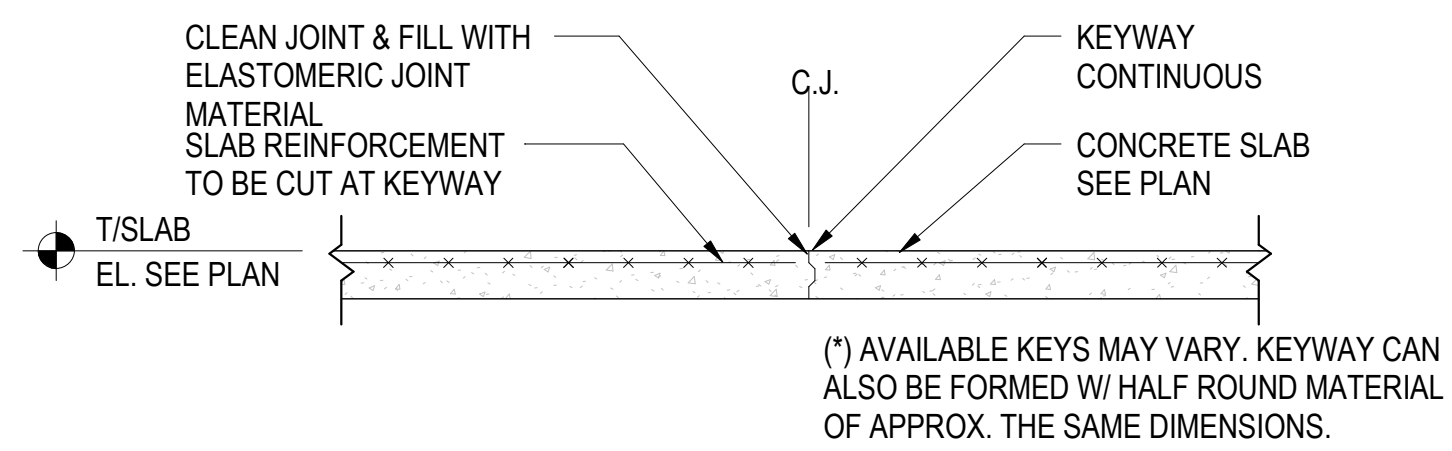
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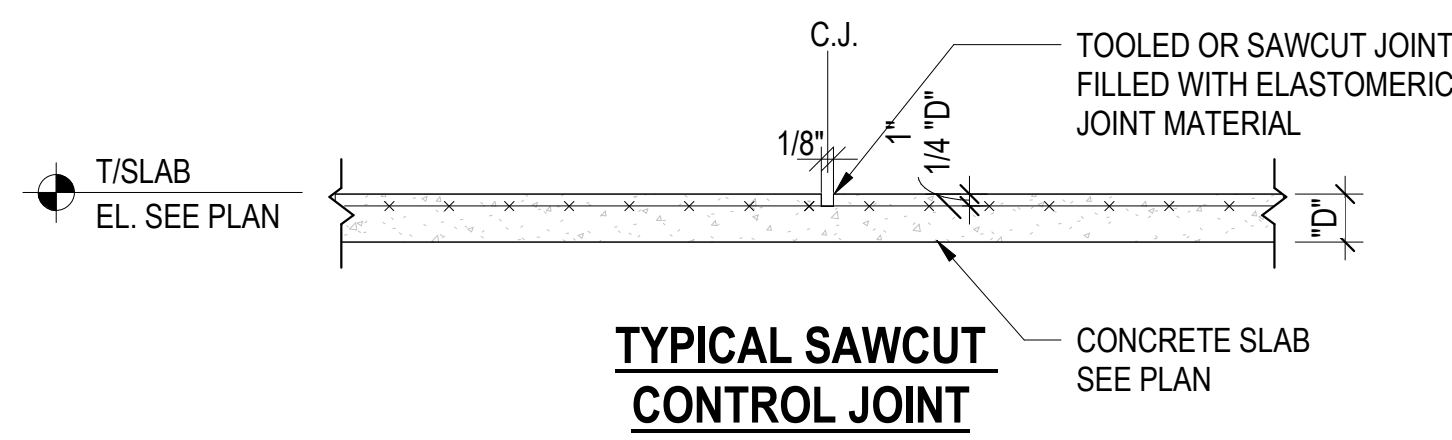
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TYPICAL CONSTRUCTION JOINT

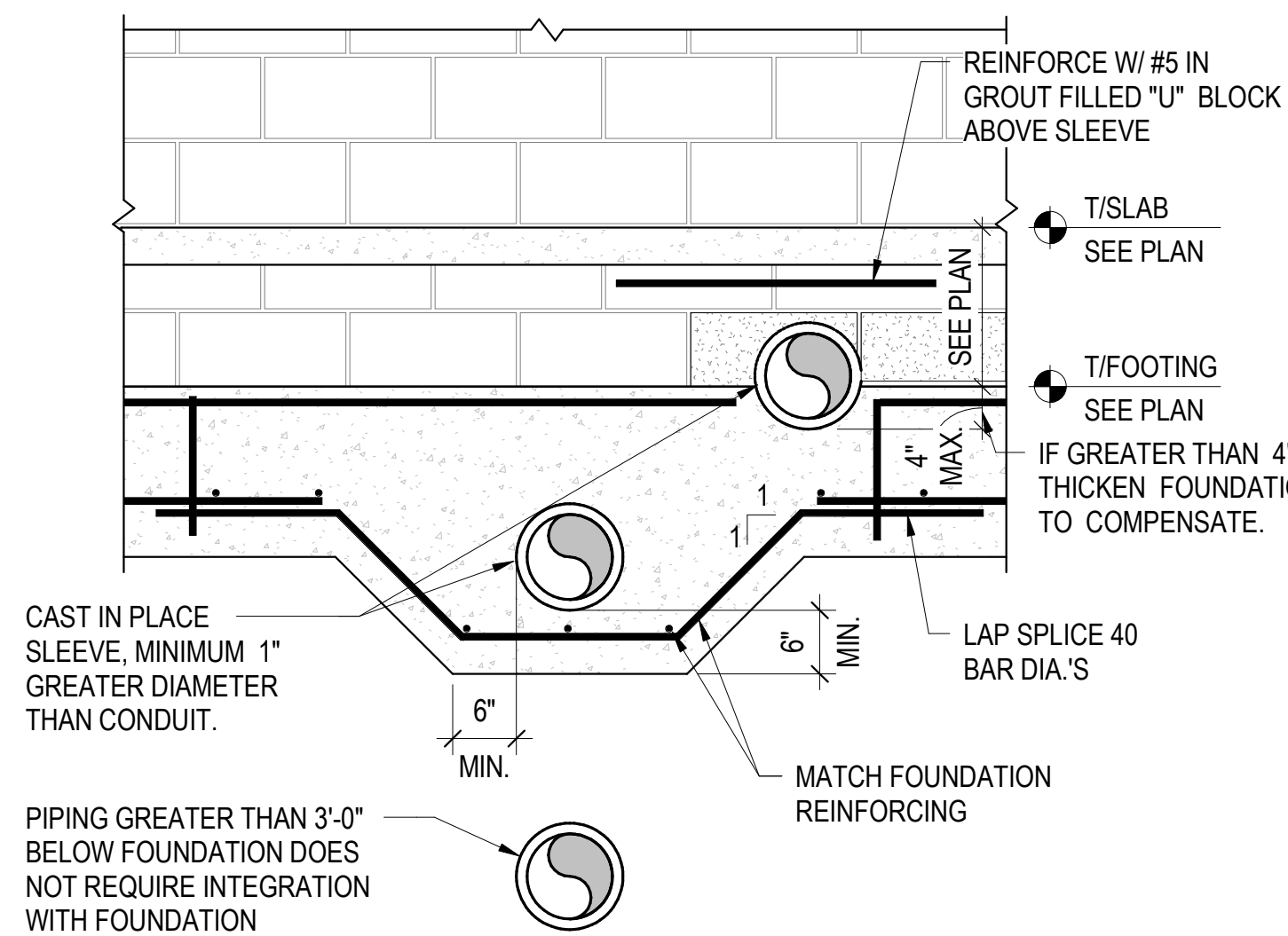


TYPICAL SAWCUT CONTROL JOINT

NOTE:
1. C.J. INDICATES CONTROL OR CONSTRUCTION JOINT.
2. CONTROL JOINTS SHALL BE SAWCUT AS SOON AS POSSIBLE WITHOUT RAVELING CONCRETE (4 TO 16 HOURS AFTER PLACEMENT MAX.)
3. JOINT PLACEMENT REQUIREMENTS:
FOR ENCLOSED/INTERIOR AREAS, 15'-0" O.C. (MAX.) EACH WAY (UNO)
FOR OUTSIDE/EXTERIOR AREAS, 12'-0" O.C. (MAX.) EACH WAY
WHERE TOP OF SLAB SURFACES ARE TO BE FINISHED WITH TILE, GENERAL CONTRACTOR IS TO COORDINATE JOINT LOCATIONS WITH THAT OF MORTAR JOINTS.

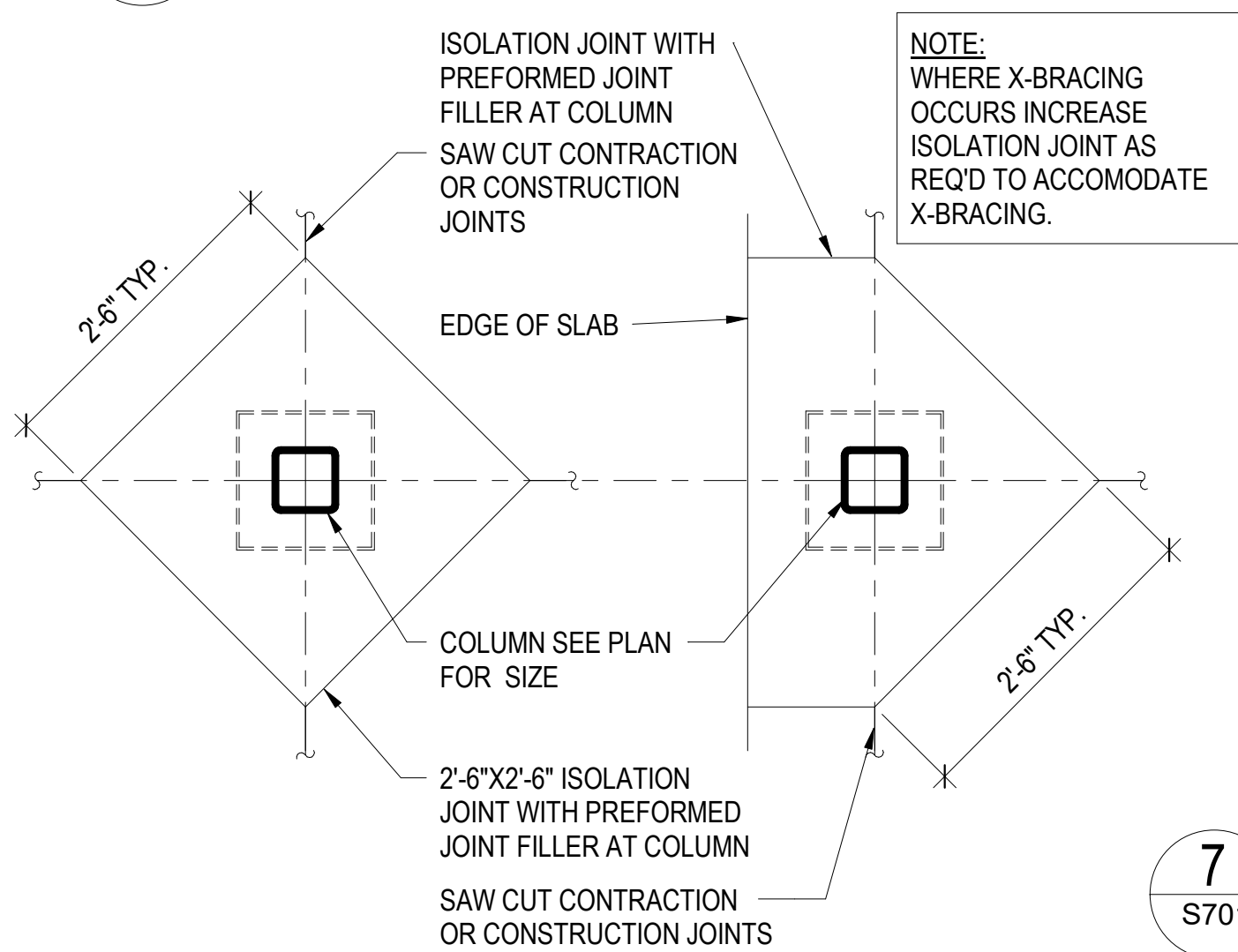
1 TYPICAL SLAB CONSTRUCTION/CONTROL JOINTS

S701 3/4" = 1'-0"



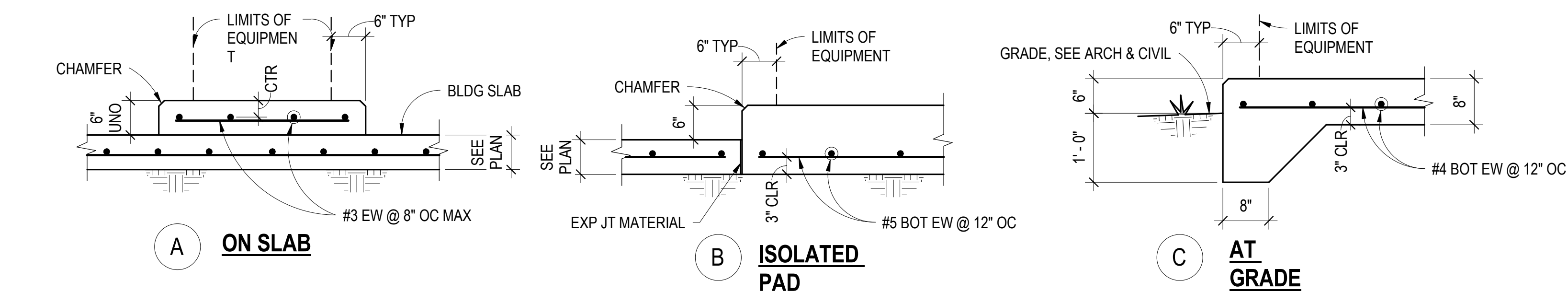
5 TYPICAL FOUNDATION CONDUIT SLEEVE

S701 3/4" = 1'-0"



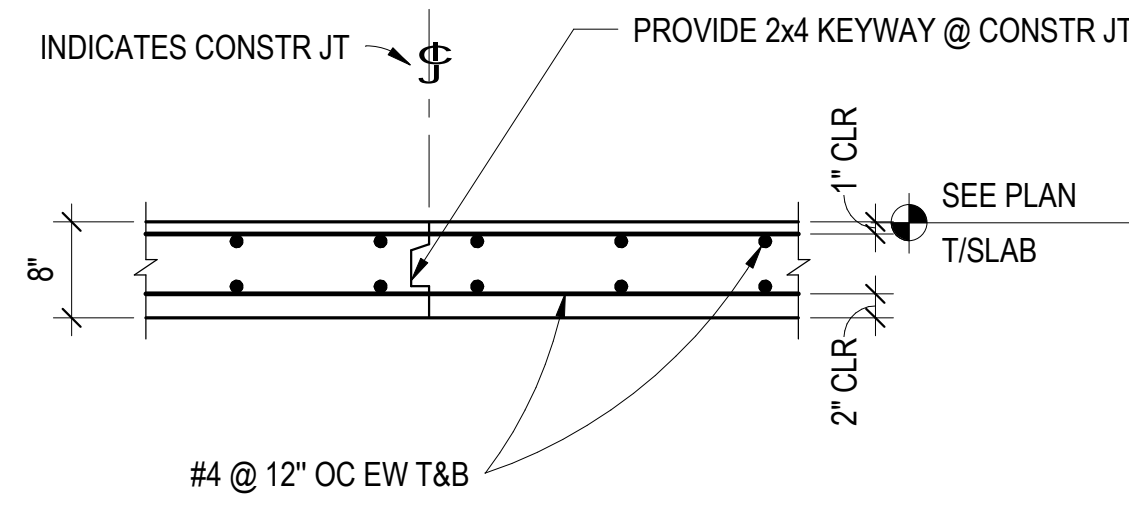
6 TYP. S.O.G. JOINT DETAILS @ COLUMNS

S701 3/4" = 1'-0"



10 TYP EQUIPMENT SUPPORT PADS

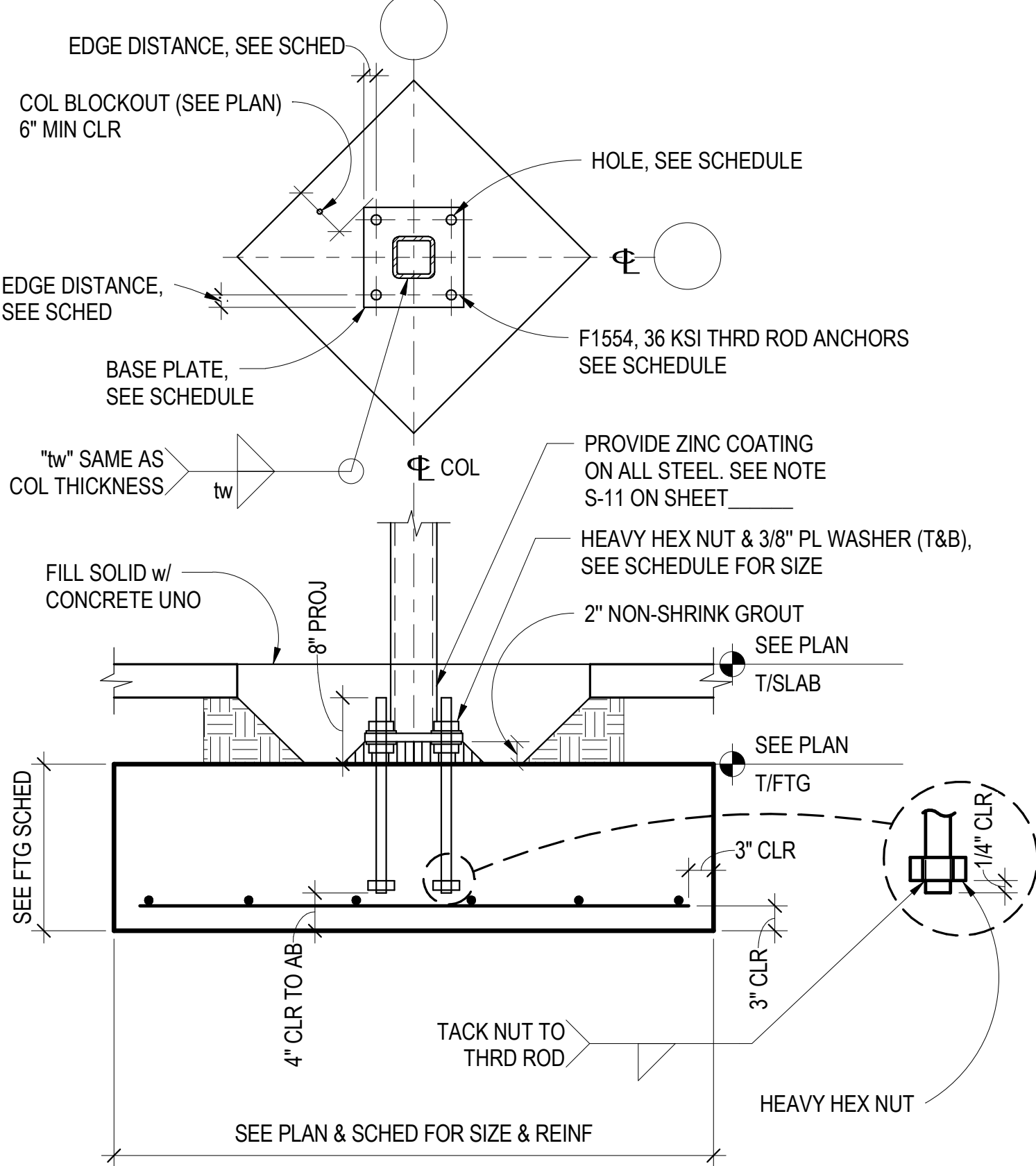
S701 3/4" = 1'-0"



2 TYP CONST JT DETAIL

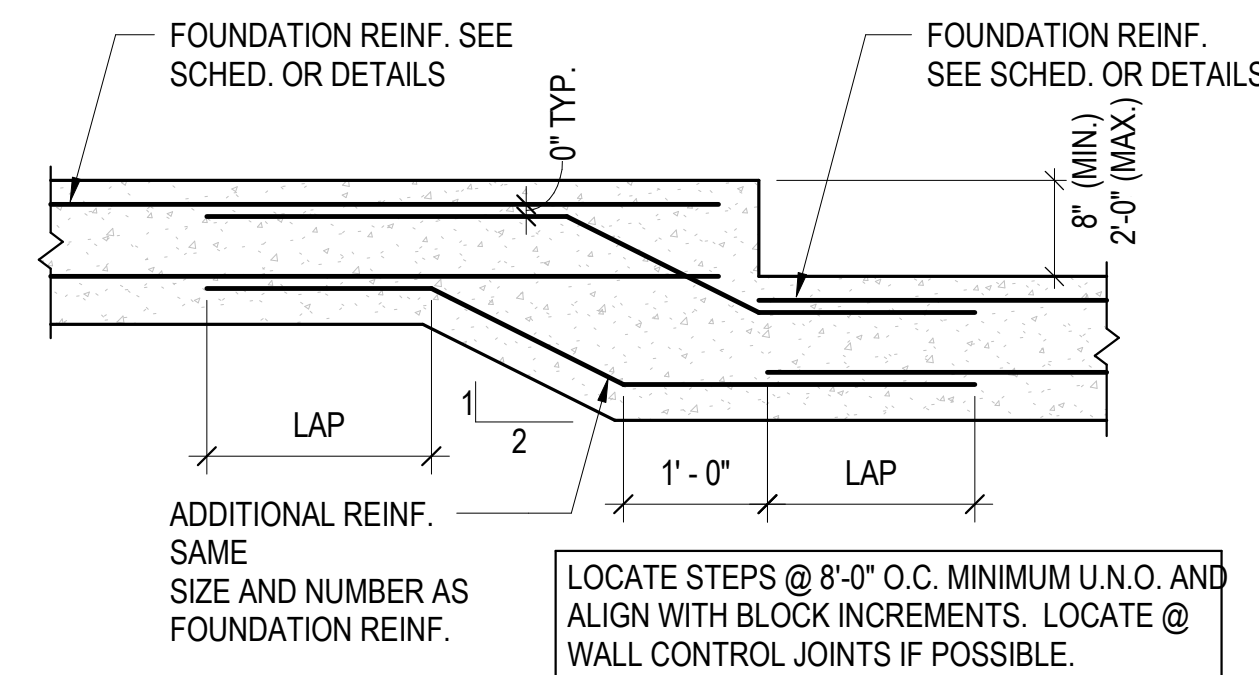
S701 3/4" = 1'-0"

BASE PLATE SCHEDULE						
COLUMN	BASE PLATE	ANCHORS	HOLE DIAMETER	MIN WASHER DIAMETER	ANCHOR ROD EDGE DISTANCE	
HSS 14x6, HSS-14x4	PL 1"x10"x26"	(4) 1"Ø	1 5/16"	2 5/8"	2"	
HSS-8x8	PL 1 1/4"x16"x16"	(4) 1"Ø	1 13/16"	2 5/8"	2"	
HSS-10x10	PL 1 1/2"x18"x18"	(4) 1 1/4"Ø	2 1/16"	2 7/8"	2 1/4"	
HSS-12x12	PL 1 1/2"x22"x22"	(4) 1 1/4"Ø	2 1/16"	2 7/8"	2 1/4"	
HSS-14x14	PL 1 1/2"x24"x24"	(4) 1 1/4"Ø	2 1/16"	2 7/8"	2 1/4"	
HSS-18x18	PL 1 1/2"x20"x27"	(4) 1 1/4"Ø	2 1/16"	2 7/8"	2 1/4"	



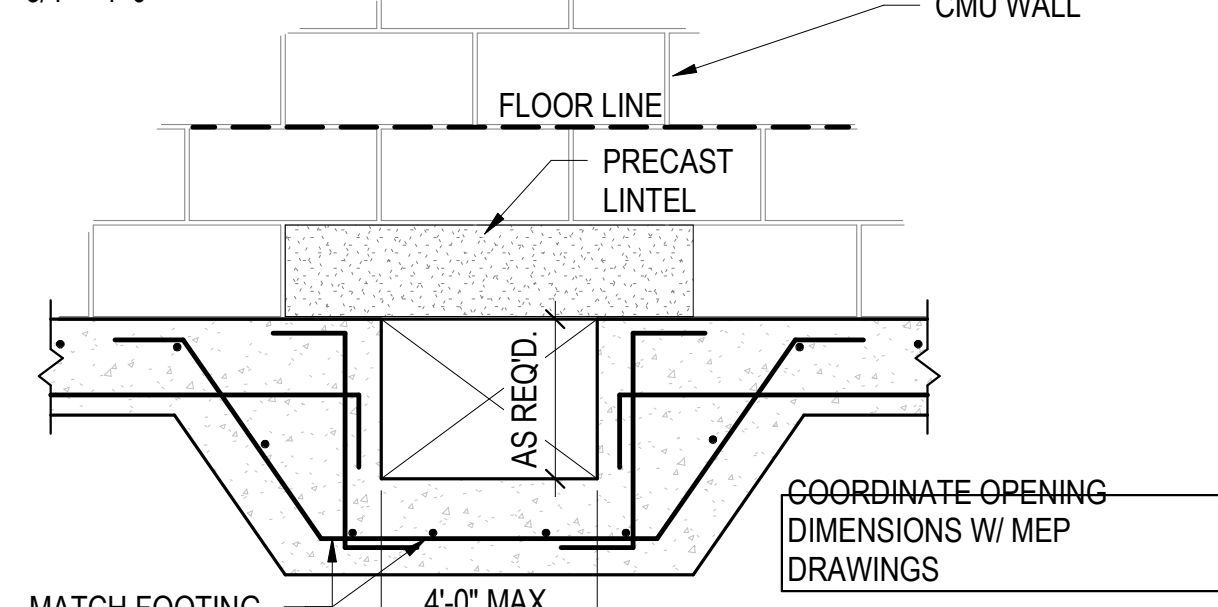
7 HSS COLUMN/FTG DETAIL

S701 3/4" = 1'-0"



TYPICAL STEPPED FOUNDATION

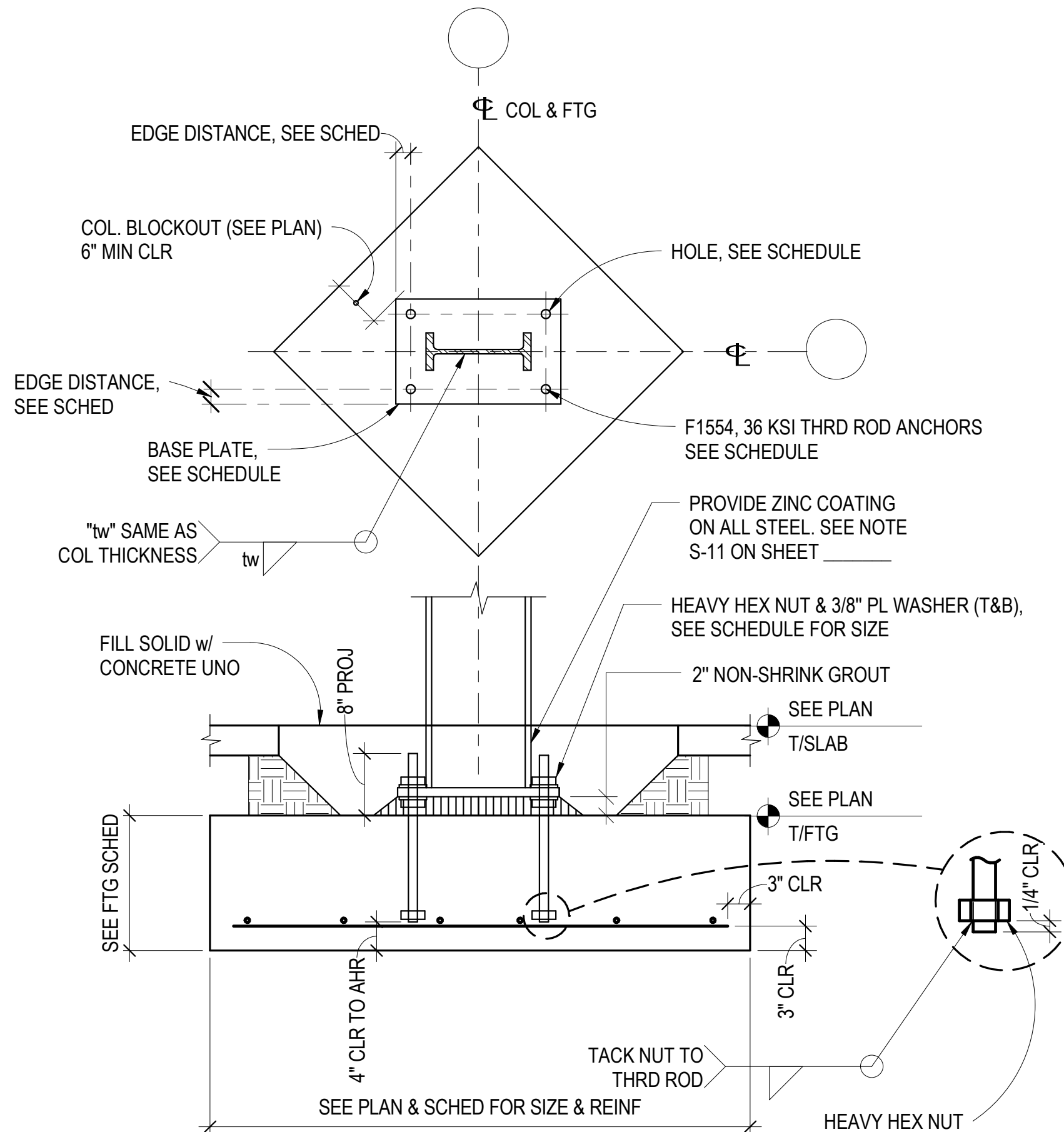
3/4" = 1'-0"



TYPICAL STEP FOOTING FOR UTILITES

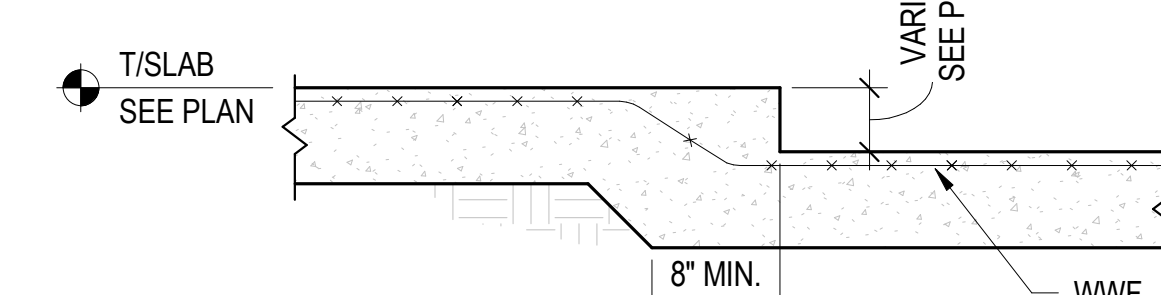
3/4" = 1'-0"

BASE PLATE SCHEDULE					
COLUMN	BASE PLATE	ANCHORS	HOLE DIAMETER	MIN WASHER DIAMETER	ANCHOR ROD EDGE DISTANCE
W14x120	PL 1 1/2"x20"x24"	(4) 1 1/4"Ø	2 1/16"	2 7/8"	2 1/4"

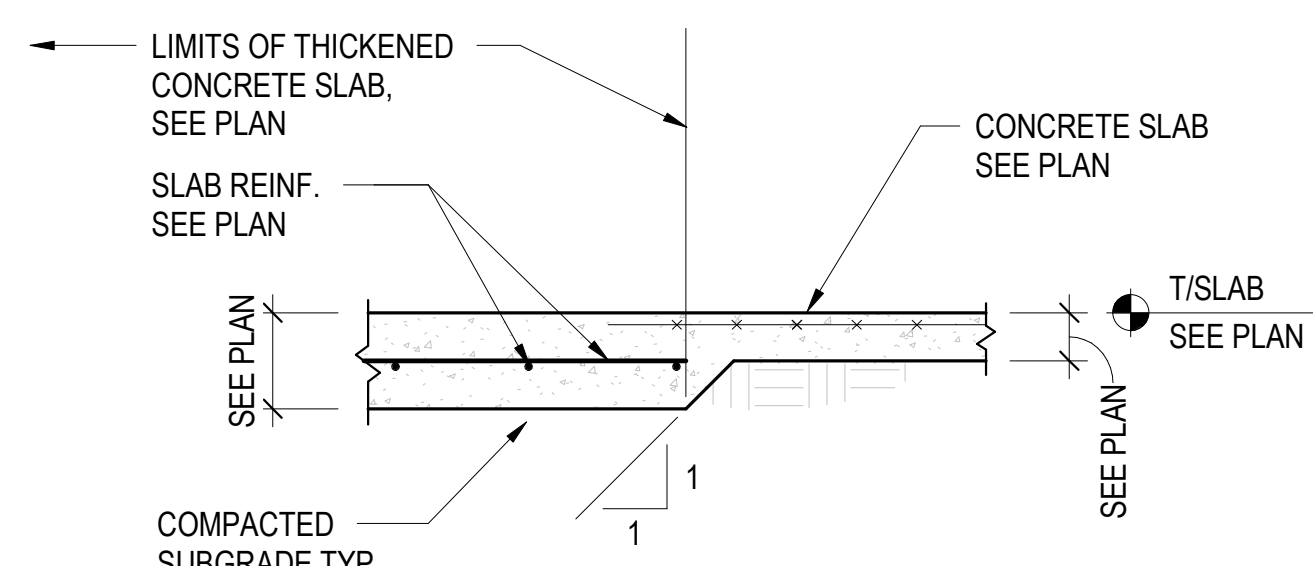


8 W-COLUMN/FTG DETAIL

S701 3/4" = 1'-0"



SECTION AT SLAB DEPRESSION



SECTION AT SLAB ON GRADE TRANSITION

11 TYPICAL SLAB DETAILS

S701 3/4" = 1'-0"

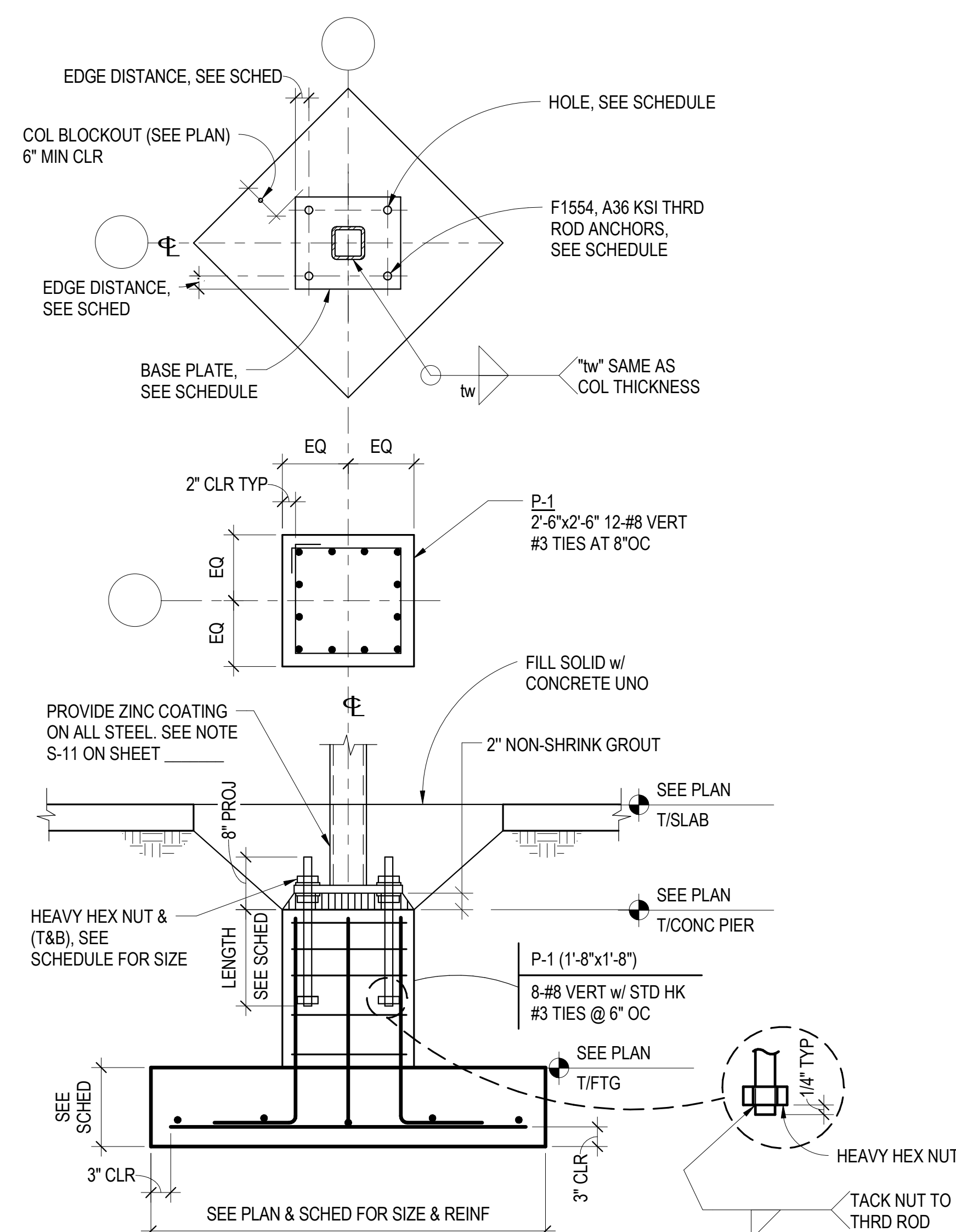
COLUMN FOUNDATION SCHEDULE				
MARK	SIZE	LENGTH	WIDTH	THICKNESS
F-8.0	8' - 0"	8' - 0"	1' - 4"	(8) - #6 EW T&B
F-8X16	16' - 0"	8' - 0"	2' - 6"	SEE DETAIL 7/S702 SAME REINFG
F-9.0	9' - 0"	9' - 0"	1' - 6"	(9) - #6 EW T&B
F-10.0	10' - 0"	10' - 0"	1' - 6"	(10) - #6 EW T&B
F-11.0	11' - 0"	11' - 0"	1' - 6"	(11) - #7 EW T&B
F-12.0	12' - 0"	12' - 0"	1' - 6"	(12) - #7 EW T&B
F-12X11	12' - 0"	11' - 0"	2' - 6"	SEE DETAIL 7/S702
F-13.0	13' - 0"	13' - 0"	2' - 0"	(14) - #8 EW T&B
F-14.0	14' - 0"	14' - 0"	2' - 4"	(14) - #9 EW T&B

WALL FOUNDATIONS SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCEMENT	REMARKS
WF-3.0	3' - 0"	1' - 0"	(3) #5 CONT & #4 TRAN @ 16" OC T&B	
WF-7.0	7' - 0"	1' - 8"	(7) #6 CONT & #5 TRAN @ 16" OC T&B	

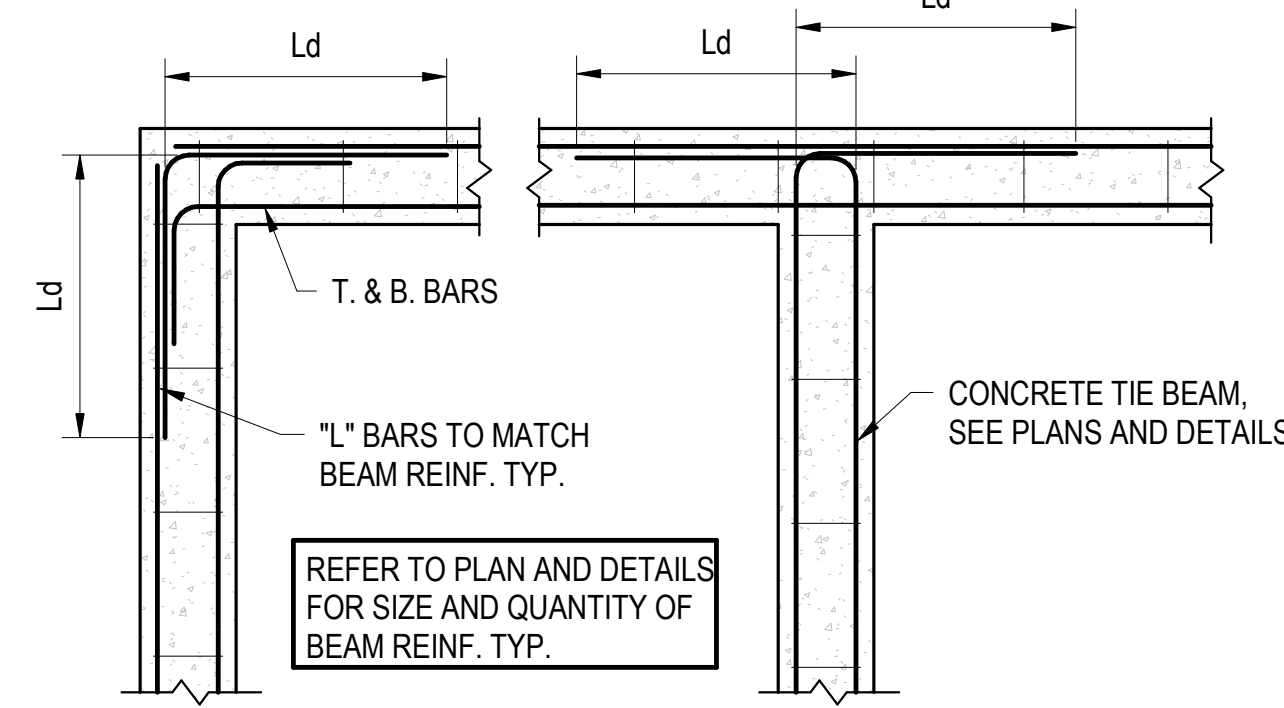
BASE PLATE SCHEDULE

COLUMN	BASE PLATE	ANCHORS	ANCHOR LENGTH	HOLE DIAMETER	MIN WASHER DIAMETER	ANCHOR ROD EDGE DISTANCE
HSS-18x18	PL 1 1/2"x2-3"x1'-8"	(4) 1 1/4"Ø		2 1/16"	2 7/8"	2 1/4"



9 HSS COLUMN/PIER AT FTG

S701 3/4" = 1'-0"



12 TYPICAL CONC. TIE BEAM CORNER REINF.

S701 3/4" = 1'-0"

TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 653, FLORIDA STATUTES.



SEAL

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Hunton Brady
ARCHITECTS

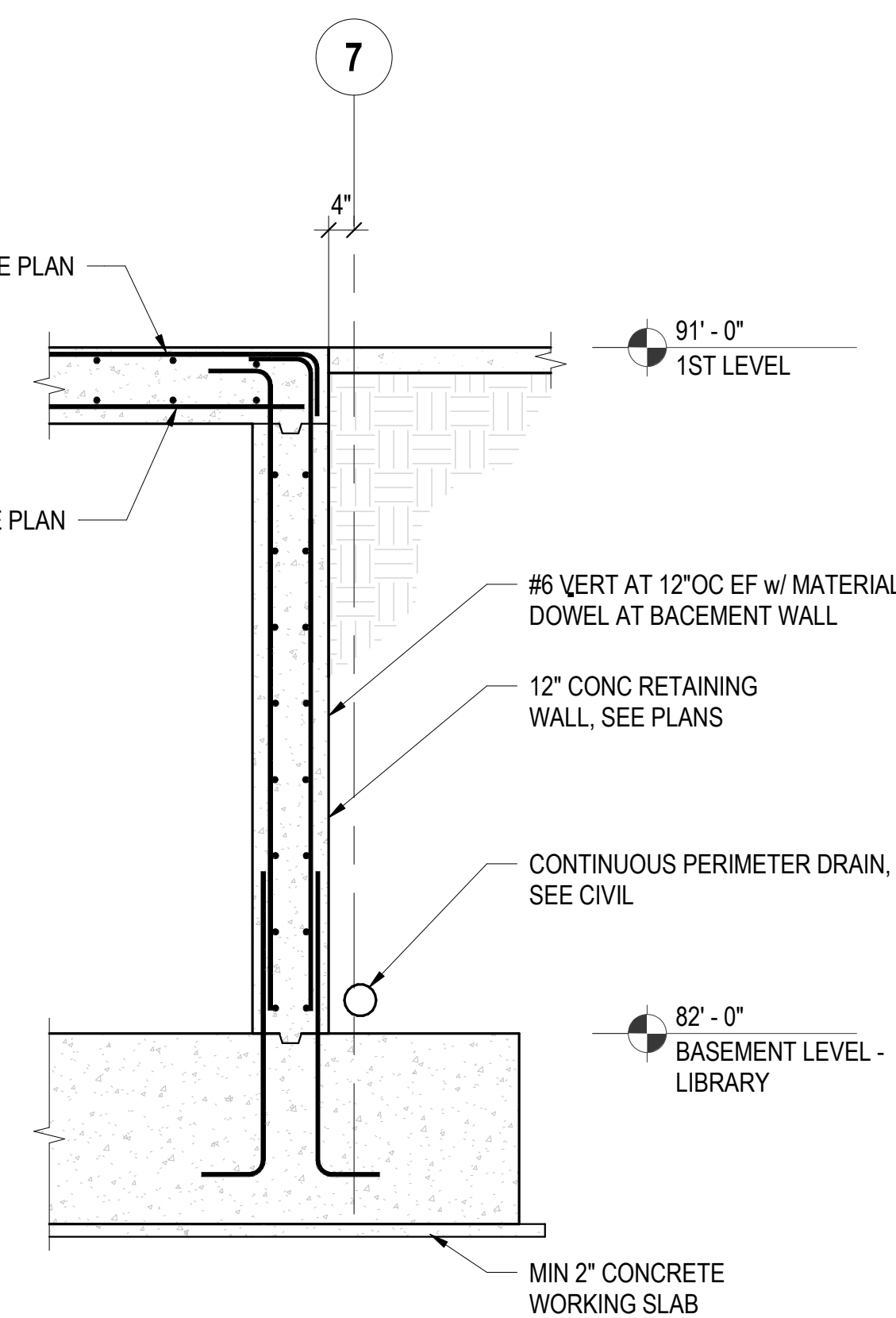
Adjaye Associates

DATE	SUBMISSION	NO
10.22.19	CONSTRUCTION DOCUMENTS	

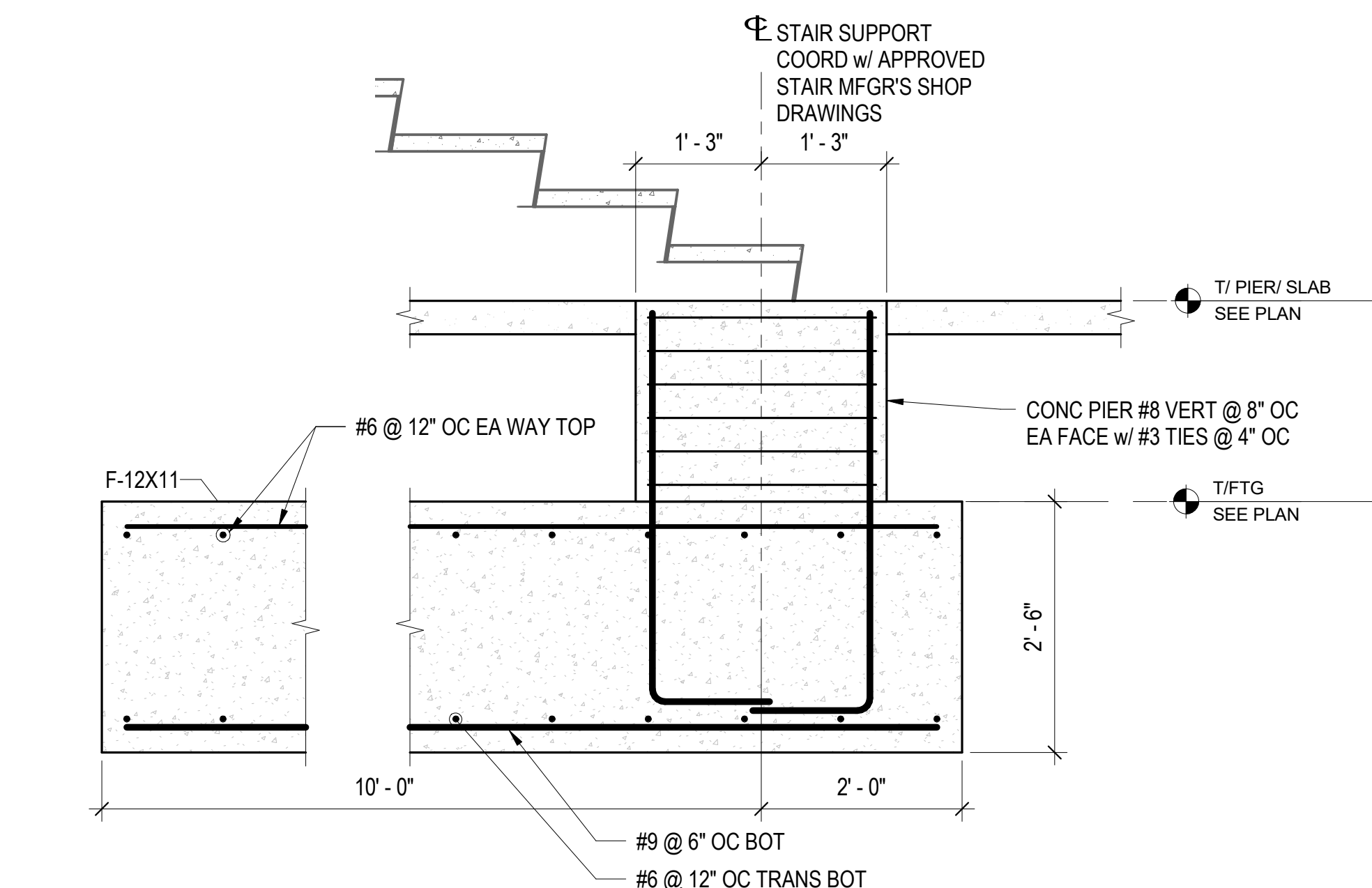
FOUNDATION SECTIONS & DETAILS

PROJ. NO. E-16078.00 SHEET
DRAWN DLL

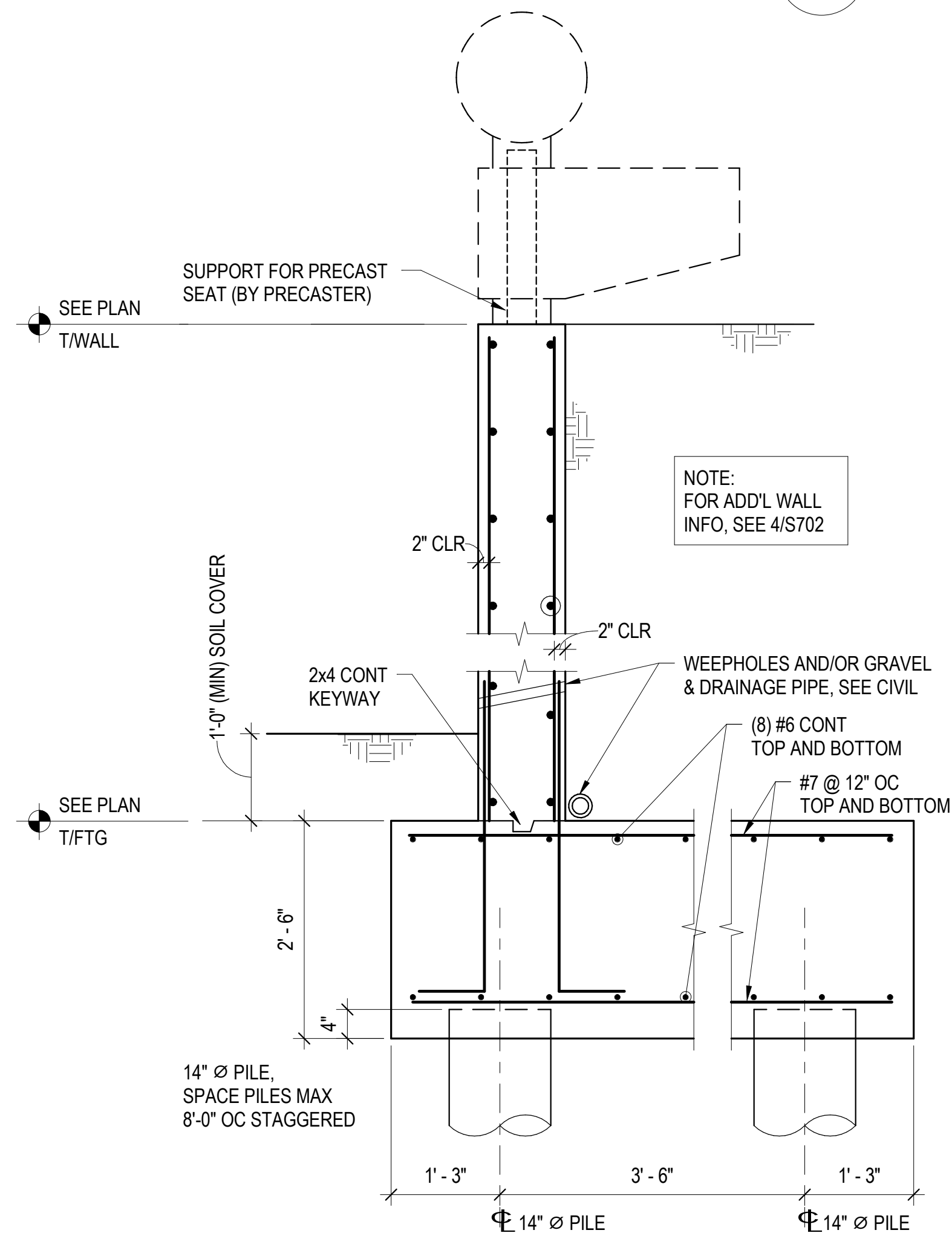
S701



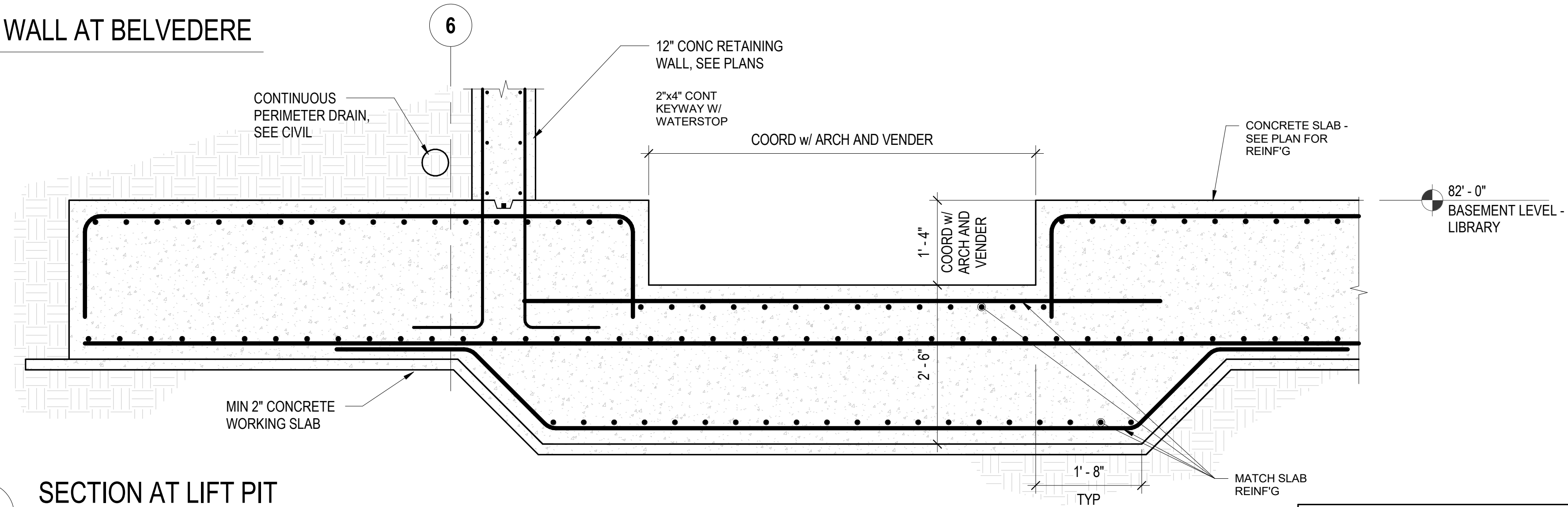
2 LIBRARY FOUNDATION SECTION
S702 1/2" = 1'-0"



3 STEPS TO LIBRARY BASEMENT
S702 1/2" = 1'-0"



5 PILE SUPPORTED RETAINING WALL AT BELVEDERE



7 SECTION AT LIFT PIT
S702 3/4" = 1'-0"

RETAINING WALL SCHEDULE											
MARK	(h) MAX	W	L1	t	FTG REINF		b	WALL REINFORCEMENT			DOWEL LAP "F"
					A	B		V1	V2	H	
RW-1	4'-0"	4'-0"	1'-0"	1'-4"	#4 @ 18"	4-#5	12"	#5 @ 12"	#4 @ 18"	#4 @ 18"	2'-6"
RW-2	6'-0"	5'-0"	1'-0"	1'-4"	#5 @ 12"	6-#5	12"	#5 @ 12"	#4 @ 18"	#4 @ 18"	3'-0"
RW-3	9'-0"	7'-6"	1'-0"	1'-4"	#6 @ 12"	8-#5	12"	#6 @ 12"	#4 @ 18"	#4 @ 12"	3'-7"

4
S702

TYP SITE RETAINING WALL SECTION AND SCHEDULE

3/4" = 1'-0"

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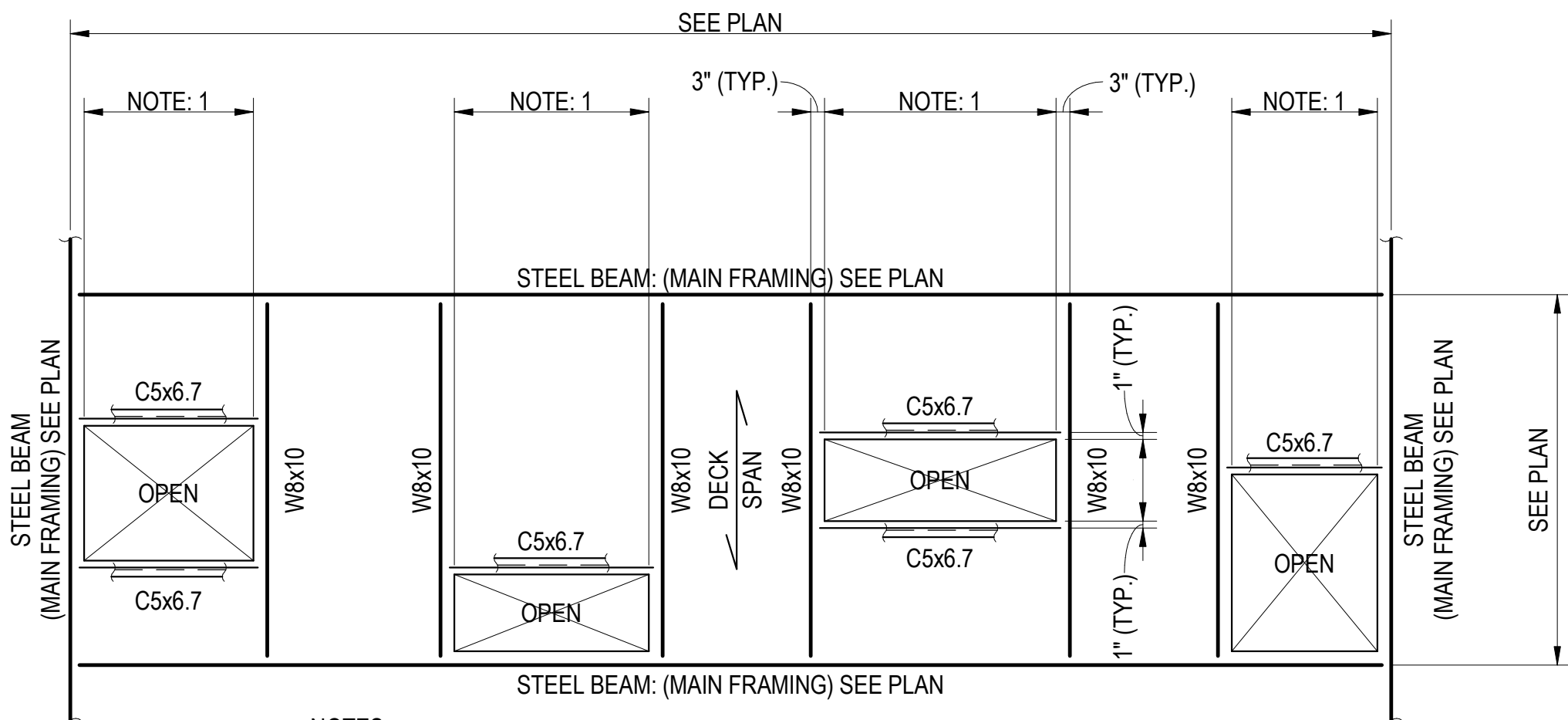
[illegible]

FOUNDATION SECTIONS & DETAILS

PROJ. NO. E - 16078.00 SHEET
DRAWN DLL

S702

TO THE BEST OF THE STRUCTURAL ENGINEER'S
KNOWLEDGE, THE PLANS AND SPECIFICATIONS
COMPLY WITH THE APPLICABLE MINIMUM CODES AS
DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE
WITH CHAPTER 553, FLORIDA STATUTES.

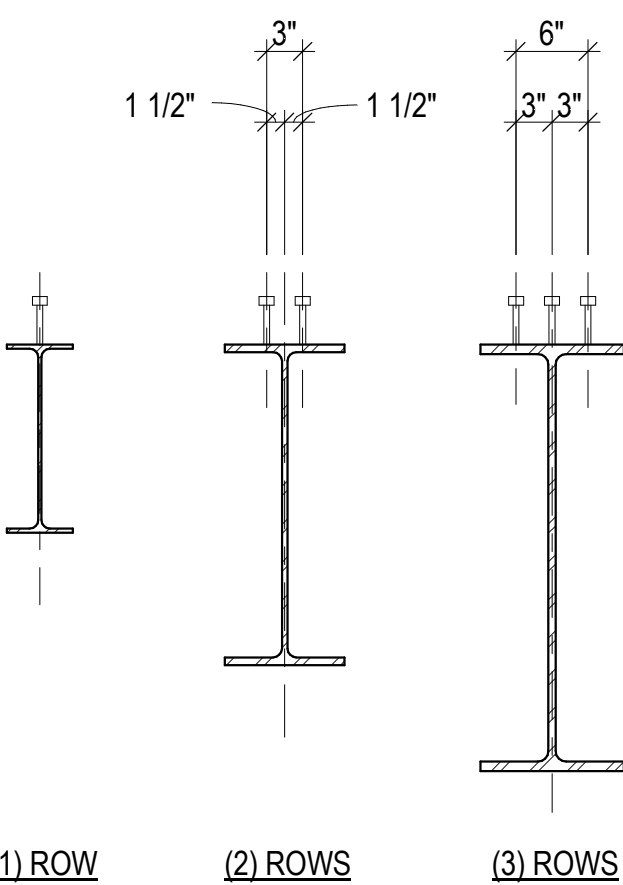


NOTES:

- THESE DETAILS APPLY FOR THRU SLAB OPENINGS WHERE DIMENSION IS OF 4'-0" TO 8'-0" (MAX.) (OPENING EDGE TO OPENING EDGE). DIMENSION OF THRU SLAB OPENINGS IN THE DIRECTION PERPENDICULAR TO METAL DECK SPAN. COORDINATE EXACT SIZE AND LOCATION OF THRU SLAB OPENINGS WITH ARCHITECTURAL AND / OR MECHANICAL DRAWINGS.
- THRU SLAB OPENINGS SHOWN HERE ARE OF VARIOUS SIZES AND LOCATIONS (THRU SLAB OPENINGS ARE NOT TO EXCEED 8'-0") FOR THRU SLAB OPENINGS GREATER THAN 8'-0" SEE PLANS AND ADDITIONAL SECTIONS FOR FRAMING AND INFORMATION.
- METAL DECK MANUFACTURER / SUPPLIER IS TO PROVIDE 14 GAGE (GALV.) METAL CLOSURE EDGE ALONG THRU SLAB OPENING EDGES UNLESS OTHER-WISE NOTED IN SECTIONS / DETAILS.

1 TYPICAL ADD'L FRAMING FOR SLAB OPENINGS

S711 3/4" = 1'-0"

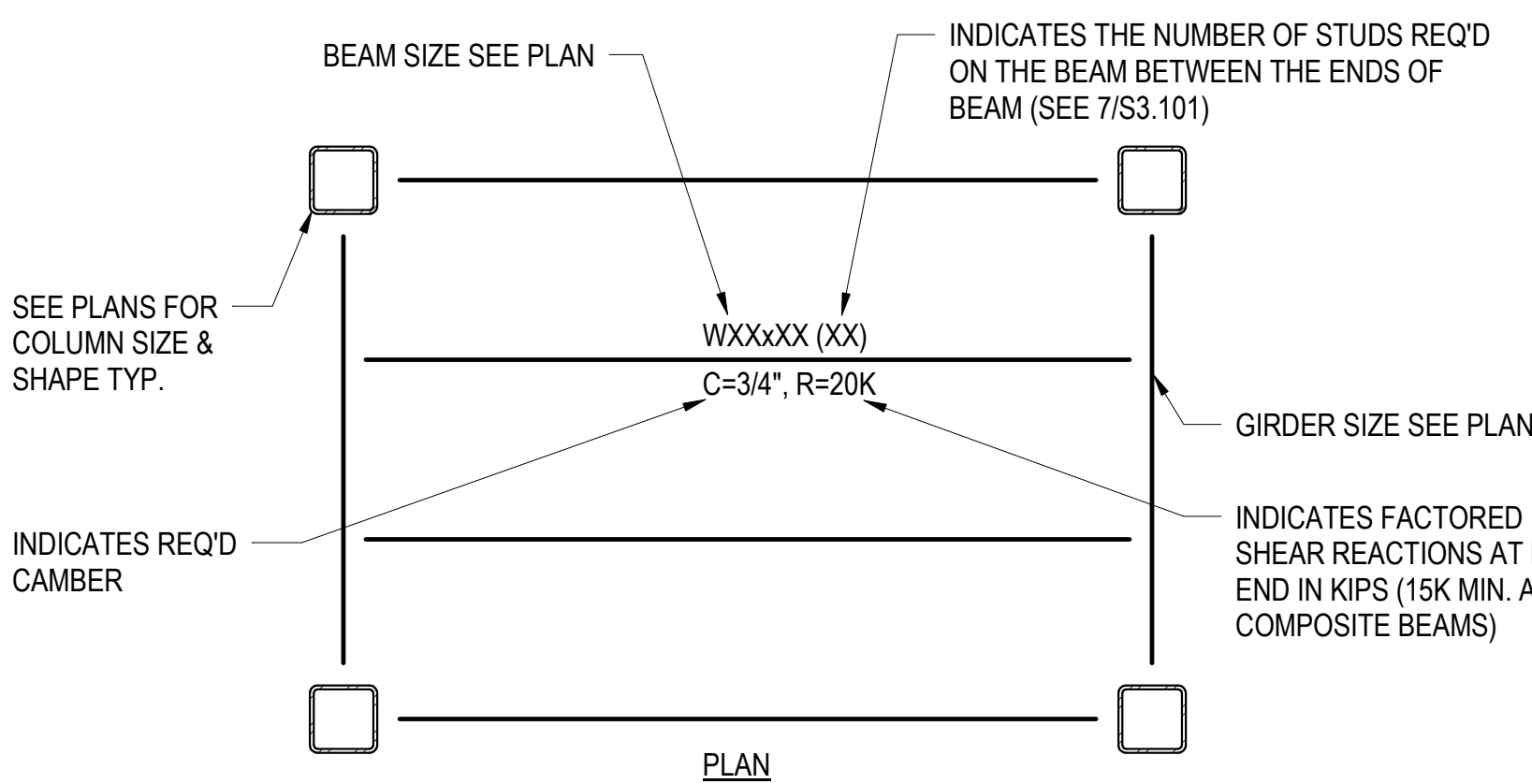


NOTES:

- ALL SHEAR CONNECTOR STUDS SHALL BE 3/4"DIA.M.x4'L.G. SEE SHEET S-501 FOR FURTHER INFORMATION AND PLANS FOR NUMBER OF STUDS PER BEAM.
- LOCATE SHEAR CONNECTOR STUDS IN ONE (1) ROW ON THE CENTER LINE OF STEEL BEAM'S WEB WHEN TOTAL NUMBER OF SHEAR CONNECTOR STUDS AND SPACING REQUIREMENTS ALLOW.
- LOCATE SHEAR CONNECTOR STUDS IN TWO (2) OR THREE (3)-ROWS ONLY WHEN REQUIRED TO PLACE TOTAL NUMBER OF SHEAR CONNECTOR STUDS AND SPACING REQUIREMENTS EXCEEDS THAT OF ONE (1) ROW.
- PROVIDE 1" (MIN.) PLACEMENT DISTANCE FROM FLANGE EDGE TO CENTER LINE OF SHEAR CONNECTOR STUDS.
- FABRICATOR IS TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INDICATES THE SIZE, LENGTH AND LOCATION OF SHEAR CONNECTOR STUDS.

4 TYPICAL SHEAR CONNECTOR SPACING

S711 3/4" = 1'-0"

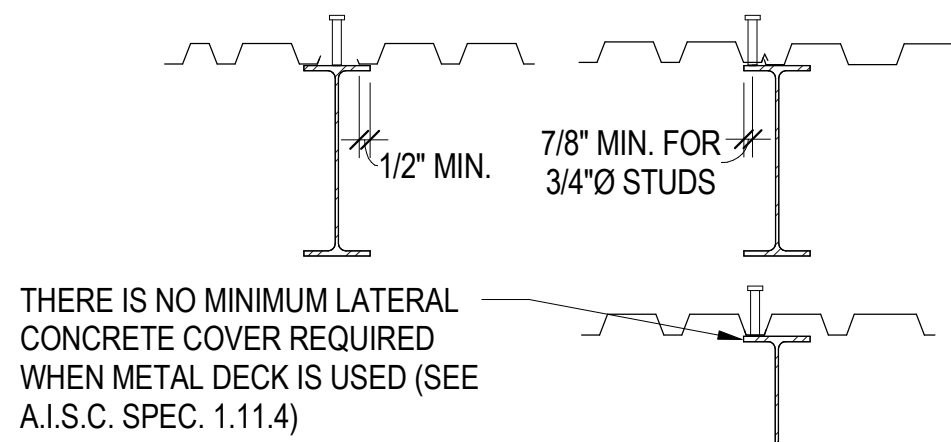


NOTES:

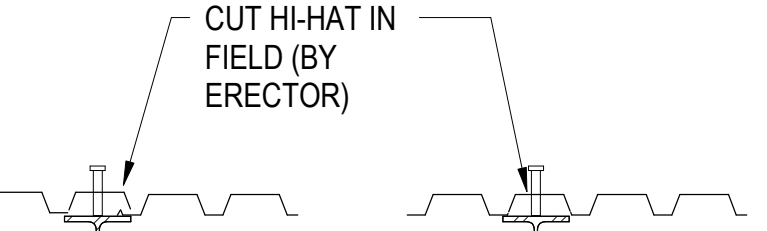
- METAL DECK AND TOP FLANGES OF BEAMS SHALL BE FREE FROM PAINT, WATER, EXCESSIVE SCALE RUST OR OTHER MATERIALS INJURIOUS TO WELDING.
- METAL DECK SHALL REST TIGHTLY AGAINST BEAM FLANGE.
- STUDS SHALL BE WELDED ONLY THRU SINGLE THICKNESS OF METAL DECK.
- DECK SHALL BE ATTACHED TO BEAMS NOT HAVING STUDS WITH 5/8" DIA. PUDDLE WELDS SPACED NOT MORE THAN 24" ON CENTER.
- LENGTH OF SHEAR STUD CONNECTORS IN COMPOSITE SLAB TO BE DEPTH OF COMPOSITE DECK PLUS 1 1/2" U.N.O.

9 TYP. COMPOSITE BEAM & SLAB DETAILS

S711 3/4" = 1'-0"



SIDE LAP FALLING ON FLANGE

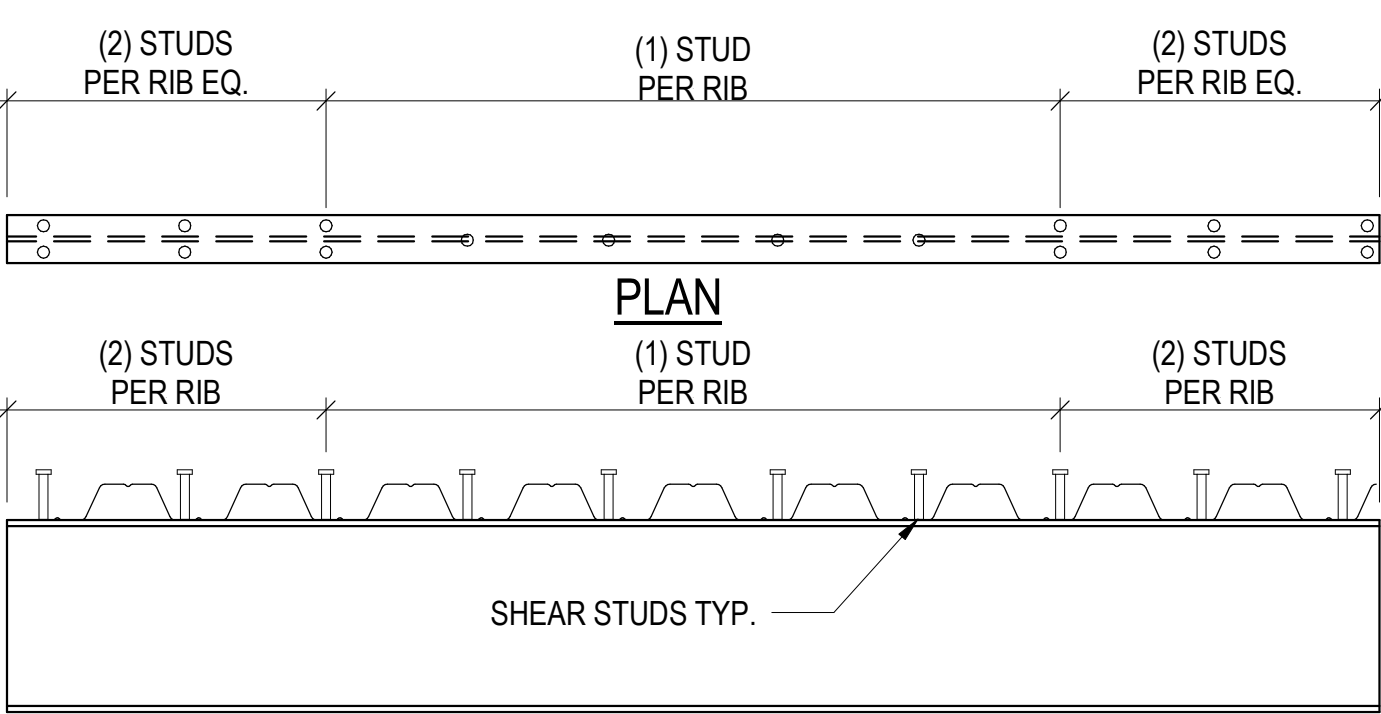
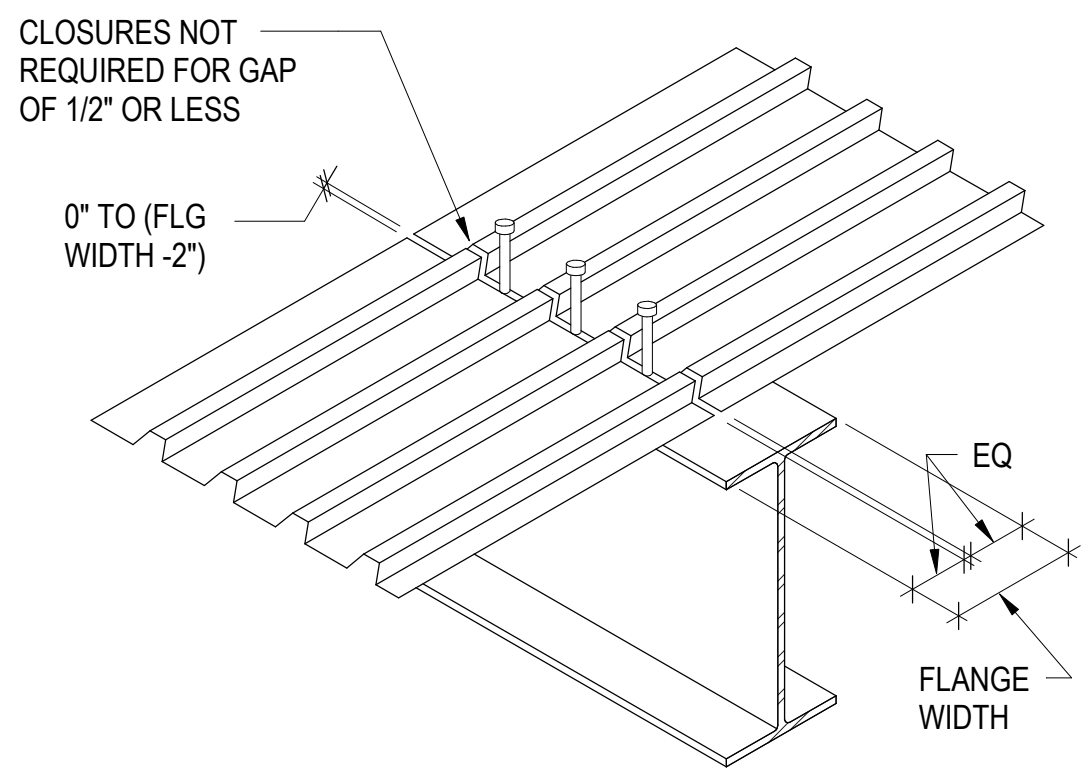


HI-HAT FALLING ON FLANGE

2 TYPICAL COMPOSITE DECK PLACEMENT DETAILS

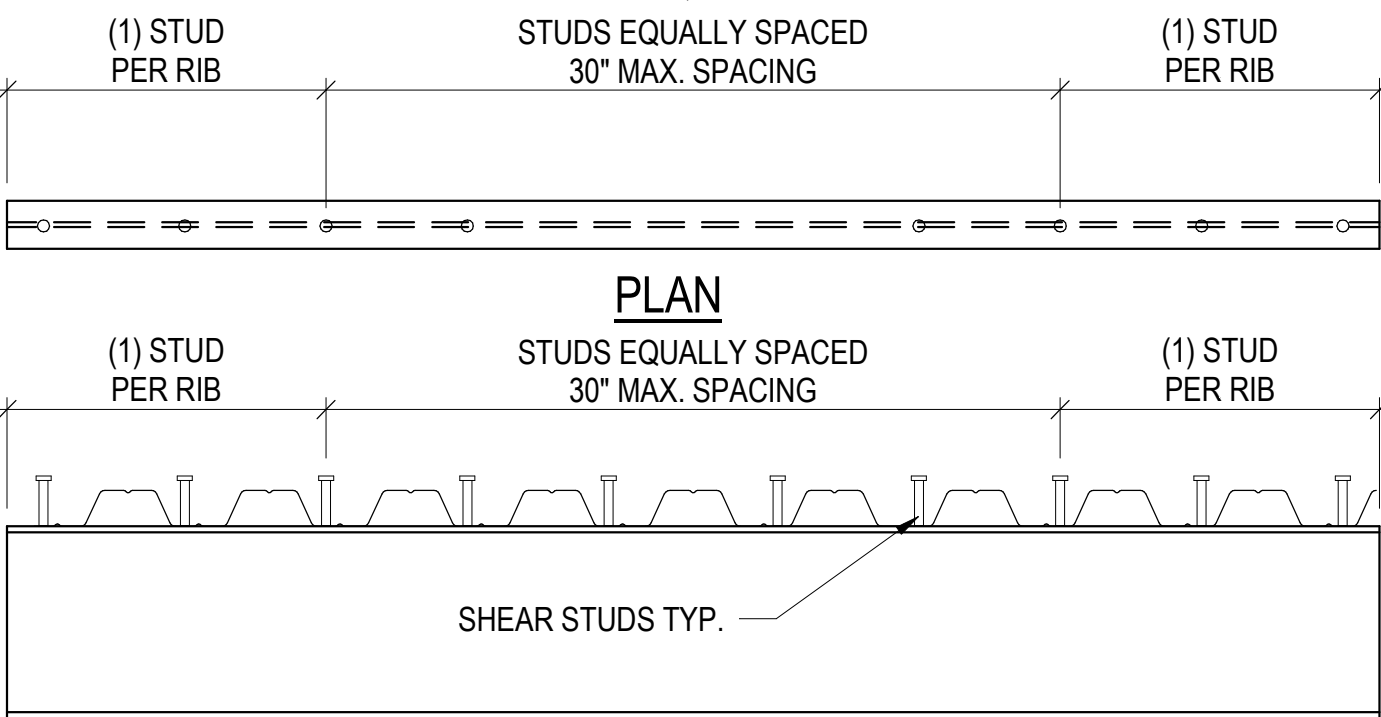
S711 3/4" = 1'-0"

- NOTES:
- DECK SHALL BE FURNISHED IN MODULAR PANEL WIDTHS. ANY CUTTING THAT IS REQUIRED SHALL BE DONE BY THE DECK ERECTOR.
 - LATERAL AND LONGITUDINAL SPACING IS CONTROLLED BY SECTION 1.11.4 OF THE A.I.S.C. SPECIFICATIONS. FOR THE LOCATION OF THE STUD WITH RESPECT TO THE EDGE OF THE FLANGE, SEE THE STRUCTURAL WELDING CODE A.W.S., 428.8. (DETAIL 4).
 - WHEN STUDS ARE USED, DECK MUST NOT BE LAPPED IN ORDER TO PERMIT WELDING OF STUDS THROUGH SINGLE THICKNESS OF DECK. WELDING OF STUDS TO BEAM THROUGH (2) LAYERS OF DECK SHALL NOT BE PERMITTED.



ELEVATION

WHERE METAL DECK CROSSES COMPOSITE BEAMS, SHEAR STUDS SHALL BE PLACED AT RIBS. WHERE NUMBER OF SHEAR STUDS REQUIRED EXCEEDS NUMBER OF RIBS, TWO STUDS PER RIB SHALL BE PROVIDED, PLACED FROM ENDS AS SHOWN.



ELEVATION

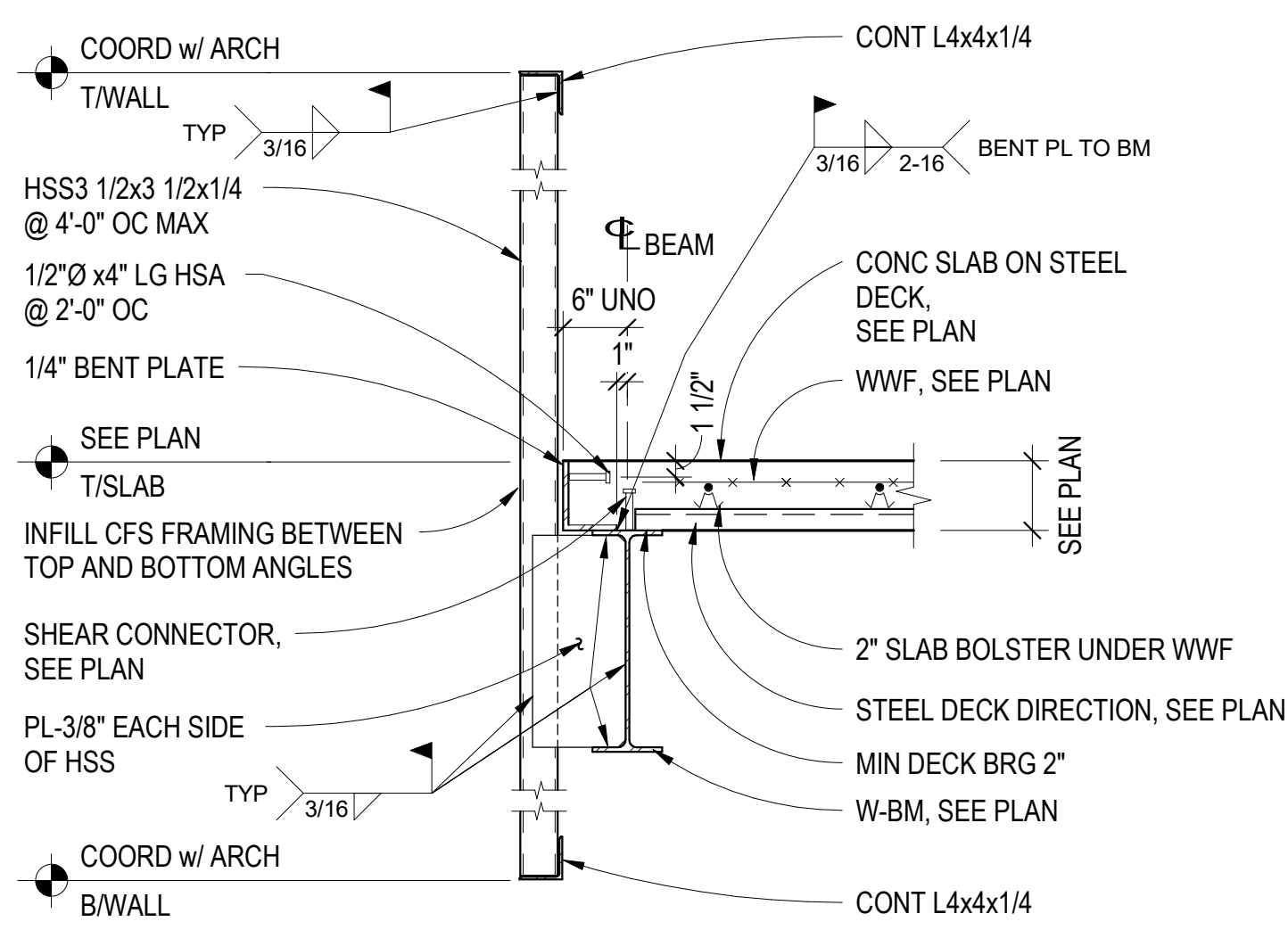
WHERE METAL DECK CROSSES COMPOSITE BEAMS, SHEAR STUDS SHALL BE PLACED AT RIBS. WHERE NUMBER OF RIBS EXCEEDS NUMBER OF STUDS REQ'D ONE STUD PER RIB SHALL BE PROVIDED AS REQ'D FROM ENDS OF BEAM AS SHOWN WITH THE REMAINDER EQUALLY SPACED AT 30" O.C. MAXIMUM SPACING.

NOTE:

- SEE SPECIFICATIONS FOR MIN. TRANSVERSE AND LONGITUDINAL STUD SPACING.

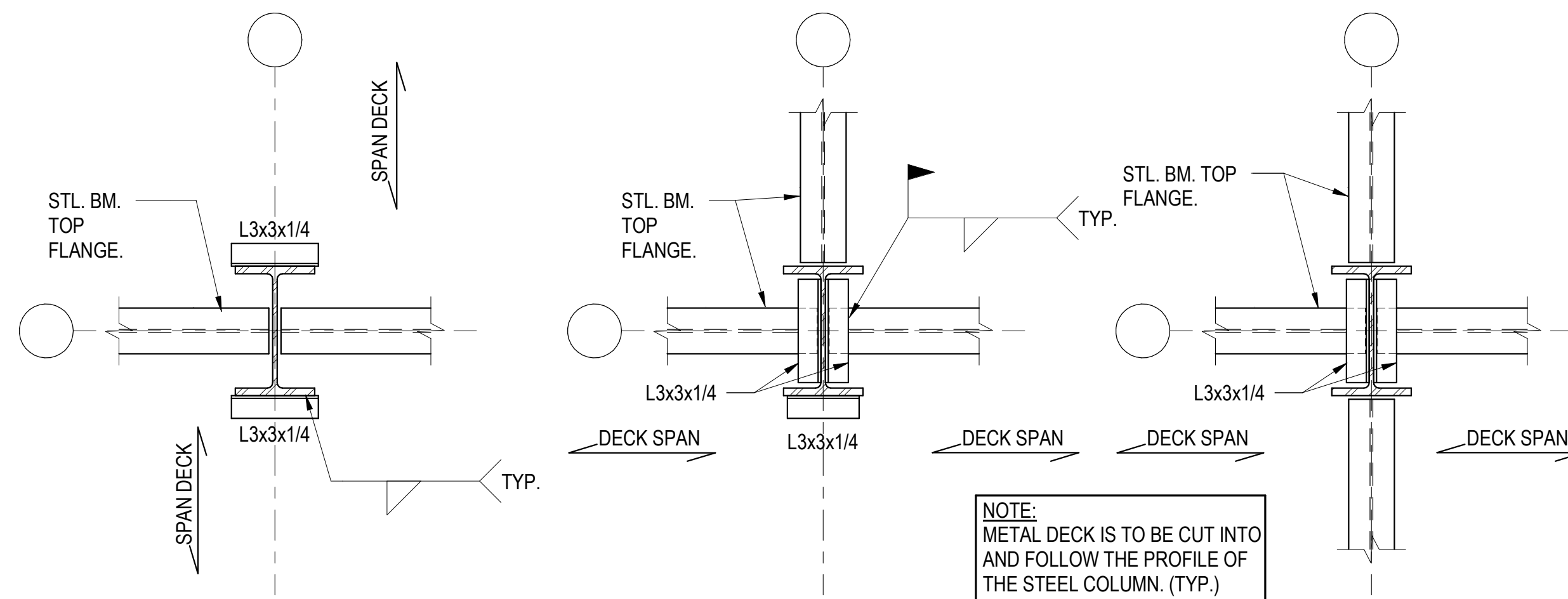
6 TYP. BEAM STUD PLACEMENT DETAIL

S711 3/4" = 1'-0"



10 TYP SLAB EDGE AT STEEL BM

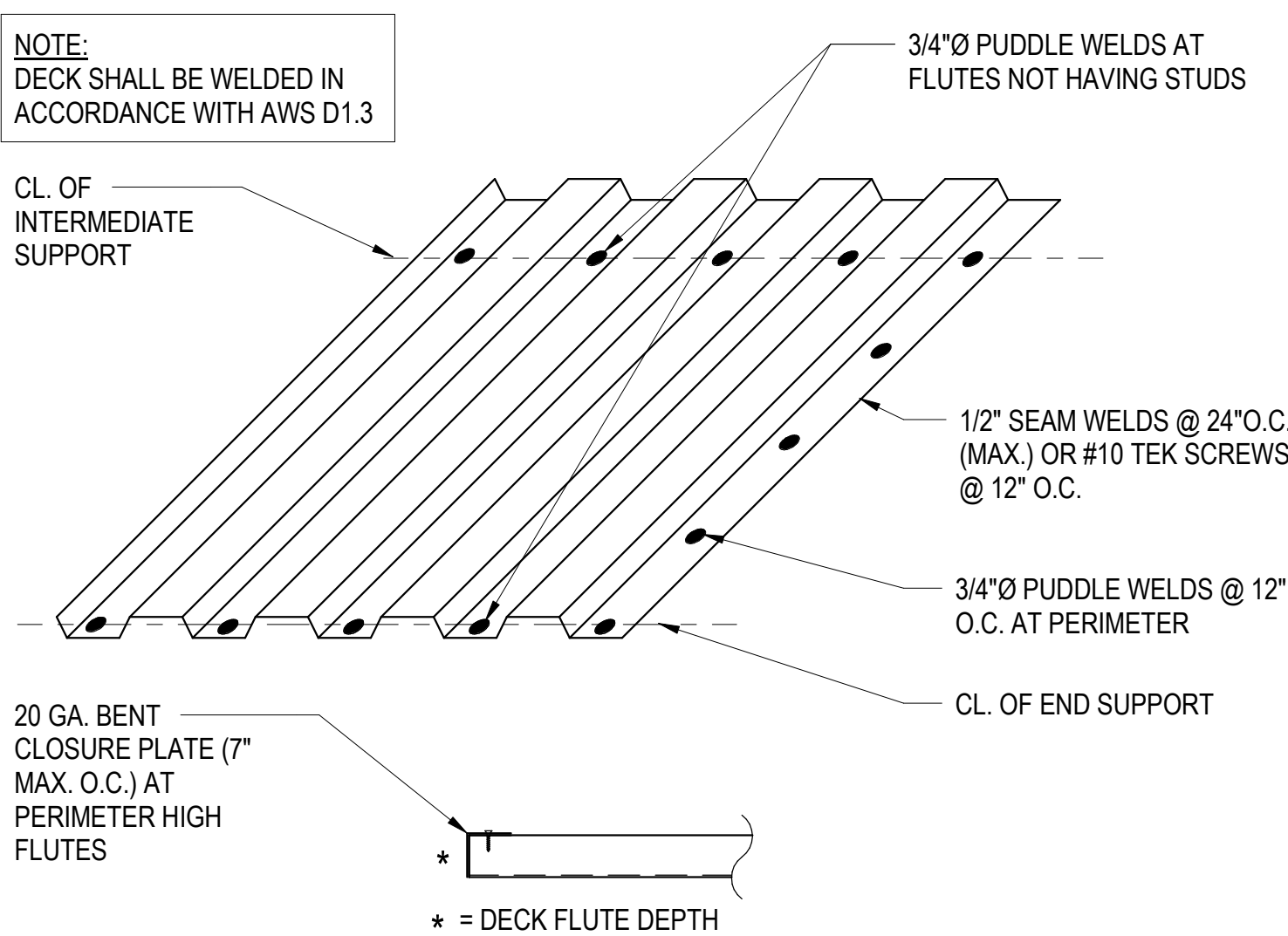
S711 3/4" = 1'-0"



3 TYPICAL METAL DECK SUPPORT AT STL. COL.

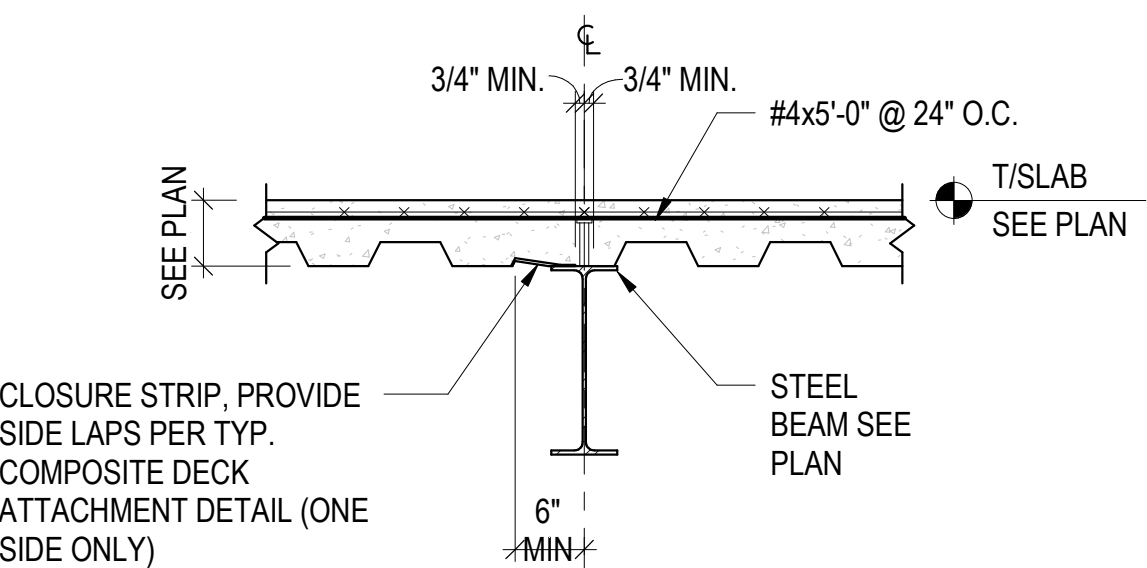
S711 3/4" = 1'-0"

NOTE:
METAL DECK IS TO BE CUT INTO AND FOLLOW THE PROFILE OF THE STEEL COLUMN. (TYP.)



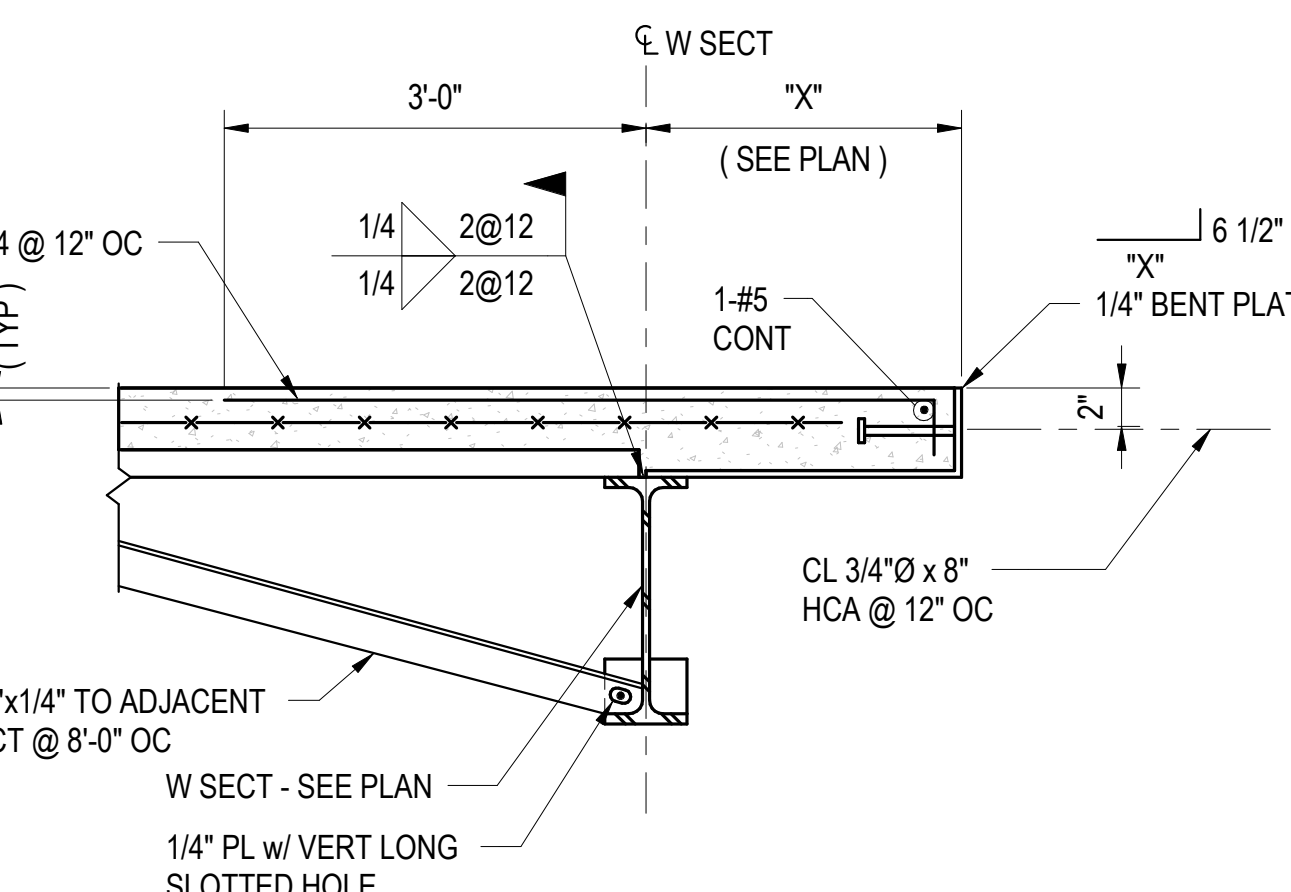
7 TYP. FLOOR DECK ATTACHMENT DETAIL

S711 3/4" = 1'-0"



8 TYP. CLOSURE SECTION @ GIRDER

S711 3/4" = 1'-0"



11 EDGE OF SLAB AT EXTERIOR

S711 3/4" = 1'-0"

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SEAL

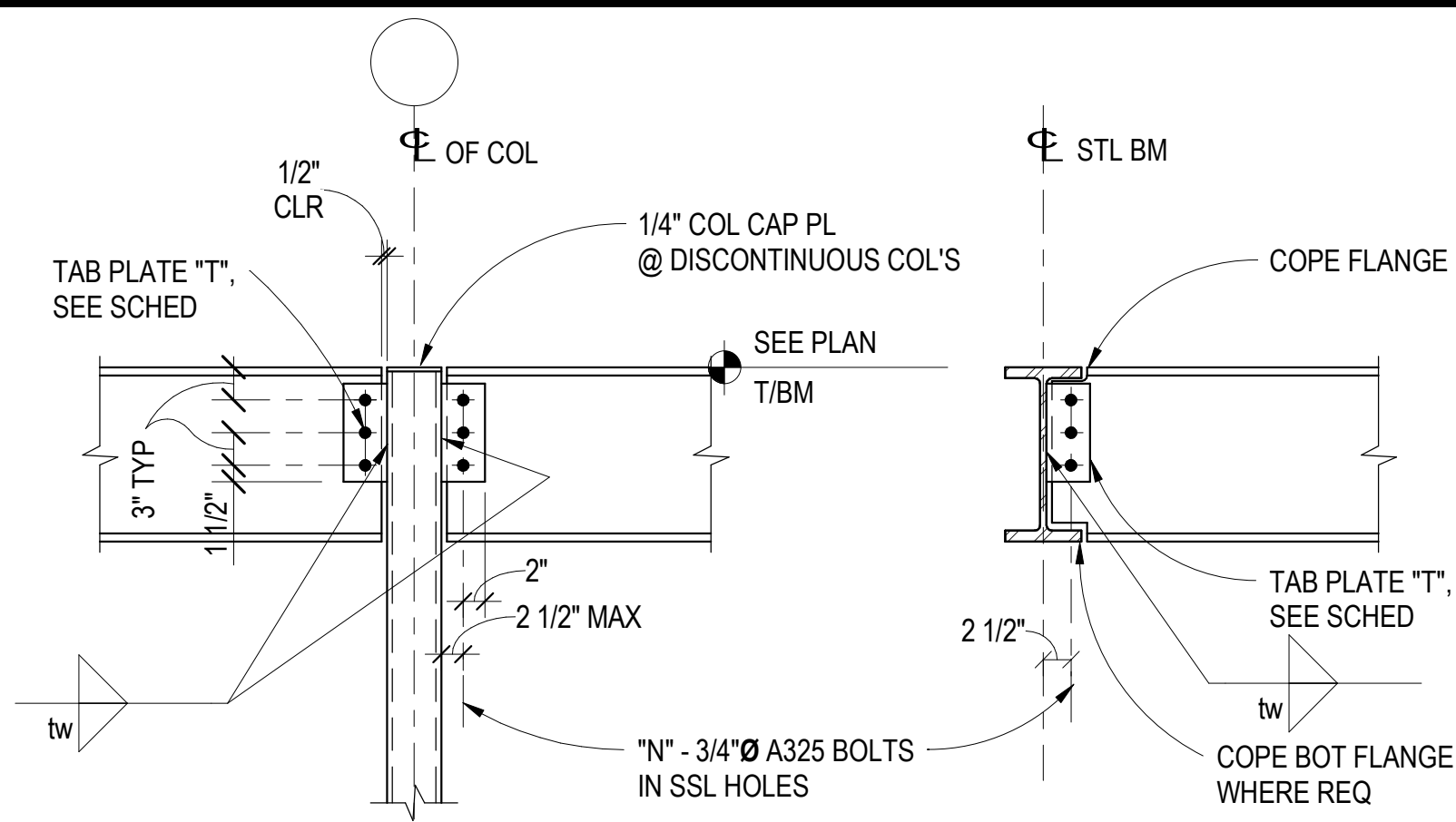
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FRAMING SECTIONS & DETAILS

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DRAWN	DLL	
		S711



BEAM TO COLUMN

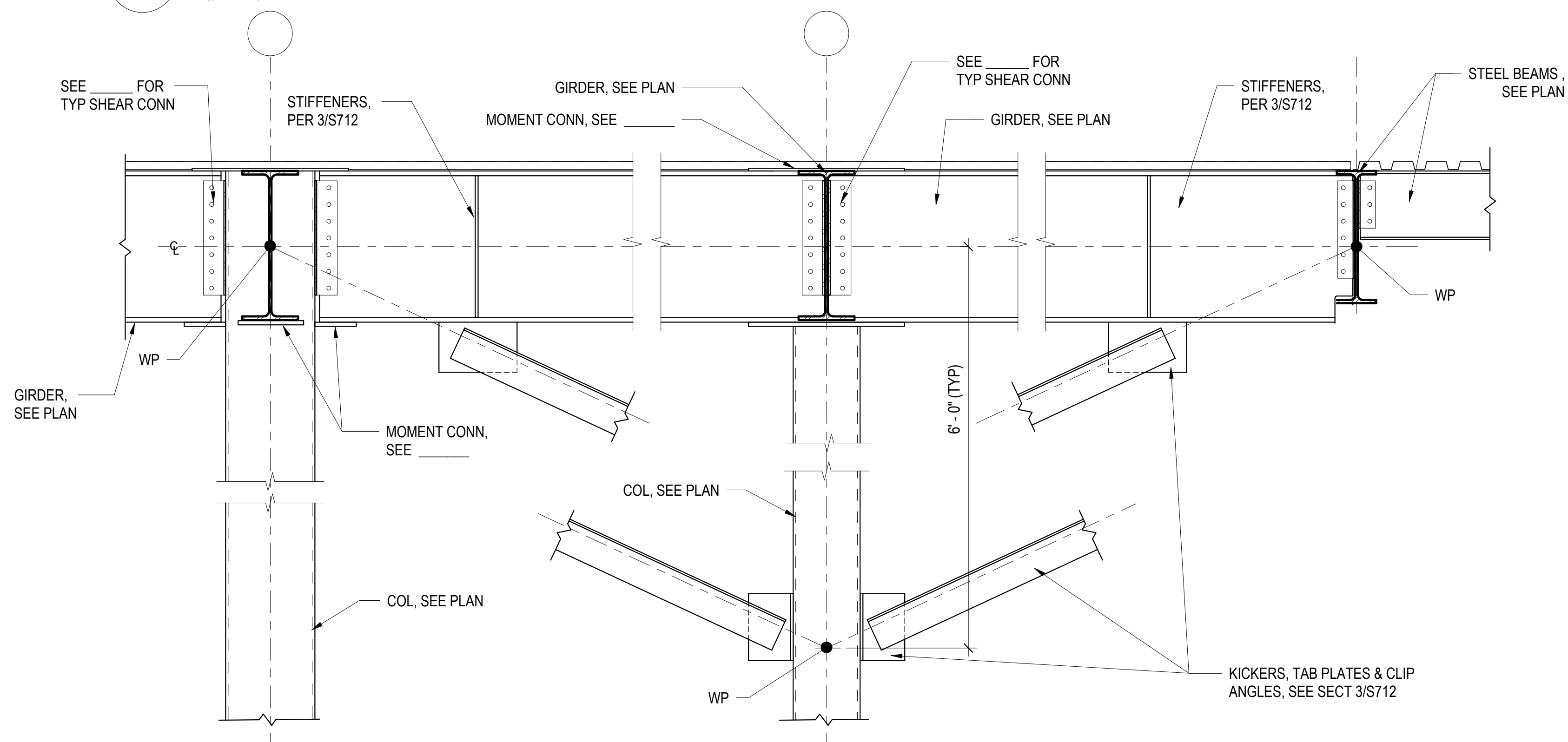
BEAM TO BEAM

BEAM	PLATE "T"	"N" BOLTS	"tw" WELD *
W8,W10	1/4"	2	3/16"
W12,W14	1/4"	3	3/16"
W16	1/4"	4	3/16"
W18	1/4"	4	3/16"
W21	3/8"	5	5/16"

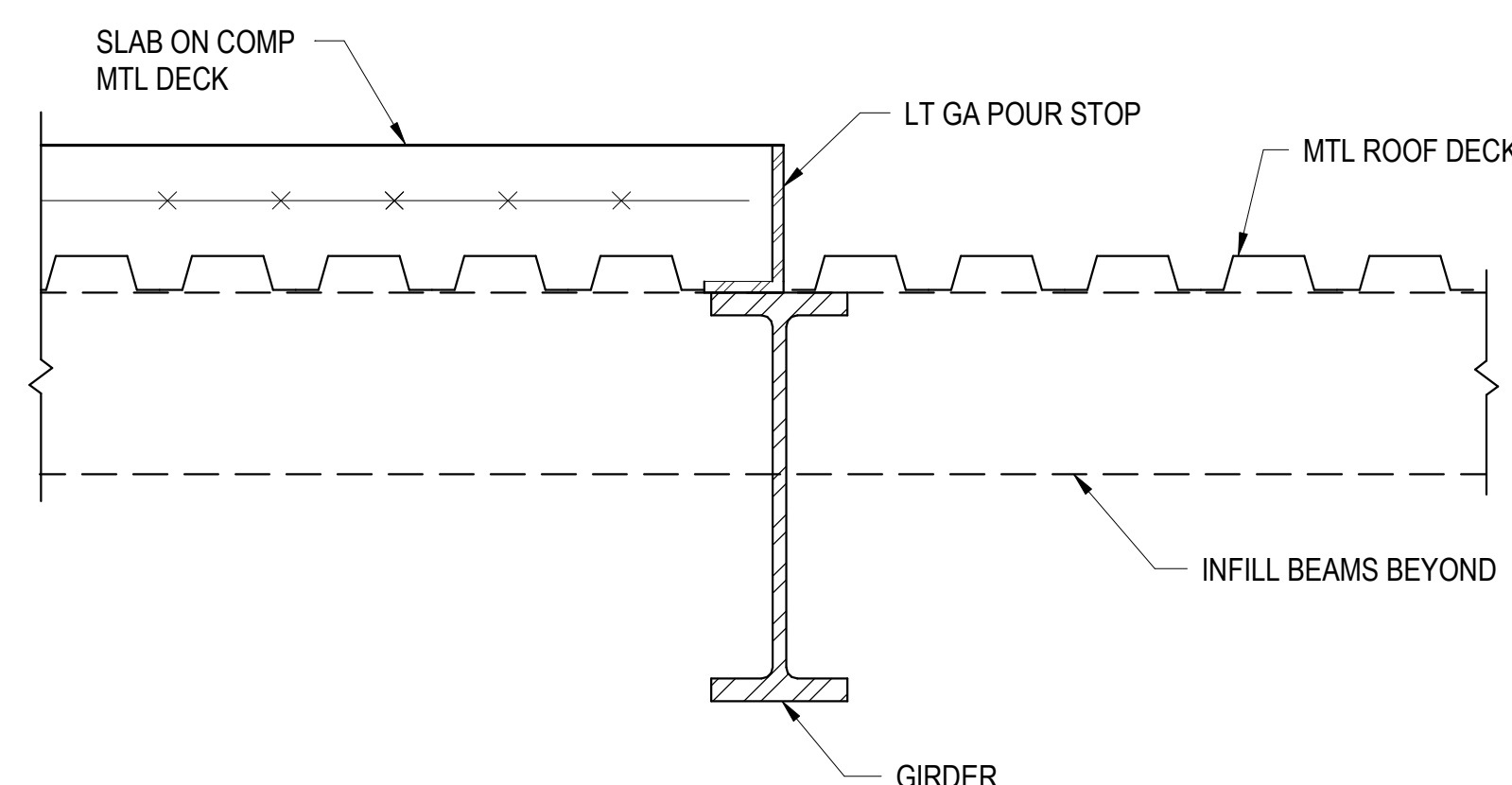
* tw SHALL BE THE EFFECTIVE THROAT FOR SKEWED CONNECTIONS

1 BEAM TO BEAM/COL SHEAR TAB CONN
3/4" = 1'-0"

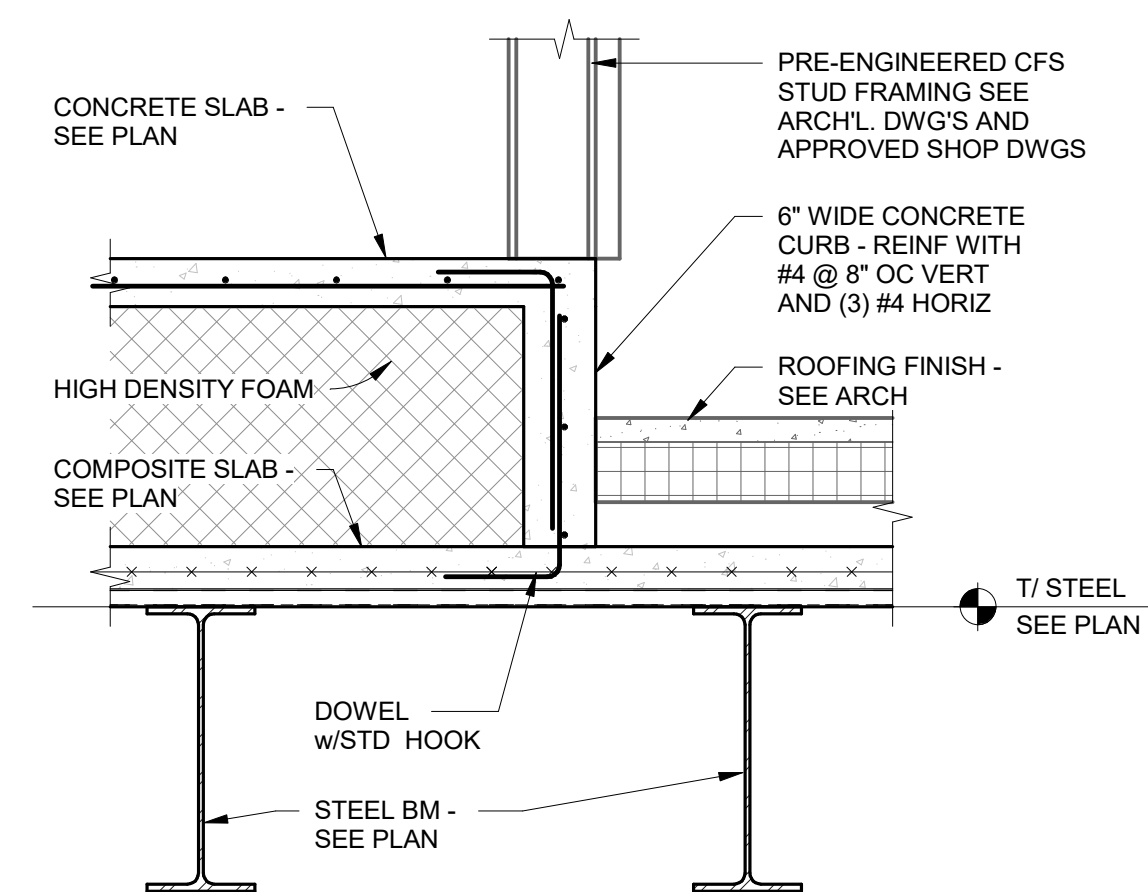
2 STEEL BM/HSS COL MOMENT CONN
3/4" = 1'-0"



3 KICKER FOR CANTILEVER - NORTH SOUTH
3/4" = 1'-0"

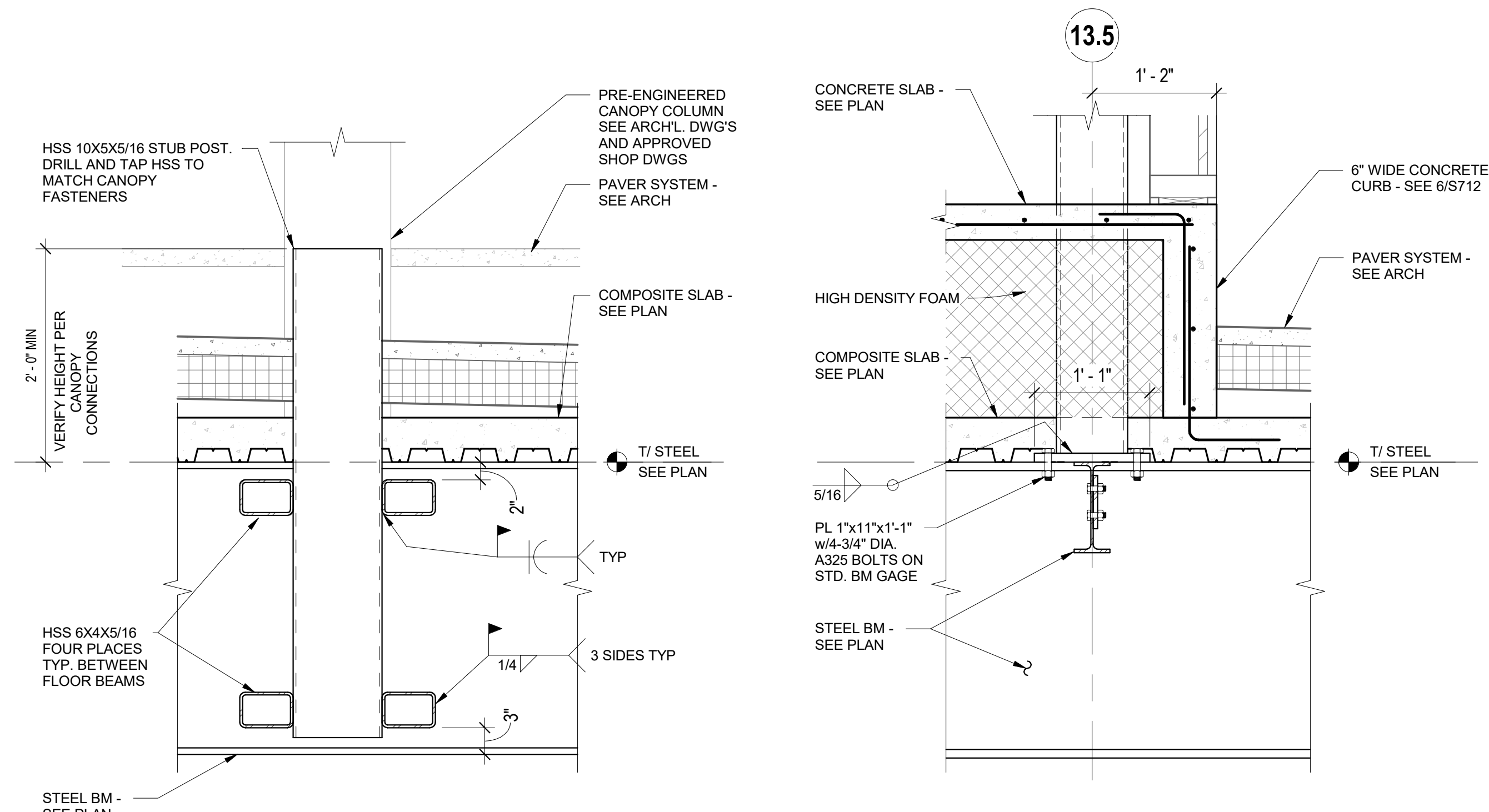


5 DECK TYPE TRANSITION @ ROOF
1 1/2" = 1'-0"

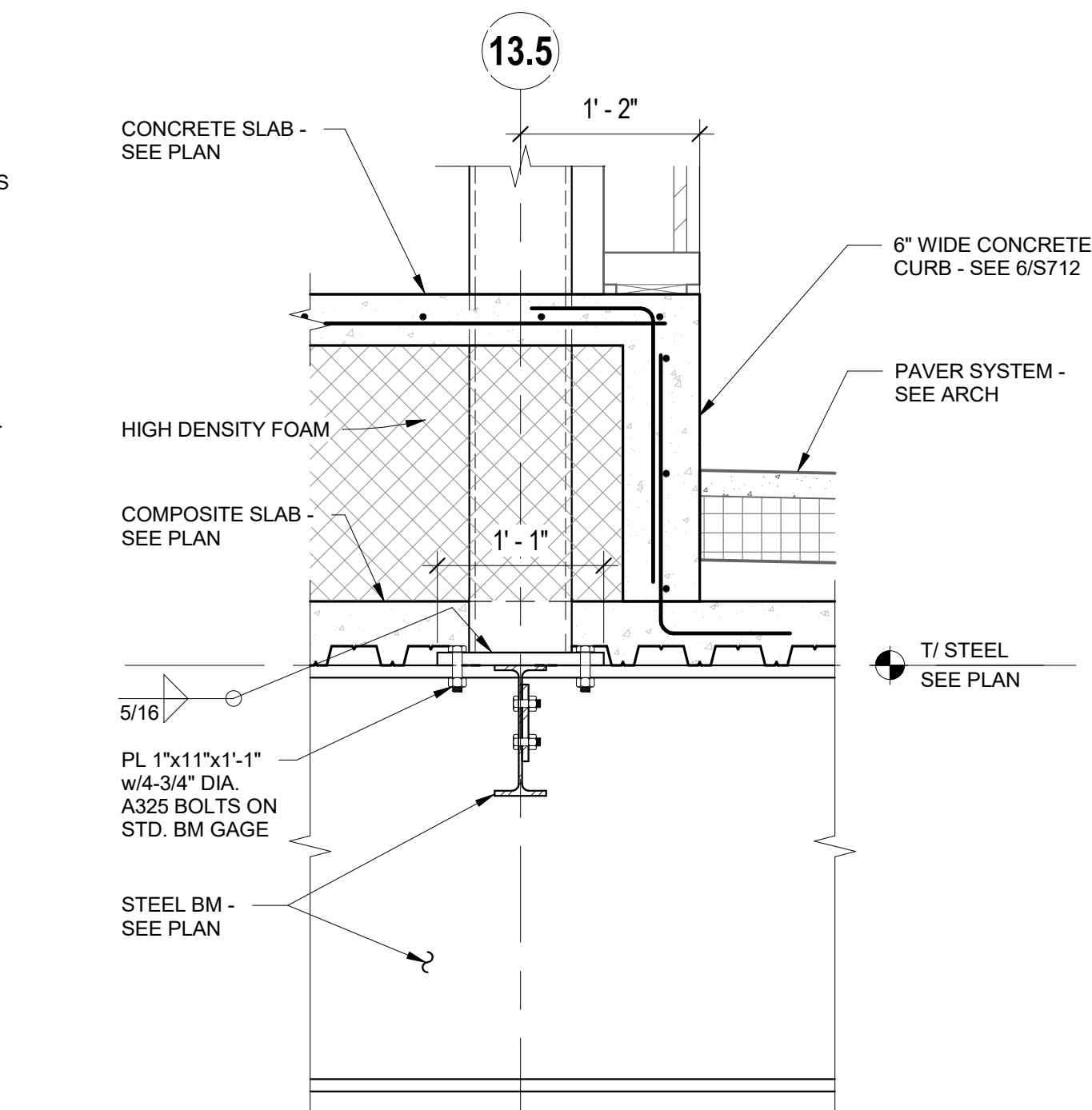


6 SECTION AT EVENT CENTER
3/4" = 1'-0"

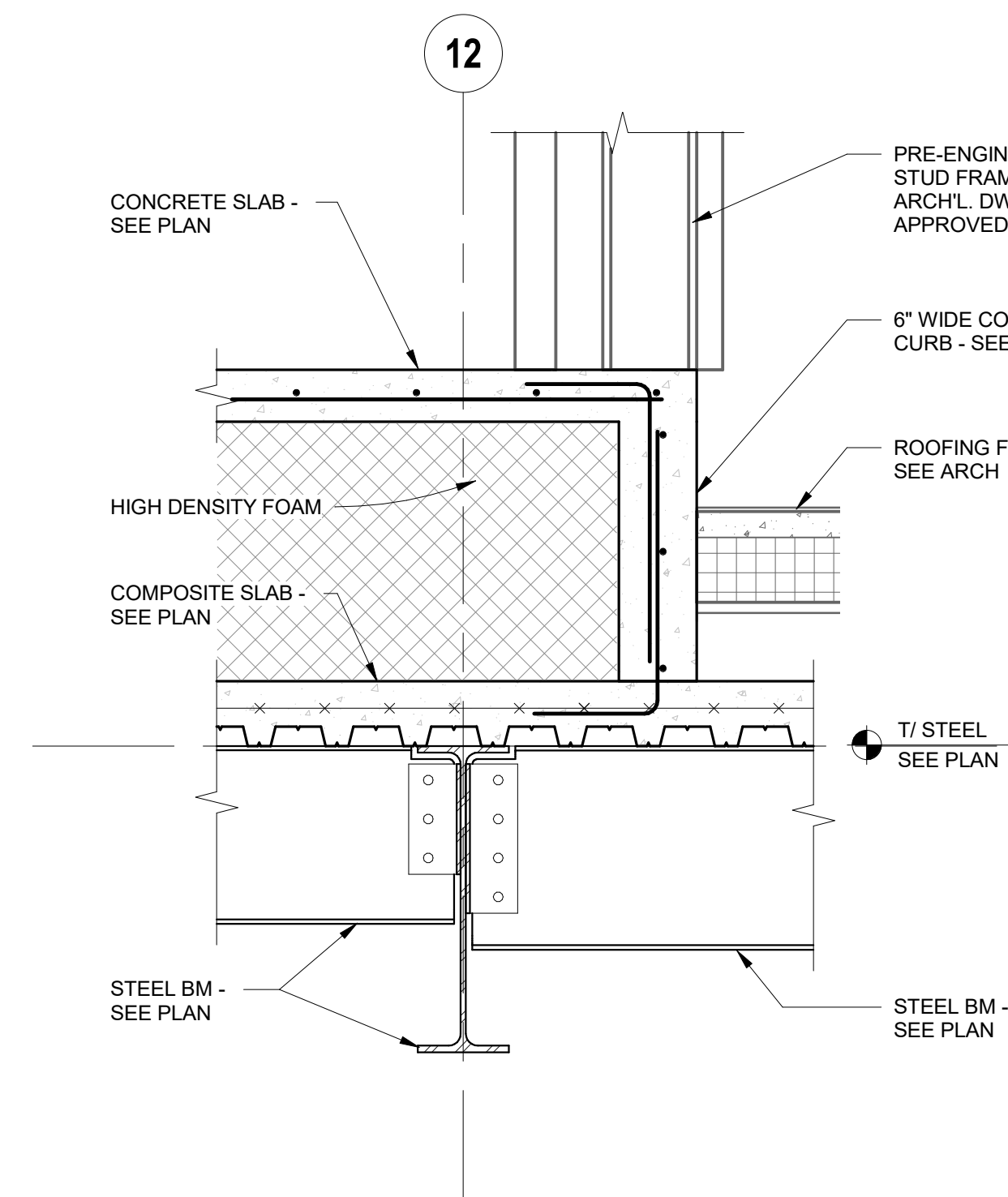
4 KICKER FOR CANTILEVER - EAST WEST
3/4" = 1'-0"



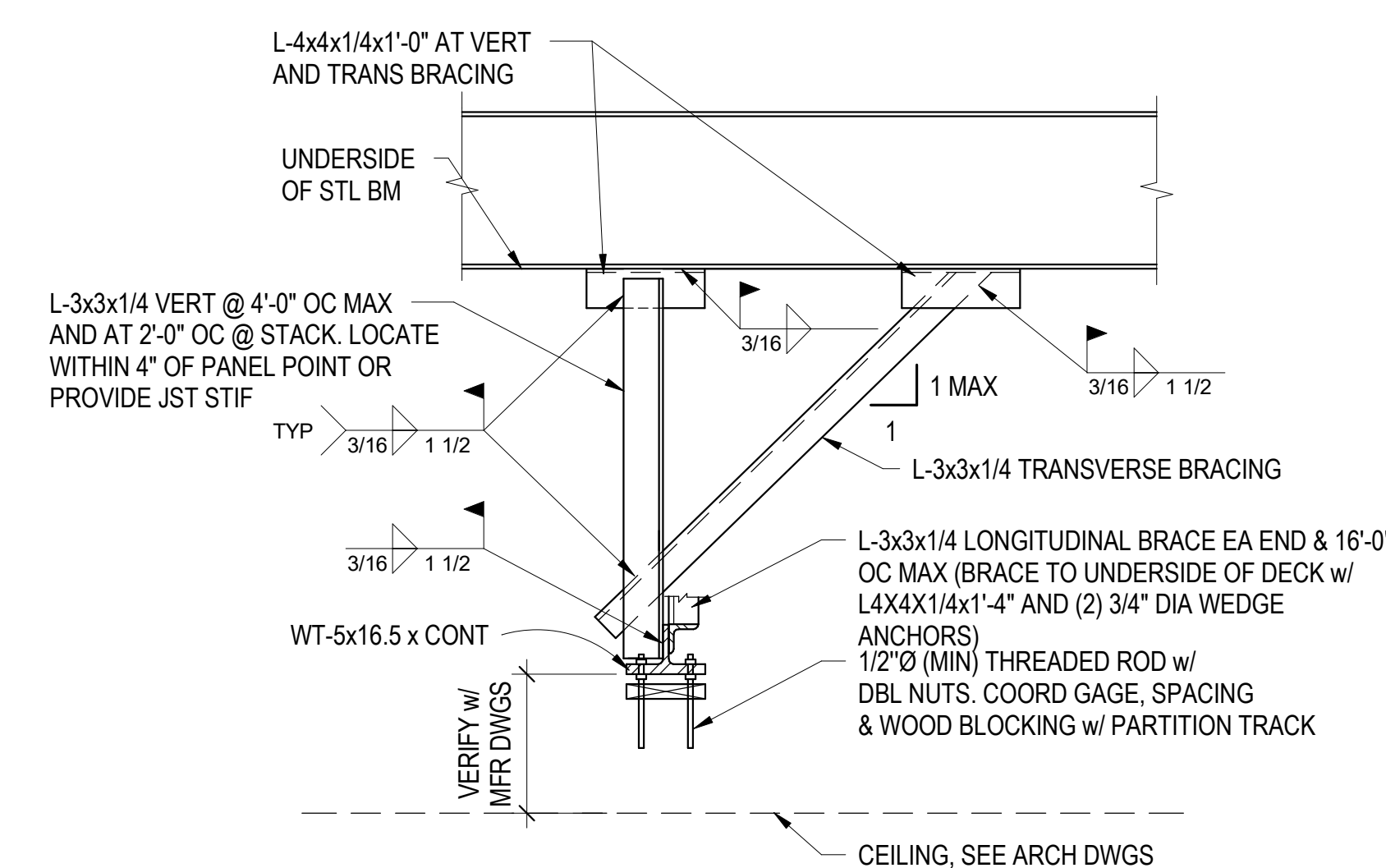
7 SECTION AT EVENT CENTER
1" = 1'-0"



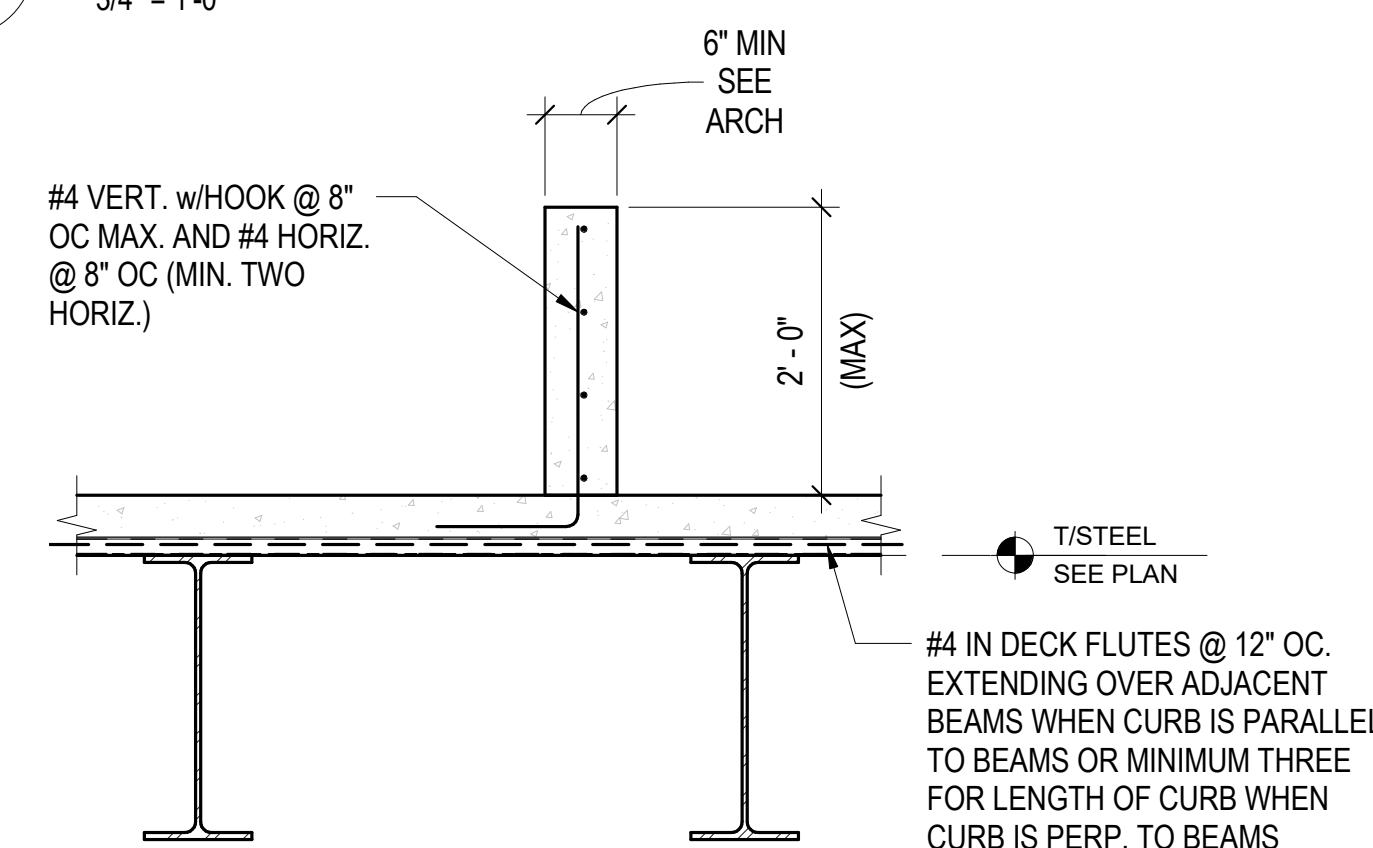
8 SECTION AT EVENT CENTER
1" = 1'-0"



9 SECTION AT EVENT CENTER
1" = 1'-0"



10 FOLDING PARTITION SUPPORT AT BEAM
3/4" = 1'-0"



11 SECTION AT PLANTER CURBS
3/4" = 1'-0"

TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 633, FLORIDA STATUTES.

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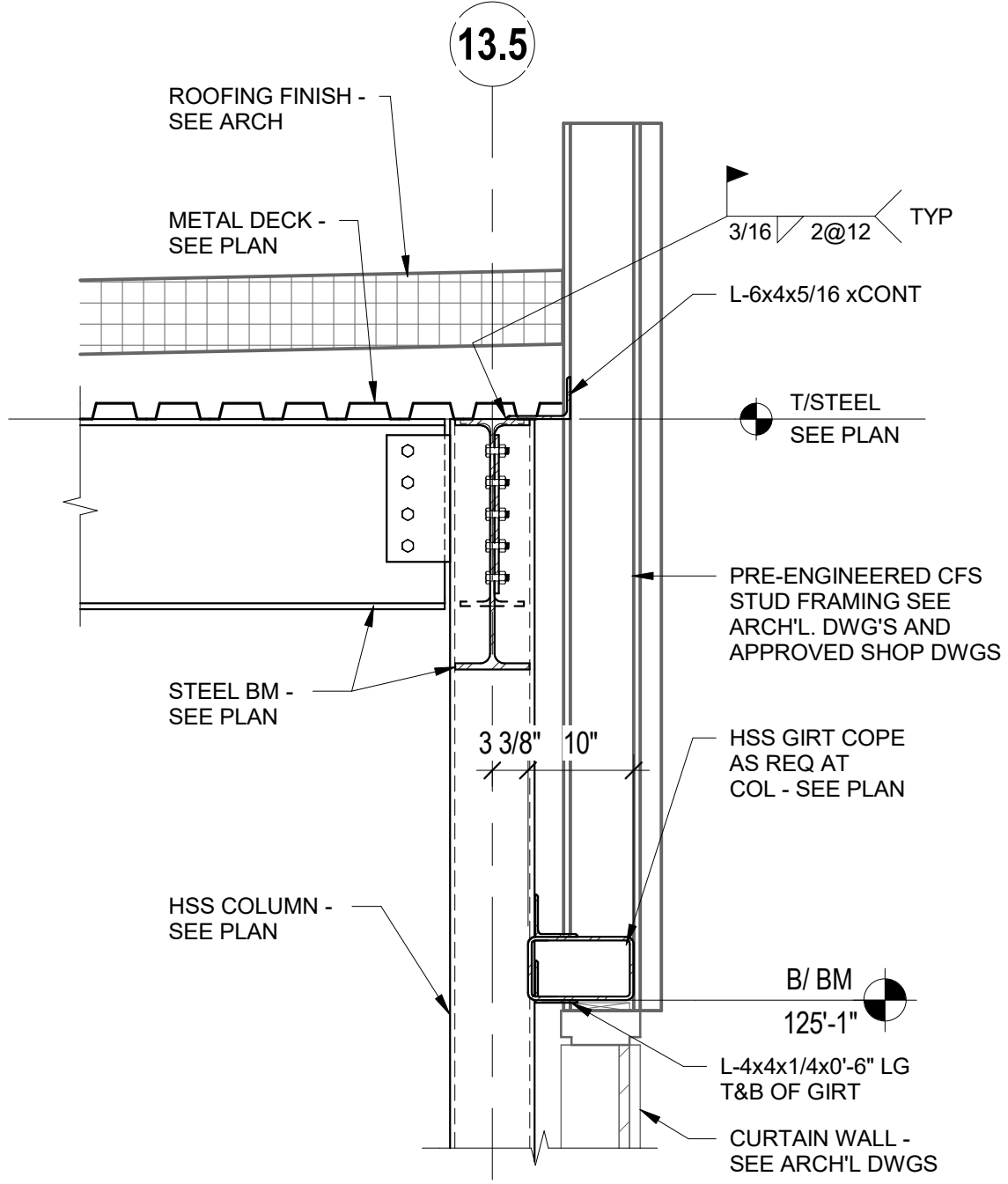
FRAMING SECTIONS & DETAILS

PROJ. NO. E-16078.00 SHEET
DRAWN DLL

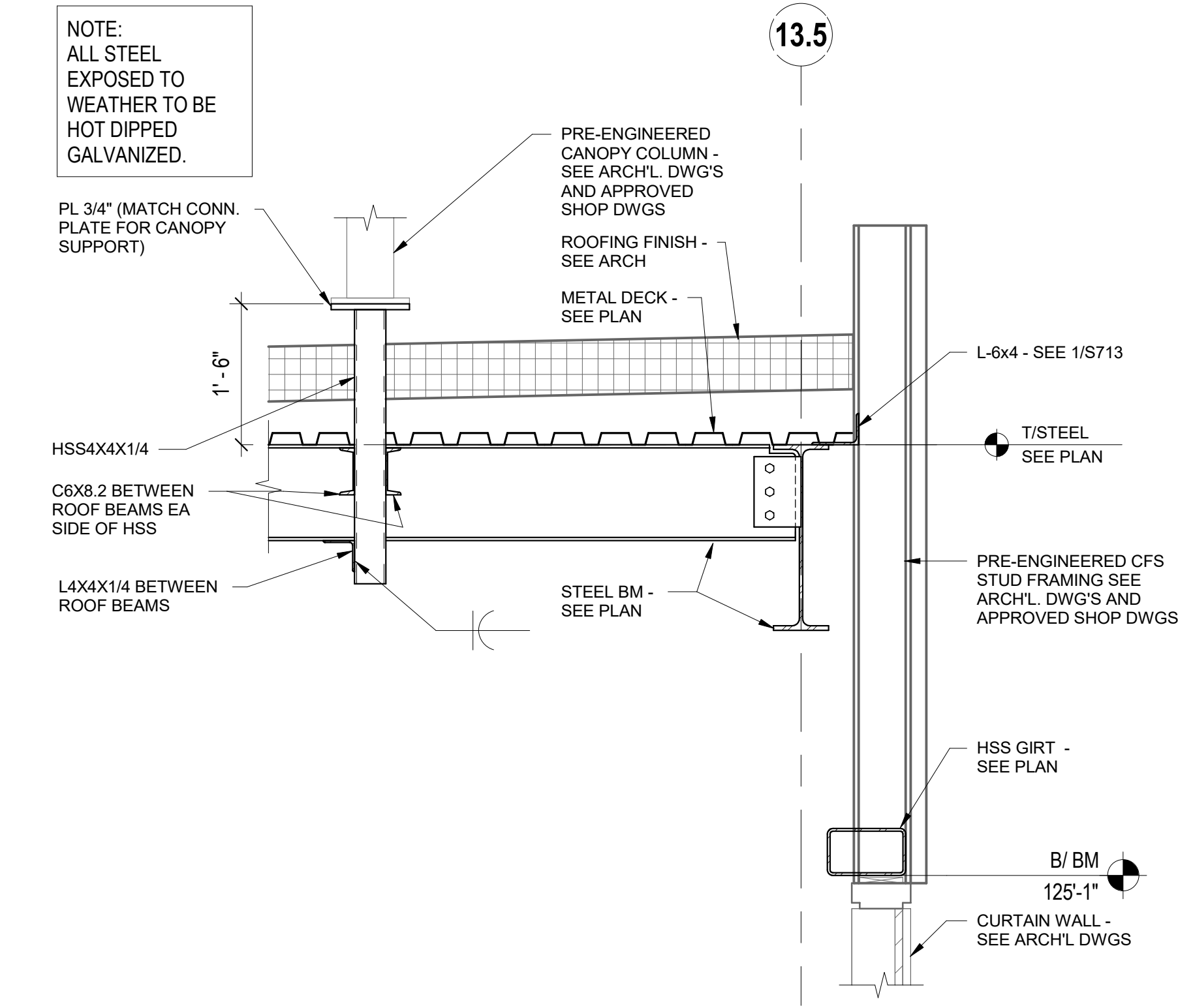
S712

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

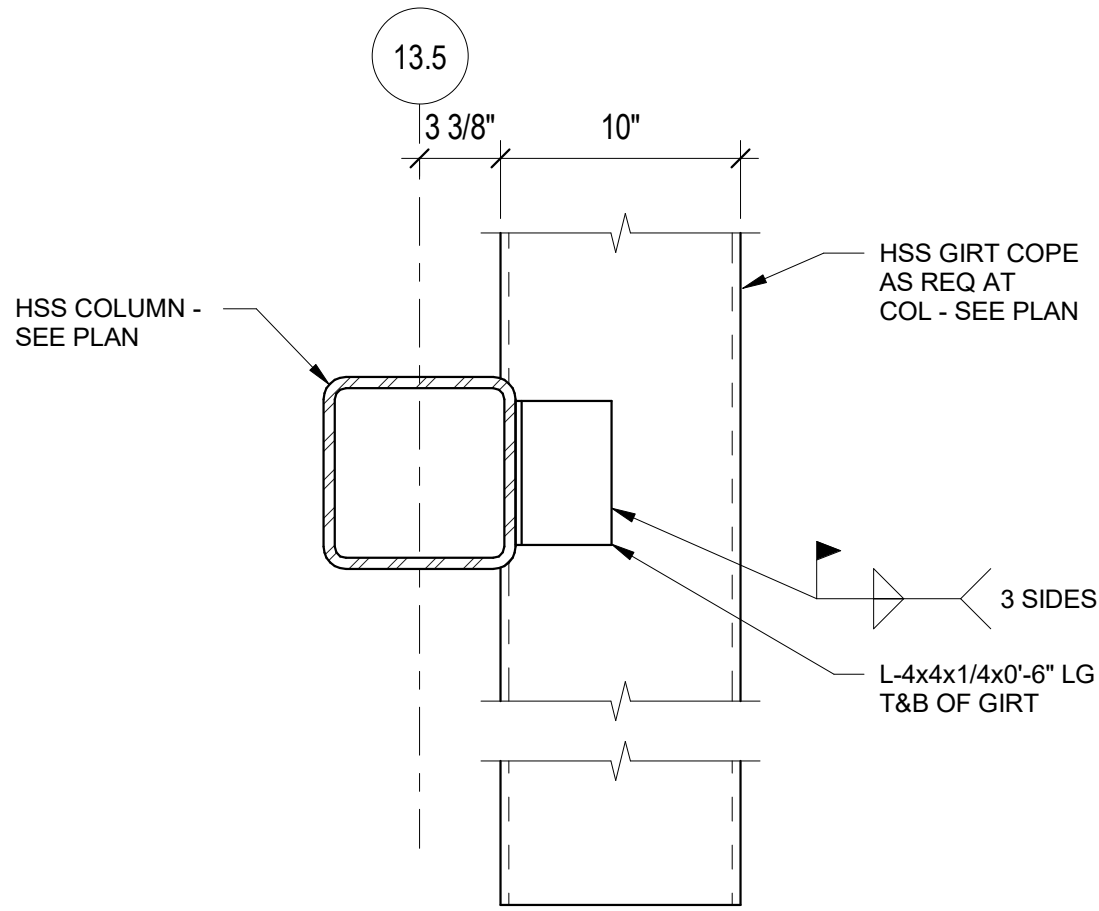
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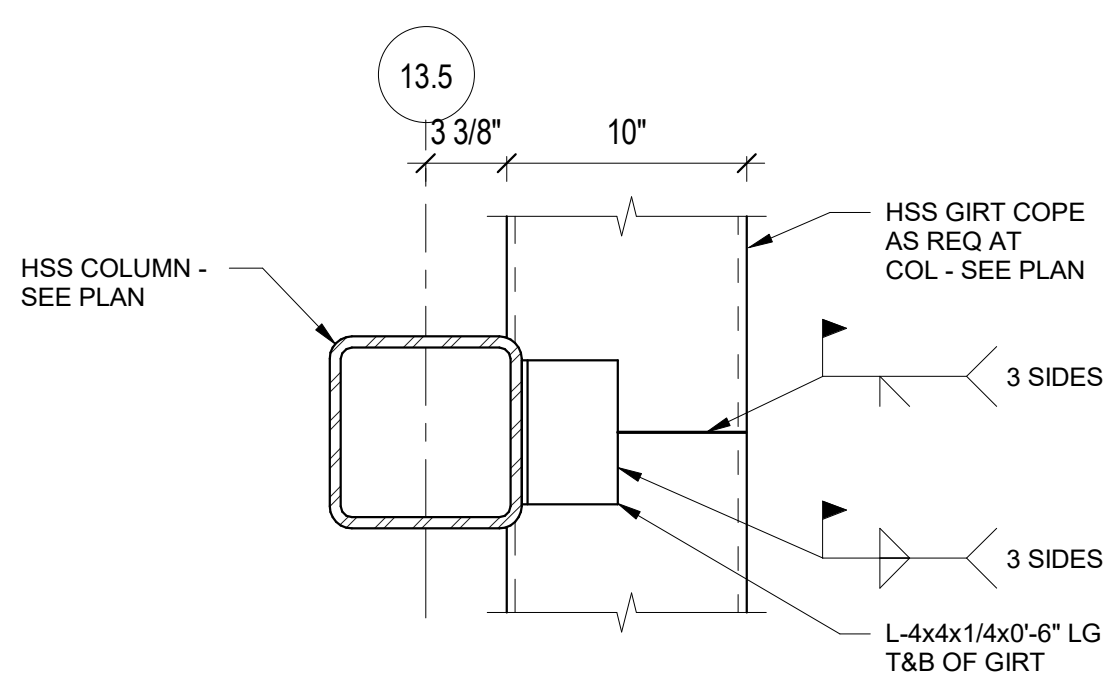
1 EVENT CENTER CURTAIN WALL SUPPORT
3/4" = 1'-0"



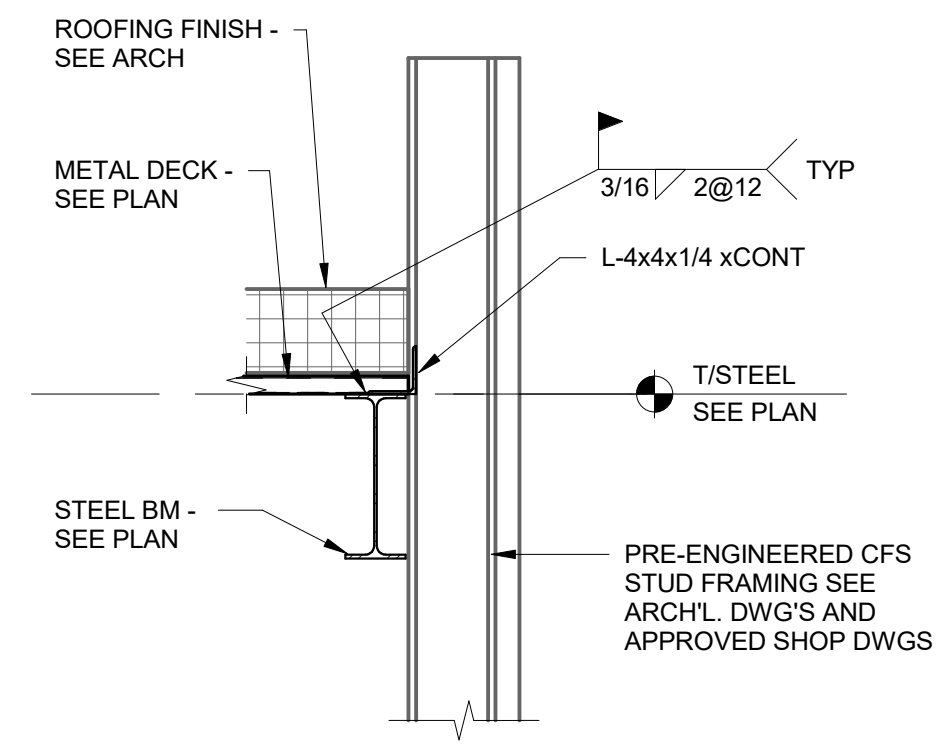
6 SECTION AT CANOPY COLUMN
3/4" = 1'-0"



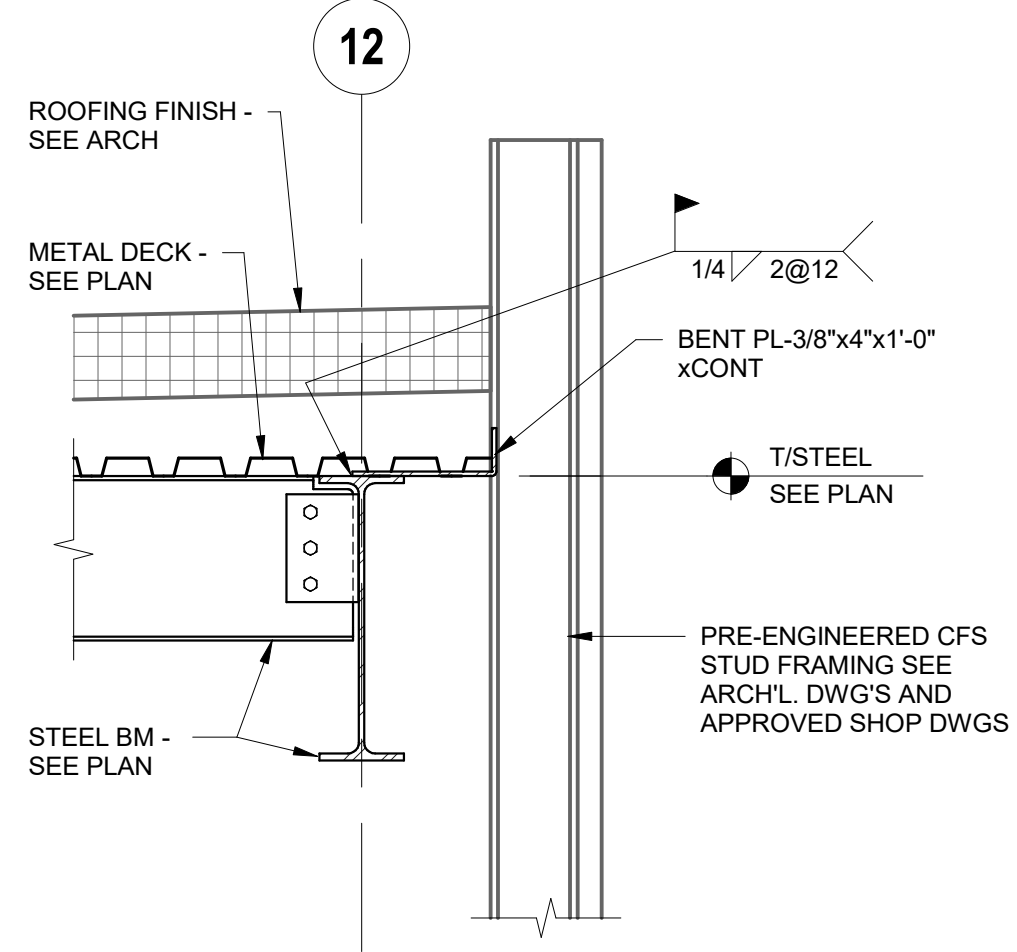
3 GIRT AT COLUMN
1 1/2" = 1'-0"



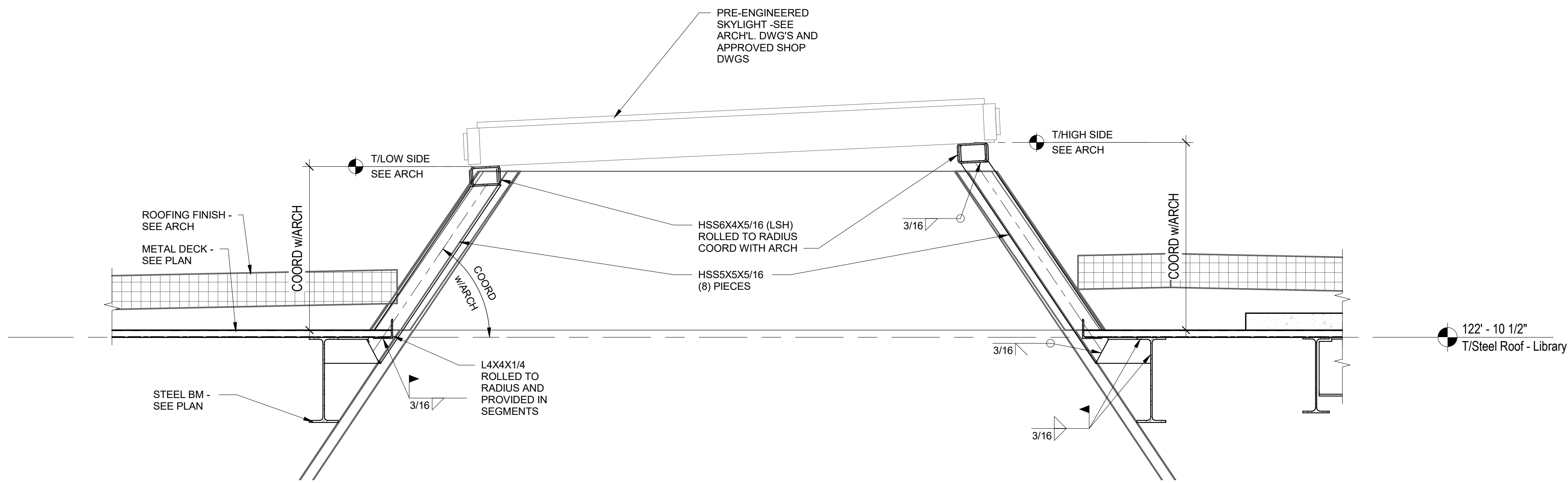
2 GIRT AT SPLICE
1 1/2" = 1'-0"



4 SECTION AT EVENT CENTER
3/4" = 1'-0"



5 SECTION AT EVENT CENTER
3/4" = 1'-0"



7 SECTION AT LIBRARY SKYLIGHT
3/4" = 1'-0"

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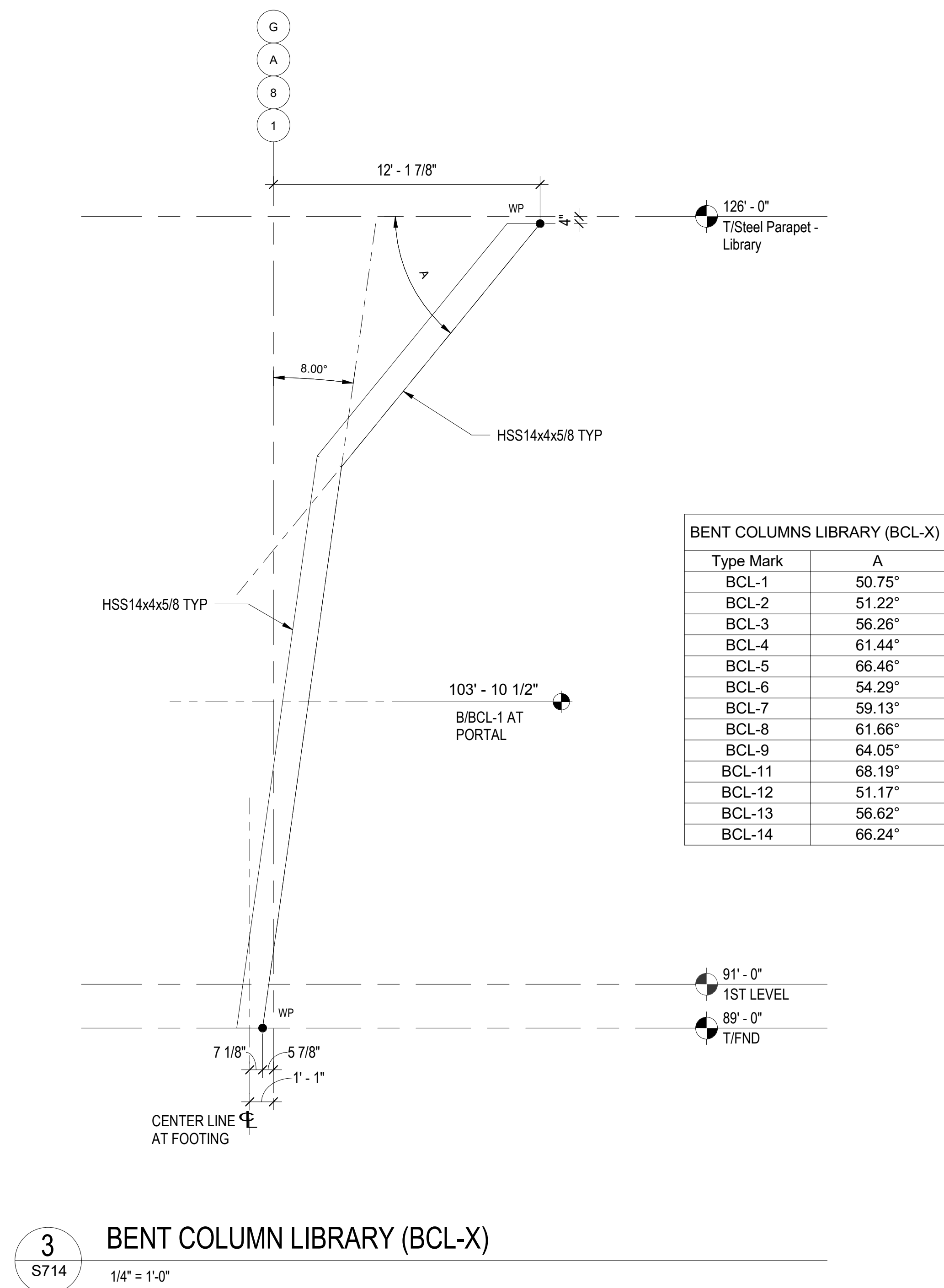
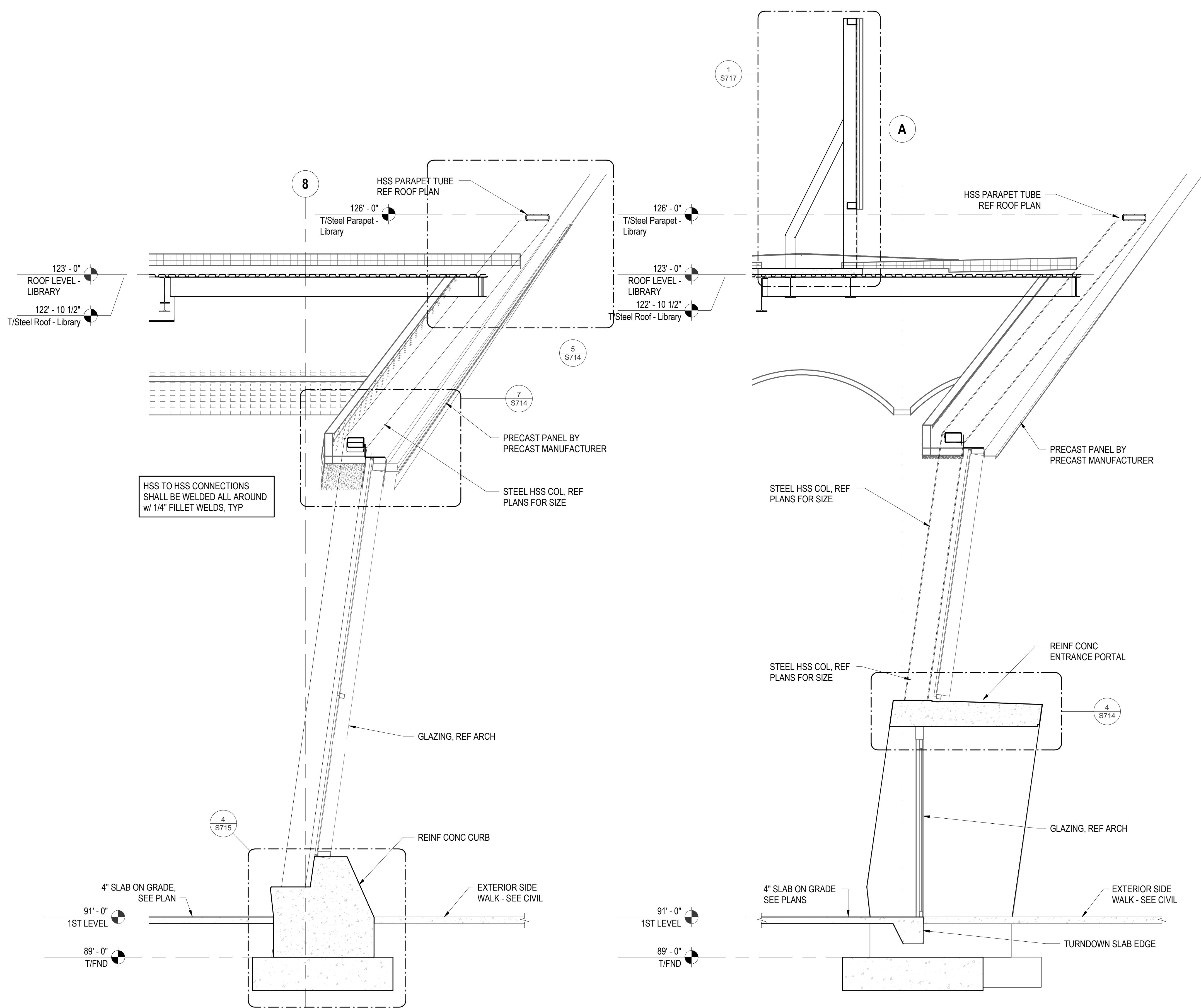
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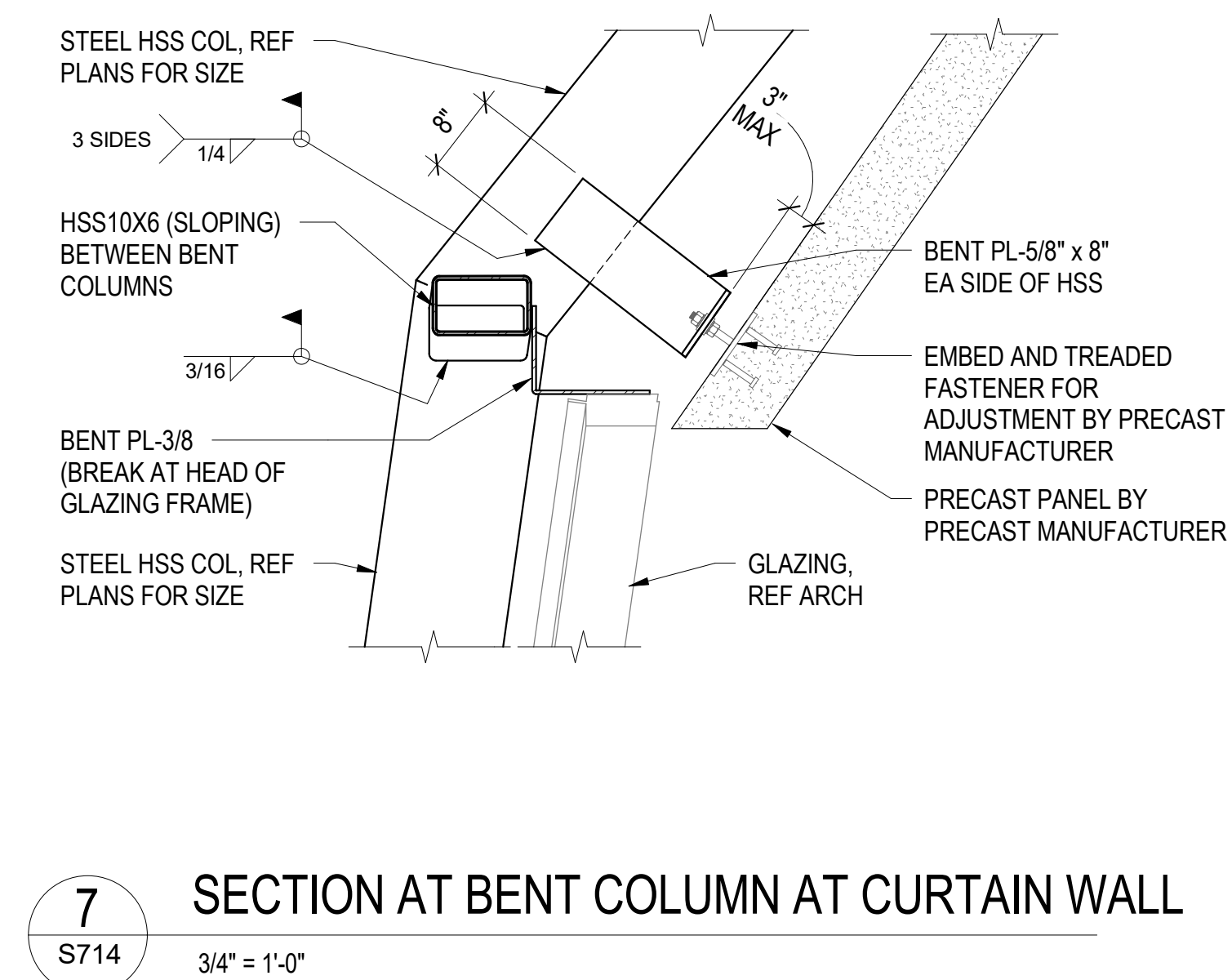
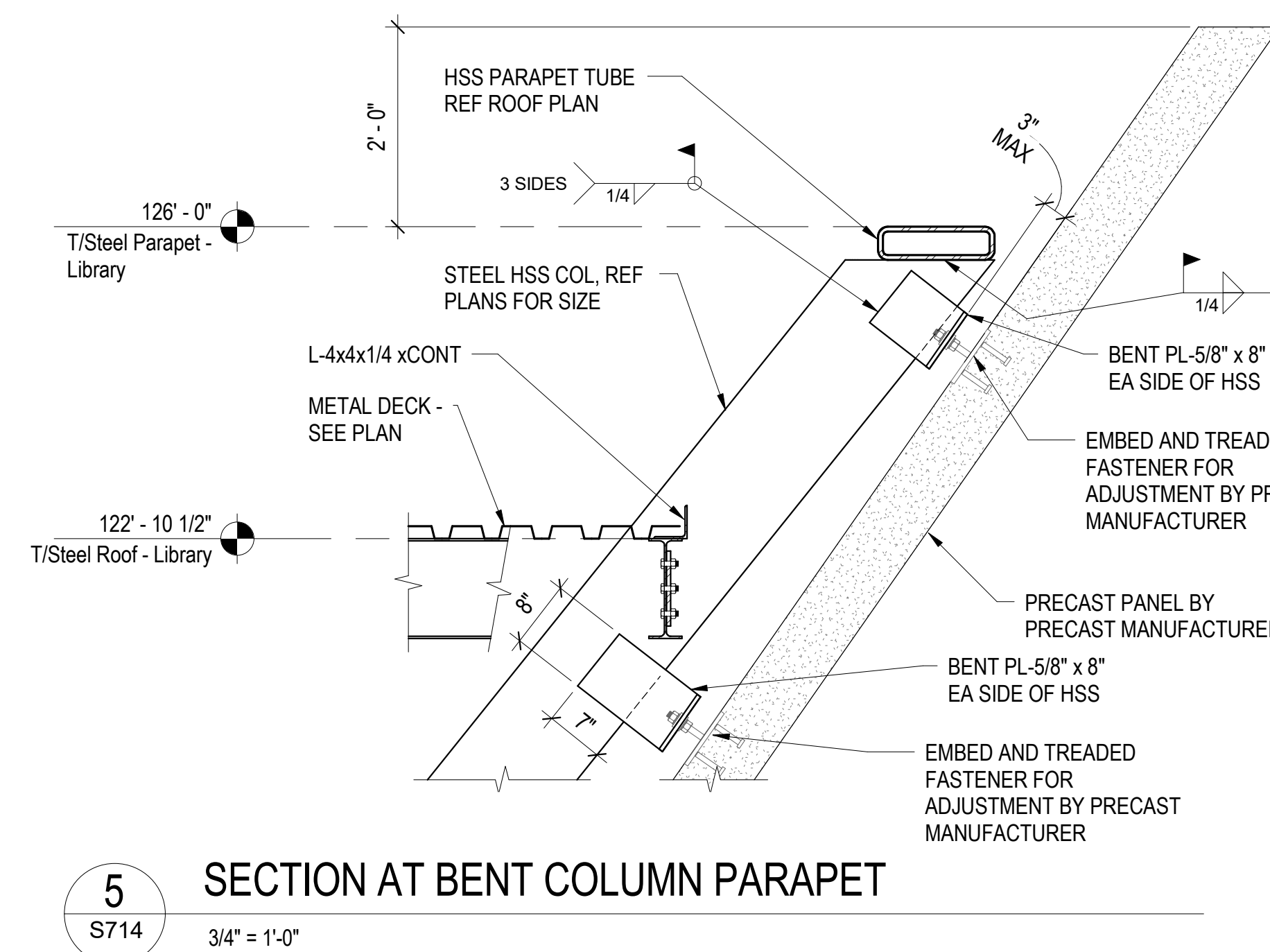
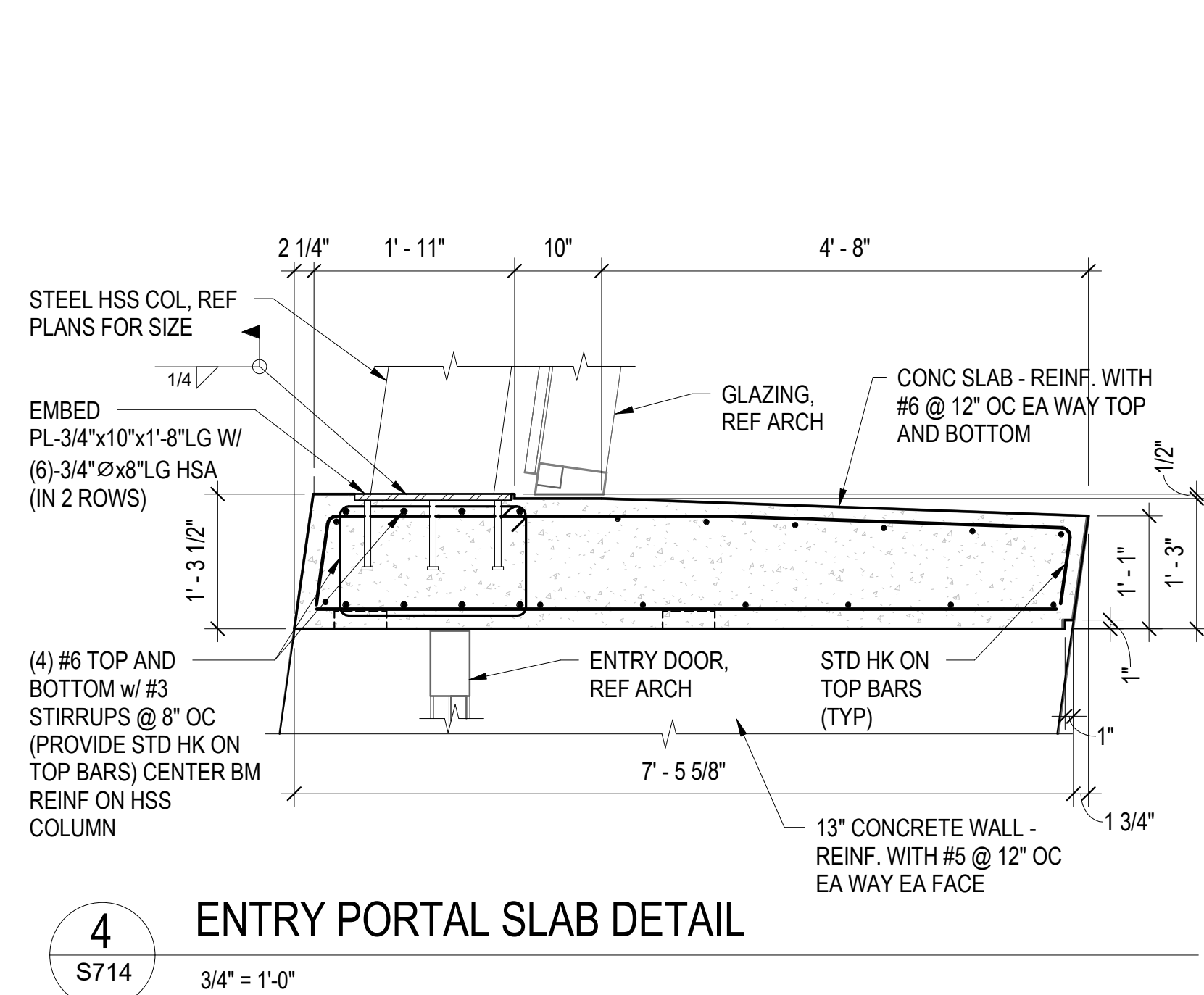
FRAMING SECTIONS & DETAILS

PROJ. NO. E-16078.00 SHEET
DRAWN DLL
S713

TO THE BEST OF THE STRUCTURAL ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM CODES AS DETERMINED BY LOCAL AUTHORITY IN ACCORDANCE WITH CHAPTER 633, FLORIDA STATUTES.



Type Mark	A
BCL-1	50.75°
BCL-2	51.22°
BCL-3	56.26°
BCL-4	61.44°
BCL-5	66.46°
BCL-6	54.29°
BCL-7	59.13°
BCL-8	61.66°
BCL-9	64.05°
BCL-11	68.19°
BCL-12	51.17°
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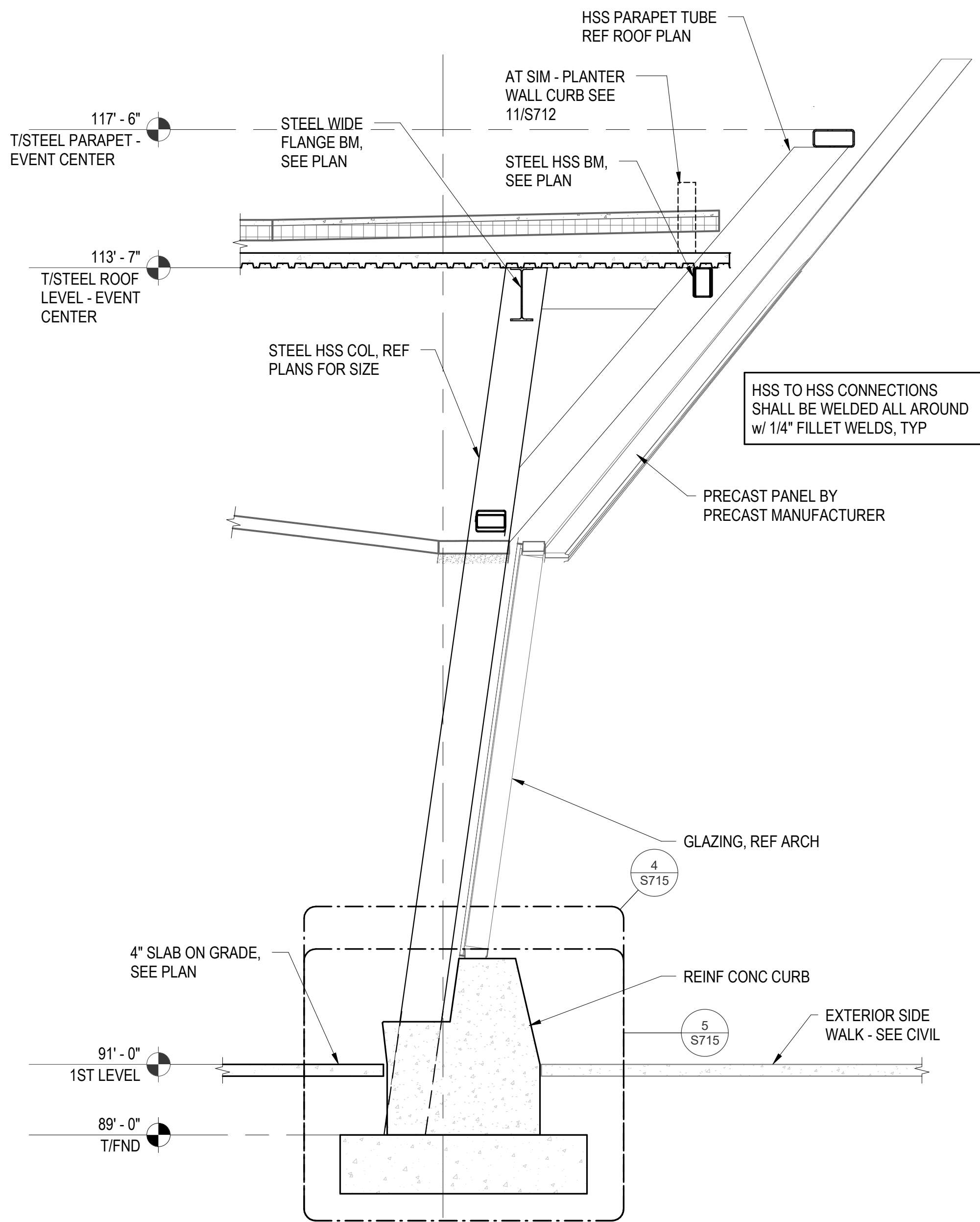
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FRAMING SECTIONS & DETAILS

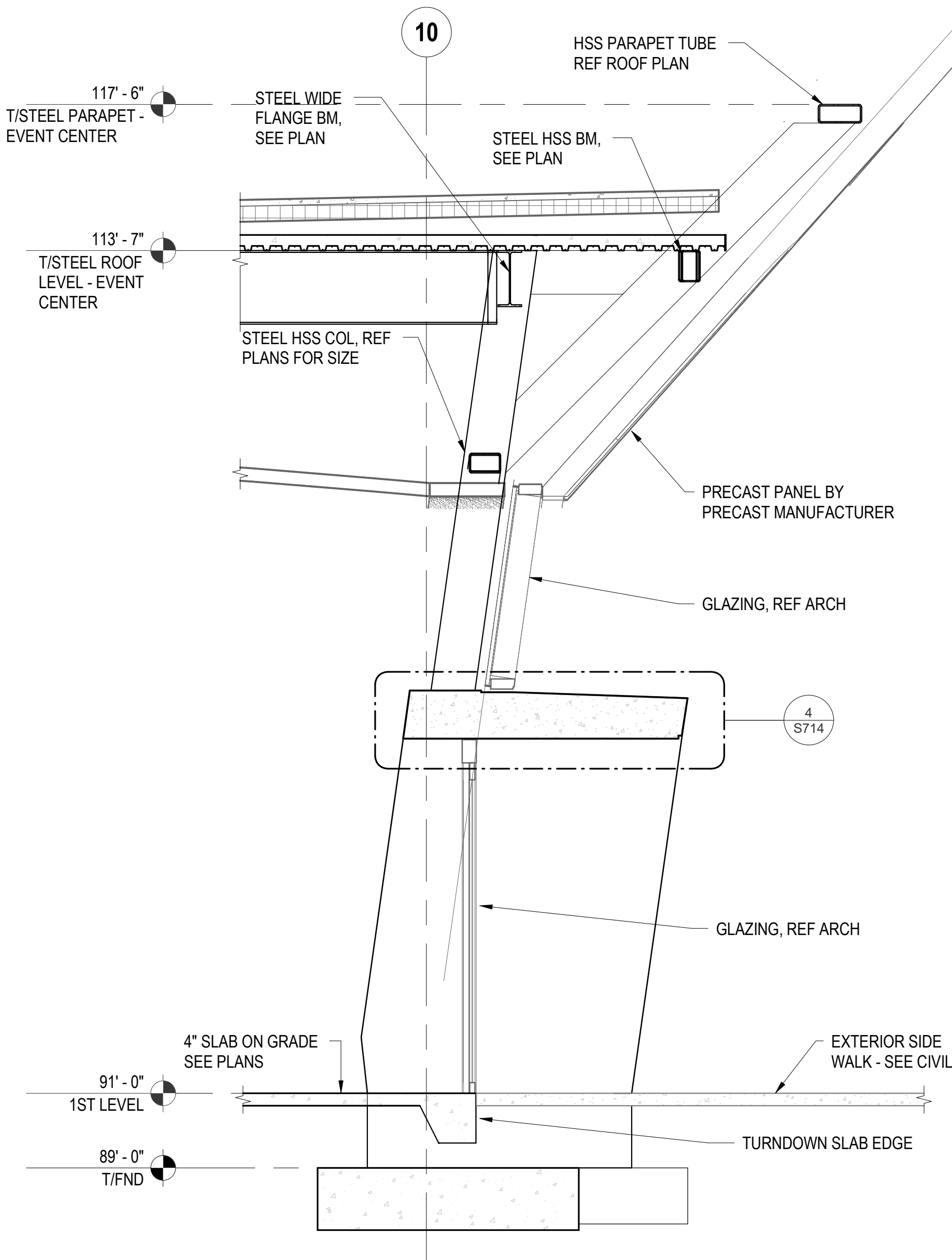
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DRAWN	DLL	

S714

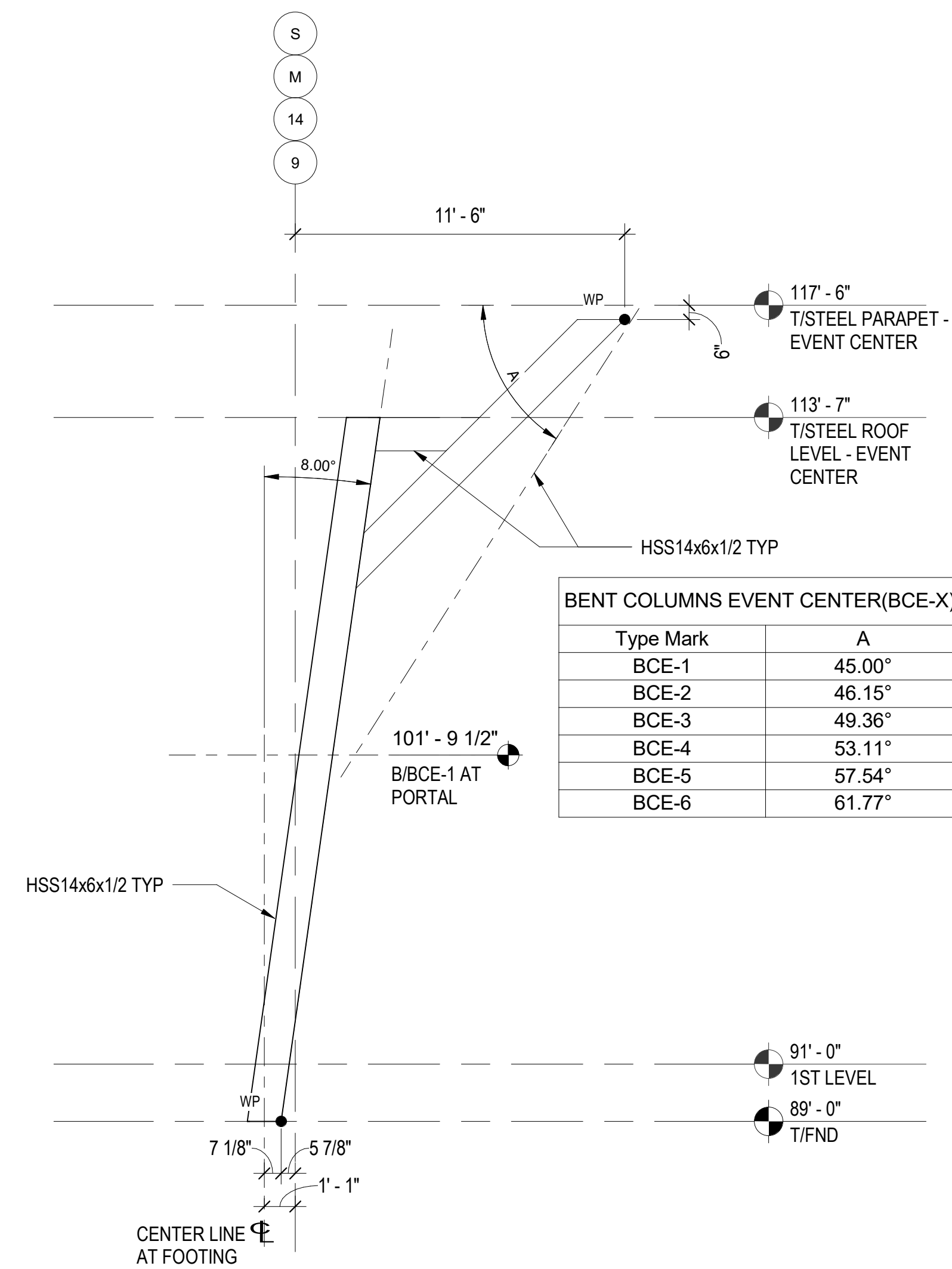
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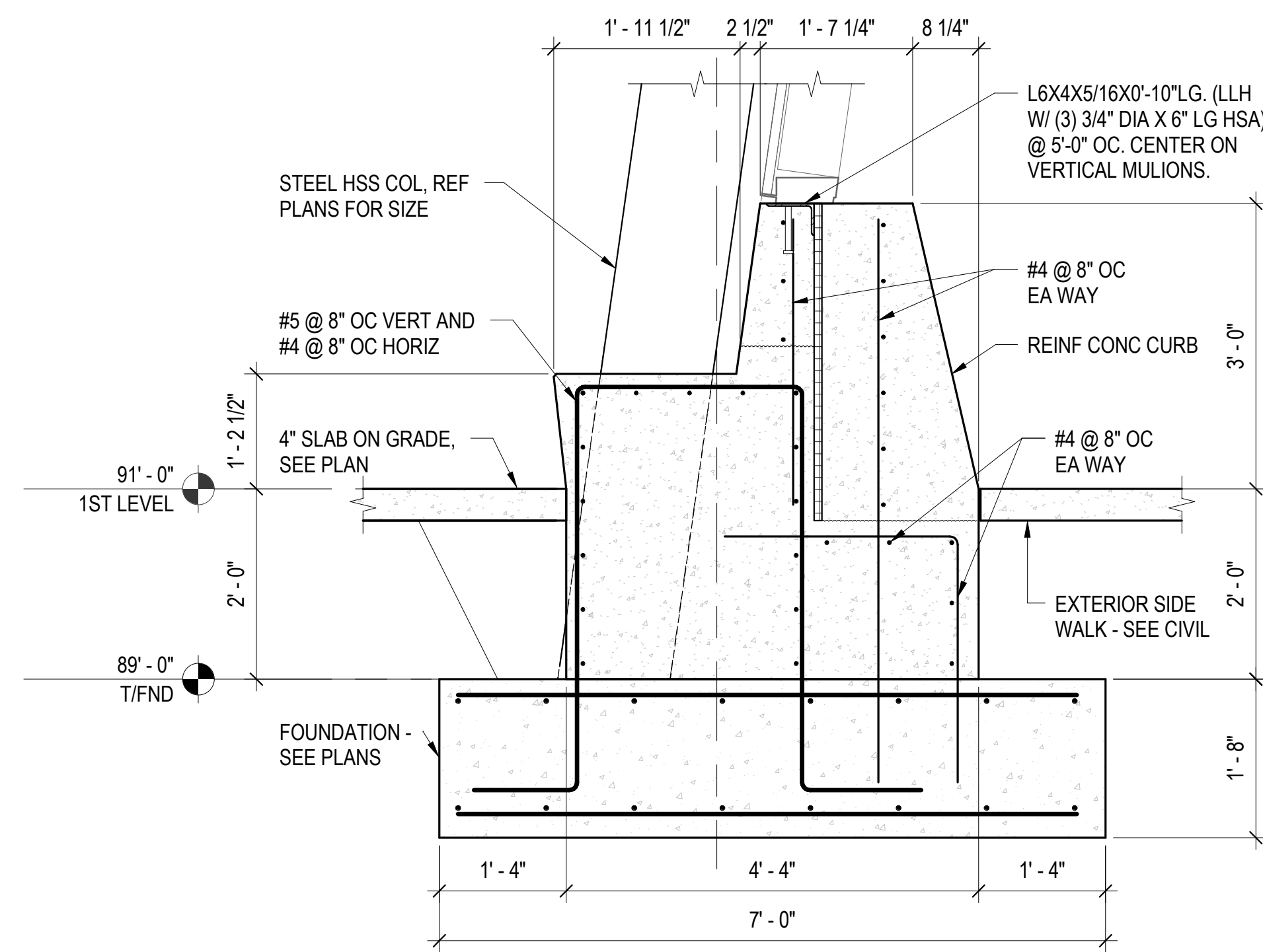
1
S715
EVENT CENTER FRAMING SECTION
3/8" = 1'-0"



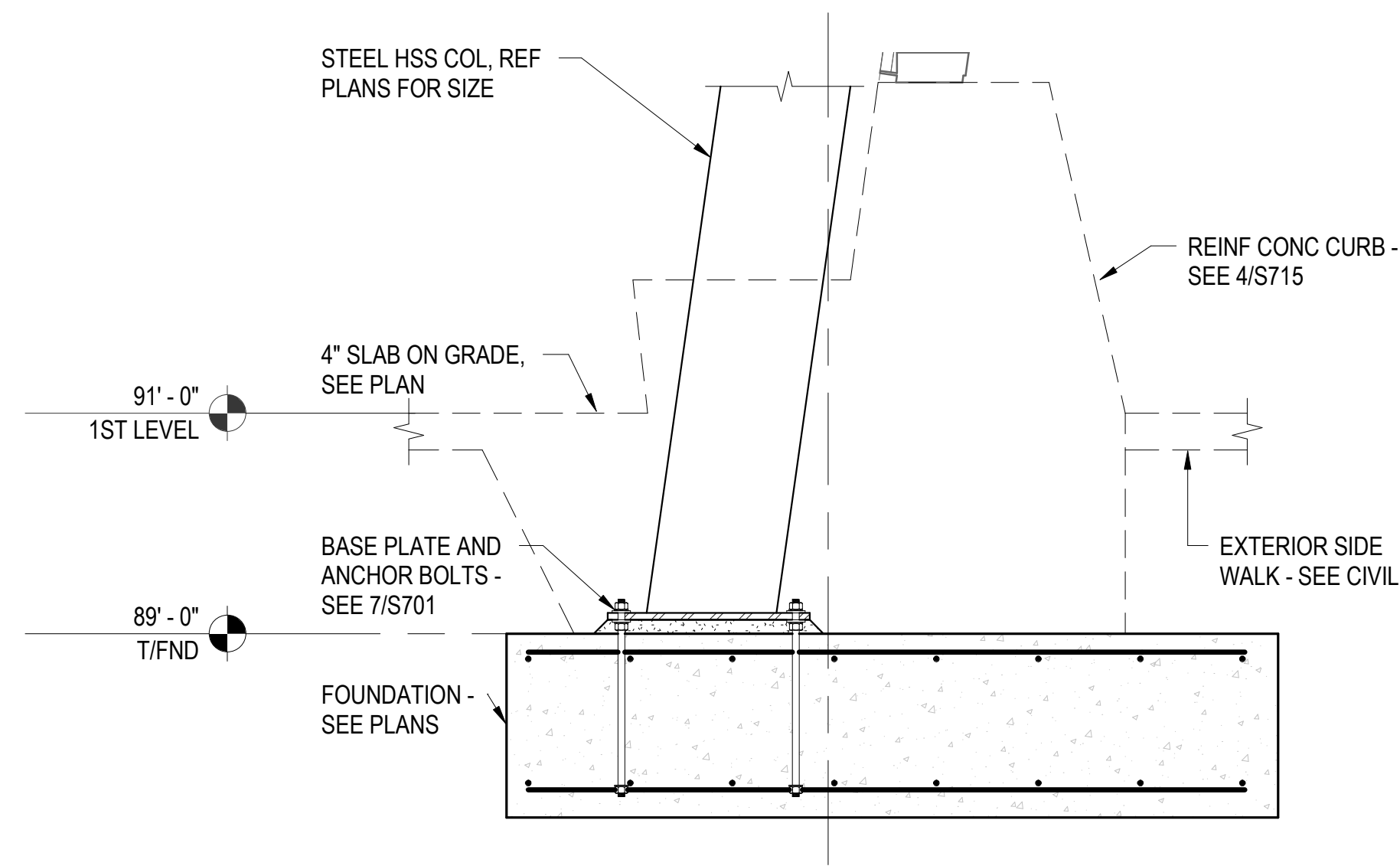
2
S715
EVENT CENTER FRAMING SECTION @ PORTAL
3/8" = 1'-0"



3
S715
BENT COLUMN EVENT CENTER (BCE-X)
1/4" = 1'-0"



4
S715
REINFORCED CONCRETE CURB DETAIL
3/4" = 1'-0"



5
S715
SLOPED COLUMN AT FOUNDATION DETAIL
3/4" = 1'-0"

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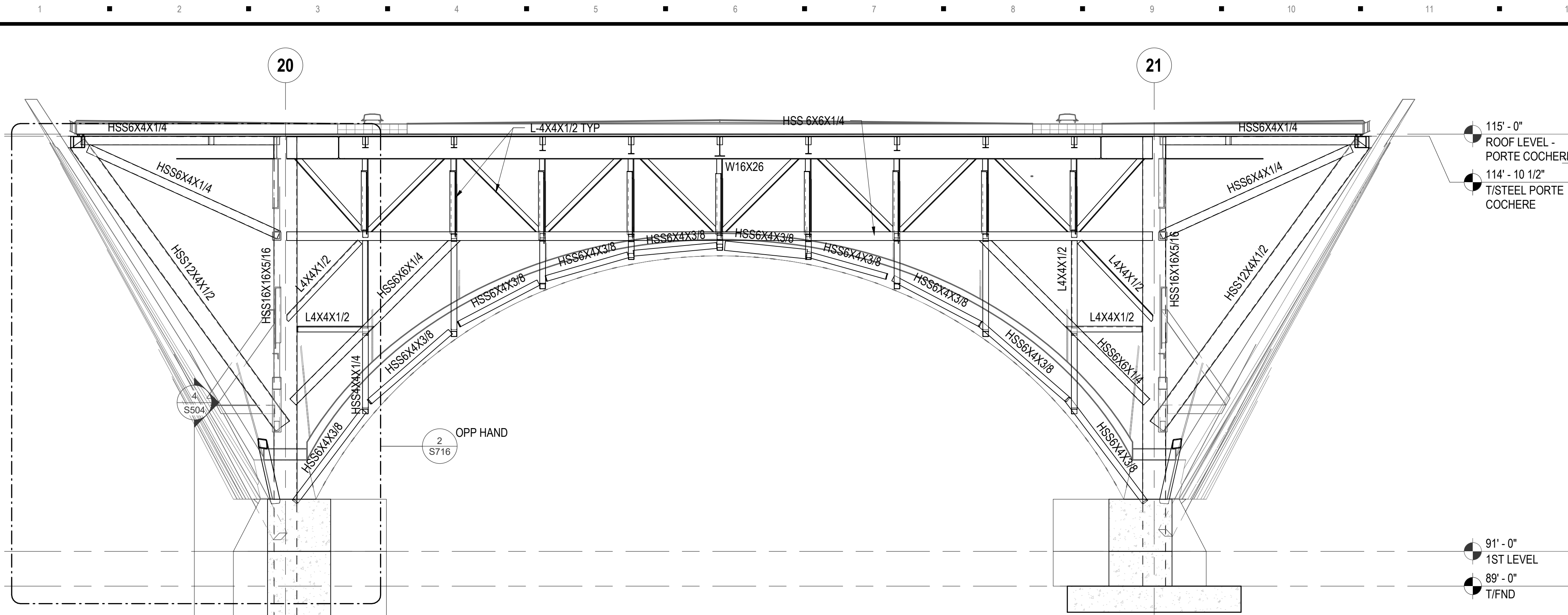
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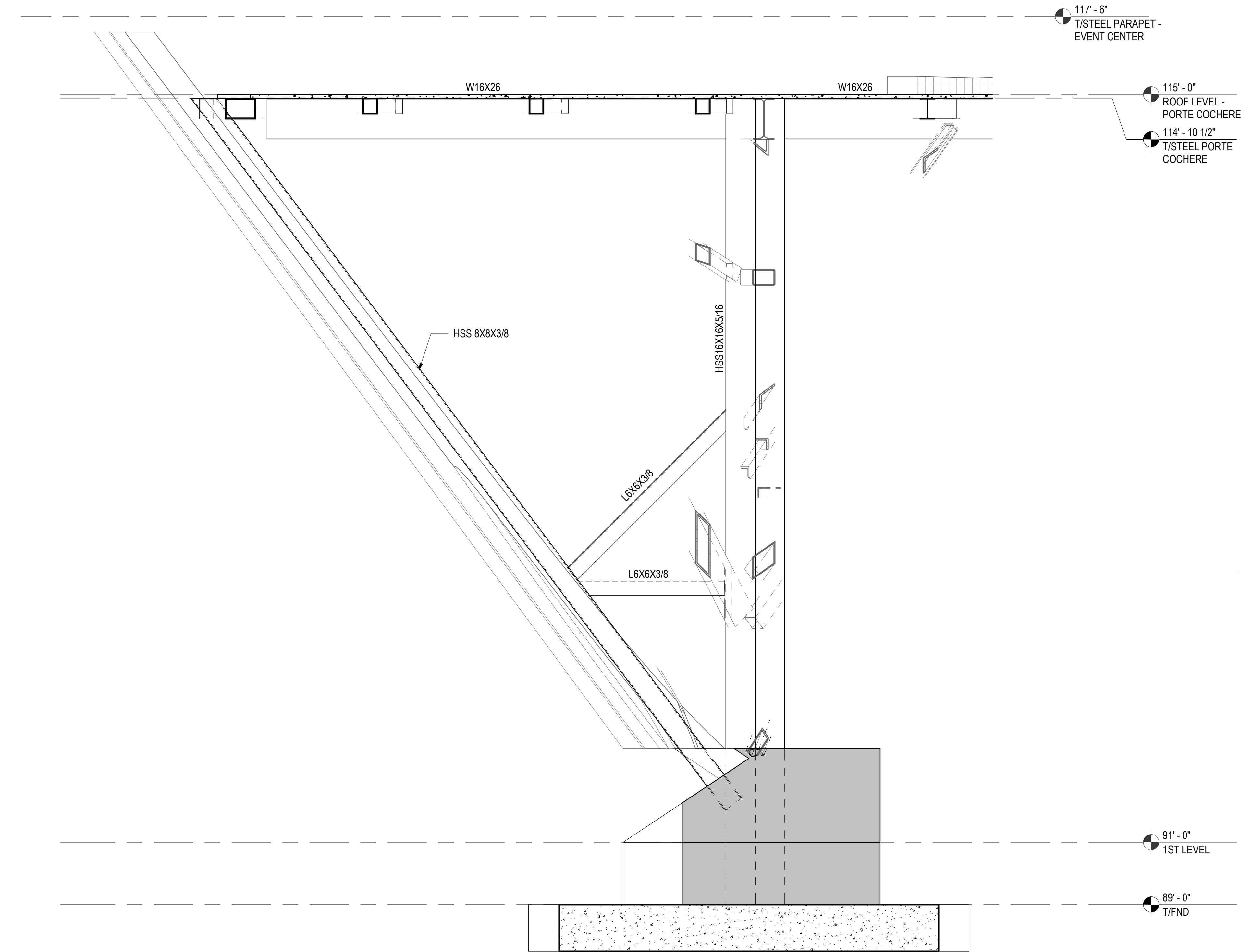
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FRAMING SECTIONS & DETAILS

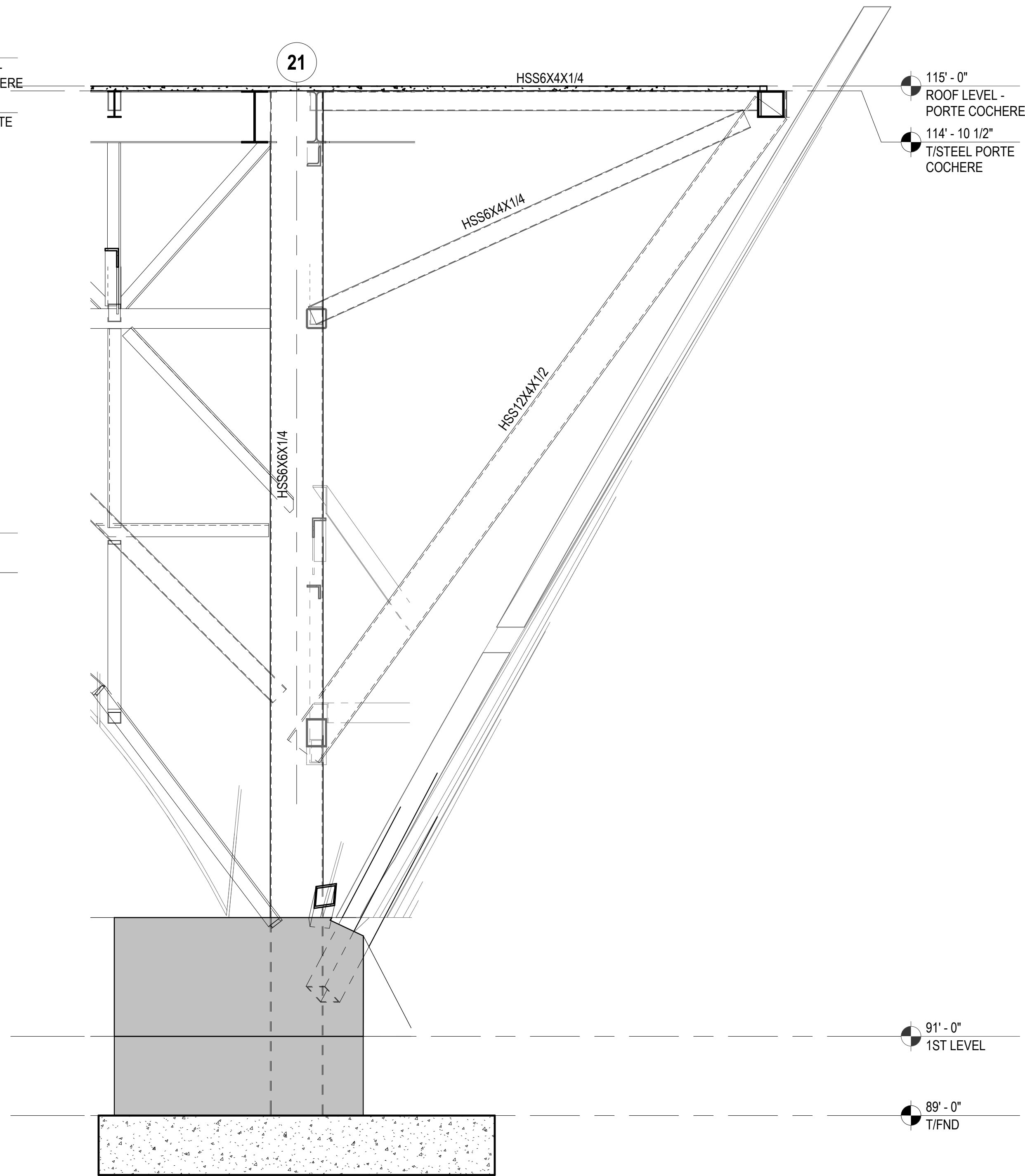
PROJ. NO. E-16078.00 SHEET
DRAWN DLL
S715



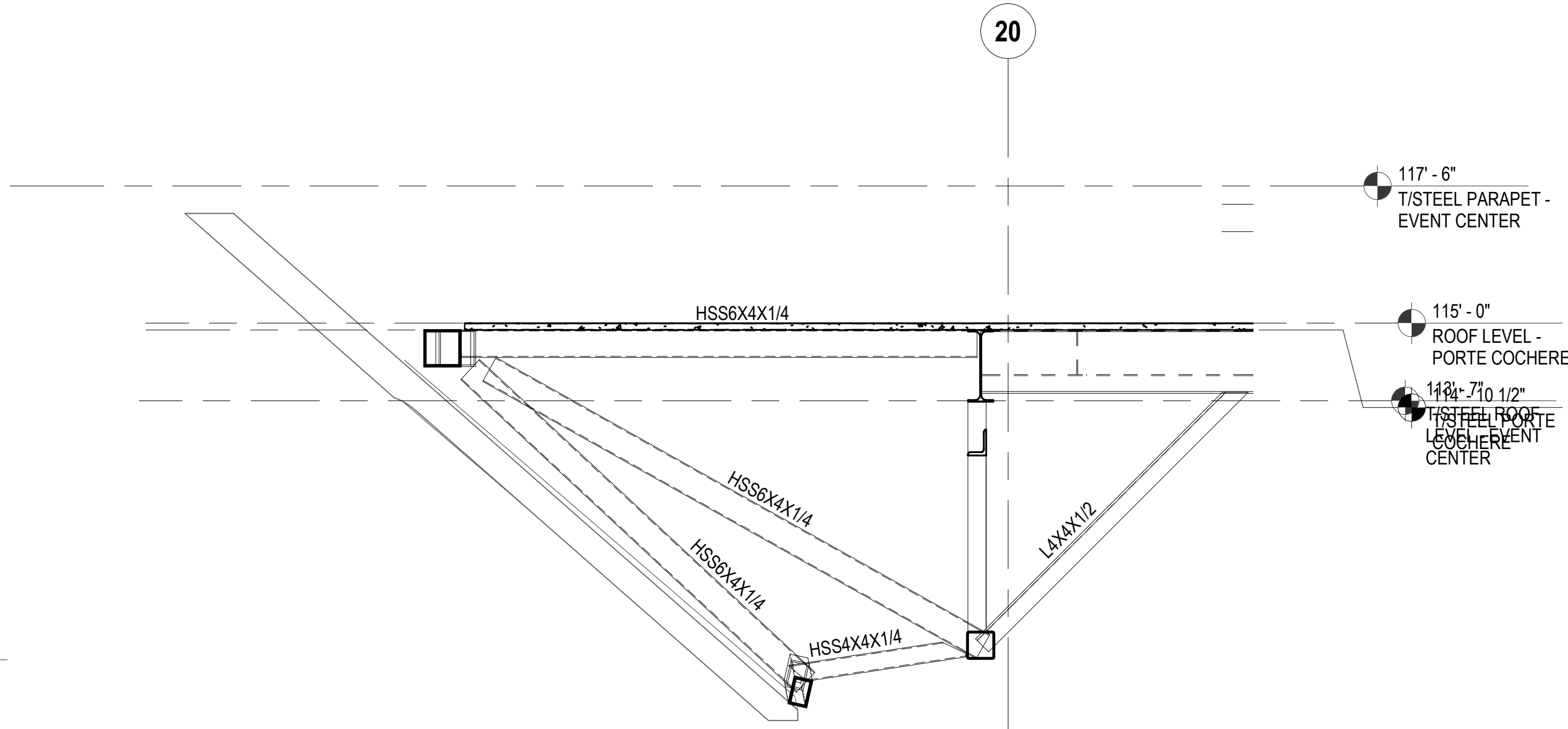
1 PORTE COCHERE FRAMING SECTION
1/4" = 1'-0"



3 ELEVATION @ PORTE COCHERE
1/2" = 1'-0"



2 PORTE COCHERE FRAMING SECTION
1/2" = 1'-0"



4 ELEVATION @ PORTE COCHERE
1/2" = 1'-0"

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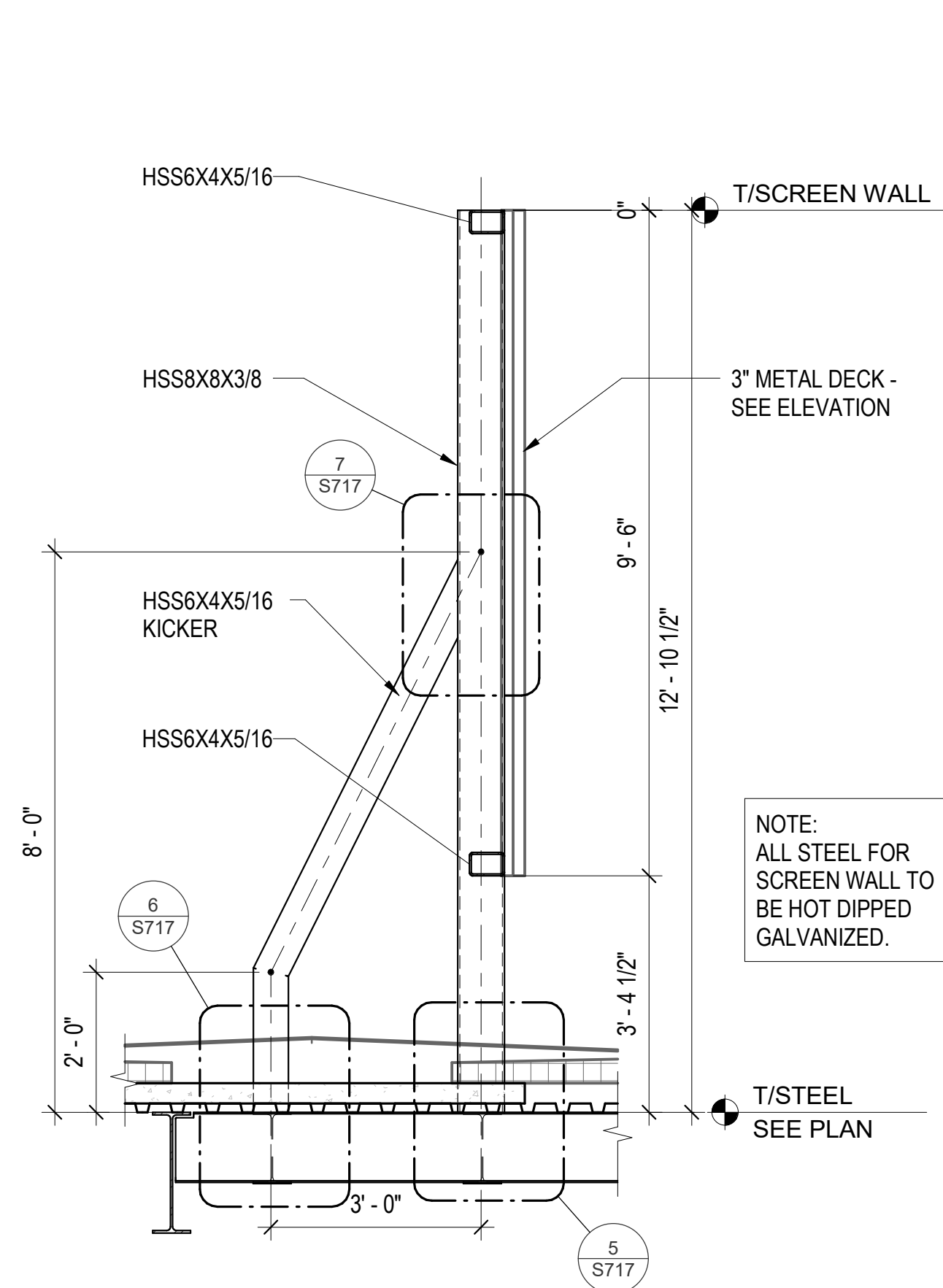
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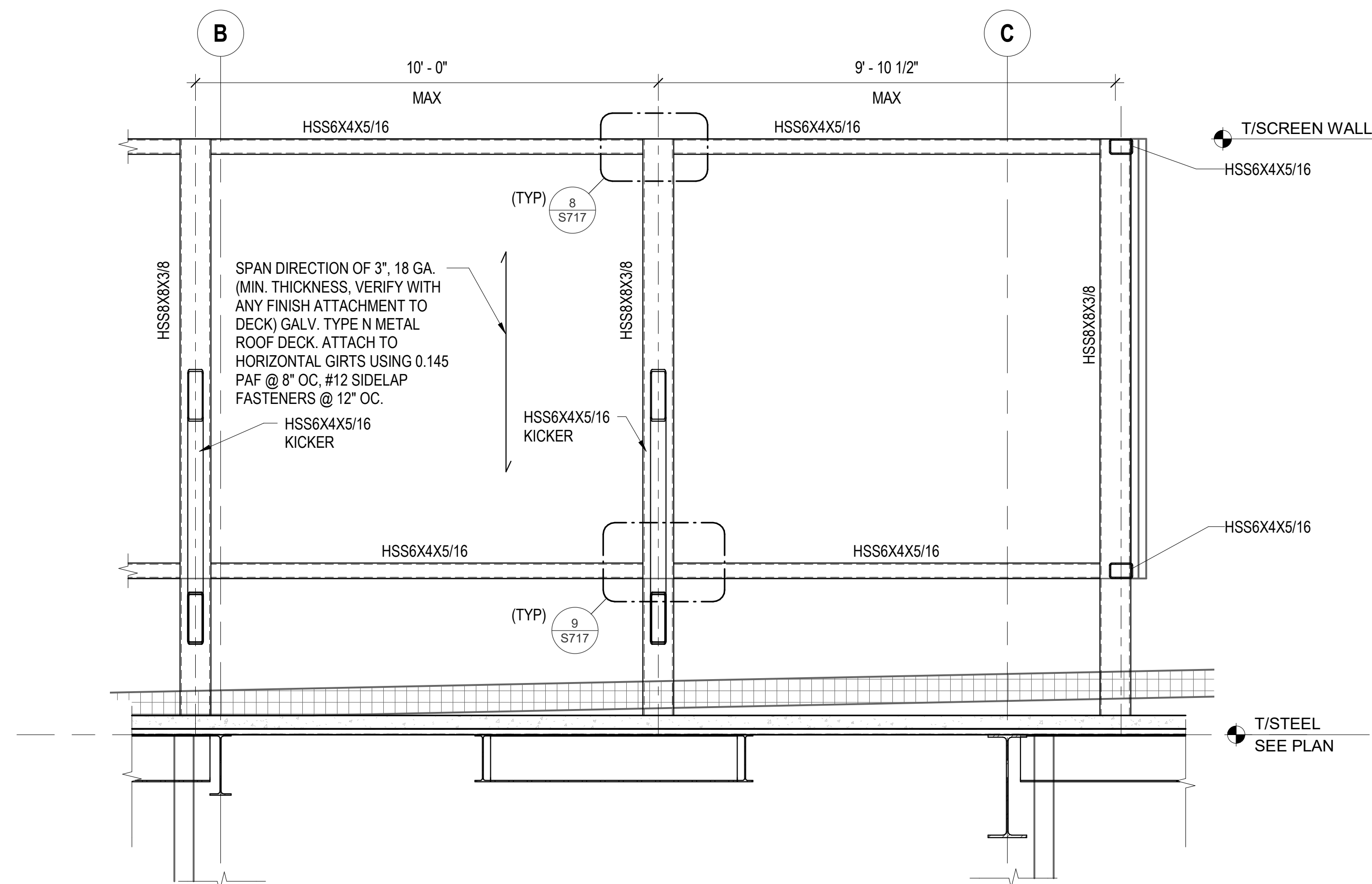
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S716

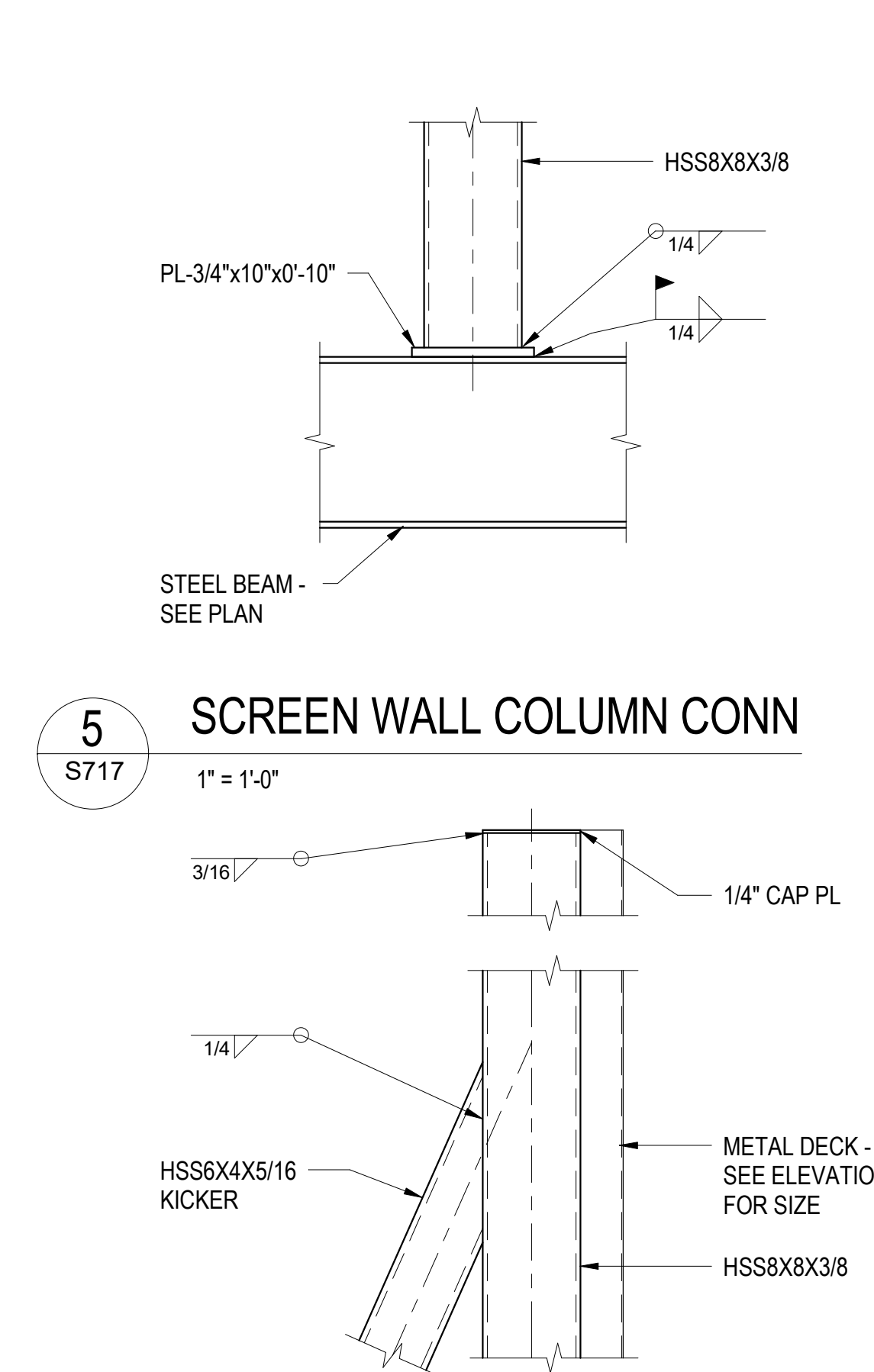
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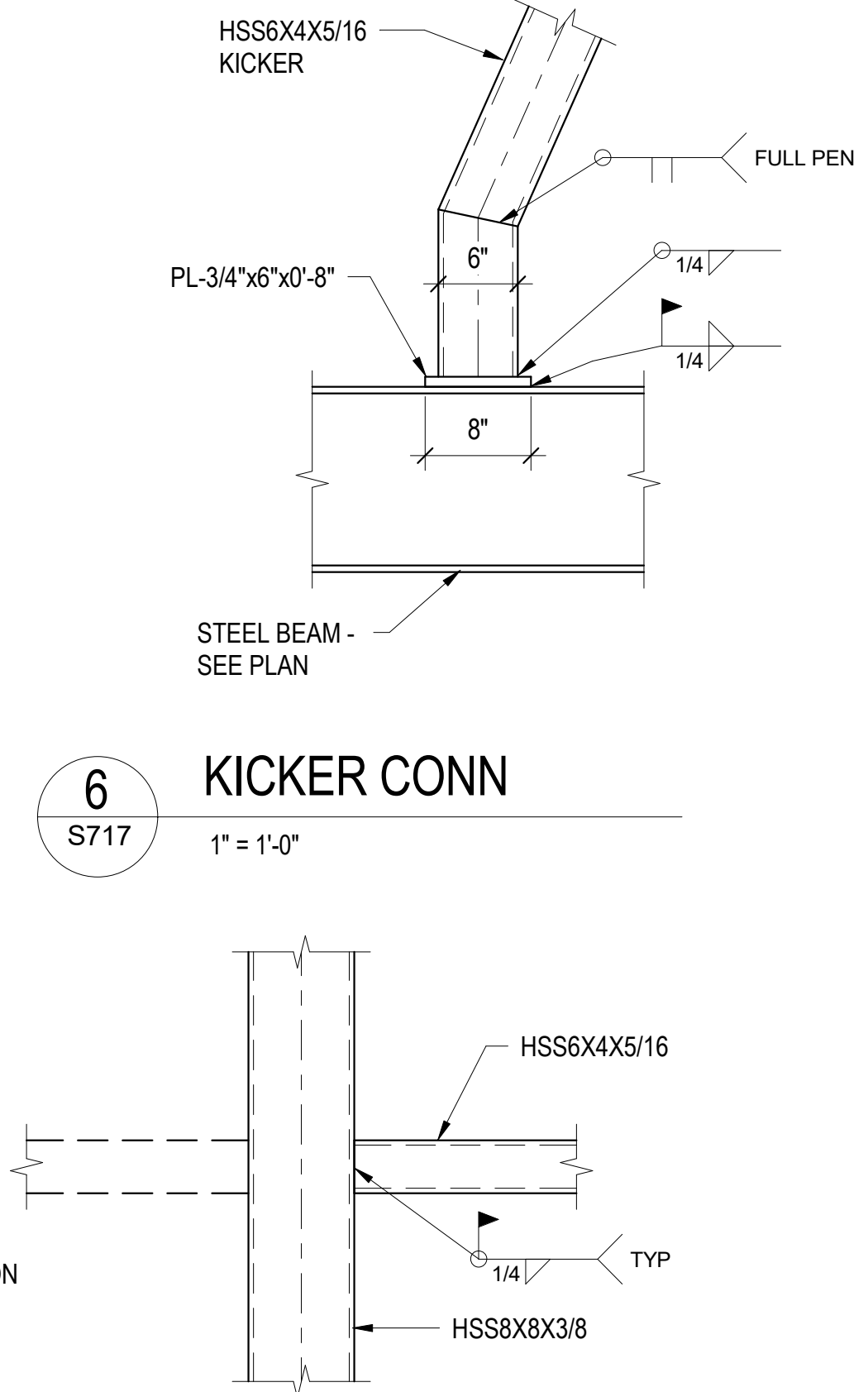
1 SECTION AT LIBRARY ROOF TOP SCREEN WALL



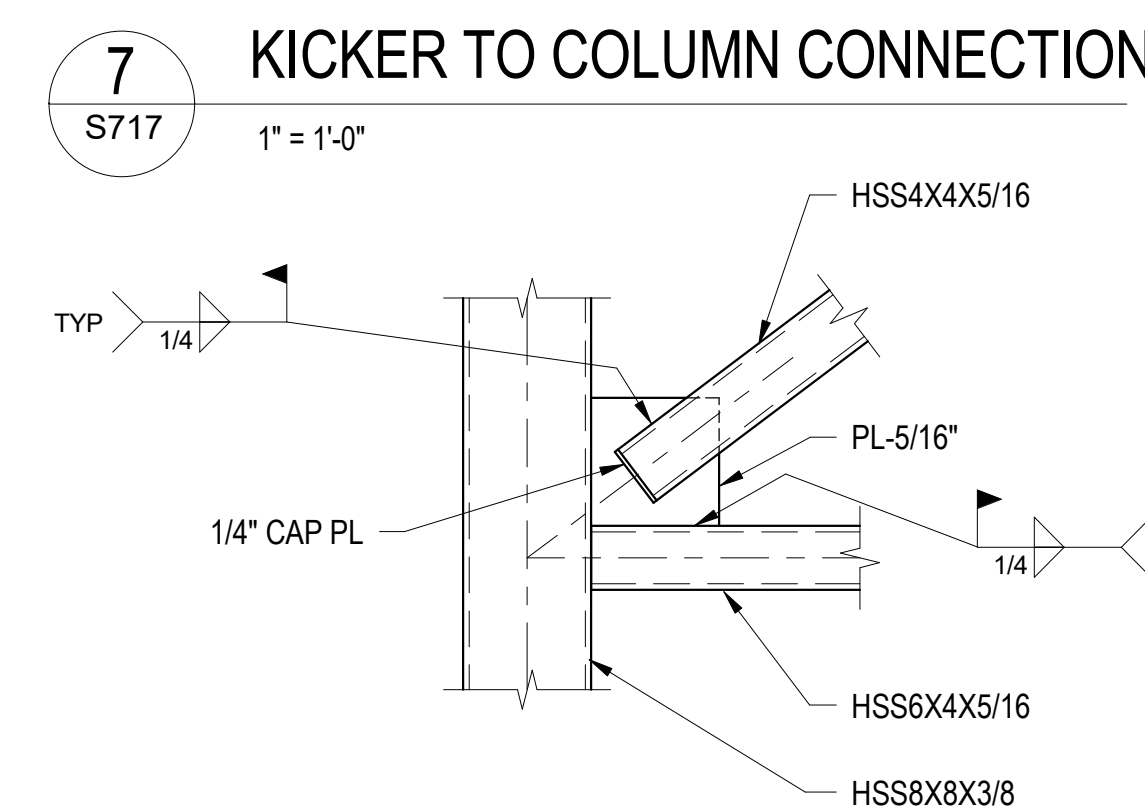
2 ELEVATION AT LIBRARY ROOF TOP SCREEN WALL



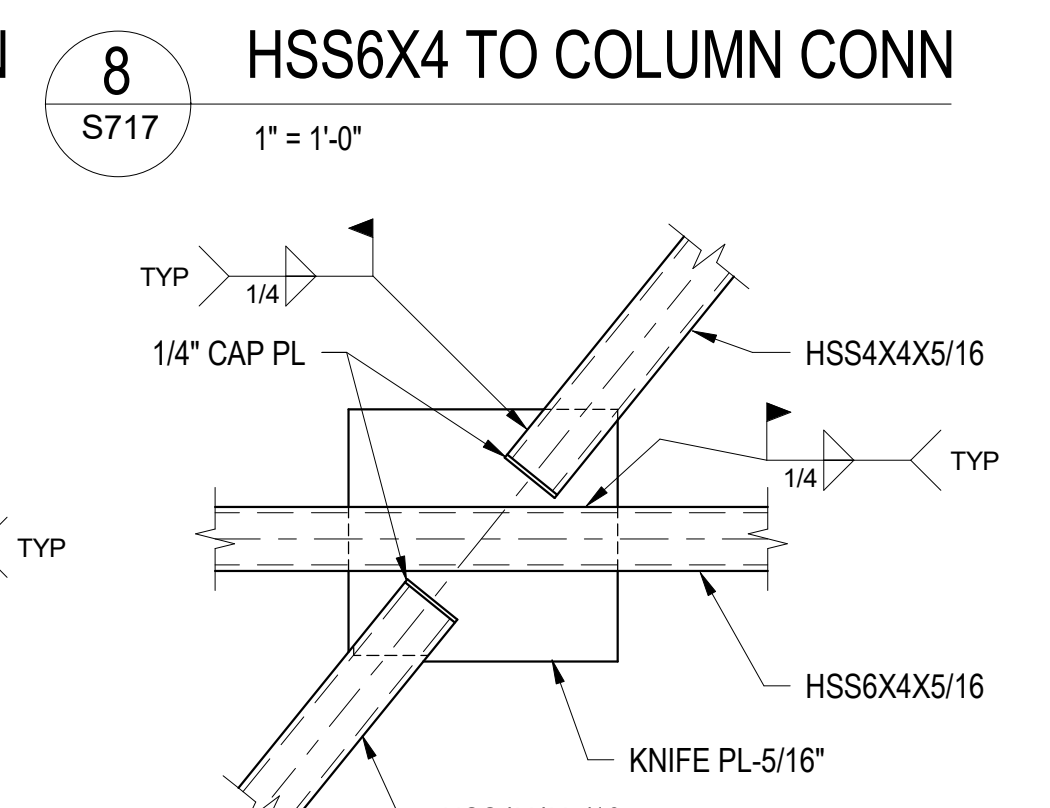
5 SCREEN WALL COLUMN CONN



6 KICKER CONN



7 KICKER TO COLUMN CONNECTION



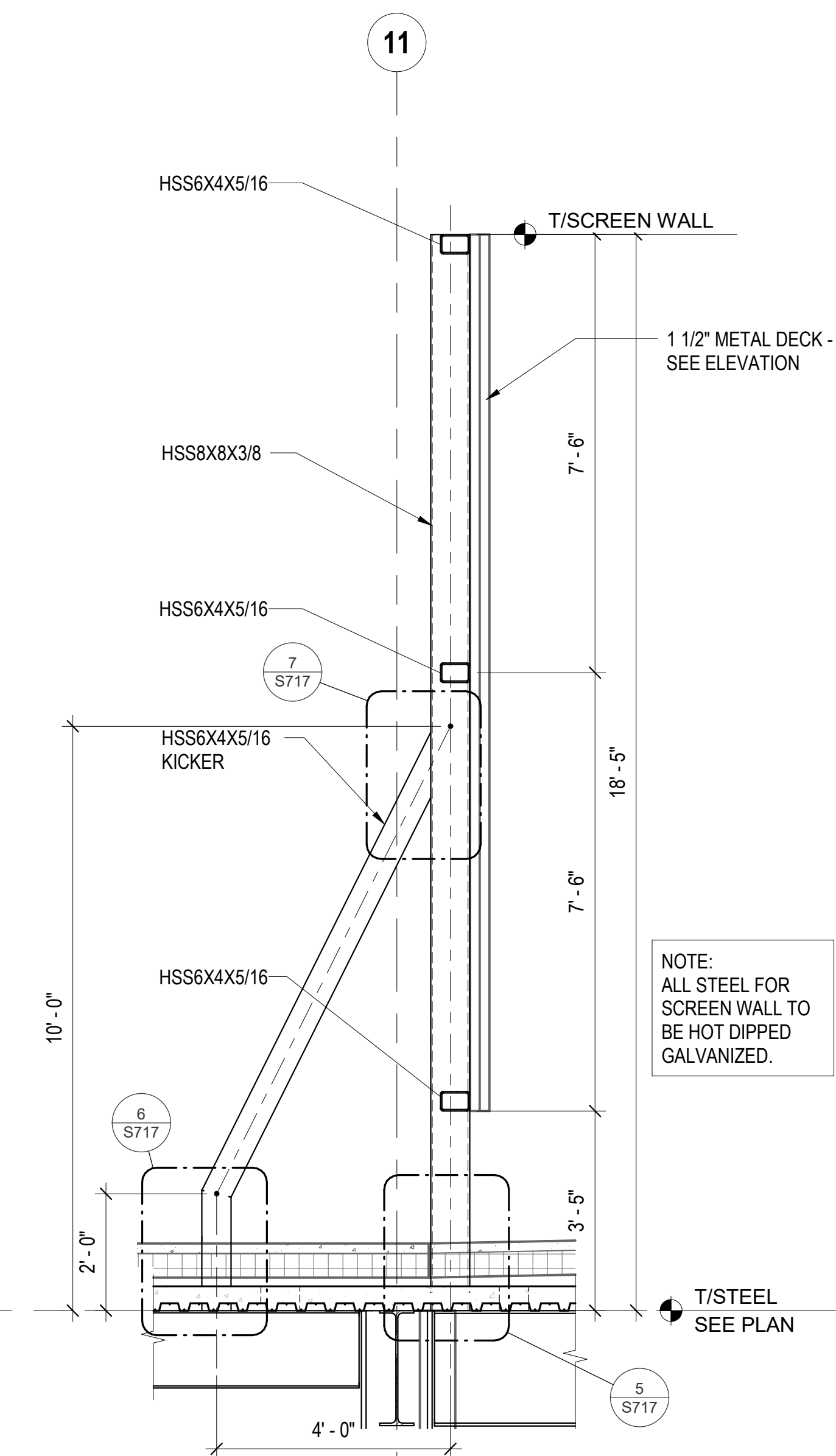
8 HSS6X4 TO COLUMN CONN



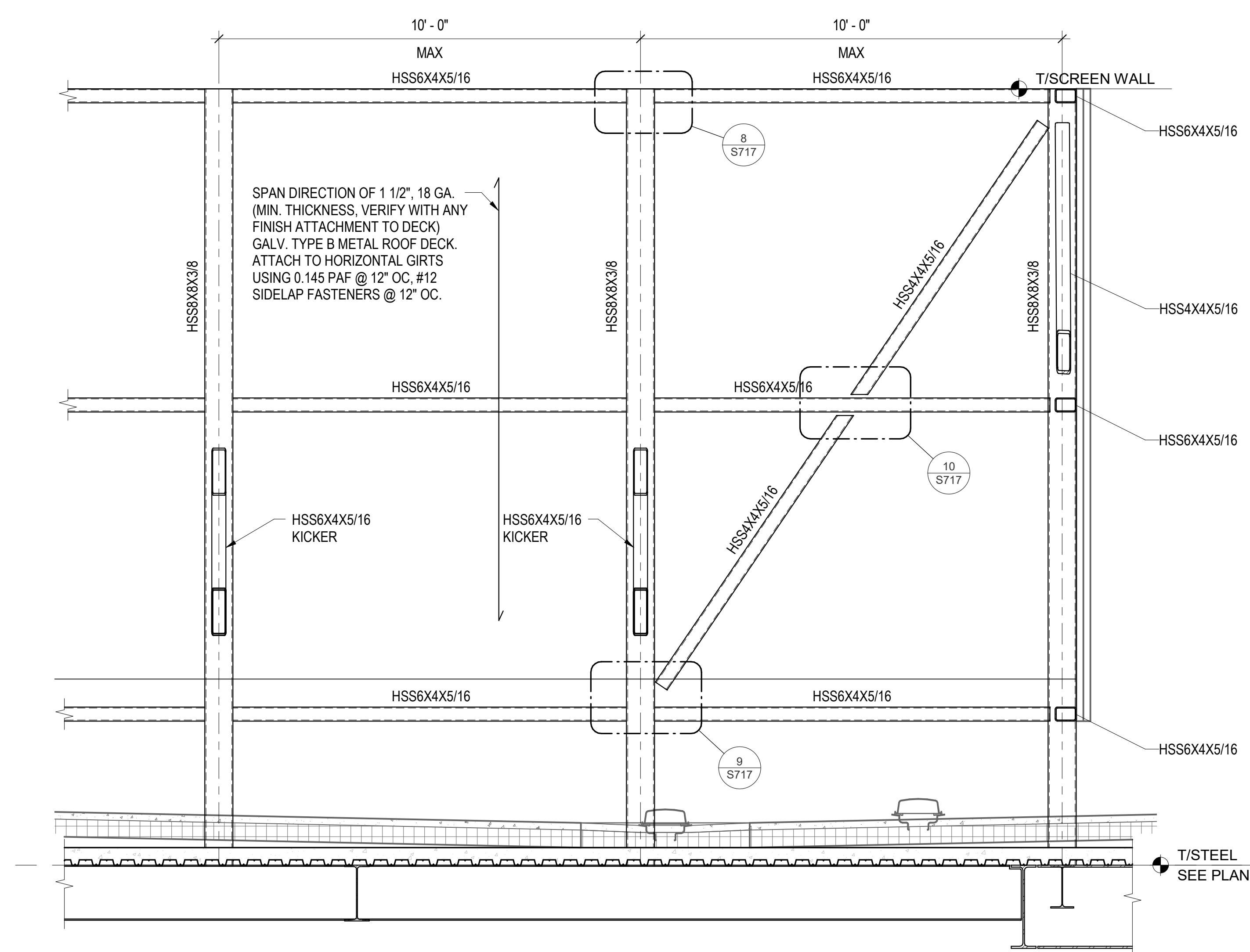
9 TYPICAL DIAGONAL CONN



10 TYPICAL DIAG TO HORIZ CONN



3 SECTION AT EVENT CENTER ROOF TOP SCREEN WALL



4 Detail 13



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PROJ NO E-16078.00 SHEET

S717

19 ■ 20

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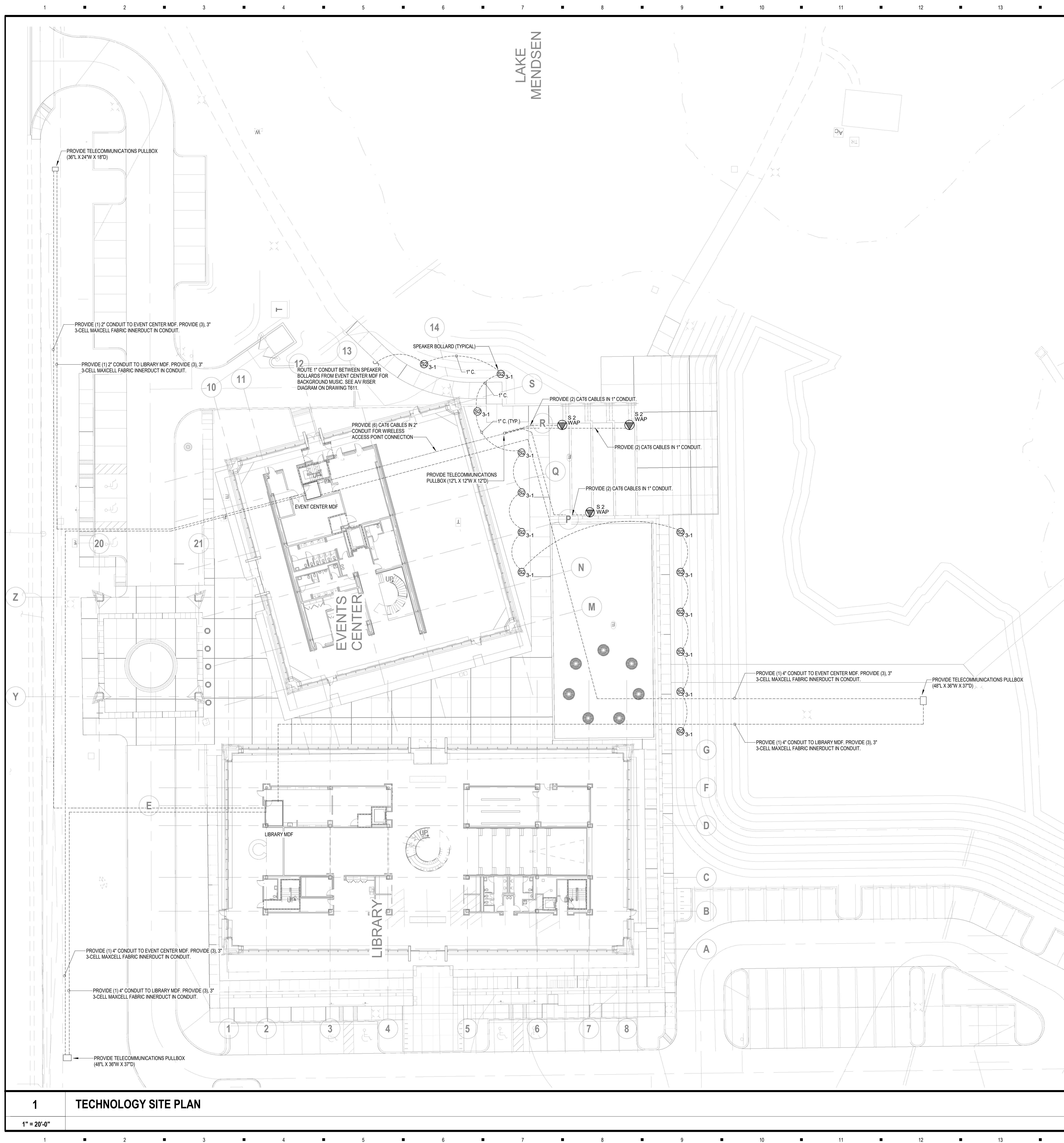
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TECHNOLOGY SYMBOLS, LEGEND
NOTES SHEET INDEX

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T001



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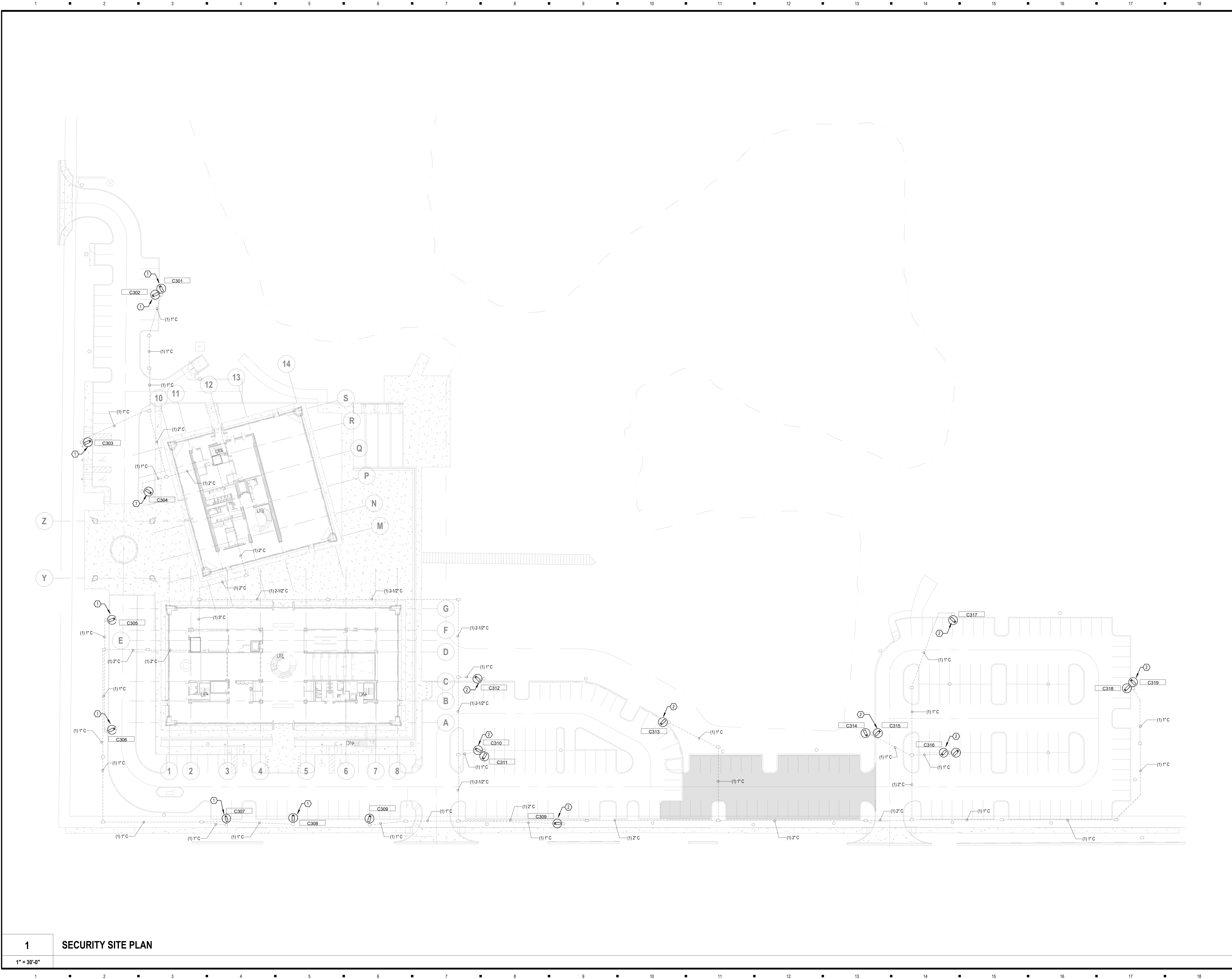
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TECHNOLOGY SITE PLAN

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T011

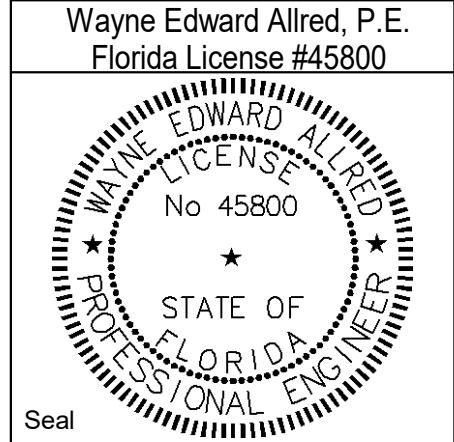


KEYED NOTES

1. LOCATION OF ELECTRICAL SITE LIGHTING POLE. STUB UP 6-STRAND SM FIBER IN 1" CONDUIT TO FIBER ENCLOSURE AT THE BASE OF POLE. ROUTE 34" CONDUIT FOR COPPER TO CAMERA MOUNTED AT 13'. REFER TO DETAILS ON SHEET T704 FOR ENCLOSURE DETAILS.
2. LOCATION OF ELECTRICAL SITE LIGHTING POLE. STUB UP 6-STRAND SM FIBER IN 1" CONDUIT TO FIBER ENCLOSURE AT THE BASE OF POLE. ROUTE 34" CONDUIT FOR COPPER TO CAMERA MOUNTED AT 15'. REFER TO DETAILS ON SHEET T704 FOR ENCLOSURE DETAILS.



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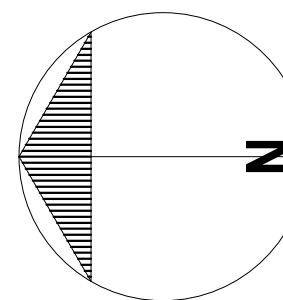
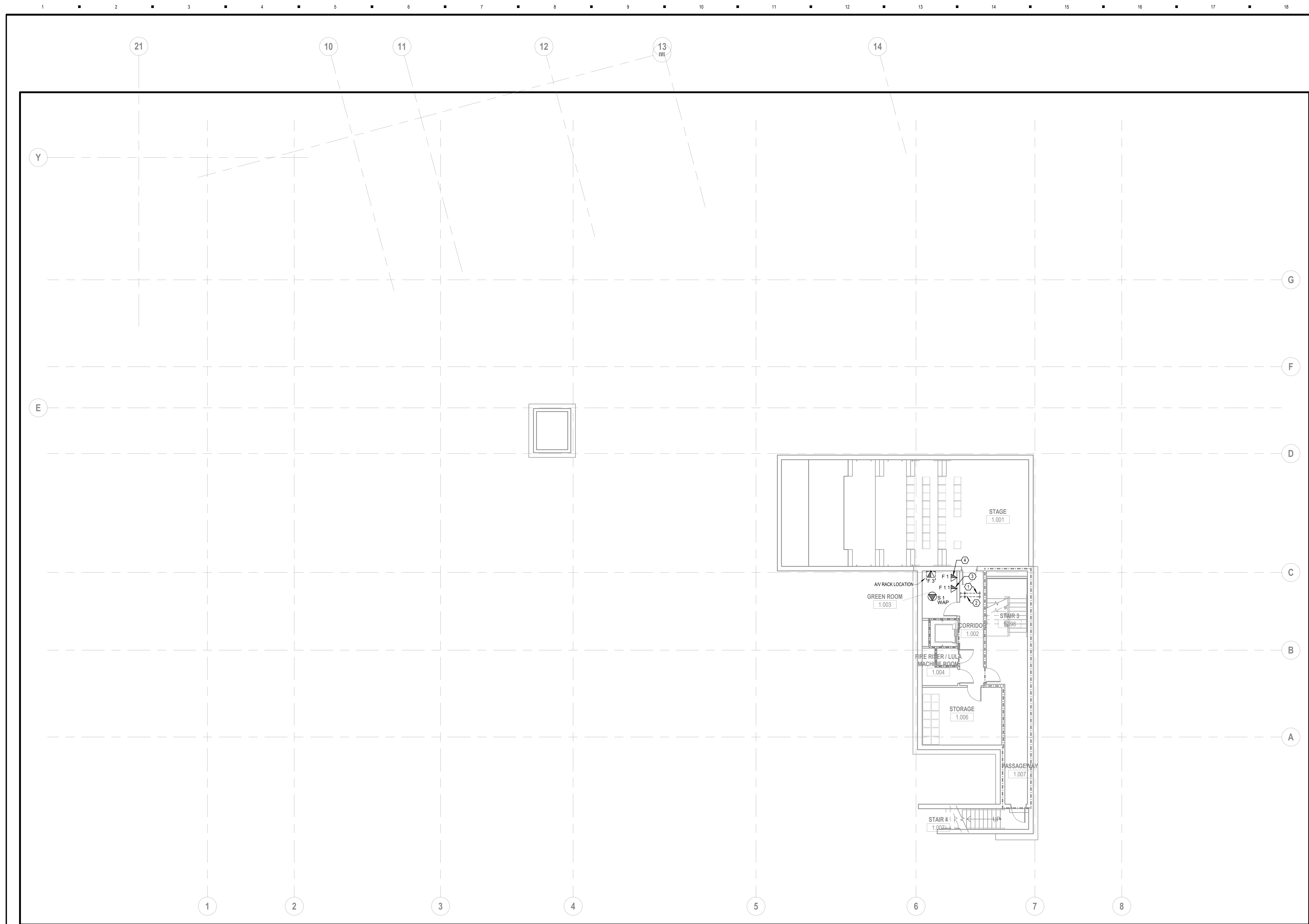


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SECURITY SITE PLAN

PROJ. NO. E-16078.00 SHEET
DRAWN Author

T012



KEYED NOTES

- 1 PROVIDE (1) 1" CONDUIT WITH PULLSTRING TO BE USED FOR DATA CABLEING. STUB CONDUITS(S) BELOW FLOOR TO NEAREST ACCESSIBLE WALL. REFERENCE DETAILS ON SHEET T704 FOR SMART SECURITY GATE INSTALLATION REQUIREMENTS.
- 2 PROVIDE (1) 3/4" CONDUIT WITH PULLSTRING TO BE USED FOR ELECTRICAL POWER. STUB CONDUIT(S) BELOW FLOOR TO NEAREST ACCESSIBLE WALL. REFERENCE DETAILS ON SHEET T704 FOR SMART SECURITY GATE INSTALLATION REQUIREMENTS.
- 3 PROVIDE DATA AND COAX CABLE IN SINGLE FACEPLATE BEHIND TV.
- 4 PROVIDE DATA OUTLET FOR A/V KEYPAD.

GENERAL NOTES

1. PRIMARY PATHWAY FOR HORIZONTAL CAT6 CABLE AND OTHER LOW VOLTAGE CABLE IS J-HOOKS, PAGING AND AV CABLES SHALL BE IN SEPARATE J-HOOK SYSTEM FROM DATA CABLES, 5 FOOT IS THE MAX SPACING FOR J-HOOKS. VARY THE SPACING FROM 3 FEET TO 5 FEET. PROVIDE (2) J-HOOKS AT EVERY TURN GREATER THAN 45 DEGREES.



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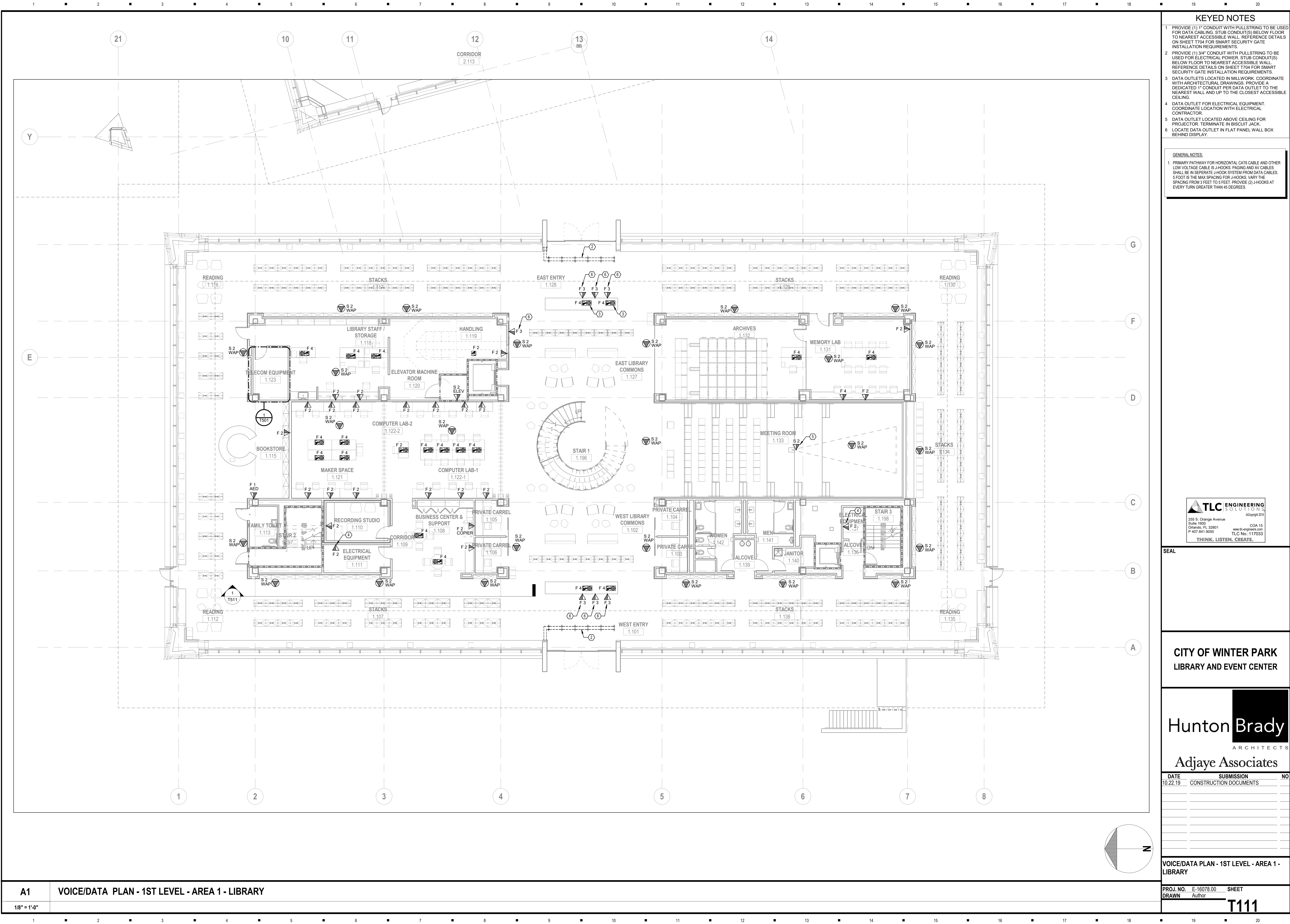
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VOICE/DATA PLAN BASEMENT LEVEL -
AREA 1 - LIBRARY

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T101



KEYED NOTES

1. PROVIDE (1) 1" CONDUIT WITH PULLSTRING TO BE USED FOR DATA CABLING. STUB CONDUIT(S) BELOW FLOOR TO NEAREST ACCESSIBLE WALL. REFERENCE DETAILS ON SHEET T704 FOR SMART SECURITY GATE INSTALLATION REQUIREMENTS.
2. PROVIDE (1) 3/4" CONDUIT WITH PULLSTRING TO BE USED FOR ELECTRICAL POWER. STUB CONDUIT(S) BELOW FLOOR TO NEAREST ACCESSIBLE WALL. REFERENCE DETAILS ON SHEET T704 FOR SMART SECURITY GATE INSTALLATION REQUIREMENTS.
3. DATA OUTLETS LOCATED IN MILLWORK. COORDINATE WITH ARCHITECTURAL DRAWINGS. PROVIDE A DEDICATED 1" CONDUIT PER DATA OUTLET TO THE NEAREST WALL AND UP TO THE CLOSEST ACCESSIBLE CEILING.
4. DATA OUTLET FOR ELECTRICAL EQUIPMENT. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.
5. DATA OUTLET LOCATED ABOVE CEILING FOR PROJECTOR. TERMINATE IN BISCUIT JACK.
6. LOCATE DATA OUTLET IN FLAT PANEL WALL BOX BEHIND DISPLAY.

GENERAL NOTES

1. PRIMARY PATHWAY FOR HORIZONTAL CAT6 CABLE AND OTHER LOW VOLTAGE CABLE S-HOOKS. PAGING AND AV CABLES SHALL BE IN SEPARATE J-HOOK SYSTEM FROM DATA CABLES. 5 FOOT IS THE MAX SPACING FOR J-HOOKS. VARY THE SPACING FROM 3 FEET TO 5 FEET. PROVIDE (2) J-HOOKS AT EVERY TURN GREATER THAN 45 DEGREES.

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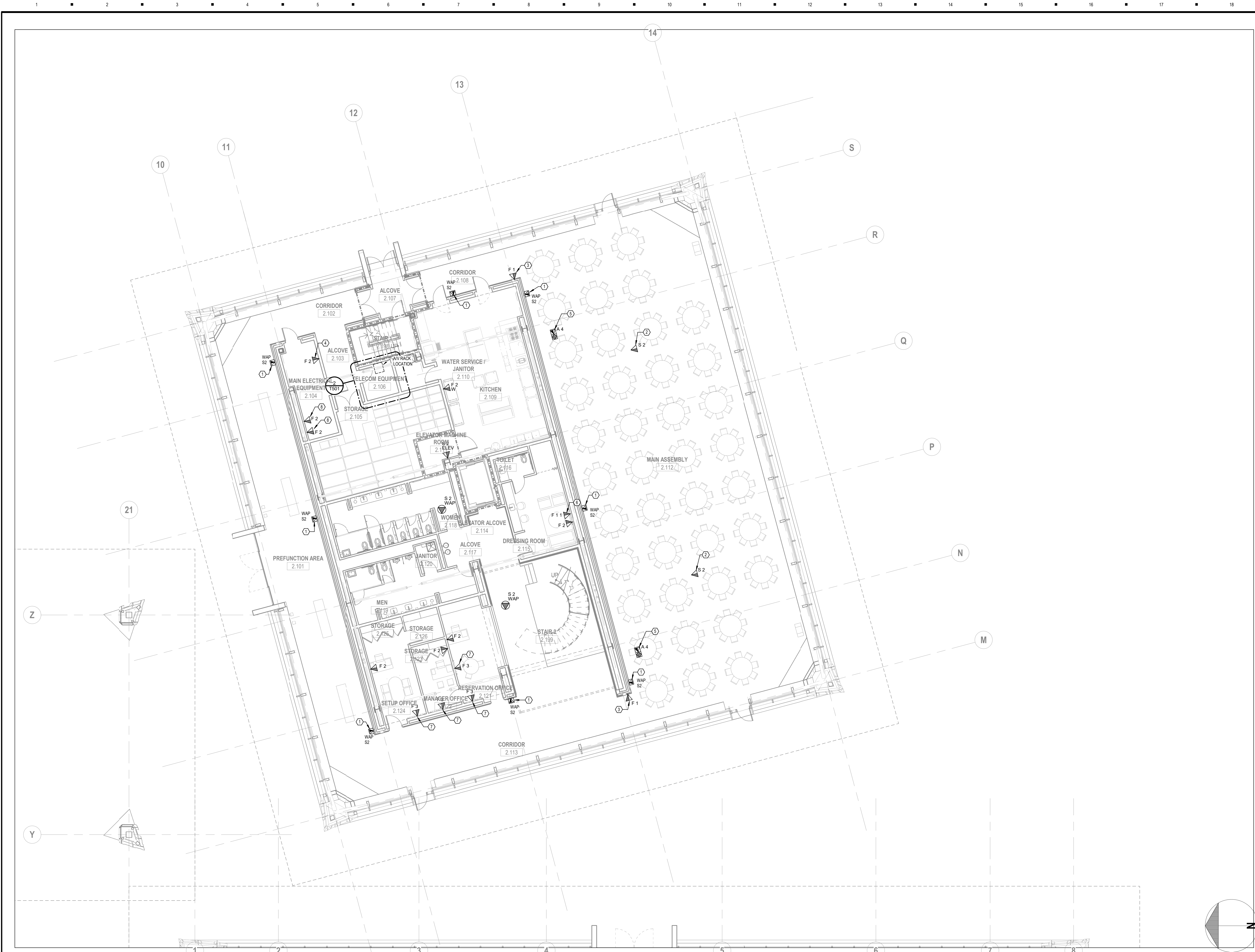
VOICE/DATA PLAN - 1ST LEVEL - AREA 1 - LIBRARY

PROJ. NO. E-16078.00 SHEET
DRAWN Author

T111

A1 VOICE/DATA PLAN - 1ST LEVEL - AREA 1 - LIBRARY

1/8" = 1'-0"



KEYED NOTES

1. PROVIDE WIRELESS ACCESS POINT JUNCTION BOX ANTENNA. DESIGN SELECTION: VENTEV TERRA WAVE DIRECTION W/FI JUNCTION BOX WITH 4 RPTNG PLUGS, MODEL M6050060D37202W/ST. CONNECT 6' LEAD TO WIRELESS ACCESS POINT MOUNTED IN ACCESSIBLE CEILING SPACE. PAINT JUNCTION BOX COVER TO MATCH WALLS.
2. DATA OUTLET LOCATED ABOVE CEILING FOR PROJECTOR. TERMINATE IN BISCUIT JACK.
3. PROVIDE DATA OUTLET FOR AV TOUCHSCREEN CONTROLLER.
4. DATA OUTLET FOR ELECTRICAL EQUIPMENT. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.
5. PROVIDE WIREMOLD EVOLUTION EFB6 FLOOR BOX WITH (2) 1" FOR DATA, (2) 3/4" FOR POWER AND (2) 1-1/2" FOR AV CABLE.
6. PROVIDE DATA AND COAX CABLE IN SINGLE FACEPLATE BEHIND TV.
7. LOCATE DATA OUTLET IN FLAT PANEL WALL BOX BEHIND DISPLAY.
8. DATA OUTLETS FOR DDC PANEL. COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR.

GENERAL NOTES:

1. PRIMARY PATHWAY FOR HORIZONTAL CAT6 CABLE AND OTHER LOW VOLTAGE CABLE S-HOOKS. PAGING AND AV CABLES SHALL BE IN SEPARATE J-HOOK SYSTEM FROM DATA CABLES. 5 FOOT IS THE MAX SPACING FOR J-HOOKS. VARY THE SPACING FROM 3 FEET TO 5 FEET. PROVIDE (2) J-HOOKS AT EVERY TURN GREATER THAN 45 DEGREES.



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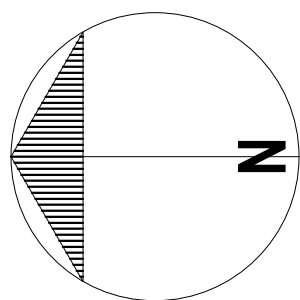
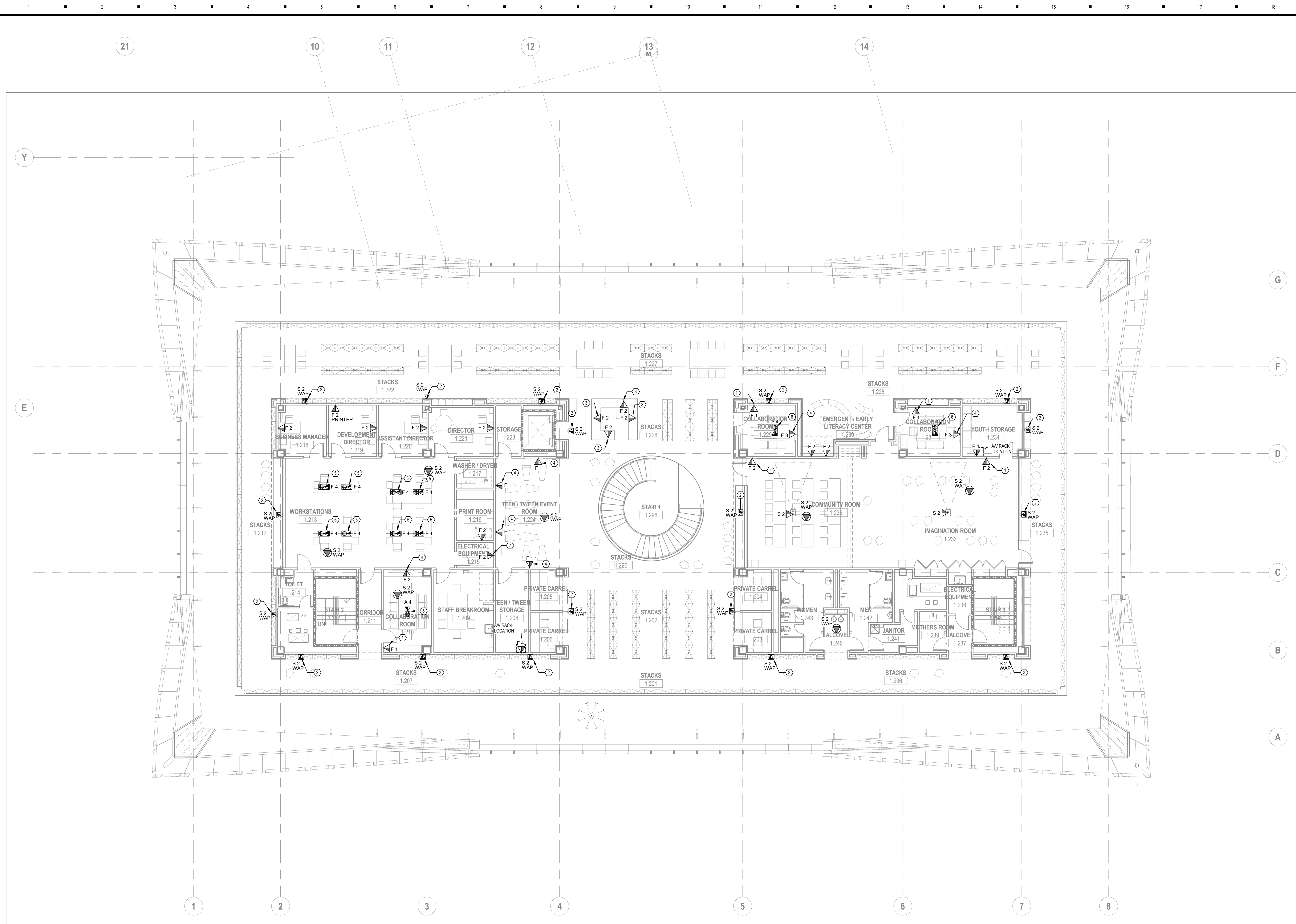
VOICE/DATA PLAN - 1ST LEVEL - AREA 2 -
EVENTS CENTER

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T112

A1 VOICE/DATA PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



KEYED NOTES

- 2 PROVIDE DATA OUTLET FOR A/V KEYPAD.
- 3 PROVIDE WIRELESS ACCESS POINT JUNCTION BOX TO SUPPORT DESIGN SPECIFIED WIRELESS TERRACEWAY DETECTION SYSTEM WITH 2 WIRELESS TRIP PLUGS, MODEL M96500003720W2VW, CONNECT 6' LEAD TO DETECTION SYSTEM. PROVIDE 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE. PAINT JUNCTION BOX COVER TO MATCH WALLS.
- 4 DATA OUTLETS LOCATED IN MILLWORK. PROVIDE A DETACHED 1/2" CONDUIT FOR EACH DATA OUTLET TO THE NEAREST ACCESSIBLE CEILING SPACE BY DRIPPING CONDUIT DOWN THE WALL.
- 5 LOCATE DATA OUTLET IN FLAT PANEL WALL BOX BEHIND DISPLAY.
- 6 PROVIDE EVOLUTION POLE THRU, 8" WITH (1") 1/4" CONDUIT, 1/4" FOR POWER AND 3/4" FOR DATA. DEDICATED, FLOOR BOXES SHALL NOT BE CONNECTED TOGETHER.
- 7 PROVIDE EVOLUTION POLE THRU, 8" WITH (1") 1/4" CONDUIT, 1/4" FOR POWER AND (1") 1/2"-TO BEHIND TV LOCATION FOR A/V CABLES.
- 8 DATA OUTLET FORMERLY COORDINATE WITH LOCATION WITH ELECTRICAL CONTRACTOR.

GENERAL NOTES

1. PRIMARY PATHWAY FOR HORIZONTAL CAT6 CABLE AND OTHER LOW VOLTAGE CABLE IS J-HOOKS. PAGING AND AV CABLES SHALL BE IN SEPARATE J-HOOK SYSTEM FROM DATA CABLES. 5 FOOT IS THE MAX SPACING FOR J-HOOKS. VARY THE SPACING FROM 3 FEET TO 5 FEET. PROVIDE (2) J-HOOKS AT EVERY TURN GREATER THAN 45 DEGREES.



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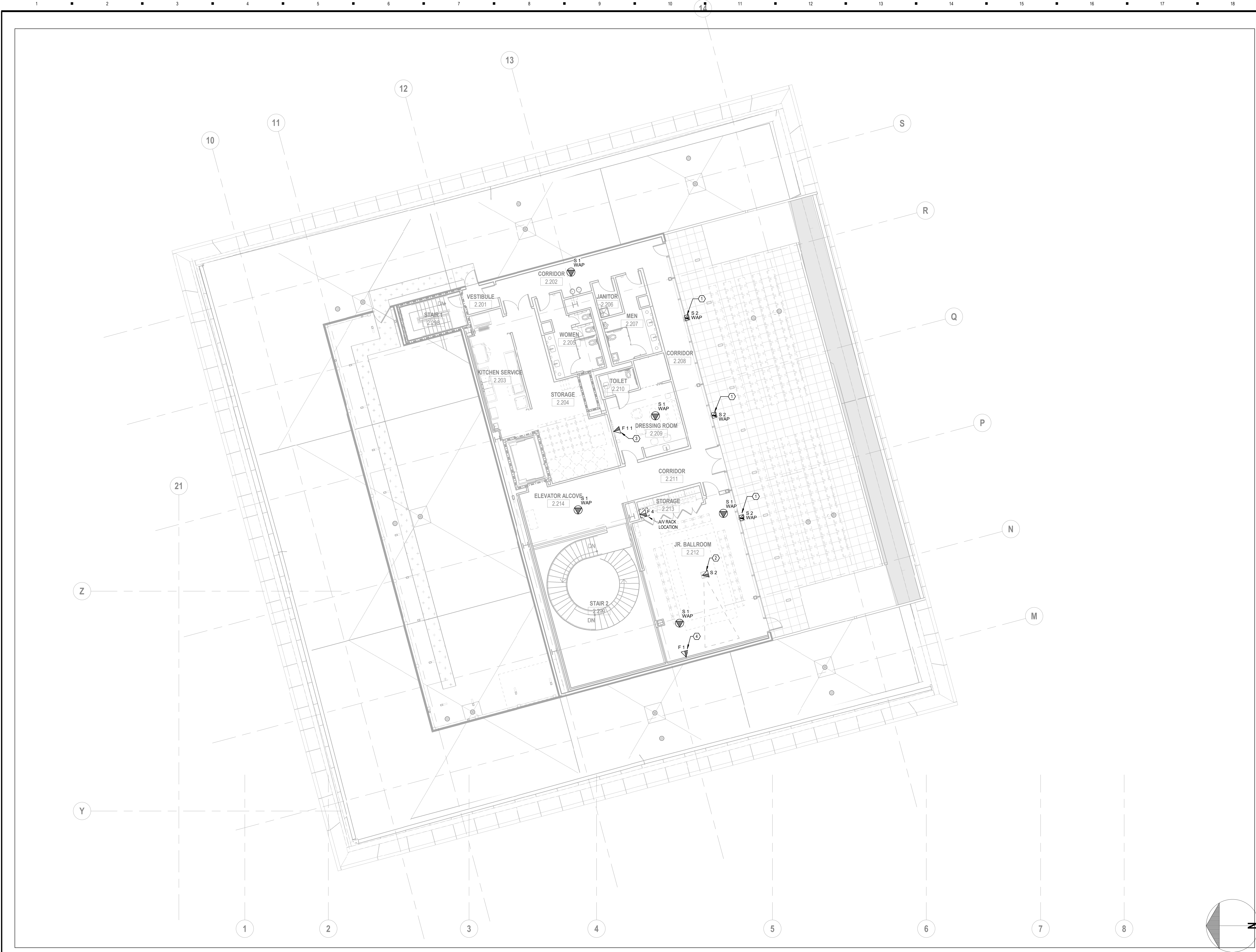
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VOICE/DATA PLAN - 2ND LEVEL - AREA 1
LIBRARY

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T121



KEYED NOTES

1. PROVIDE WIRELESS ACCESS POINT JUNCTION BOX ANTENNA. DESIGN SELECTION: VENTEV TERRA WAVE DIRECTION W/PI JUNCTION BOX WITH 4 RPTNG PLUGS. MODEL M6050060D37202W/ST. CONNECT 6' LEAD TO WIRELESS ACCESS POINT MOUNTED IN ACCESSIBLE CEILING SPACE. PAINT JUNCTION BOX COVER TO MATCH WALLS.
2. DATA OUTLET LOCATED ABOVE CEILING FOR PROJECTOR. TERMINATE IN BISCUIT JACK.
3. PROVIDE DATA AND COAX CABLE IN SINGLE FACEPLATE BEHIND TV.
4. PROVIDE DATA OUTLET FOR AV KEYPAD.

GENERAL NOTES

1. PRIMARY PATHWAY FOR HORIZONTAL CAT6 CABLE AND OTHER LOW VOLTAGE CABLE S J-HOOKS. PAGING AND AV CABLES SHALL BE IN SEPERATE J-HOOK SYSTEM FROM DATA CABLES. 5 FOOT IS THE MAX SPACING FOR J-HOOKS. VARY THE SPACING FROM 3 FEET TO 5 FEET. PROVIDE (2) J-HOOKS AT EVERY TURN GREATER THAN 45 DEGREES.



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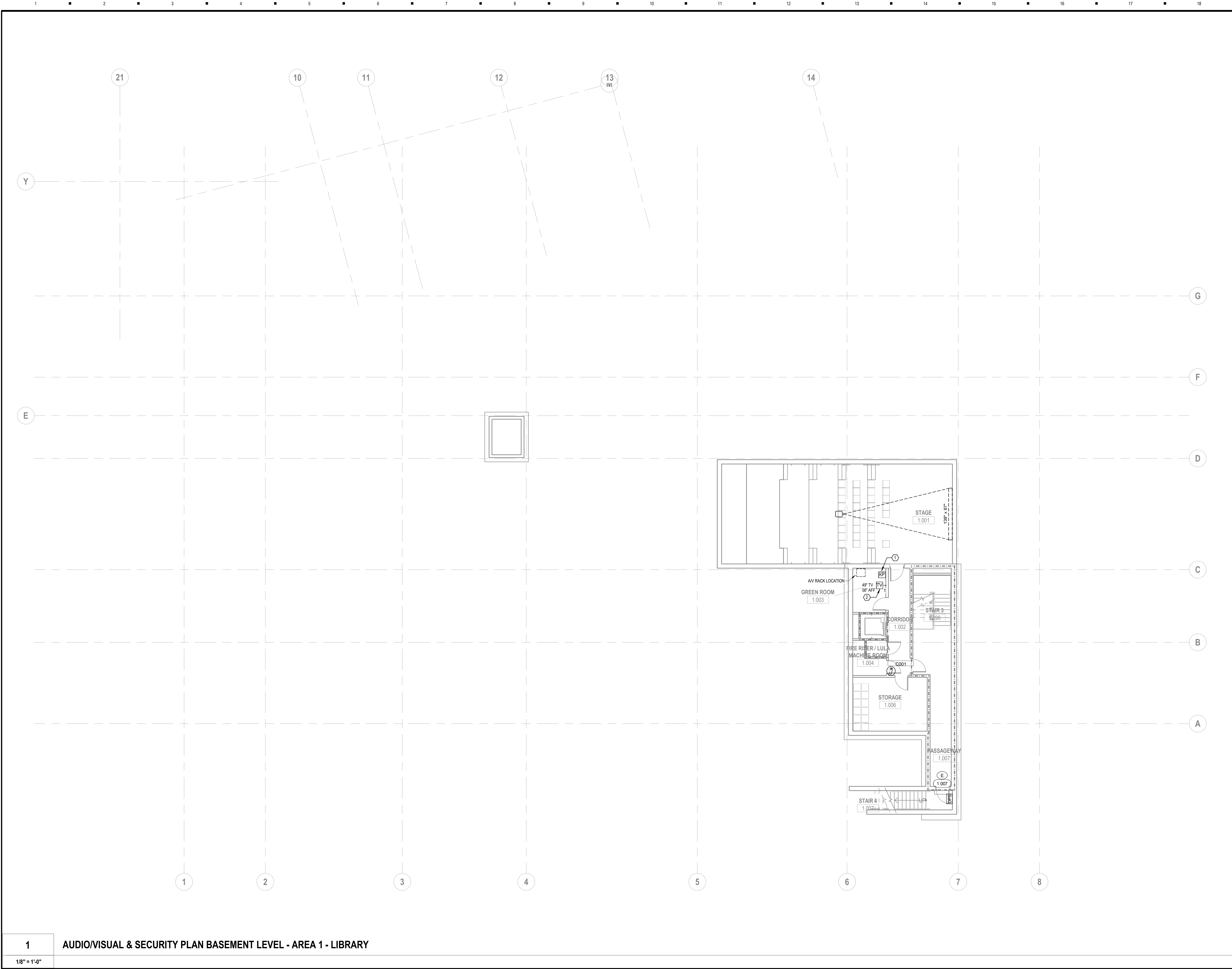
VOICE/DATA PLAN - 2ND LEVEL - AREA 2 -
EVENTS CENTER

PROJ. NO. E-16078.00 SHEET
DRAWN Author

T122

A1 VOICE/DATA PLAN - 2ND LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



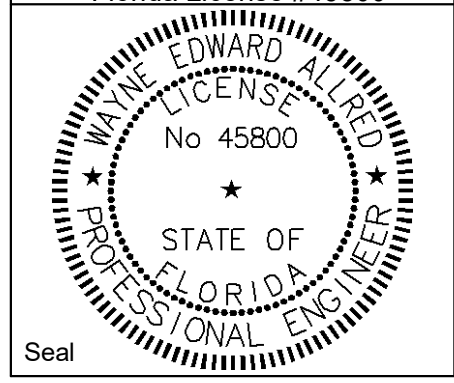
KEYED NOTES

- 1 PROVIDE AV KEYPAD. REFER TO AV RISER DIAGRAMS FOR DESIGN SELECTION AND BUTTON ASSIGNMENT.
PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT FOR DATA. MOUNT AT 48" AFF TO THE TOP OF THE BOX.
2 PROVIDE TV OUTLET. REFER TO DETAIL 4 ON SHEET T702 FOR CONDUIT AND CABLING REQUIREMENT.



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Florida License #45800



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BASEMENT LEVEL - AREA 1 - LIBRARY

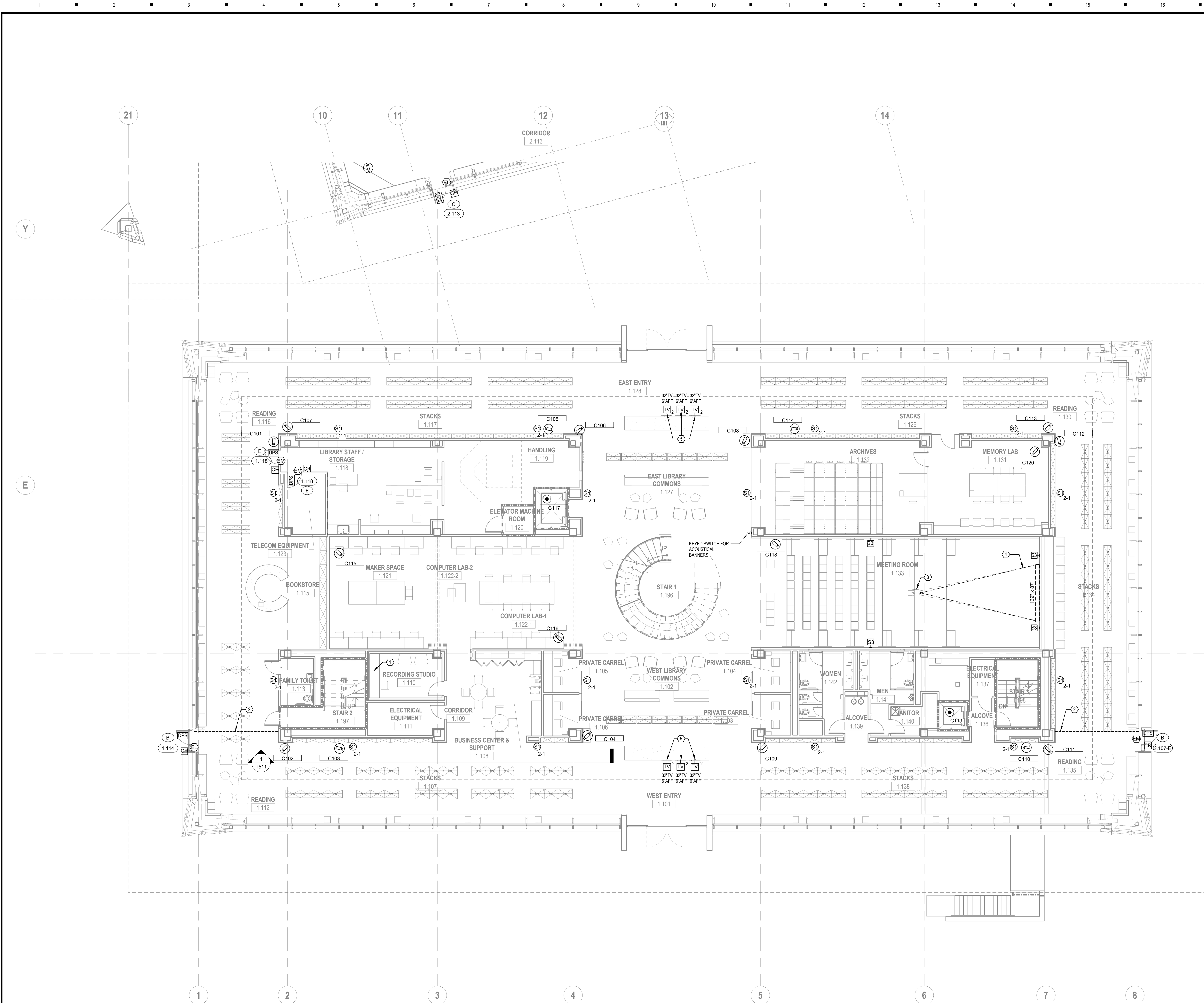
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T201

1

AUDIO/VISUAL & SECURITY PLAN BASEMENT LEVEL - AREA 1 - LIBRARY

1/8" = 1'-0"



KEYED NOTES

- 1 PROVIDE YAMAHA 6 CHANNEL MIXER (PART # YAMM606X) WITH 6FT XLR TO AUDIO JACK CABLES. PROVIDE (3) SHURE WIRED CARDIOID MICROPHONES WITH ON/OFF SWITCH (PART # SHUSM58S) AND (3) FRAMEWORKS TRIPOD MIC STAND (PART # GATOFWIMC2100T).
- 2 PROVIDE 1" CONDUIT ROUTED UNDERNEATH SLAB TO EXTERIOR DOOR FOR COMMUNICATION AND LOW VOLTAGE POWER.
- 3 PROVIDE PROJECTOR. COORDINATE LOCATION WITH ARCHITECTURAL CEILING PLAN. LOWER PROJECTOR TO 54" FROM CEILING AND ADJUST IMAGE ACCORDINGLY.
- 4 PROVIDE PROJECTION SCREEN WITH 74" OF DROP MOUNTED FLUSH IN CEILING. COORDINATE WITH ARCHITECTURAL CEILING PLAN.
- 5 PROVIDE 4-GANG FLAT PANEL WALL BOX BEHIND TV WITH (2) DUPLEX RECEPTACLES. REFER TO DETAIL 2 ON SHEET 1702. PROVIDE (2) 1-1/2" CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE AND (2) 3/4" CONDUIT FOR POWER.

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AUDIO/VISUAL & SECURITY PLAN - 1ST
LEVEL - AREA 1 - LIBRARY

PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T211

A1

AUDIO/VISUAL & SECURITY PLAN - 1ST LEVEL - AREA 1 - LIBRARY

1/8" = 1'-0"



KEYED NOTES

- 1 PROVIDE 1" CONDUIT ROUTED UNDERNEATH SLAB TO EXTERIOR DOOR FOR COMMUNICATION AND LOW VOLTAGE POWER.
- 2 PROVIDE TOUCHSCREEN CONTROLLER SURFACE MOUNTED OVER 2-GANG ELECTRICAL BOX. REFER TO AV RISER DIAGRAMS FOR DESIGN SELECTION.
- 3 PROVIDE PROJECTOR AND MOTORIZED PROJECTOR LIFT. COORDINATE LOCATION WITH ARCHITECTURAL CEILING PLAN. PROVIDE CUSTOM CEILING PANEL AND PAINT TO MATCH.
- 4 PROVIDE MOTORIZED PROJECTION SCREEN WITH 42" OF DROP. BOTTOM OF HOUSING ABOVE CEILING AT 15'-08" AFF. COORDINATE LOCATION WITH ARCHITECTURAL CEILING PLAN.
- 5 PROVIDE 4-GANG FLAT PANEL WALL BOX BEHIND TV WITH (2) DUPLEX RECEPTACLES. REFER TO DETAIL 2 ON SHEET T702. PROVIDE (2) 1-1/2" CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE AND (2) 3/4" CONDUIT FOR POWER.
- 6 PROVIDE TV OUTLET. REFER TO DETAIL 4 ON SHEET T702 FOR CONDUIT AND CABLING REQUIREMENT.



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AUDIO/VISUAL & SECURITY PLAN - 1ST
LEVEL - AREA 2 - EVENTS CENTER

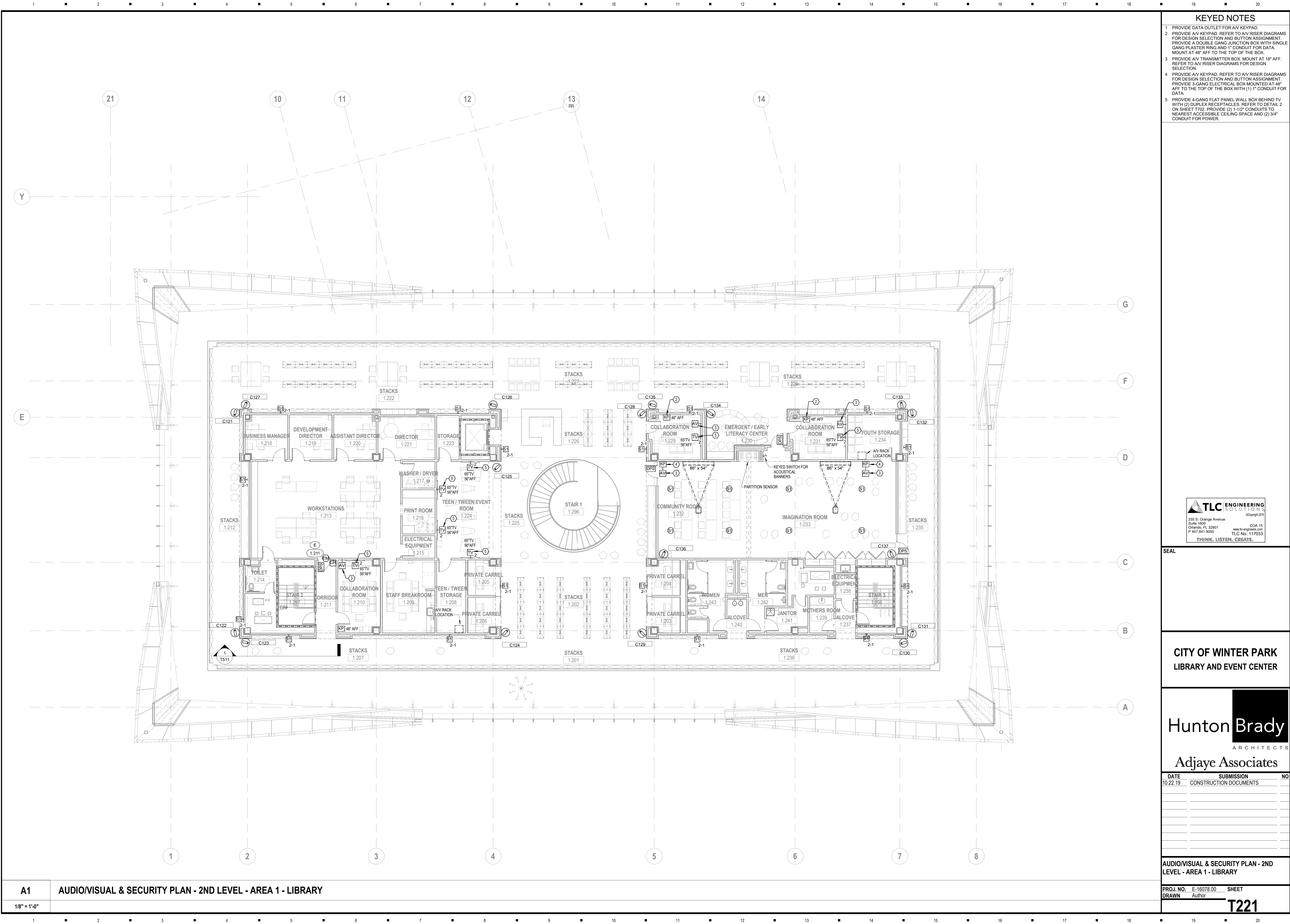
PROJ. NO.	E-16078.00	SHEET
DRAWN	Author	

T212

A1

AUDIO/VISUAL & SECURITY PLAN - 1ST LEVEL - AREA 2 - EVENTS CENTER

1/8" = 1'-0"



KEYED NOTES

1. PROVIDE DATA OUTLET FOR AV KEYPAD.
2. PROVIDE AV KEYPAD. REFER TO AV RISER DIAGRAMS FOR DESIGN SELECTION AND BUTTON ASSIGNMENT. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT FOR DATA. MOUNT AT 48" AFF TO THE TOP OF THE BOX.
3. PROVIDE AV TRANSMITTER BOX. MOUNT AT 18" AFF. REFER TO AV RISER DIAGRAMS FOR DESIGN SELECTION.
4. PROVIDE AV KEYPAD. REFER TO AV RISER DIAGRAMS FOR DESIGN SELECTION AND BUTTON ASSIGNMENT. PROVIDE 3-GANG ELECTRICAL BOX MOUNTED AT 48" AFF TO THE TOP OF THE BOX WITH (1) 1" CONDUIT FOR DATA.
5. PROVIDE 4-GANG FLAT PANEL WALL BOX BEHIND TV WITH (2) DUPLEX RECEPTACLES. REFER TO DETAIL 2 ON SHEET T202. PROVIDE (2) 1-1/2" CONDUITS TO NEAREST ACCESSIBLE CEILING SPACE AND (2) 3/4" CONDUIT FOR POWER.

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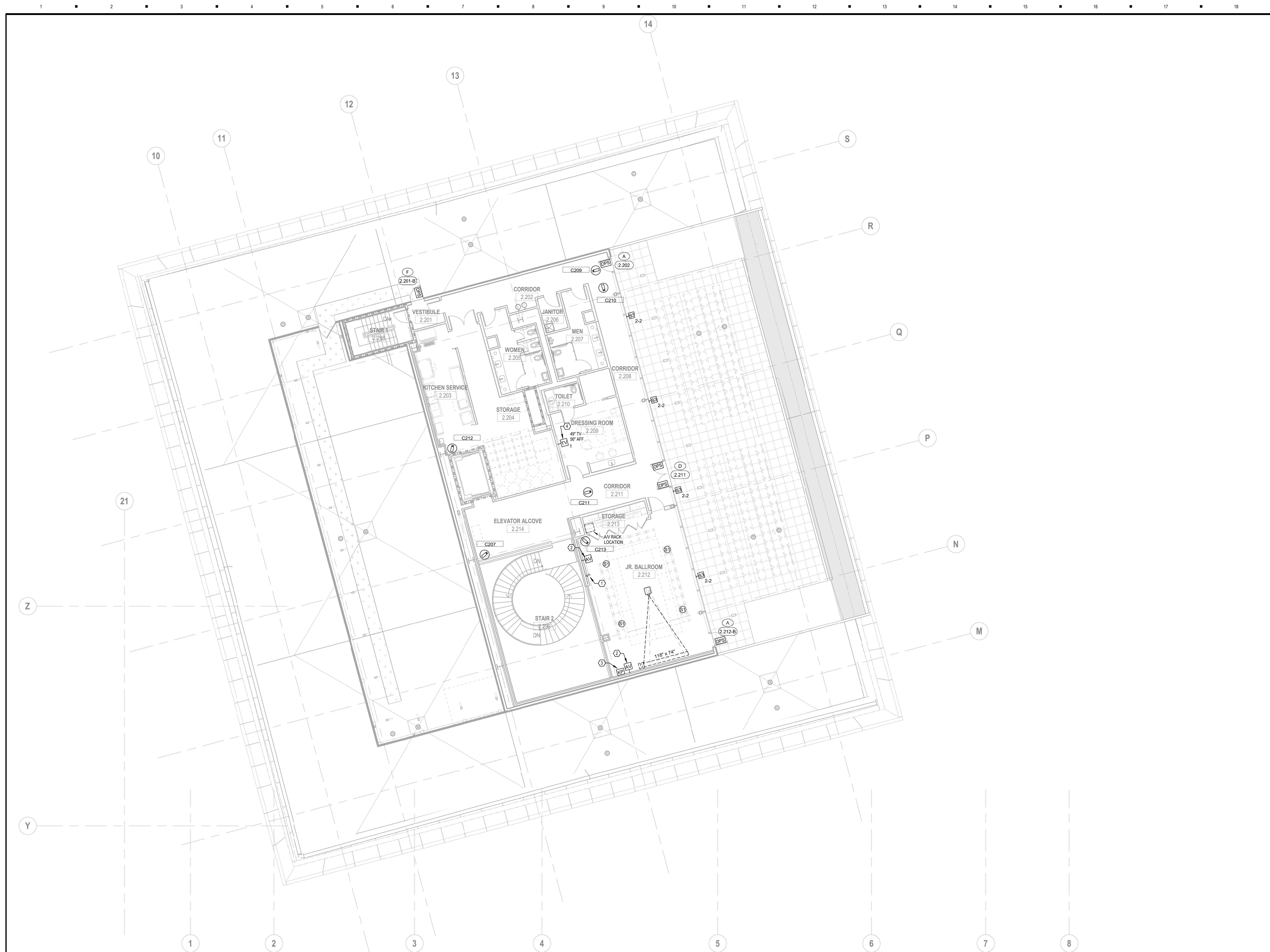
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AUDIO/VISUAL & SECURITY PLAN - 2ND
LEVEL - AREA 1 - LIBRARY

PROJ. NO. E-16078.00 SHEET
DRAWN Author

T221



KEYED NOTES

- | | |
|---|---|
| 1 | PROVIDE MOTORIZED SWITCH FOR PROJECTION SCREEN |
| 2 | PROVIDE A/V TRANSMITTER BOX. MOUNT AT 18" AFF. REFER TO A/V RISER DIAGRAMS FOR DESIGN SELECTION. |
| 3 | PROVIDE A/V KEYPAD. REFER TO A/V RISER DIAGRAMS FOR DESIGN SELECTION AND BUTTON ASSIGNMENT. PROVIDE A DOUBLE GANG JUNCTION BOX WITH SINGLE GANG PLASTER RING AND 1" CONDUIT FOR DATA. MOUNT AT 48" AFF TO THE TOP OF THE BOX. |
| 4 | PROVIDE TV OUTLET. REFER TO DETAIL 4 ON SHEET T702 FOR CONDUIT AND CABLING REQUIREMENT. |



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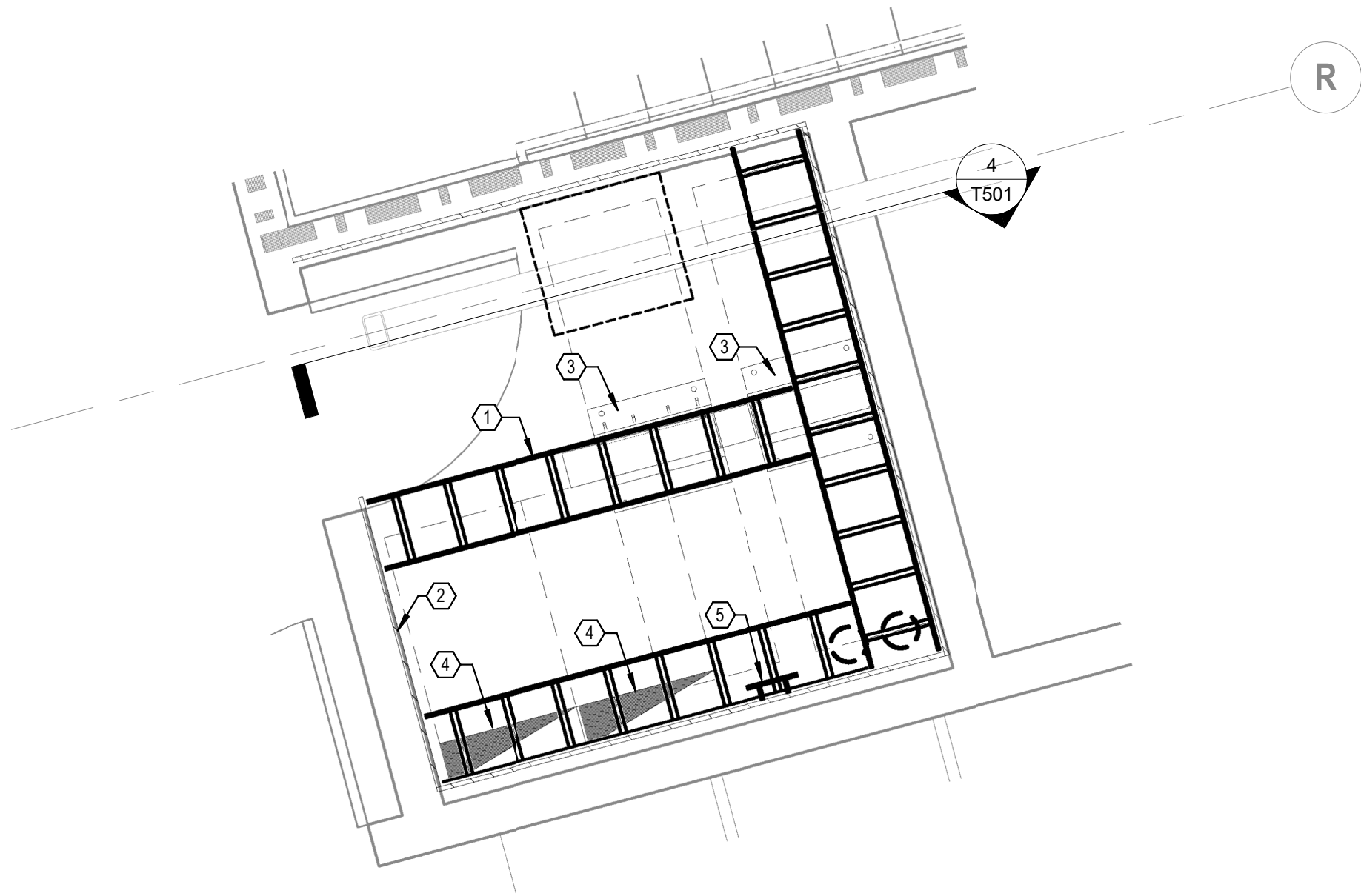
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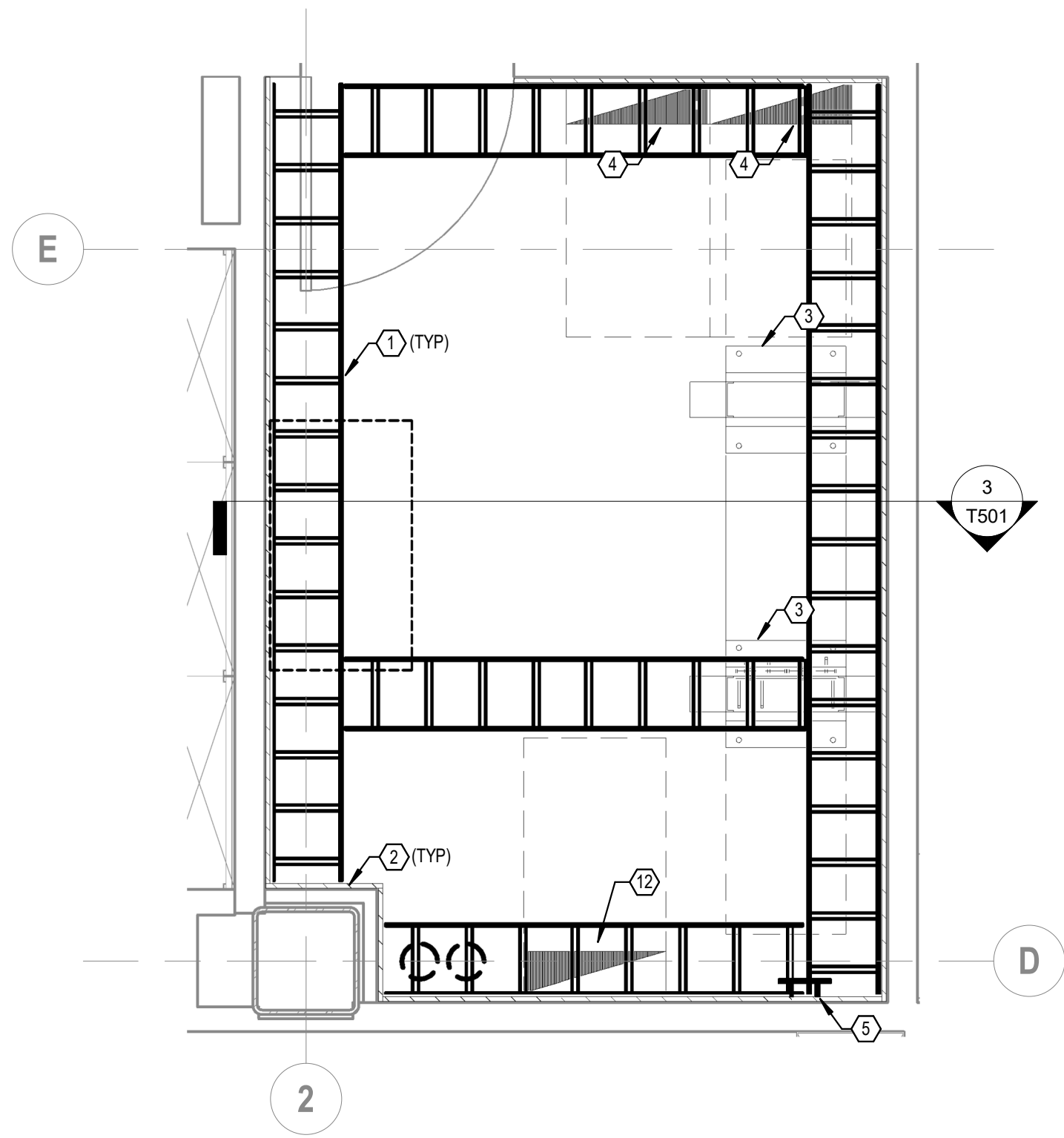
**AUDIO/VISUAL & SECURITY PLAN - 2ND
LEVEL - AREA 2 - EVENTS CENTER**

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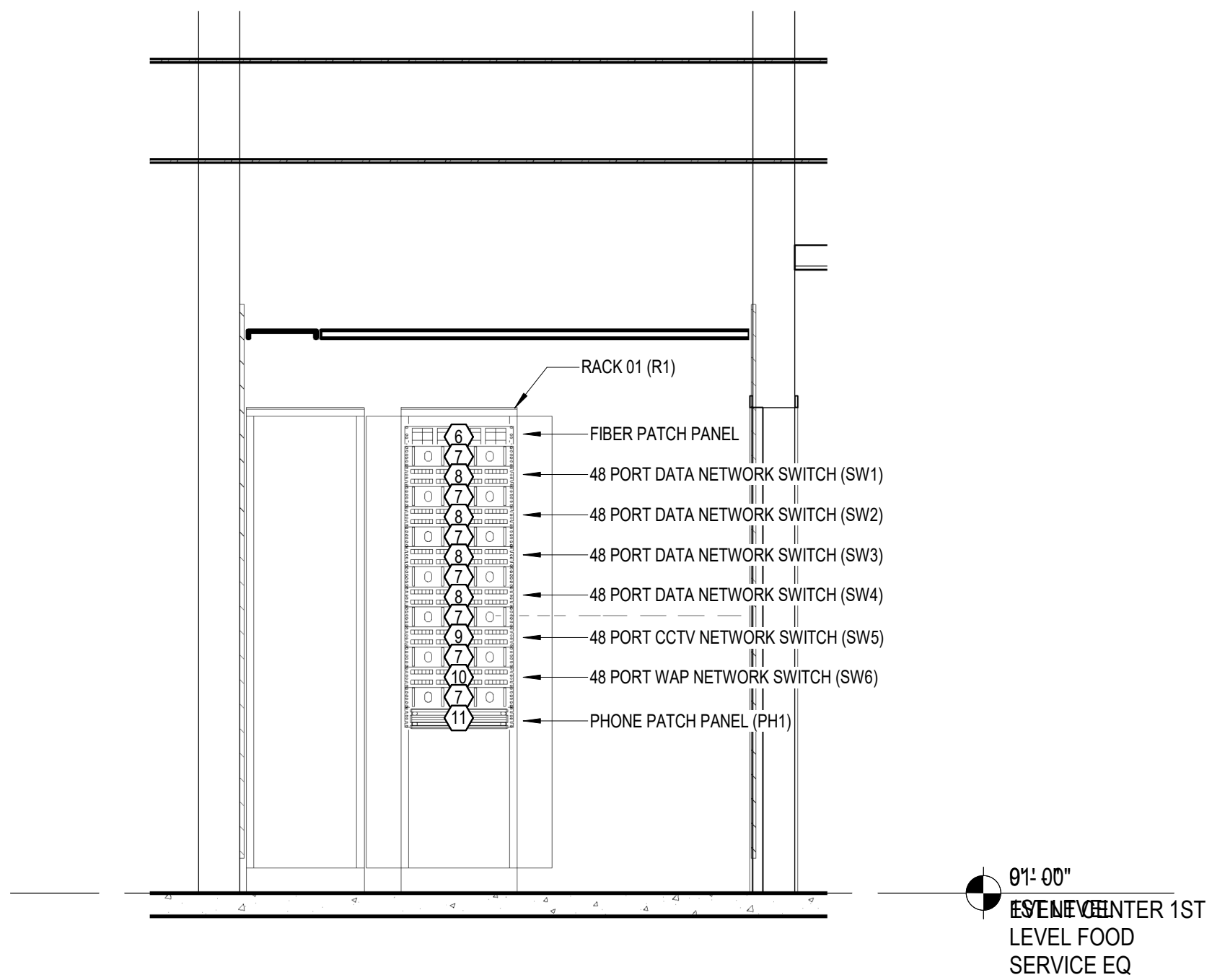
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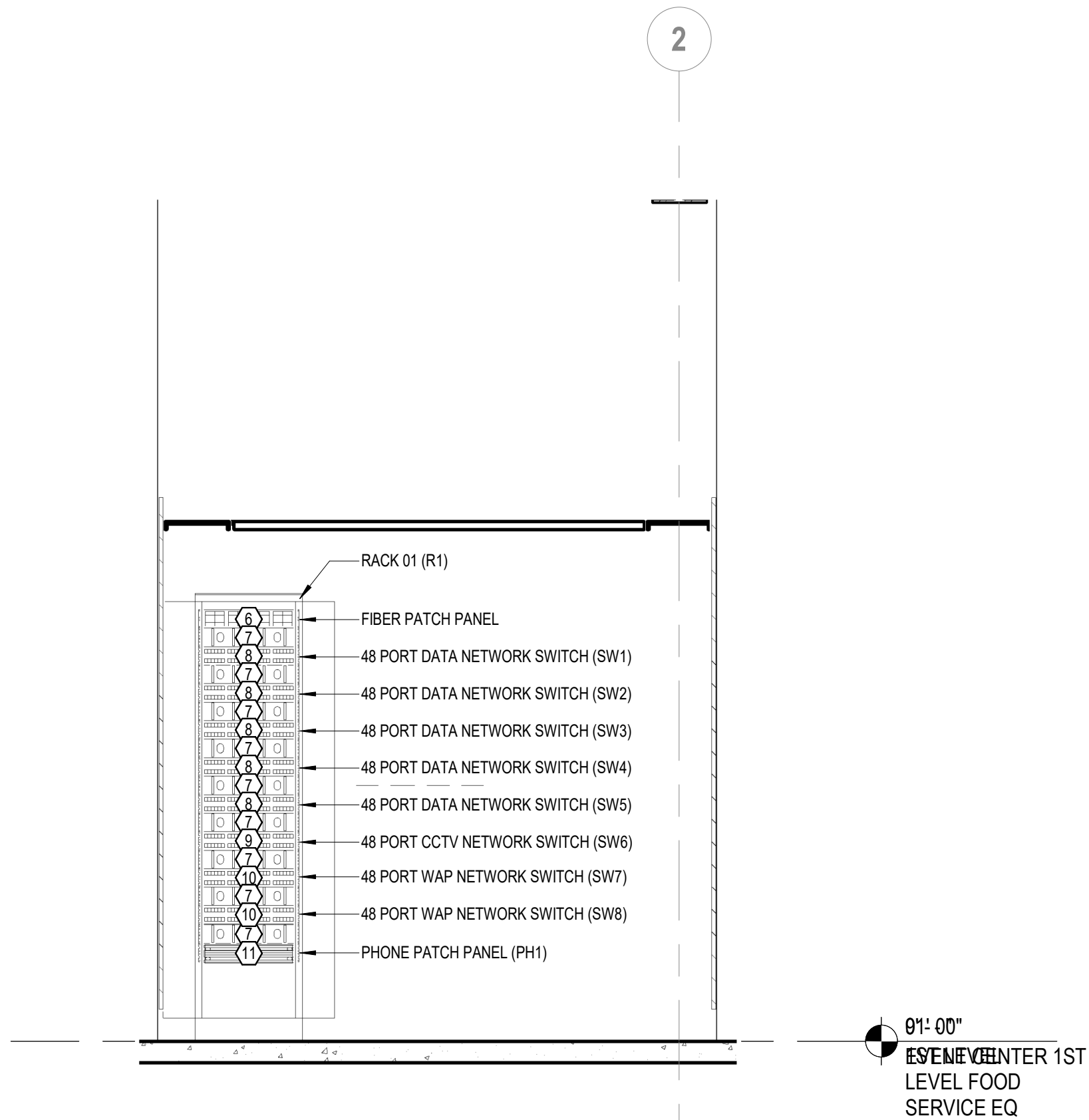
2 ENLARGED PLAN - EVENTS CENTER TELECOM 2.108
1/2" = 1'-0"



1 ENLARGED PLAN - LIBRARY TELECOM ROOM 1.123
1/2" = 1'-0"



4 RACK ELEVATION - EVENTS CENTER TELECOM ROOM 2.108
1/2" = 1'-0"



3 RACK ELEVATION - LIBRARY TELECOM ROOM 1.123
1/2" = 1'-0"

- KEYED NOTES**
- 1 PROVIDE 18" LADDER RACK MOUNTED AT 8' A.F.F.
 - 2 PROVIDE MINIMUM 8' HIGH, 3/4" THICK PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT. MOUNTED AT 8' A.F.F. TO BOTTOM
 - 3 7' X 19" TWO POST RACK. SEE SPECIFICATIONS FOR DETAILS
 - 4 PROVIDE WALL MOUNTED ACCESS CONTROL PANEL AND LOCK POWER SUPPLY PANEL
 - 5 GROUND BUSBAR. SEE SPECIFICATIONS FOR DETAILS
 - 6 PROVIDE RACK MOUNTED FIBER CONNECT PANEL
 - 7 PROVIDE HORIZONTAL WIRE MANAGEMENT BAR
 - 8 PROVIDE RACK MOUNTED DATA PATCH PANEL
 - 9 PROVIDE RACK MOUNTED CCTV PATCH PANEL
 - 10 PROVIDE RACK MOUNTED WAP PATCH PANEL
 - 11 PROVIDE RACK MOUNTED PHONE PATCH PANEL
 - 12 PROVIDE WALL MOUNTED INTRUSION DETECTION PANEL

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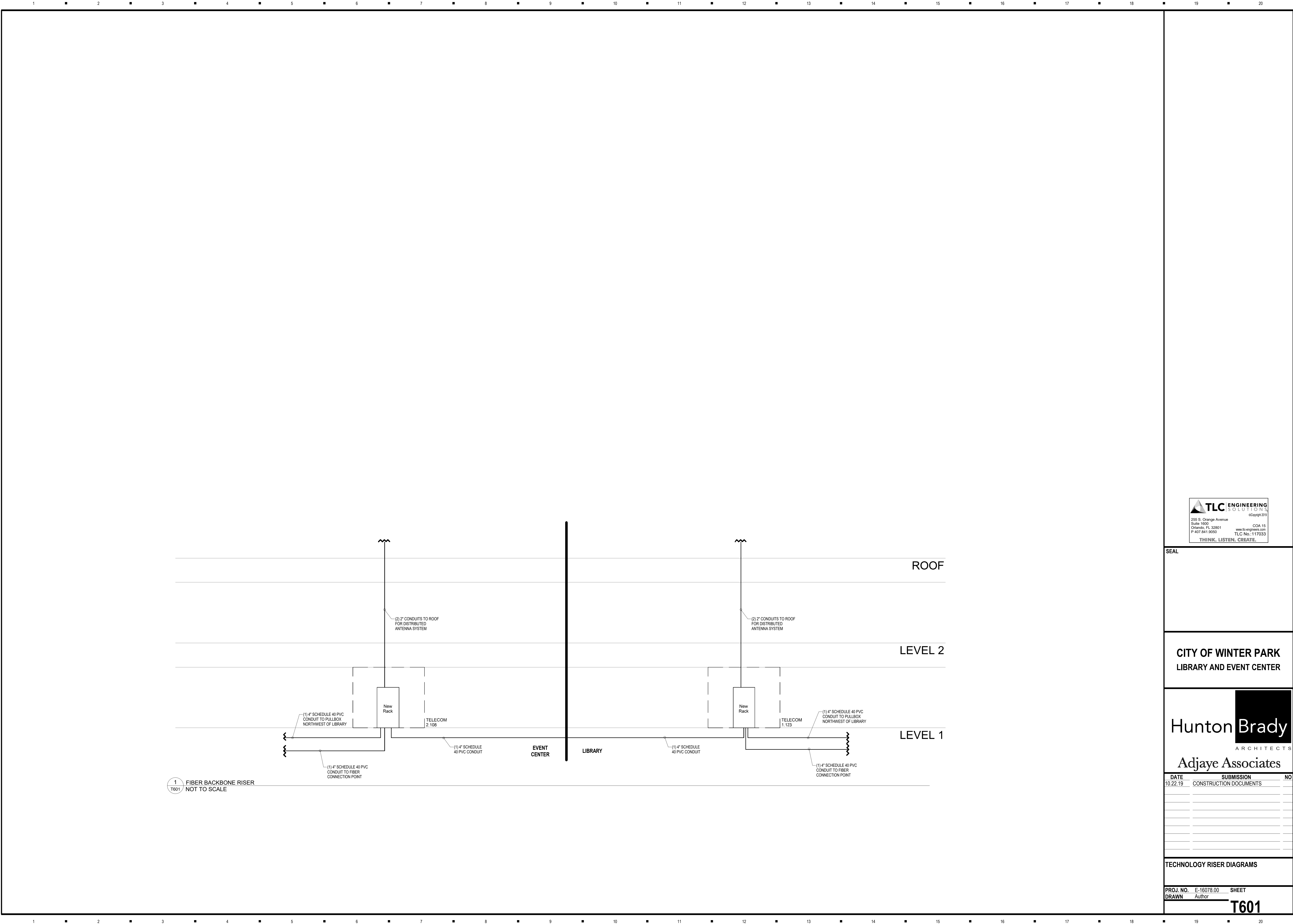
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TECHNOLOGY ENLARGED PLANS

PROJ. NO. E-16078.00 SHEET
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T501



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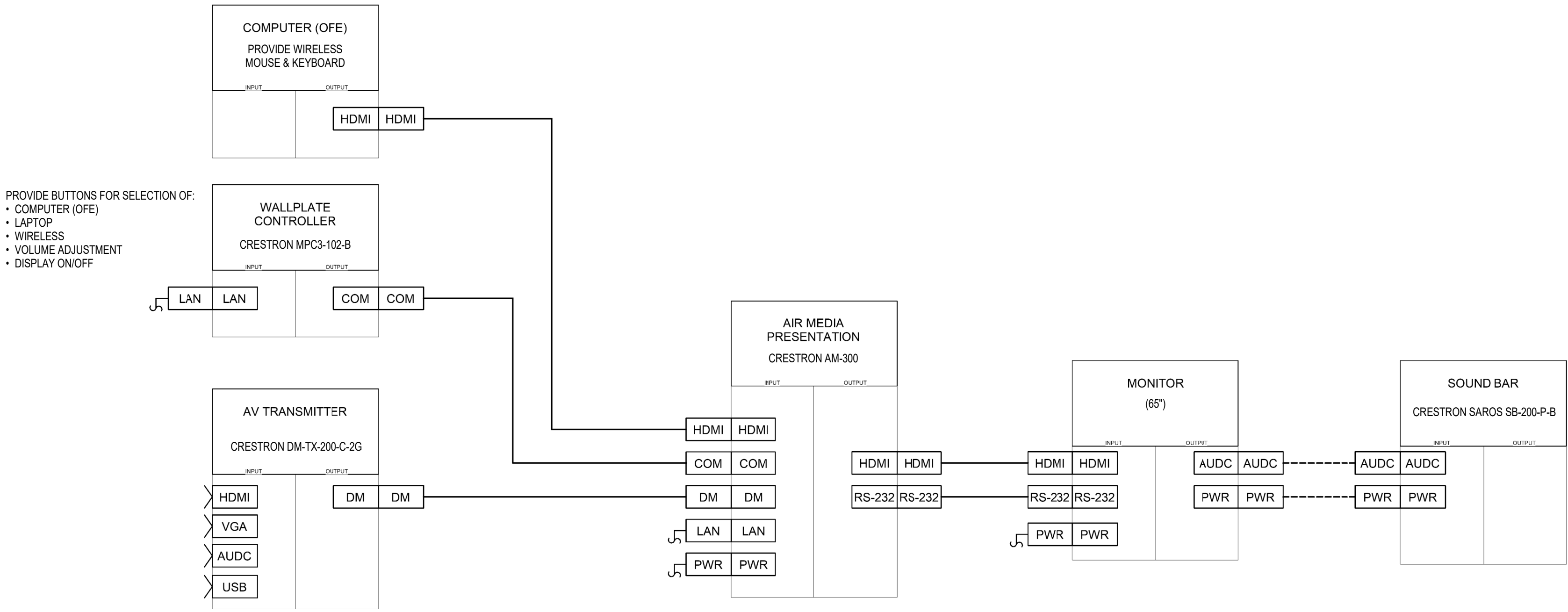
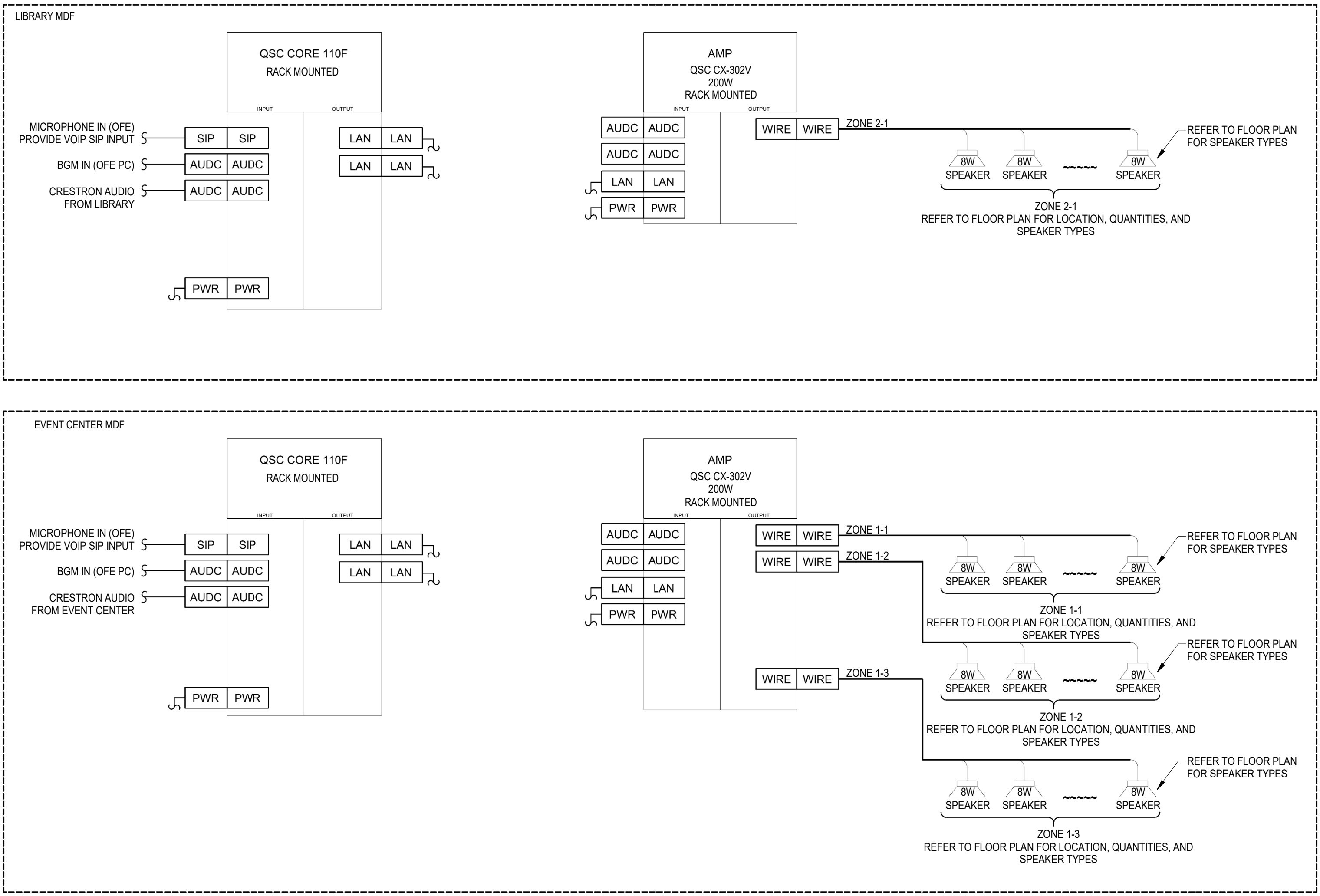
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TECHNOLOGY RISER DIAGRAMS

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T601

1 AV RISER - PAGING AND BGM
N.T.S.



2 AV RISER - COLLABORATION
ROOM 1.210 / 1.229 / 1.231 /
RESERVATION OFFICE 2.121
N.T.S.



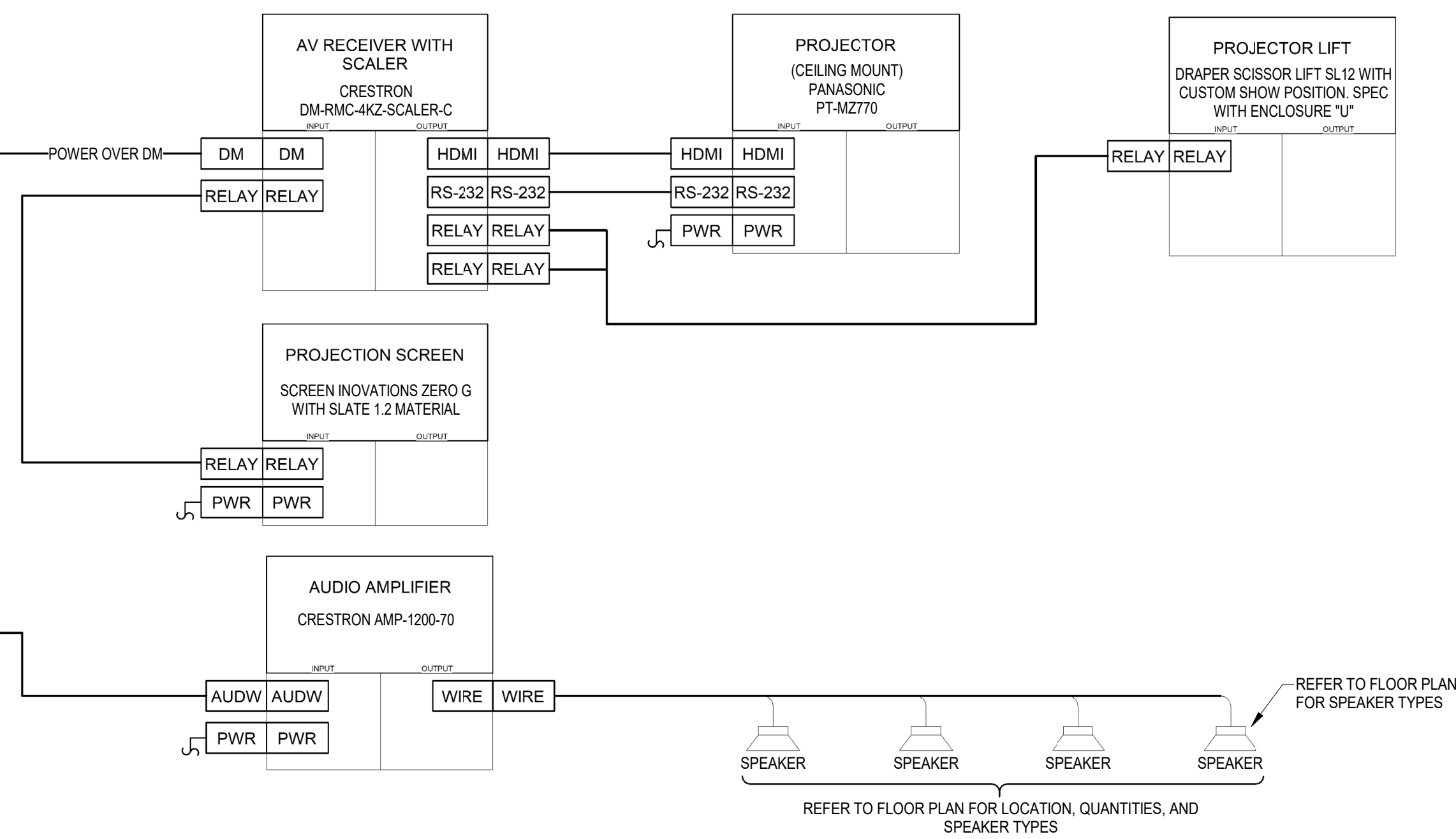
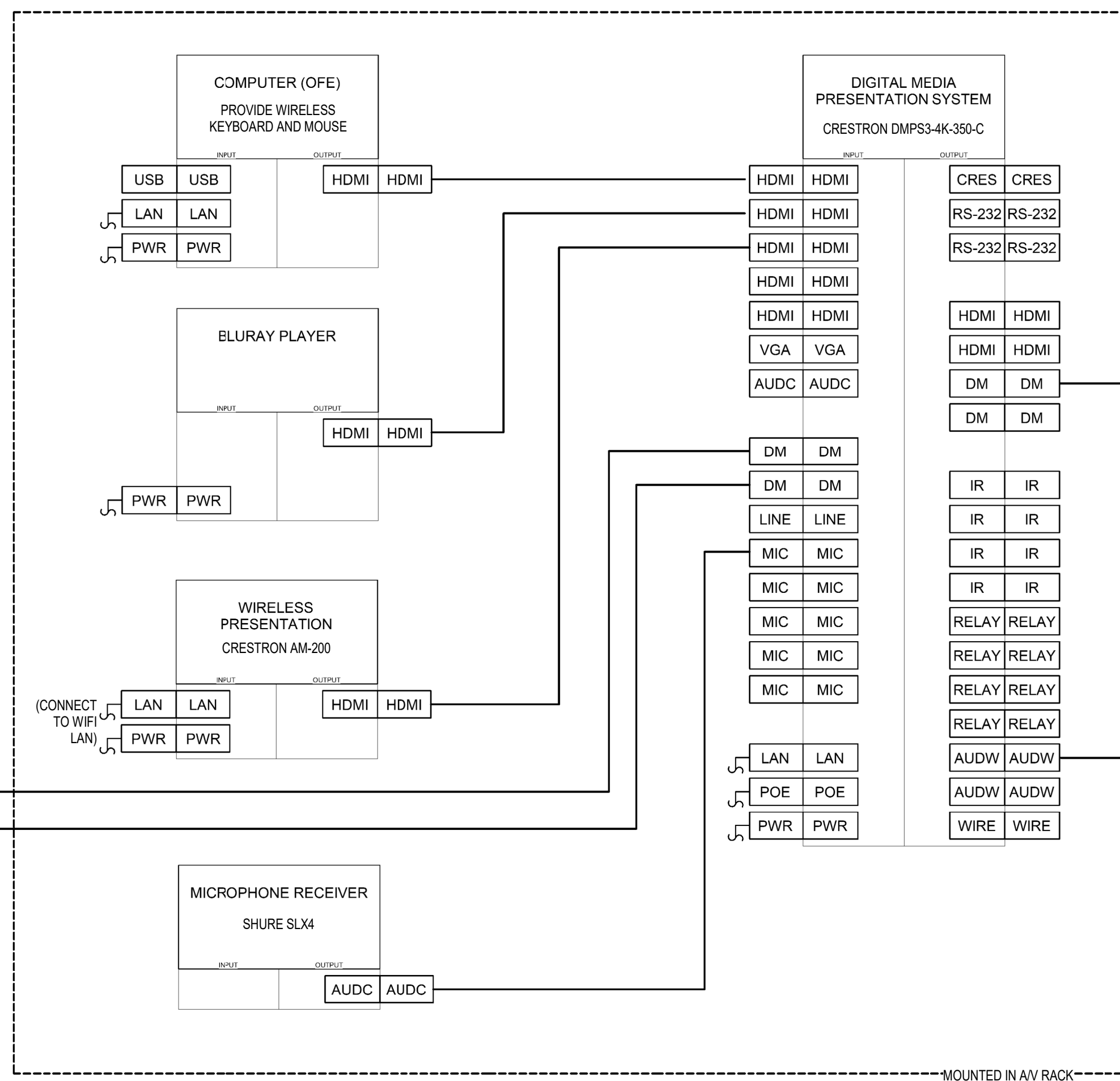
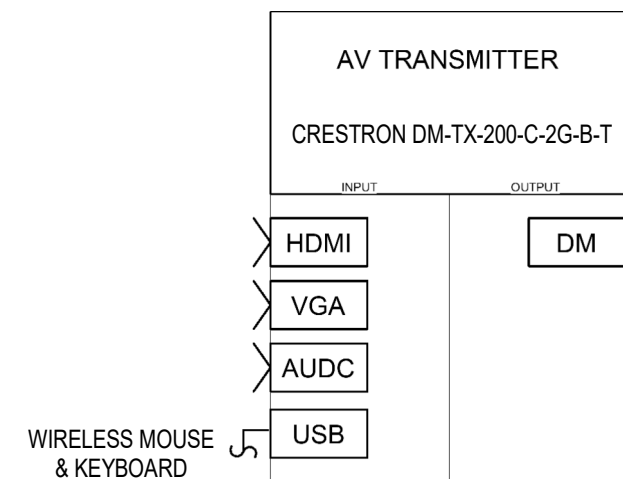
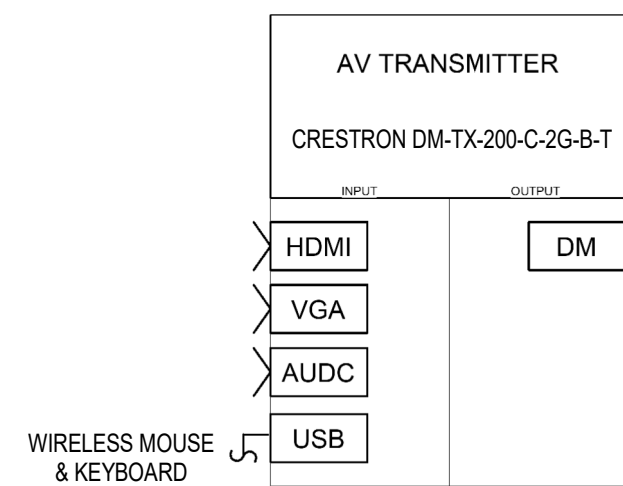
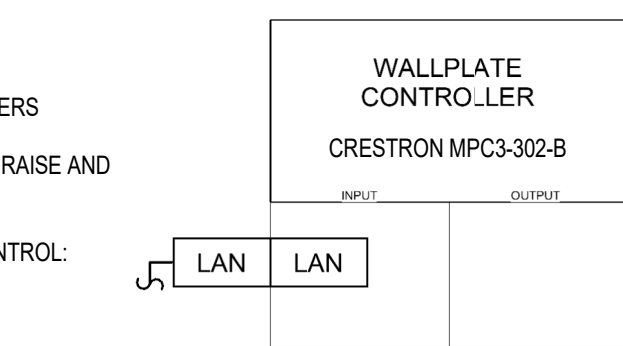
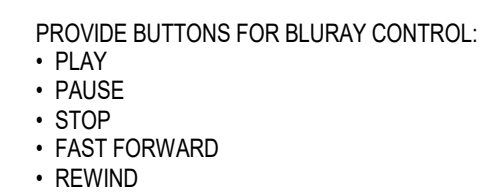
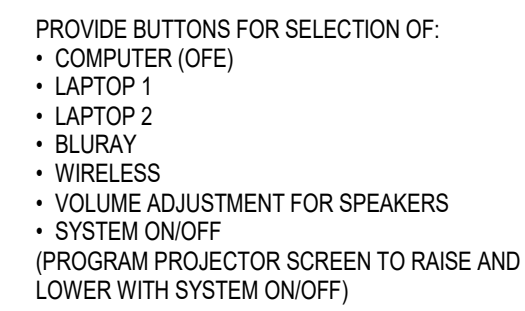
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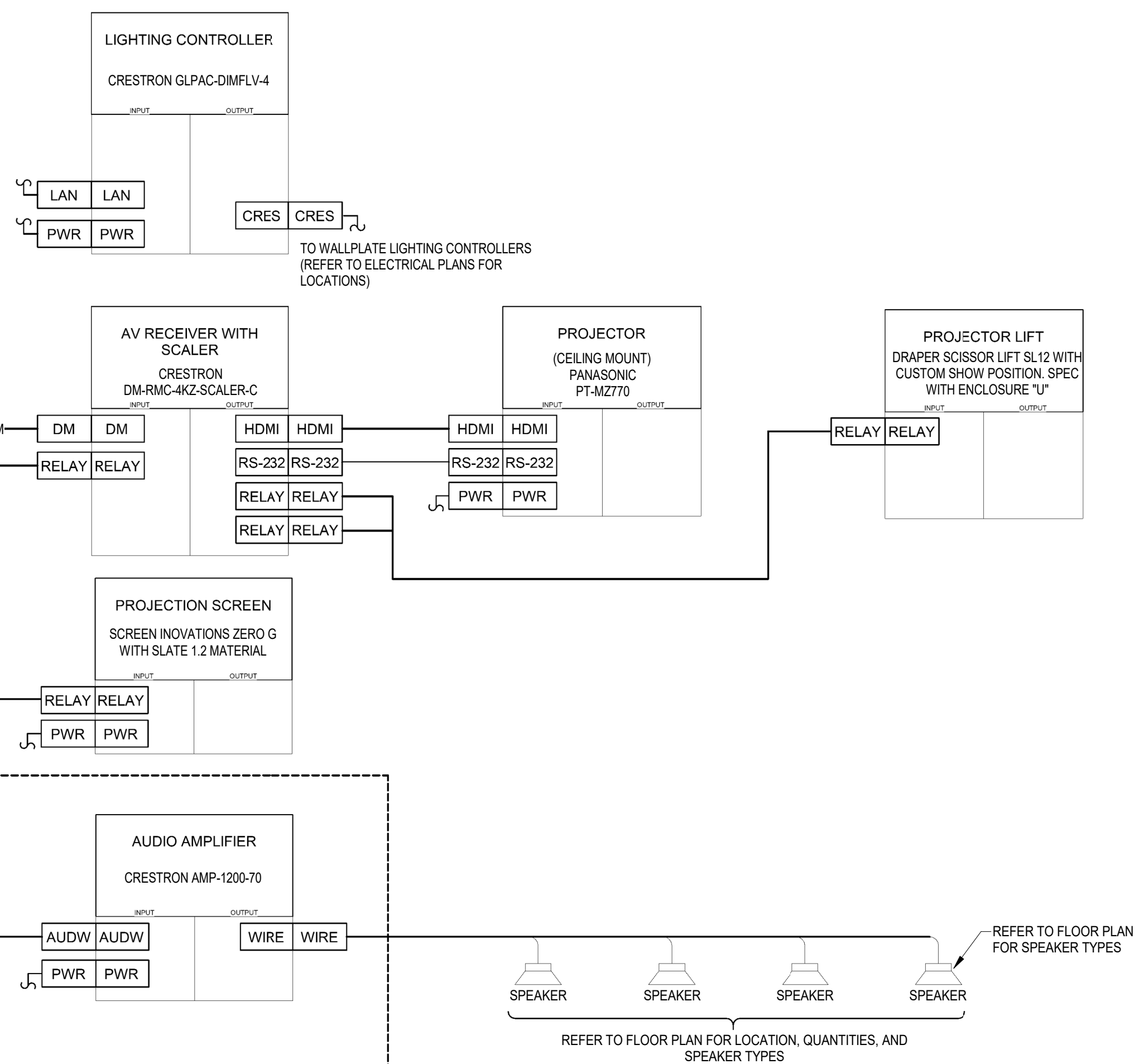
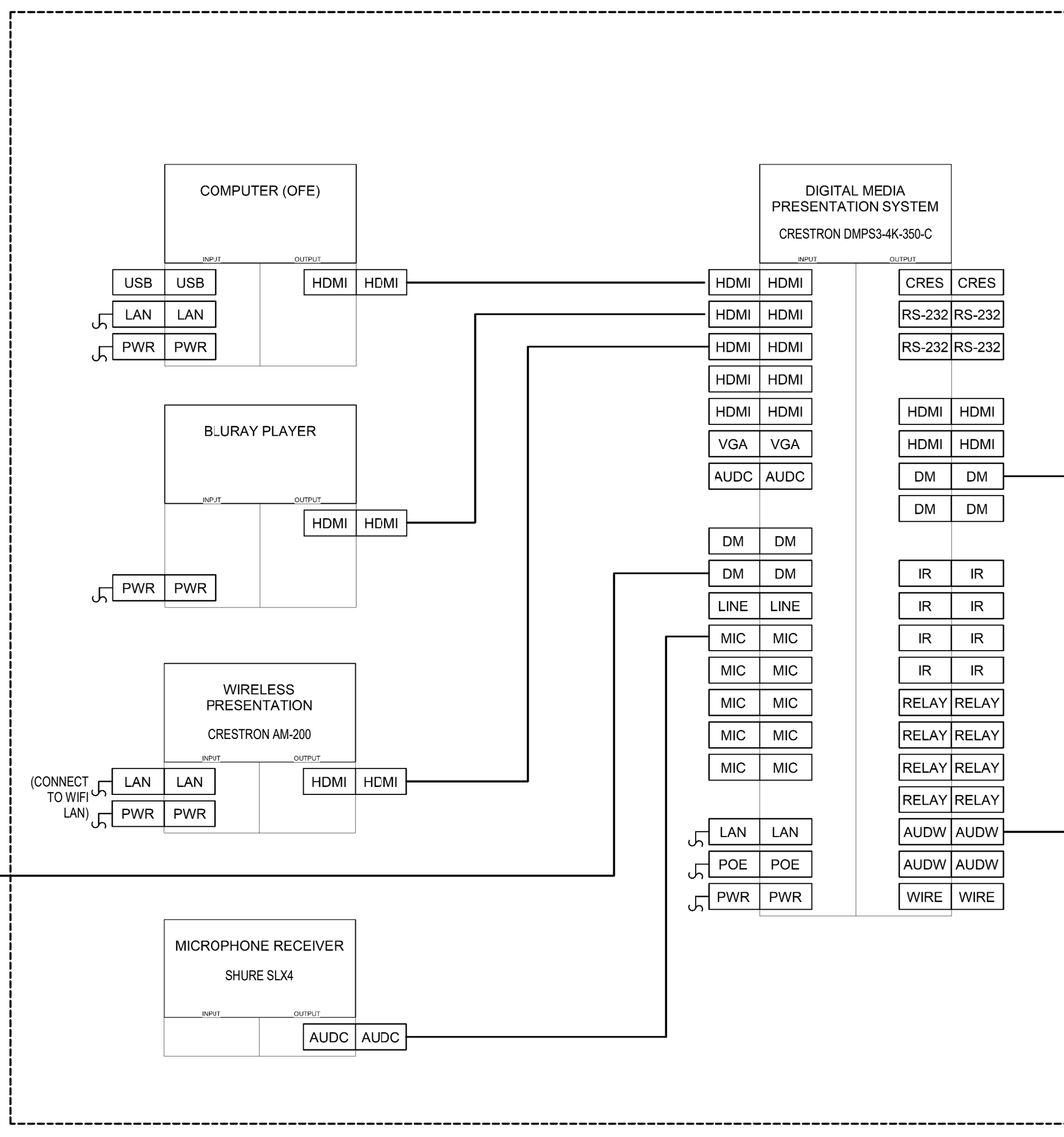
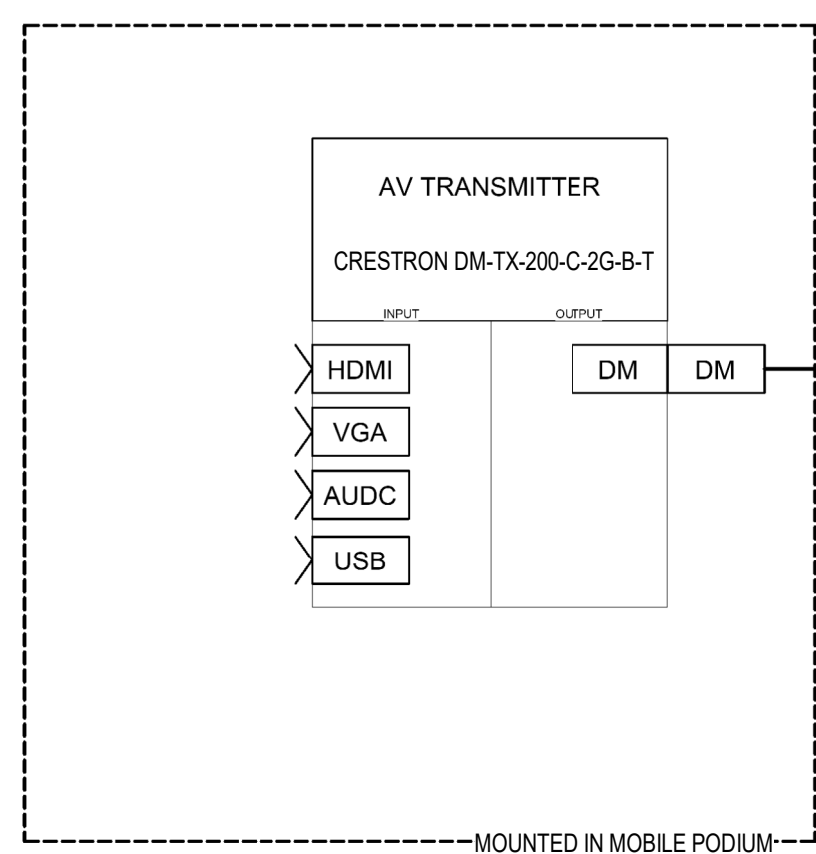
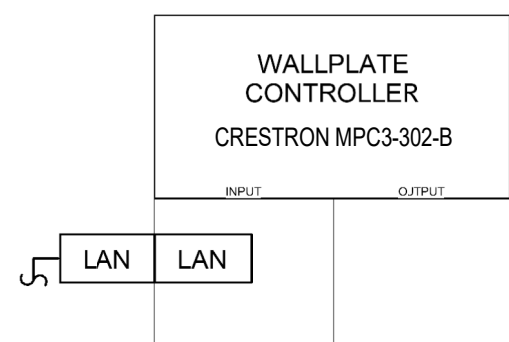
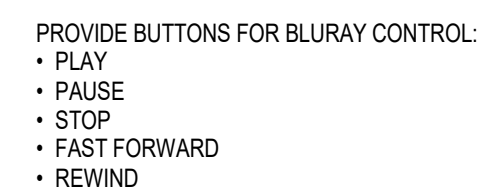
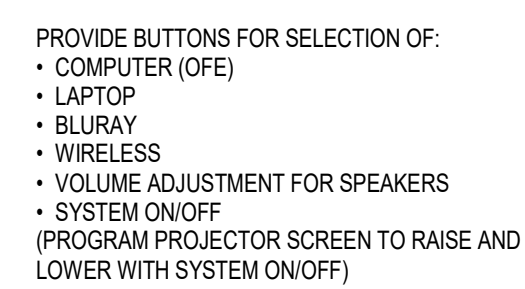
TECHNOLOGY AV RISER DIAGRAMS

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T611



1	AV RISER - JR. BALLROOM 2.212
---	-------------------------------

12" = 1'-0"



2	AV RISER - MEETING ROOM 1.133
---	-------------------------------

12" = 1'-0"



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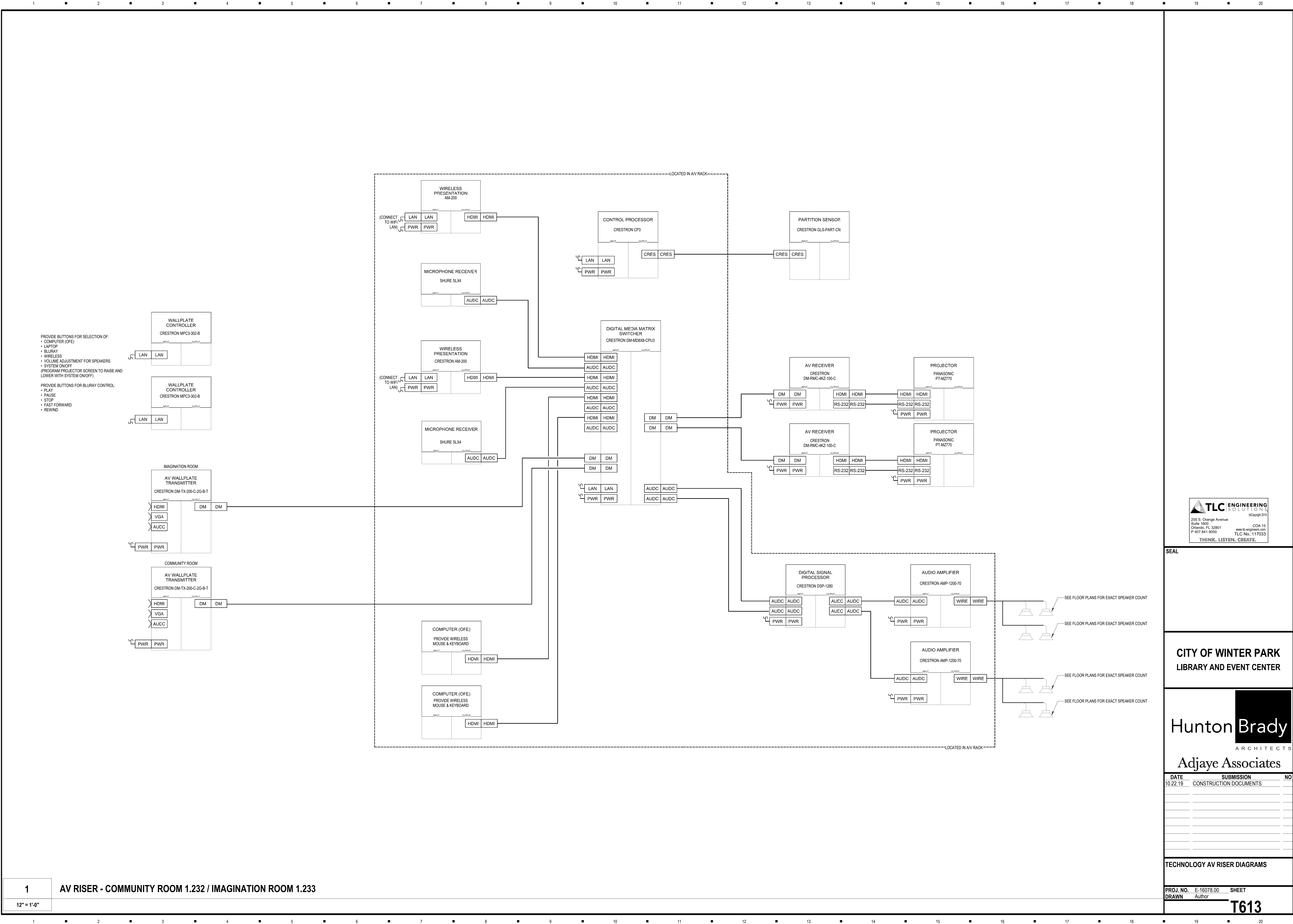
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TECHNOLOGY AV RISER DIAGRAMS

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SEAL

SEE FLOOR PLANS FOR EXACT SPEAKER COUNT

SEE FLOOR PLANS FOR EXACT SPEAKER COUNT

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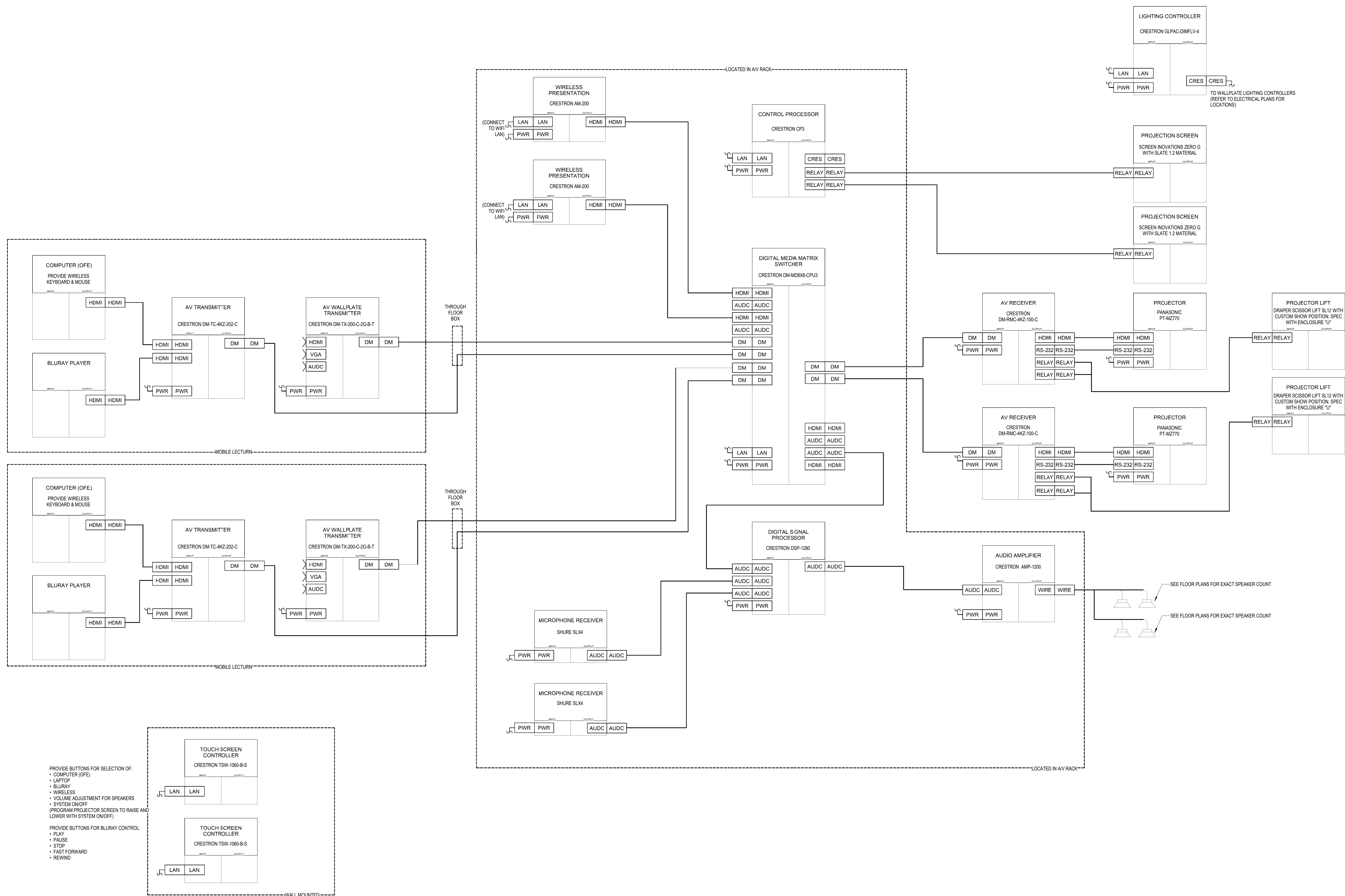


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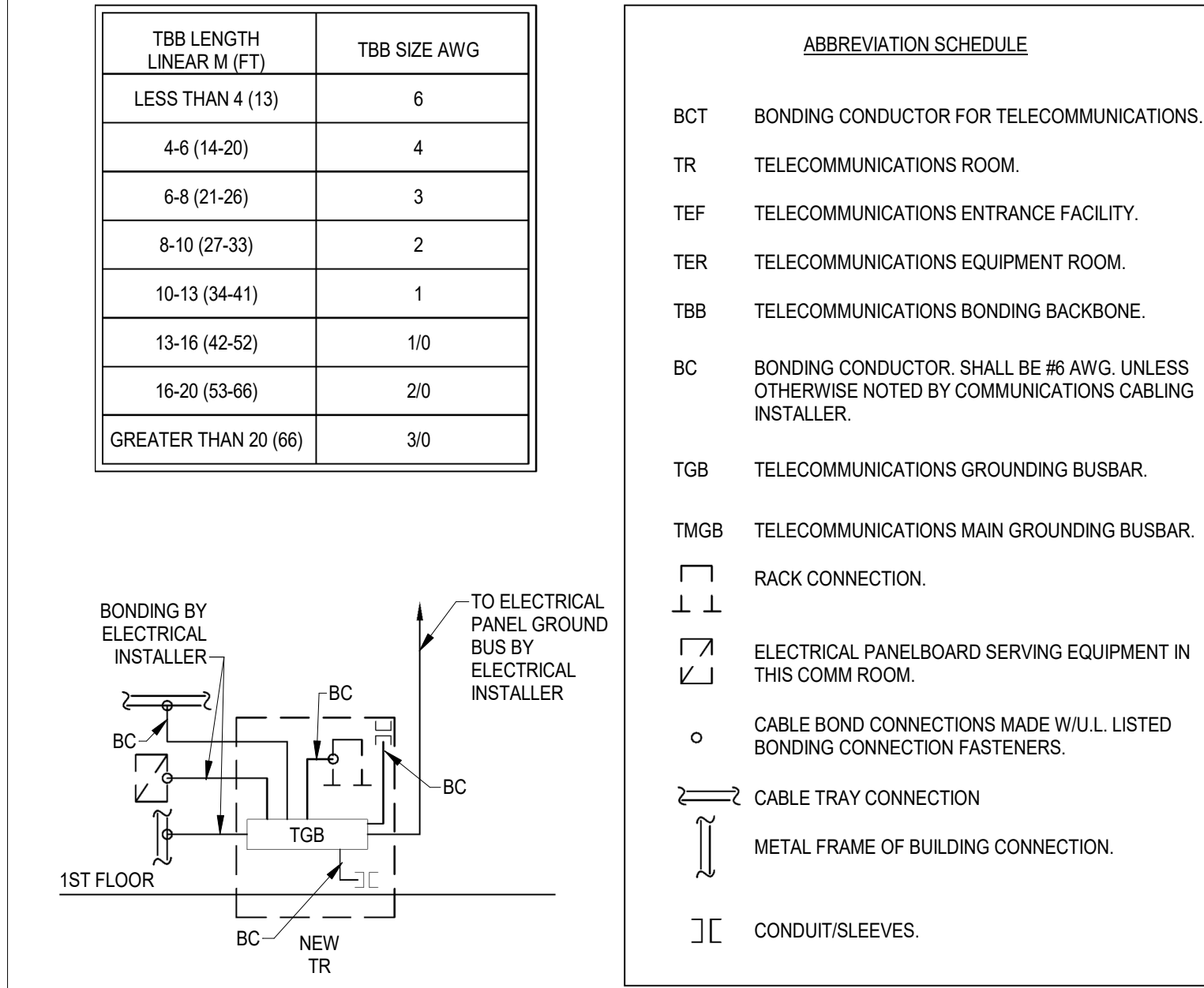
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TECHNOLOGY AV RISER DIAGRAMS

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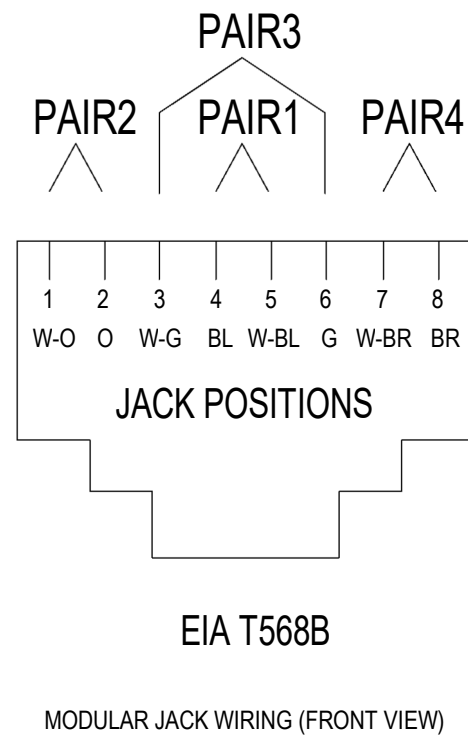
T614

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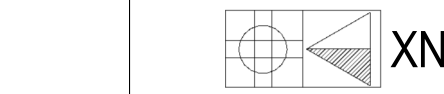


GROUNDING AND BONDING DIAGRAM
No Scale

7

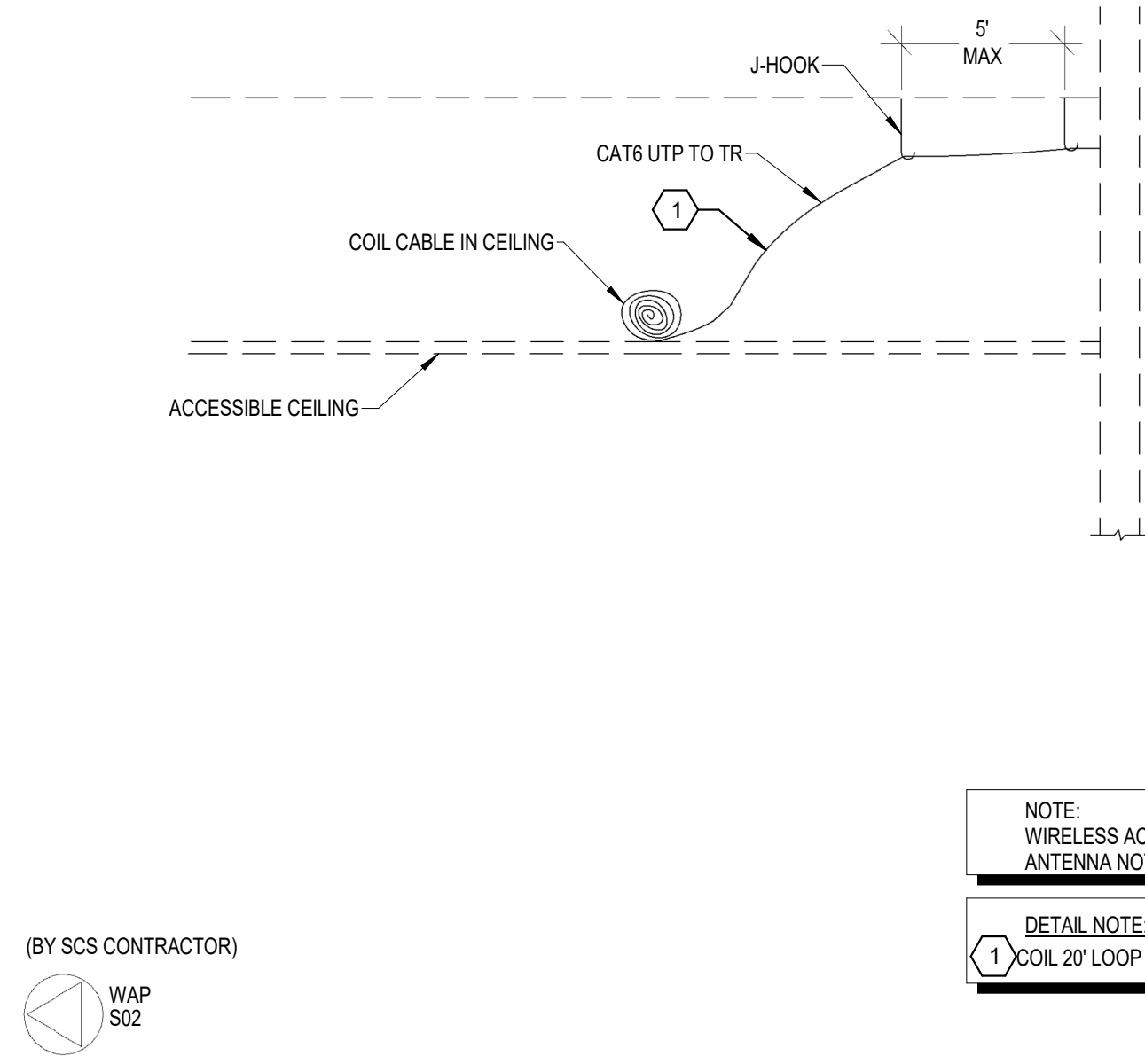


MODULAR JACK WIRING DETAIL
No Scale



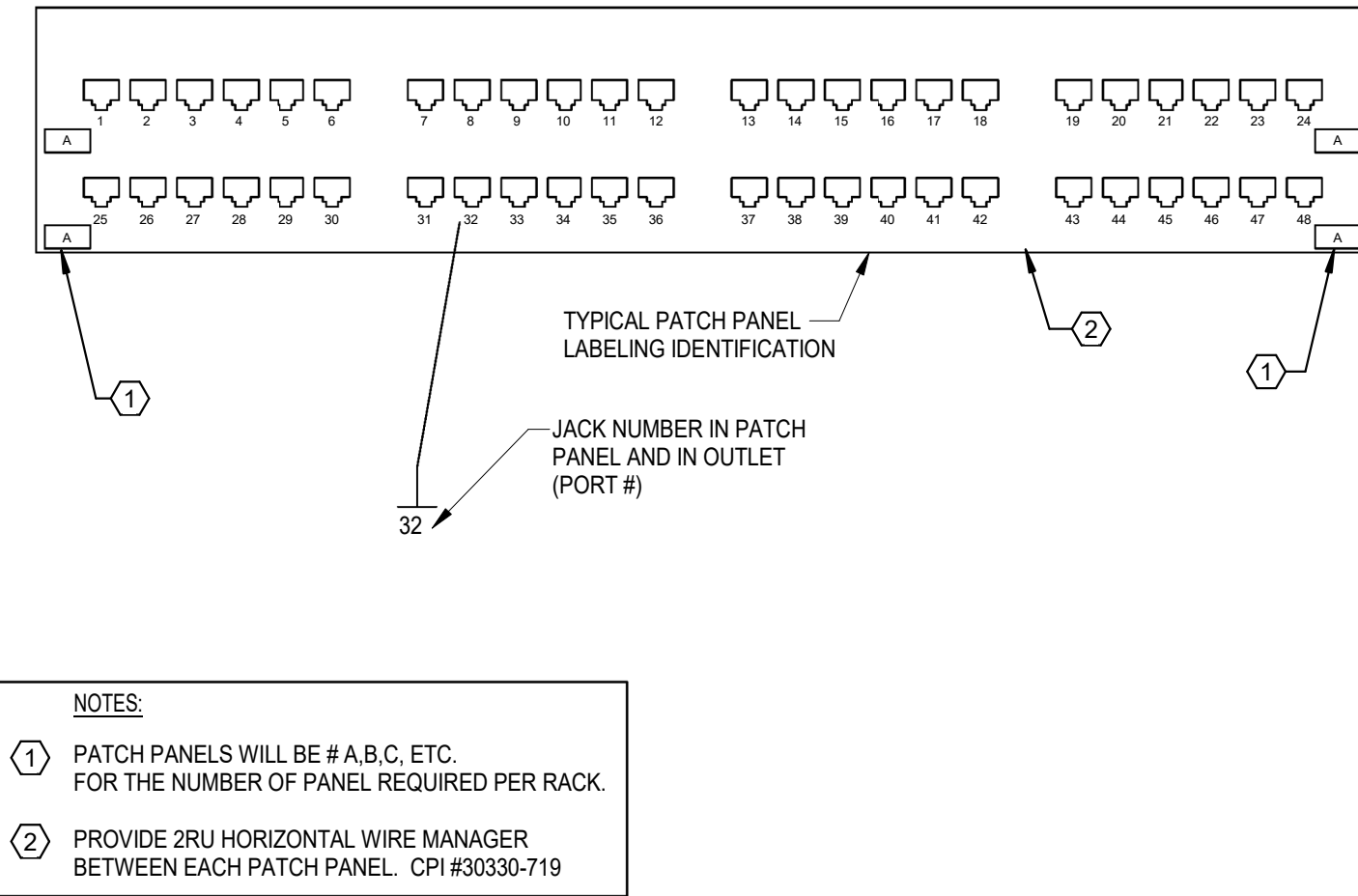
FLOOR BOX OUTLET - VOICE/DATA
No Scale

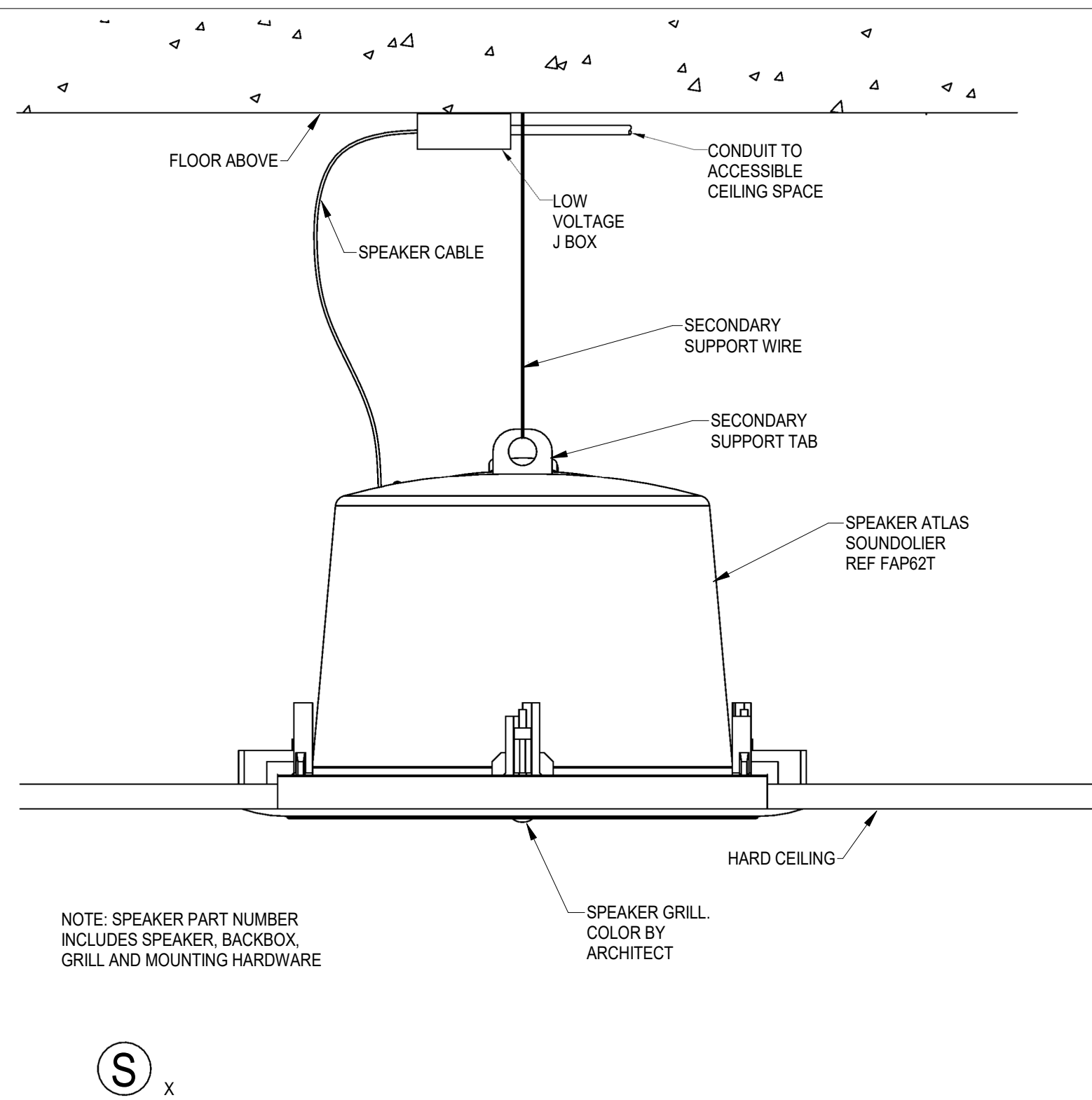
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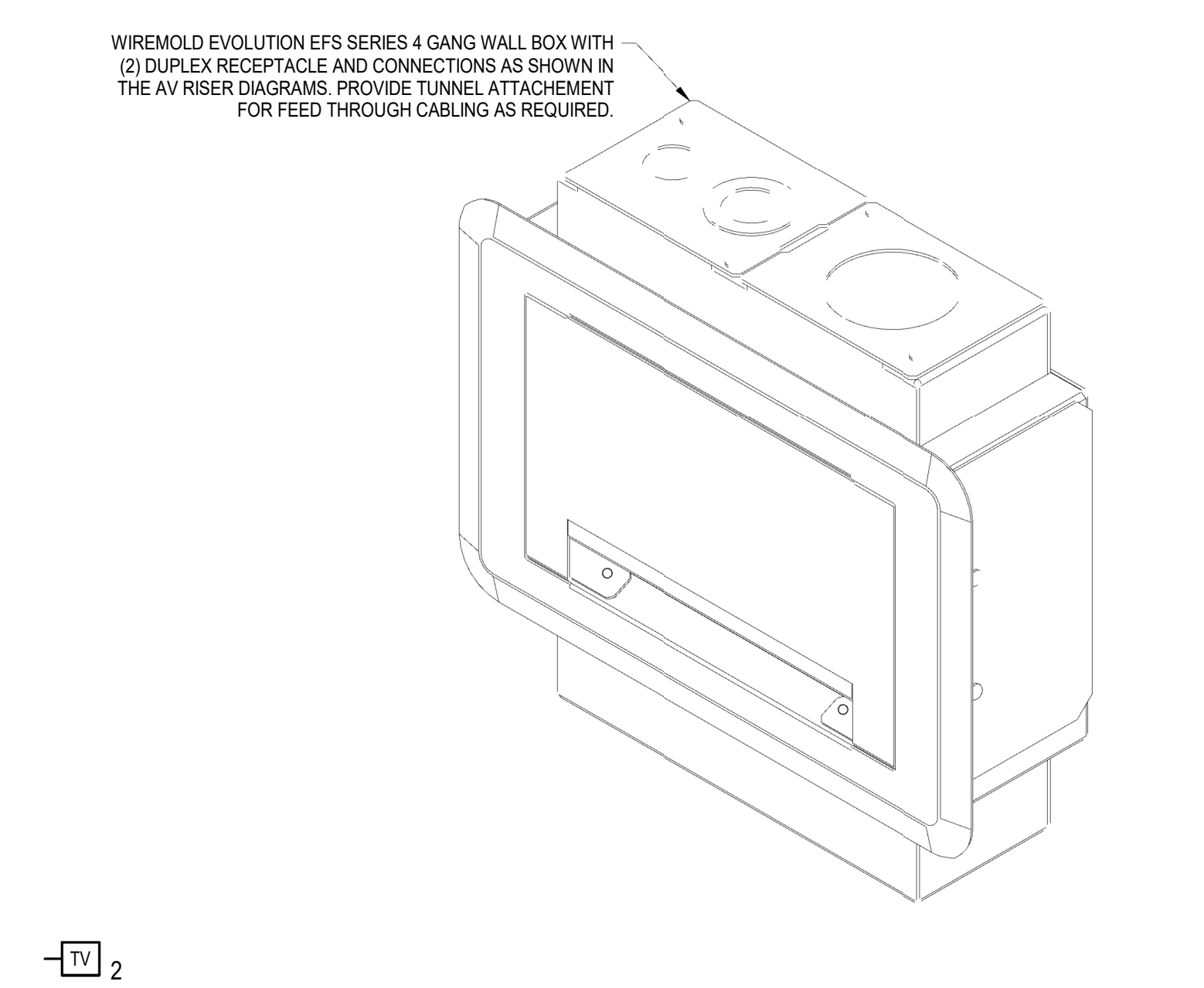
OUTLET MOUNTING FOR WIRELESS ACCESS POINT
No Scale

8

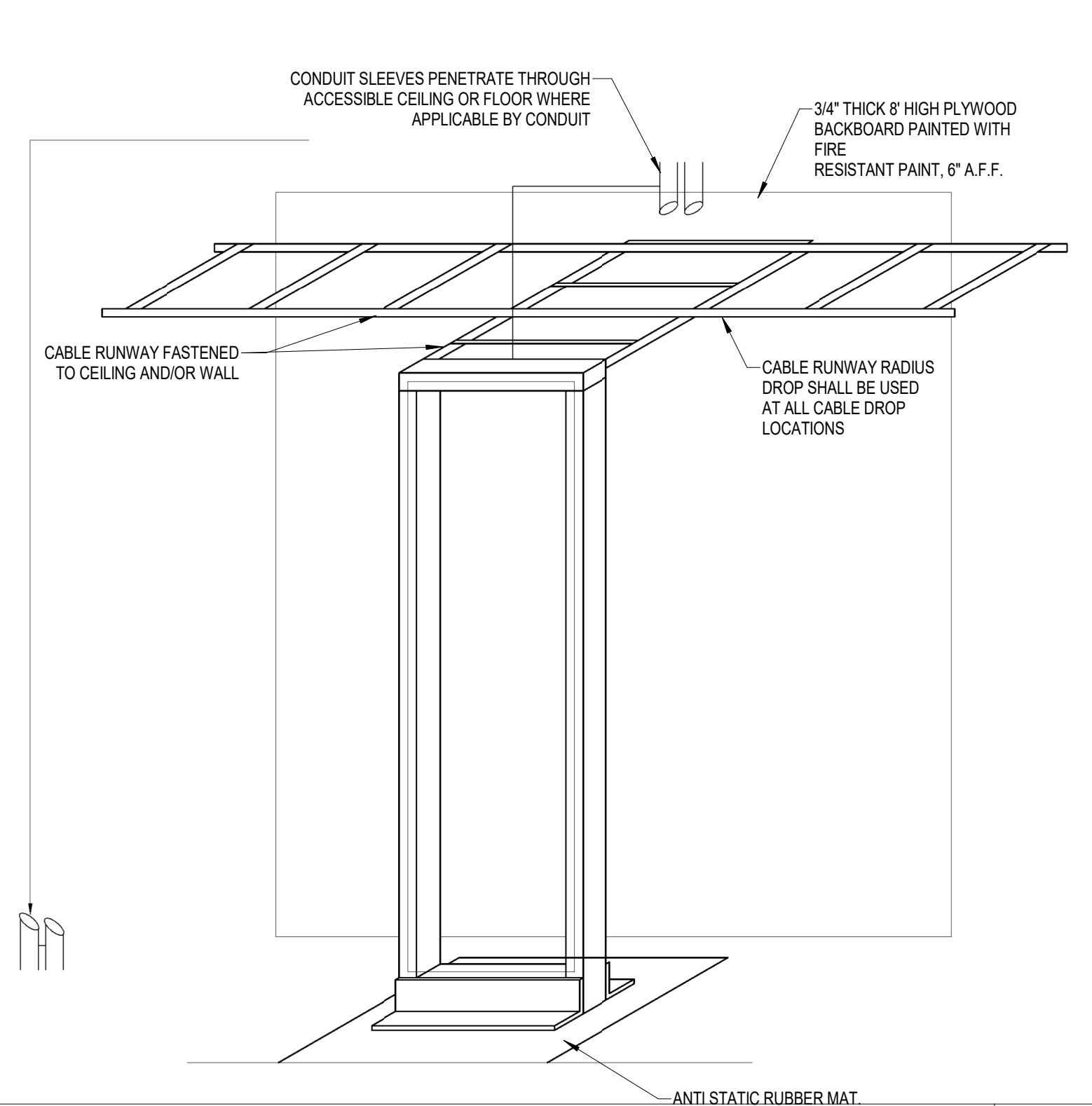




CEILING MOUNTED SPEAKER No Scale	1
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FLAT PANEL WALL BOX No Scale	2
--	----------

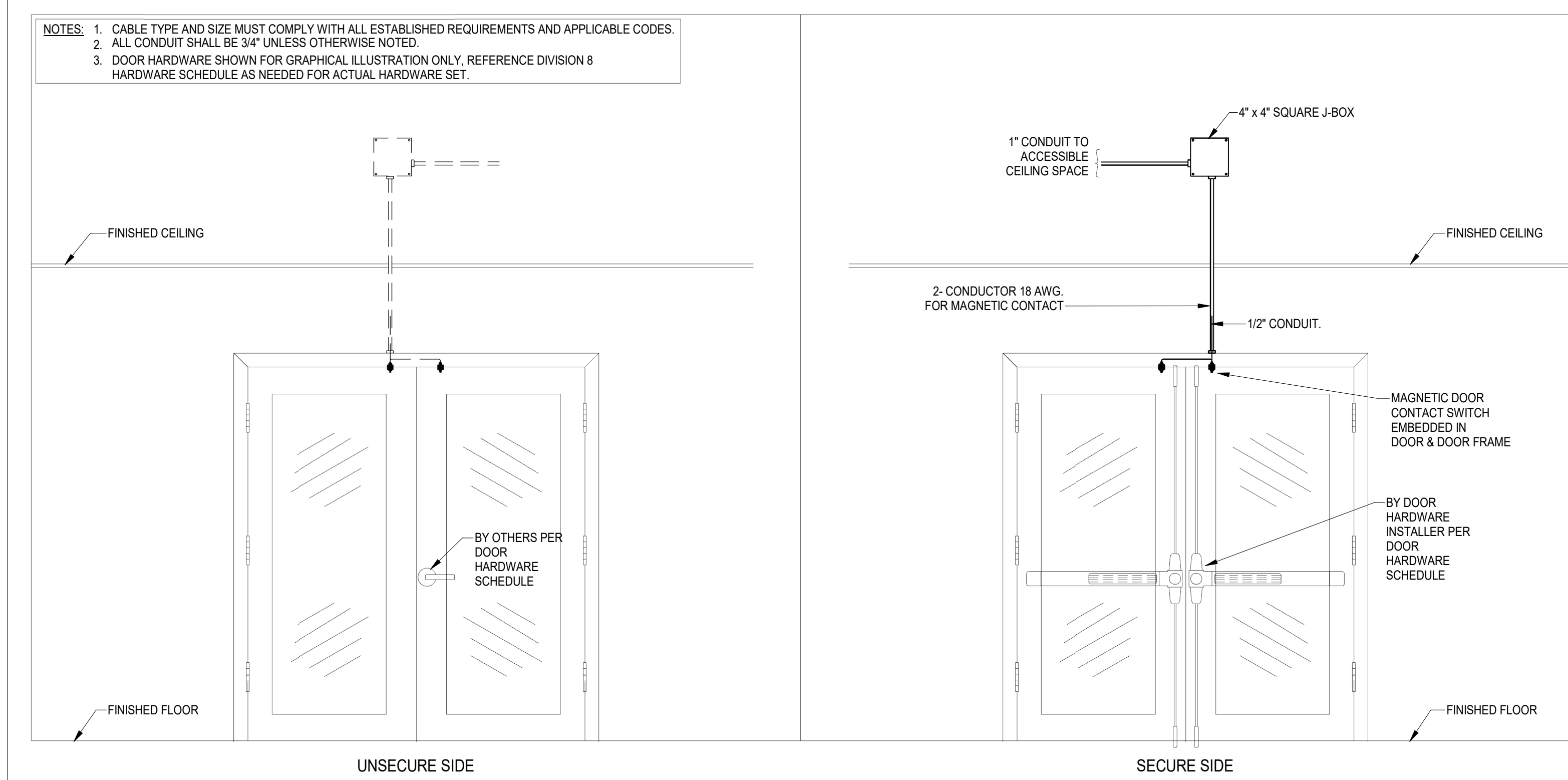


RACK ISOMETRIC VIEW 3

No Scale

T702

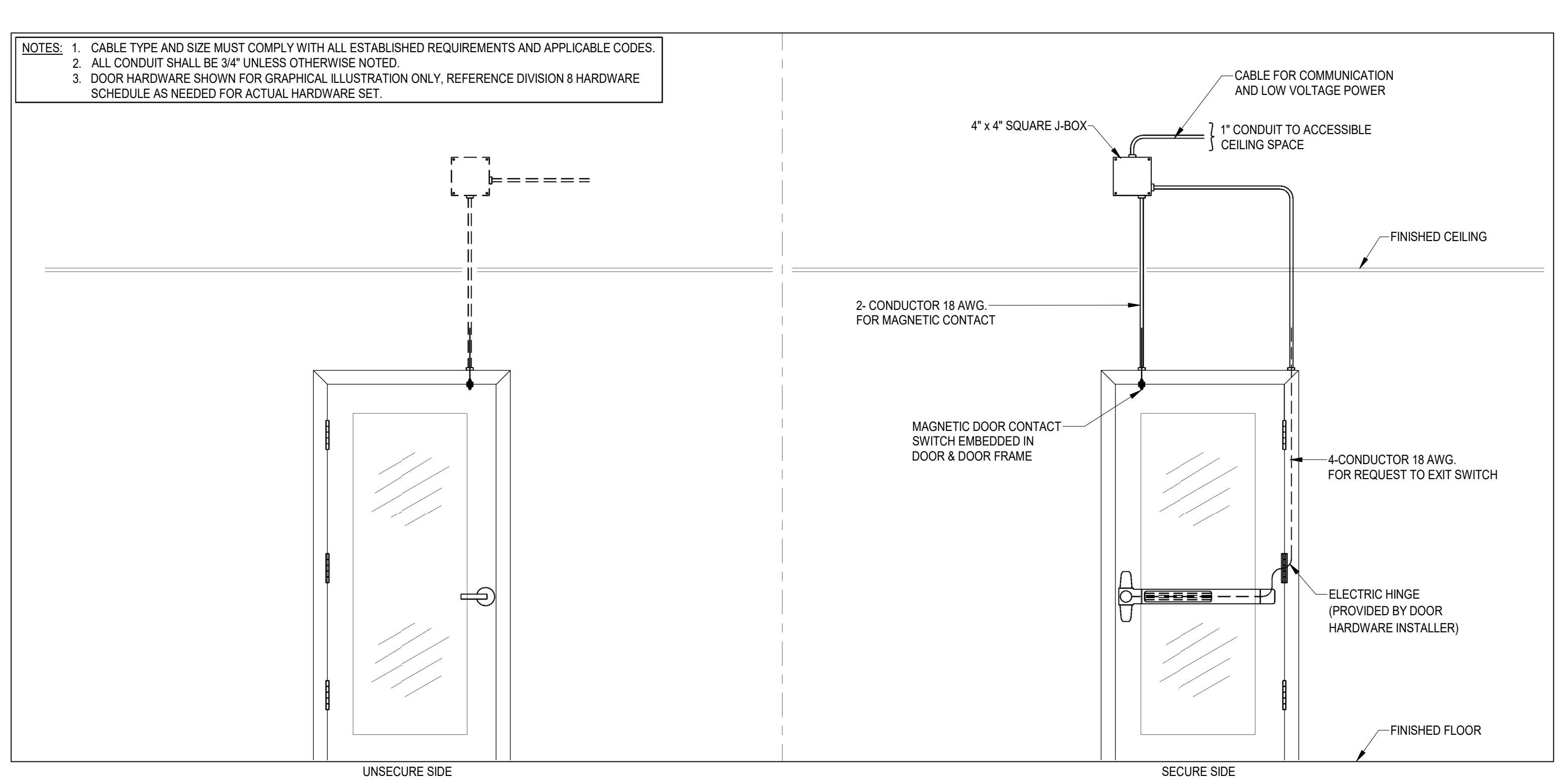
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SECURITY STOREFRONT DOUBLE DOOR - MAGNETIC DOOR POSITION SWITCH (DPS) - DOOR TYPE "D"

No Scale

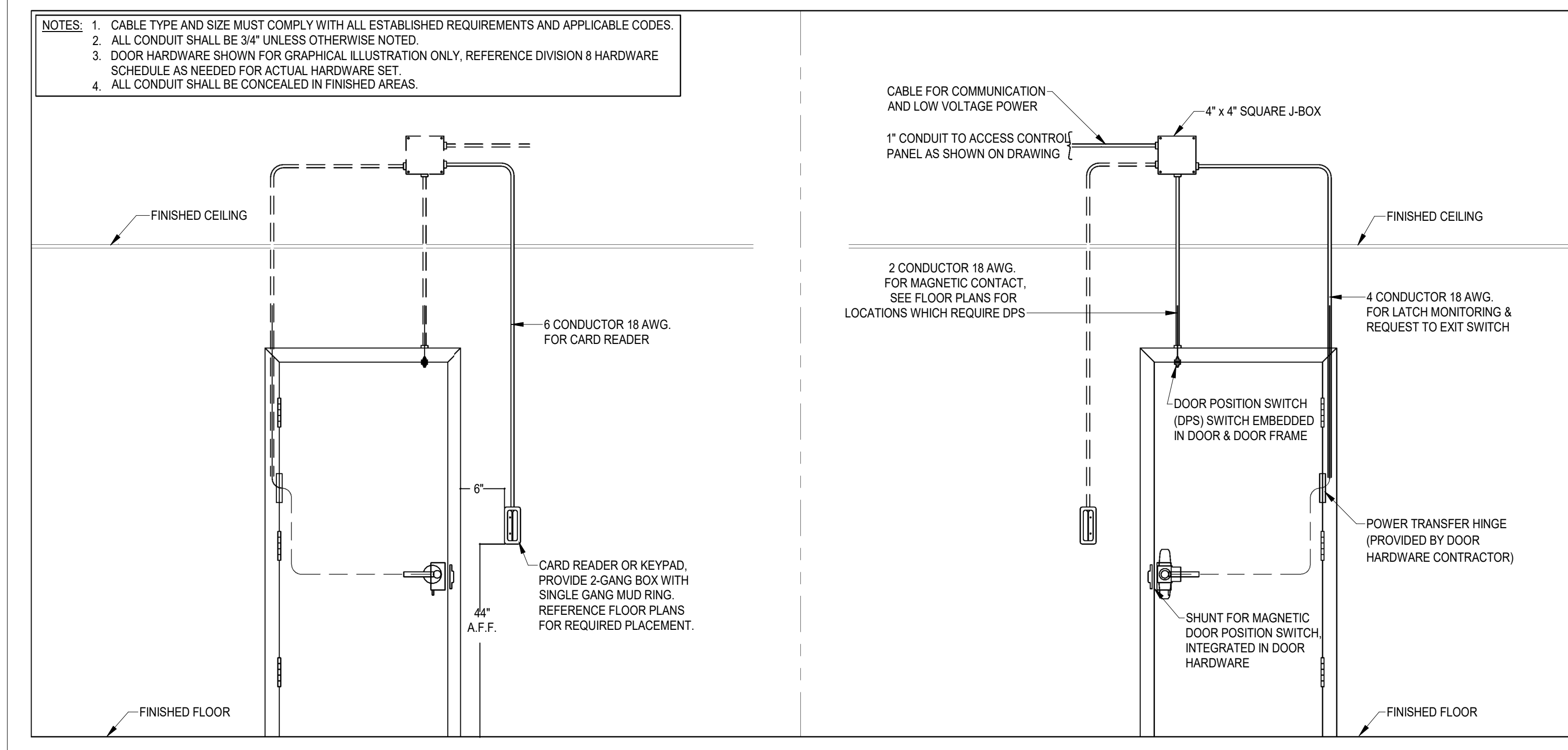
4



SECURITY STOREFRONT SINGLE DOOR - MAGNETIC DOOR POSITION SWITCH (DPS) - DOOR TYPE "A"

No Scale

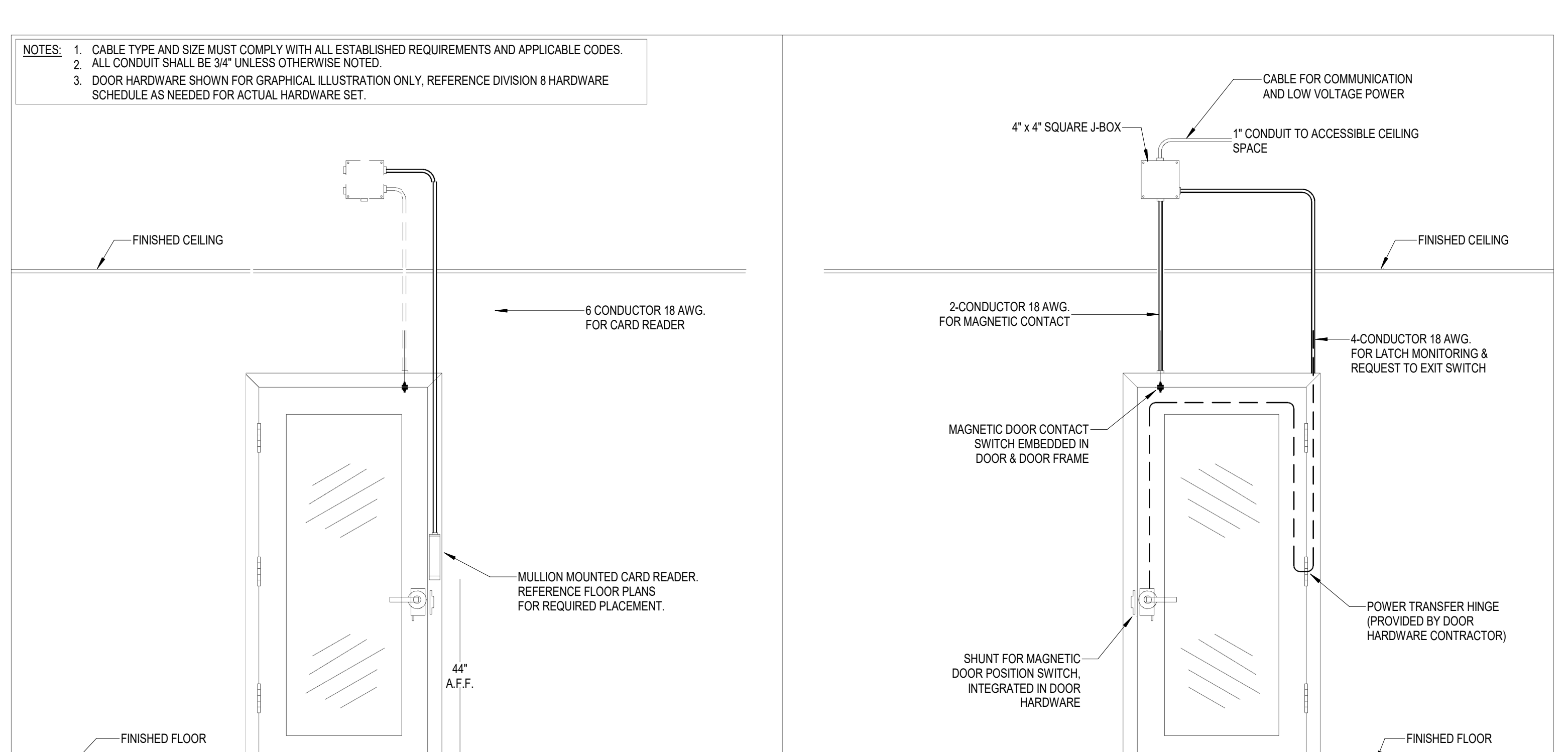
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SECURITY SINGLE DOOR - ELECTRIC MORTISE LOCK WITH CARD READER AND DPS - DOOR TYPE "E"

No Scale

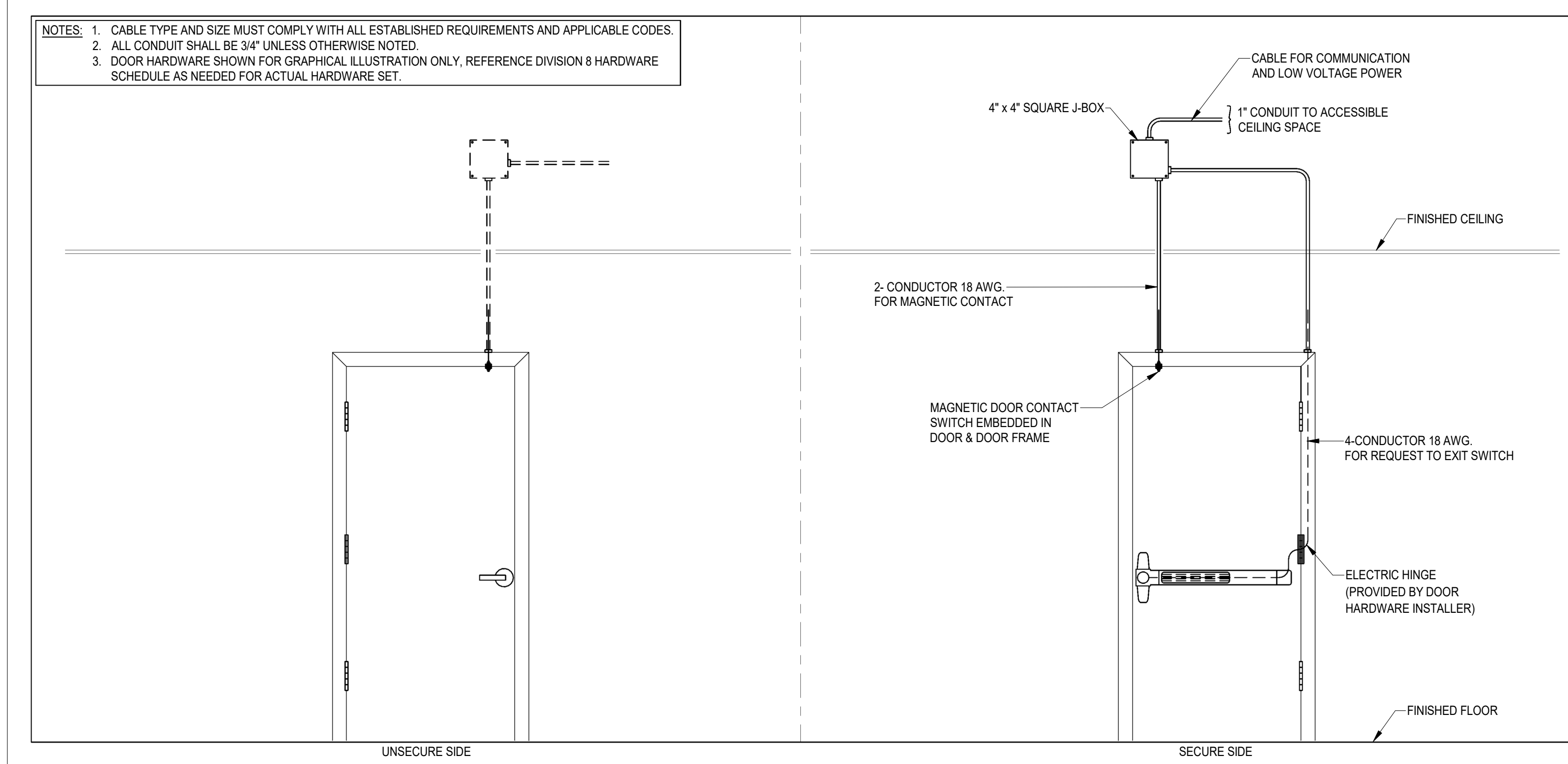
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SECURITY STOREFRONT SINGLE DOOR - ELECTRIC MORTISE LOCK WITH CARD READER - DOOR TYPE "B"

No Scale

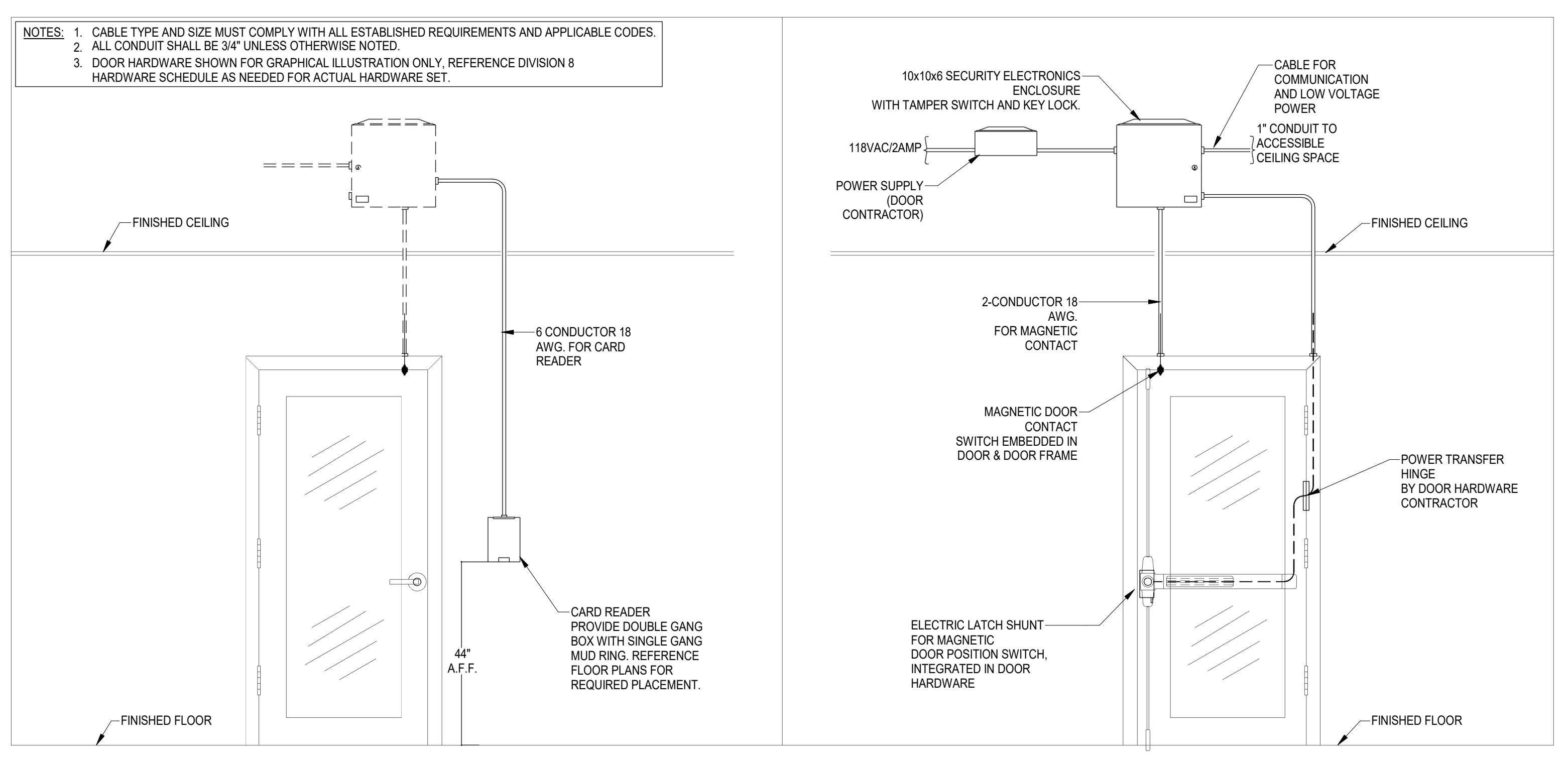
2



SECURITY SINGLE DOOR - MAGNETIC DOOR POSITION SWITCH (DPS) - DOOR TYPE "F"

No Scale

6



SECURITY STOREFRONT SINGLE DOOR - ELECTRIC LATCH WITH CARD READER - DOOR TYPE "C"

No Scale

3

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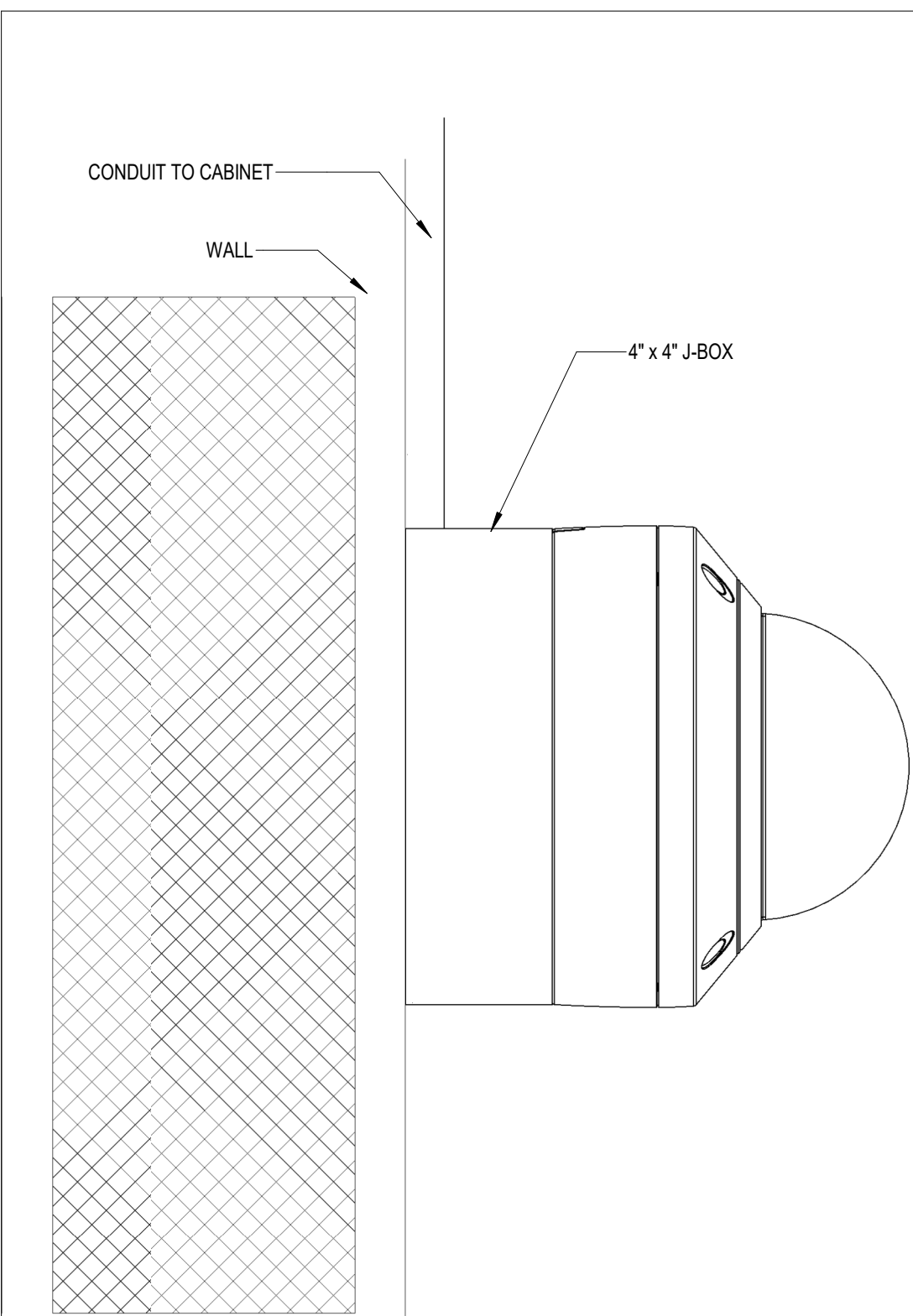
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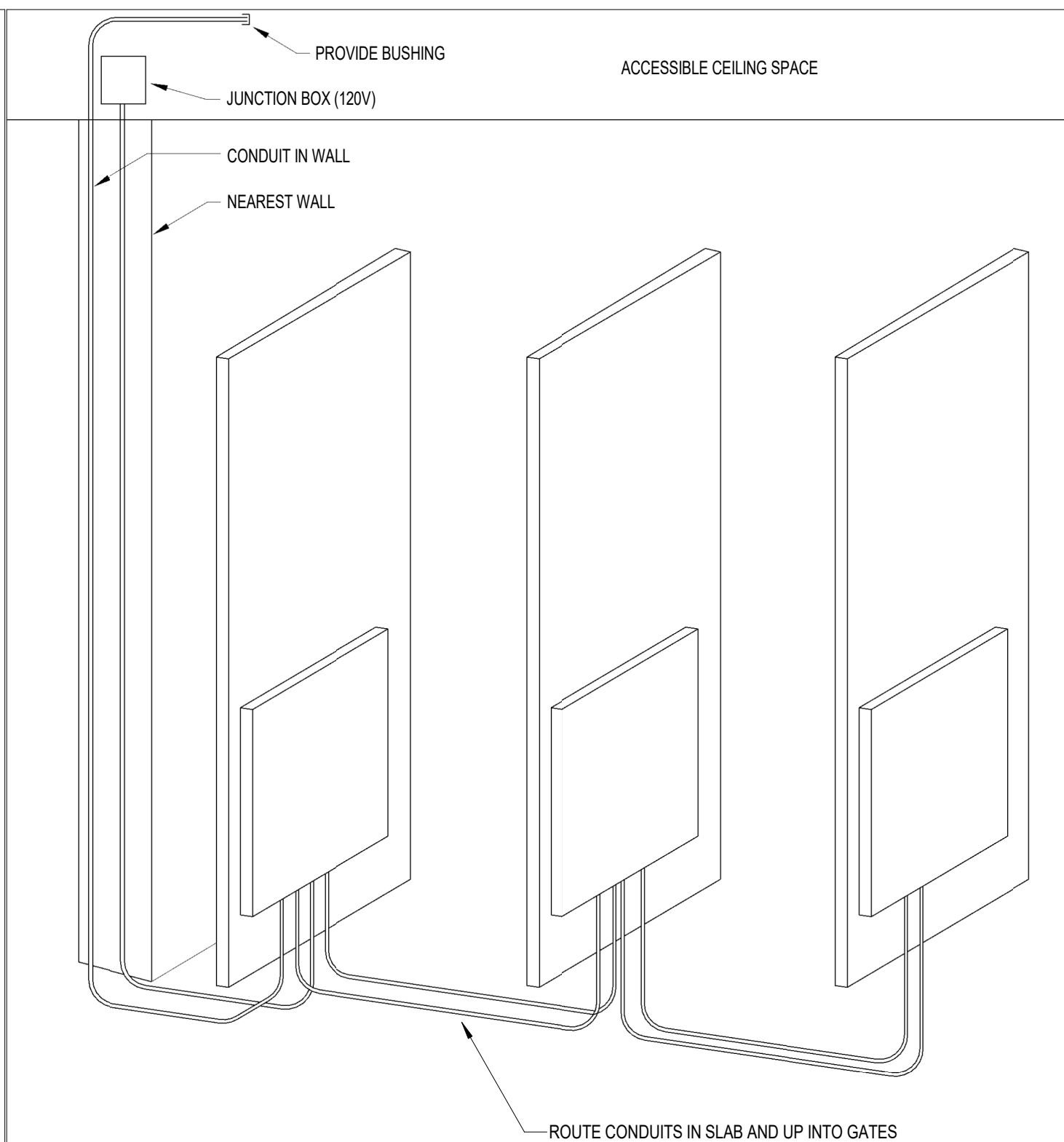
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DRAWN	Author	
		T703

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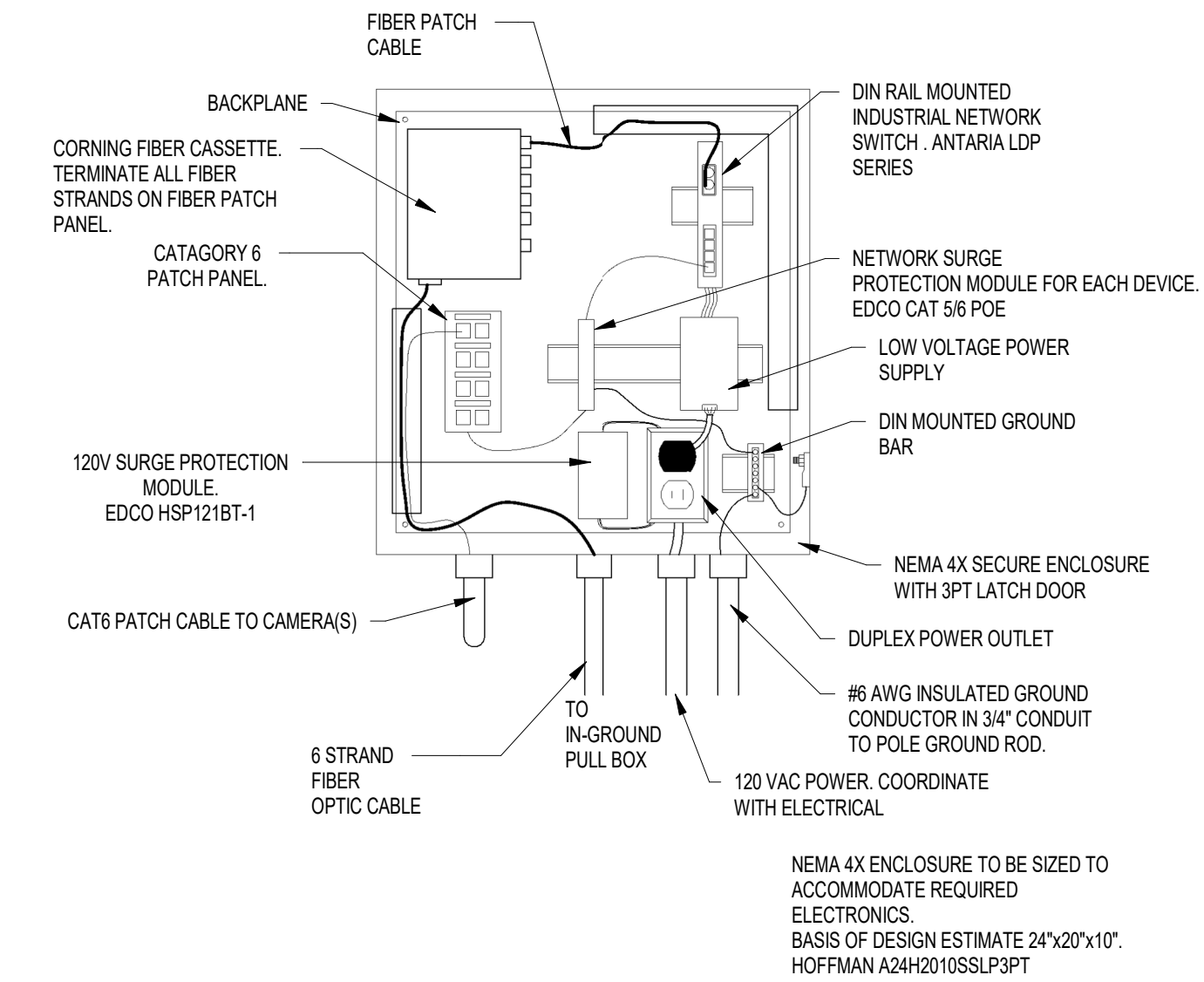
FIXED CAMERA SURFACED MOUNTED ON WALL
No Scale

4



SMARTGATE DUEL AISLE SYSTEM
No Scale

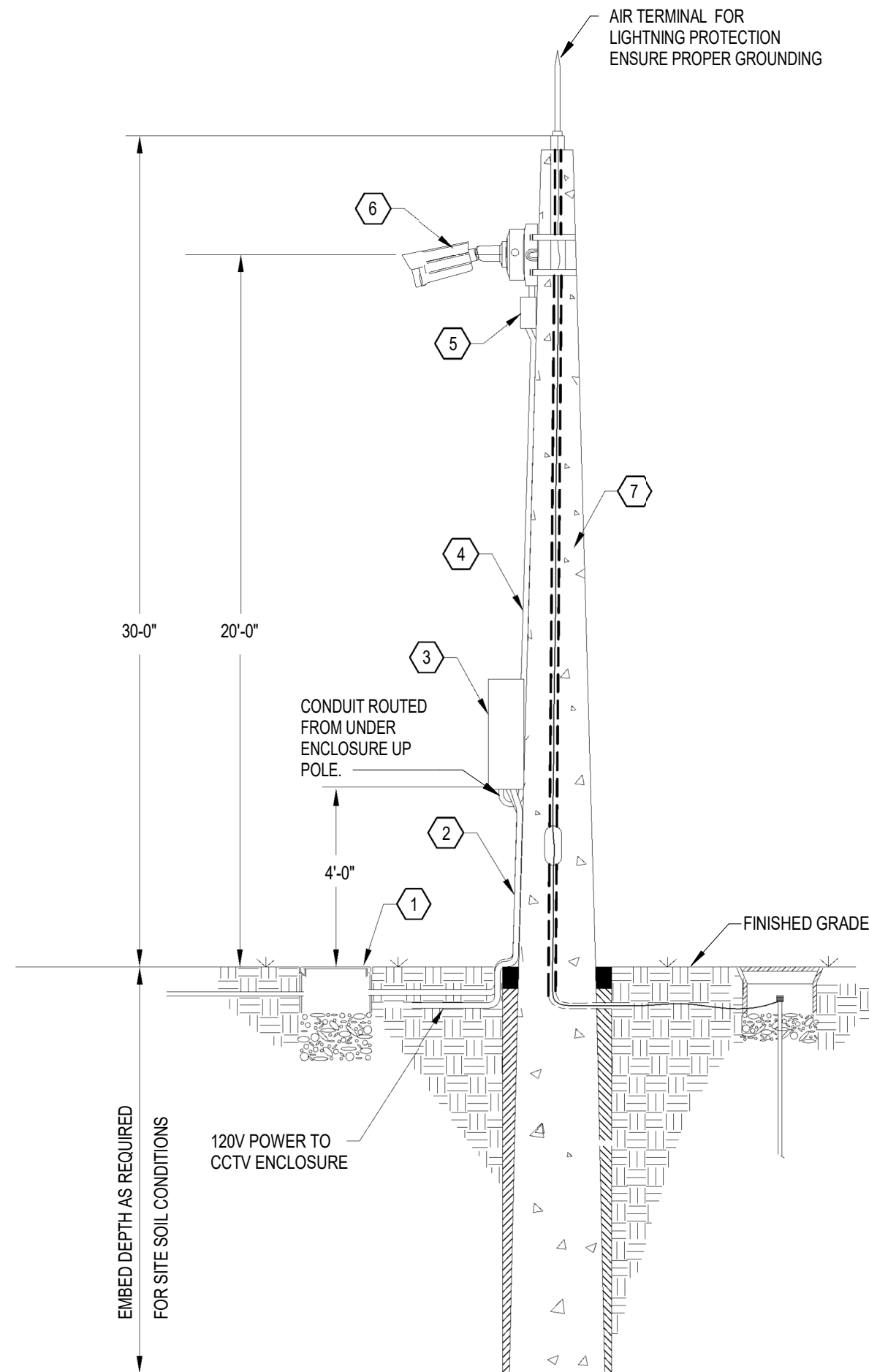
2



CCTV ELECTRONICS ENCLOSURE
No Scale

3

- POLE MOUNTED CAMERA NOTES
- 1 INGROUND COMMUNICATIONS HANDHOLE.
 - 2 SURFACED MOUNTED CONDUIT STUBBED UP FROM MANHOLE.
 - 3 SECURITY CAMERA ELECTRONICS ENCLOSURE. LOCKABLE NEMA 4X. REFERENCE DETAILS FOR REQUIREMENTS.
 - 4 3/4\"/>



TYPICAL CAMERA POLE DESIGN
No Scale

1

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