

ELECTRICAL LEGEND

FLOOR MOUNTED	WALL MOUNTED	CEILING MOUNTED	ITEM DESCRIPTION
		C1 X20 a	LIGHT FIXTURE DESIGNATIONS C1 - UPPERCASE LETTER & NUMBER INDICATES FIXTURE TYPE X20 - UPPERCASE LETTER/NUMBER INDICATES CIRCUIT a - LOWERCASE LETTER DESIGNATES LIGHT SWITCH LEG
			EMERGENCY LIGHT - CIRCUIT SUCH THAT ALL LAMPS OPERATE 24 HOURS A DAY
			EXIT LIGHT SIGN - SHADED AREA(S) INDICATES FACE OF SIGN ARROWS INDICATE DIRECTION ON SIGN LETTER DESIGNATION IN LIGHT FIXTURE SCHEDULE UNLESS OTHERWISE NOTED
			LIGHT FIXTURES (USE LETTER DESIGNATION ADJACENT TO LIGHT FIXTURE AND LIGHT FIXTURE SCHEDULE TO DETERMINE THE EXACT TYPE OF FIXTURE AND OTHER CHARACTERISTICS)
			SWITCH, SUBSCRIPT INDICATES FIXTURES THAT SWITCH CONTROLS
			SINGLE-POLE WALL SWITCH (SEE NOTE #3)
			THREE-WAY WALL SWITCH (SEE NOTE #3)
			FOUR-WAY WALL SWITCH (SEE NOTE #3)
			0-10V DIMMER WALL SWITCH (REFER TO SPECIFICATION SECTION 260923, SEE NOTE #3)
			LOW VOLTAGE SINGLE-SCENE W/ RAISE-LOWER DIMMING WALL STATION (REFER TO SPECIFICATION SECTION 260934, SEE NOTE #3)
			LOW VOLTAGE FOUR-SCENE W/ RAISE-LOWER DIMMING WALL STATION (REFER TO SPECIFICATION SECTION 260934, SEE NOTE #3)
			LIGHTING CONTROL TWO-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)
			LIGHTING CONTROL FOUR-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)
			LIGHTING CONTROL OVERRIDE TWO-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)
			DIGITAL TIMER WALL SWITCH PROGRAMMABLE FROM 10 MINUTES TO 12 HOURS WITH VISIBLE/AUDIBLE WARNINGS AND TIMED OVERRIDE OPTIONS (REFER TO SPECIFICATION SECTION 260923, SEE NOTE #3)
			LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, SINGLE RELAY (REFER TO SPECIFICATION SECTION 260923)
			LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, DUAL RELAY (REFER TO SPECIFICATION SECTION 260923)
			LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, DIMMING (REFER TO SPECIFICATION SECTION 260923)
			LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK/RELAY. SUBSCRIPT INDICATES FIXTURES THE OCCUPANCY SENSOR CONTROLS. (REFER TO SPECIFICATION SECTION 260923)
			LOW VOLTAGE CEILING MOUNTED DAYLIGHT HARVESTING SENSOR WITH POWER PACK/RELAY. SUBSCRIPT INDICATES FIXTURES THE DAYLIGHT HARVESTING SENSOR CONTROLS. (REFER TO SPECIFICATION SECTION 260923)
			DUPLEX RECEPTACLE (SEE NOTE #1) "AC" INDICATES ABOVE COUNTER (SEE NOTE #2). "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "USB" INDICATES USB RECEPTACLE. "WP" INDICATES WATERPROOF RECEPTACLE.
			QUADRAPLEX RECEPTACLE (SEE NOTE #1)
			SPECIAL PURPOSE SIMPLEX RECEPTACLE (SEE NOTE #1)
			SAFETY SWITCH FURNISHED UNDER DIVISION 23 WORK INSTALLED UNDER DIVISION 26 WORK
			DISCONNECT SWITCH - BY DIVISION 26 CONTRACTOR A = NUMBER OF POLES, B = FUSE RATING, C = SWITCH RATING
			MOTOR-RATED SNAP SWITCH FURNISHED UNDER DIVISION 23 WORK INSTALLED UNDER DIVISION 26 WORK
			208Y/120V SURFACE MOUNTED PANELBOARD
			208Y/120V FLUSH MOUNTED PANELBOARD
			JUNCTION BOX
			EQUIPMENT CONNECTION
			4-POST FLOOR MOUNTED EQUIPMENT RACK - SEE DETAILS
			RECESSED ACTIVATION FLOOR BOX WITH QUADRAPLEX RECEPTACLE WITH DEVICE PLATE AND ONE (1) 4-PORT DATA OUTLET WITH DEVICE PLATE. PROVIDE ONE (1) 1" FROM POWER COMPARTMENT AND ONE (1) 1-1/4" FROM DATA COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. RECEPTACLE CONDUIT FOR COMMON CIRCUITED FLOOR BOXES SHALL BE ROUTED FROM BOX TO BOX. DO NOT LOOP DATA CONDUIT FROM BOX TO BOX. REFER TO TELECOM DETAILS.
			RECESSED ACTIVATION FLOOR BOX WITH QUADRAPLEX RECEPTACLE WITH DEVICE PLATE, ONE (1) 4-PORT DATA OUTLETS WITH DEVICE PLATES AND TWO (2) DOUBLE-GANG COMPARTMENTS WITH BLANK COVERPLATES FOR AV COMPARTMENTS. PROVIDE ONE (1) 1" FROM POWER COMPARTMENT, ONE (1) 1-1/4" FROM DATA COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR AND TWO (2) 1-1/2" FROM AV COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN ROOM. DO NOT LOOP DATA CONDUIT FROM BOX TO BOX. REFER TO TELECOM DETAILS.
			RECESSED WALL BOX WITH DUPLEX RECEPTACLE WITH DEVICE PLATE, ONE (1) 2-PORT DATA OUTLET WITH DEVICE PLATE AND TWO (2) DOUBLE-GANG COMPARTMENTS WITH BLANK COVERPLATES FOR AV COMPARTMENTS. PROVIDE ONE (1) 3/4" FROM POWER COMPARTMENT, ONE (1) 1-1/4" FROM DATA COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR AND TWO (2) 1-1/2" FROM AV COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN ROOM. UON. REFER TO TELECOM DETAILS.
			RECESSED AUDIOVISUAL WALL BOX. REFER TO ELECTRICAL DETAILS.

FLOOR MOUNTED	WALL MOUNTED	CEILING MOUNTED	ITEM DESCRIPTION
			VOICE/DATA OUTLET WITH 1 VOICE (OVER IP), 1 DATA PORTS. OTHERWISE (X) DENOTES NUMBER OF VOICE PORTS (V) AND DATA PORTS (D). (SEE NOTE #5)
			ABOVE COUNTER VOICE/DATA OUTLET WITH 1 VOICE (OVER IP), 1 DATA PORTS. OTHERWISE (X) DENOTES NUMBER OF VOICE PORTS (V) AND DATA PORTS (D). (SEE NOTE #5)
			WIRELESS ACCESS POINT - 1-PORT HOUSING W/ CAT6 JACK. PROVIDE ONE (1) CAT6 CABLE FROM HOUSING TO IDF EQUIPMENT RACK. MOUNT 18" ABOVE FINISHED CEILING. PROVIDE 10' SLACK CABLE AT DEVICE.
			DOOR ACCESS SYSTEM EQUIPMENT - PROVIDE BOX AND RACEWAY ONLY (SEE NOTE #6) "CR" INDICATES CARD READER "DC" INDICATES DOOR CONTACT "EL" INDICATES ELECTRIC LATCH "ES" INDICATES ELECTRIC STRIKE "RE" INDICATES REQUEST TO EXIT
			SMOKE DETECTOR - WHITE HOUSING "H" INDICATES DETECTOR HAS INTERNAL SOUND BELL "T" INDICATES IONIZATION DETECTOR TYPE "P" INDICATES PHOTOELECTRIC DETECTOR TYPE "D" INDICATES DUCT SMOKE DETECTOR TYPE "R" INDICATES FAN/DAMPER CONTROL RELAY.
			FIRE ALARM MANUAL PULL STATION - RED HOUSING W/ "FIRE" CLEARLY LABELED ON DEVICE.
			FIRE ALARM HORN & STROBE DEVICE - XENON FLASH TUBE TYPE W/ CLEAR COLORED LENSE WHITE HOUSING W/ "FIRE" CLEARLY LABELED ON DEVICE. SUBSCRIPT INDICATES ACTUAL CANDELA RATING, NO SUBSCRIPT INDICATES A 75cd CANDELA RATING
			FIRE ALARM STROBE DEVICE - XENON FLASH TUBE TYPE W/ CLEAR COLORED LENSE. WHITE HOUSING W/ "FIRE" CLEARLY LABELED ON DEVICE. SUBSCRIPT INDICATES ACTUAL CANDELA RATING, NO SUBSCRIPT INDICATES A 75cd CANDELA RATING
			HEAT DETECTOR - WHITE HOUSING NO SUBSCRIPT INDICATES A THERMAL DETECTOR "RF" INDICATES COMBINATION OF RATE OF RISE AND FIXED TEMPERATURE DETECTOR TYPE. "RC" INDICATES RATE COMPENSATION DETECTOR TYPE. "F" INDICATES FIXED TEMPERATURE DETECTOR TYPE. "R" INDICATES RATE OF RISE DETECTOR TYPE.
			FLOW TYPE SPRINKLER SWITCH MONITOR
			TAMPER TYPE SPRINKLER SWITCH MONITOR
			FIRE ALARM RELAY
			FIRE ALARM MONITOR MODULE
			FIRE ALARM ISOLATION MODULE
			FIRE ALARM REMOTE ALARM INDICATOR
			FIRE ALARM SPRINKLER BELL

LEGEND NOTES:

- MOUNT AT 20" AFF TO TOP, UON. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- MOUNT AT 6" ABOVE COUNTERTOP OR BACKSPASH AS APPLICABLE TO TOP OF BOX. UON. REFER TO ARCHITECTURAL DETAILS. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB. BOXES FOR DEVICES ON OPPOSITE SIDES OF A COMMON WALL MUST BE OFFSET 12".
- MOUNT 48" AFF TO TOP. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- MOUNT ALL PULL STATIONS 48" AFF TO TOP. ALL HORN/STROBES, STROBES, AND REMOTE ALARM INDICATORS SHALL BE CEILING MOUNTED. UON. WHERE INDICATED, WALL MOUNTED HORN/STROBES, STROBES, AND REMOTE ALARM INDICATORS SHALL BE MOUNTED 84" AFF TO BOTTOM. COORDINATE LOCATION OF FAN CONTROL RELAY WITH DIVISION 23. PROVIDE DUCT DETECTORS TO DIVISION 23 FOR MOUNTING IN DIVISION 23 WORK. ALL WIRING IN DIVISION 26 WORK WIRE DUCT DETECTORS TO REMOTE ALARM INDICATORS IN CORRIDORS. COORDINATE LOCATIONS OF MAGNETIC DOOR HOLDERS WITH CONSTRUCTION MANAGER. ADJUST ALL MOUNTING HEIGHTS TO MATCH MASONRY COURSES IN APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
- MOUNT ALL PHONE/DATA/COAX OUTLETS AT 20" AFF TO TOP, UON. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT WALL TELEPHONE OUTLETS AT 48" AFF TO TOP. MOUNT ALL BOXES TRUE AND PLUMB. ALL BOXES SHALL BE DOUBLE GANG WITH VOICE/DATA OUTLETS USING A DOUBLE GANG PLASTER RING. WALL TELEPHONE OUTLETS UTILIZE A SINGLE GANG PLASTER RING.
- MOUNT 48" AFF TO TOP. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB. PROVIDE 3/4" C. TO ABOVE NEAREST ACCESSIBLE CEILING. MOUNT CARD READERS IN PEDESTALS BELOW ADA PUSH PLATE. PROVIDE A SINGLE 1" C FROM PEDESTAL FOR CARD READER AND PUSH PLATE CABLING TO ABOVE NEAREST ACCESSIBLE CEILING.
- MOUNT DOOR STATION 48" AFF TO TOP. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT MASTER STATION AT 6" ABOVE CASEWORK AS APPLICABLE TO TOP OF BOX. UON. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. MOUNT ALL BOXES TRUE AND PLUMB. PROVIDE 3/4" C. TO ABOVE NEAREST ACCESSIBLE CEILING.
- COORDINATE THE LOCATIONS OF ALL DEVICES WITH WHITE BOARDS, TACKBOARDS, CABINET WORK, FURNITURE AND OTHER DEVICES. REVIEW ALL PLANS CAREFULLY AND RESOLVE ANY AND ALL QUESTIONS BEFORE PROCEEDING WITH INSTALLATION.

ELECTRICAL SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE			
Energy Code:	Prescriptive:	<input checked="" type="checkbox"/>	Performance:
ASHRAE 90.1:	Prescriptive:	<input type="checkbox"/>	Performance:
Lighting Schedule			
Lamp type required in fixture	- see lighting fixture schedule		
Number of lamps in fixture	- see lighting fixture schedule		
Ballast type used in fixture	- see lighting fixture schedule		
Number of ballasts in fixture	- see lighting fixture schedule		
Total wattage per fixture	- see lighting fixture schedule		
total interior wattage specified vs. allowed (space by space)			
	Specified:	12.90 KW	
	Allowed:	12.99 KW	
total exterior wattage specified vs. allowed			
	Specified:	1.26 KW	
	Allowed:	1.45 KW	
Additional Prescriptive Compliance			
<input type="checkbox"/> 506.2.1 More Efficient Mechanical Equipment	(not applicable)		
<input checked="" type="checkbox"/> 506.2.2 Reduced Lighting Power Density	(not applicable)		
<input type="checkbox"/> 506.2.3 Energy Recovery Ventilation Systems	(not applicable)		
<input type="checkbox"/> 506.2.4 Higher Efficiency Service Water Heating	(not applicable)		
<input type="checkbox"/> 506.2.5 On-site Supply of Renewable Energy	(not applicable)		
<input type="checkbox"/> 506.2.6 Automatic Daylighting Control Systems	(not applicable)		
Designer Statement			
To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina State Building Code: Energy Conservation Code, Chapter 5.			

ELECTRICAL ABBREVIATIONS:

A	AMPS	IDF	INTERMEDIATE DISTRIBUTION FRAME
ACT	ACOUSTICAL CEILING TILE	ITS	INFORMATION TECHNOLOGY SERVICES
ADA	AMERICAN DISABILITIES ACT	LEC	LOCAL EXCHANGE CARRIER
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MDF	MAIN DISTRIBUTION FRAME
AVB	AV WALL BOX	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MLO	MAIN LUGS ONLY
C	CONDUIT	NCPPC	NORTH CAROLINA FIRE PROTECTION CODE
CB	CIRCUIT BREAKER	NF	NON-FUSED
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CWP	COLD WATER PIPE	NTS	NOT TO SCALE
DGR	DRIVEN GROUND ROD	PMP	PUMP
ECB	ENCLOSED CIRCUIT BREAKER	PNL	PANEL
EDH	ELECTRIC DUCT HEATER	RECPT	RECEPTACLE
EF	EXHAUST FAN	RTS	REMOTE TROUBLE SIGNAL
EUH	ELECTRIC UNIT HEATER	RTU	ROOF TOP UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TBB	TELEPHONE BACKBOARD
FACP	FIRE ALARM CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
FDE	FIBER DISTRIBUTION ENCLOSURE	V	VOLTS
FTE	FIBER TERMINATION ENCLOSURE	WAP	WIRELESS ACCESS POINT
GC	GROUND CONDUCTOR	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WP	WEATHER PROOF
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WR	WEATHER RESISTANT
GND	GROUND	XFMR	TRANSFORMER

ELECTRICAL NOTES:

- GENERAL:**
- THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.
 - DO NOT COVER UP CONSTRUCTION UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER AND THE ELECTRICAL INSPECTOR.
 - PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - COORDINATE THE ELECTRICAL WORK WITH ALL OTHER CONTRACTORS BEFORE BEGINNING WORK TO ENSURE THAT THE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER WORK LINES WHICH REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK. COORDINATE THIS WITH THE PLUMBING, HVAC AND GENERAL CONTRACTORS.
 - NOTIFY THE ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCY OR POINTS OF CONFLICT IN THE DRAWINGS OR THE SPECIFICATIONS. THE ENGINEER WILL CLARIFY SUCH DISCREPANCY OR POINTS OF CONFLICT IN WRITING PRIOR TO THE PROGRESS OF THE WORK BEYOND THE POINT CONCERNED.
 - BEFORE INSTALLING EQUIPMENT, MAKE FIELD MEASUREMENTS TO ENSURE THAT ALL ITEMS OF EQUIPMENT FURNISHED WILL FIT INTO THE SPACES AS SHOWN ON THE DRAWINGS. WHERE EQUIPMENT WILL NOT FIT AS SHOWN ON THE DRAWINGS, PROVIDE A DRAWING TO THE ENGINEER FOR APPROVAL WITH A PROPOSED REVISED ARRANGEMENT BEFORE INSTALLING THE EQUIPMENT.
 - BEFORE TOUGH-IN COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL, INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT IN THE EVENT OF A CONFLICT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0", SHALL BE MADE IN ANY DIRECTION WITH NO ADDITIONAL COST TO THE OWNER.
 - ALL WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, SWITCHES, TELECOM OUTLETS, AND FIRE ALARM DEVICES, SHALL BE RECESSED WITHIN WALLS, FURRING, OR CASEWORK, UNLESS NOTED OTHERWISE. USE OF EXPOSED SURFACE MOUNTED CONDUIT OR RACEWAY IS PROHIBITED EXCEPT IN ELECTRICAL AND MECHANICAL SPACES AND LOCATIONS NOTED ON THE DRAWINGS.
 - LOCATION OF ALL FLOOR-MOUNTED DEVICES OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
 - OUTLET BOXES INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, RECEPTACLES, TELECOM OUTLETS, ETC. LOCATED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. WALL PENETRATIONS SHALL BE SEPARATED BY MOUNTING BOXES ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER INSIDE THE WALL.
 - FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL CONFORM TO THE DETAILS ON DRAWINGS AND SPECIFICATIONS. COORDINATE ROUTING WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
 - RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILING, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT BRANCHWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
 - THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
 - WHERE MULTIWIRE BRANCH CIRCUITS (MORE THAN ONE CIRCUIT PER CONDUIT) ARE INSTALLED, THE CONTRACTOR SHALL INSTALL A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT PER NEC ARTICLE 210.4.
 - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
 - THE USE OF MULTIPLE BREAKERS TO SERVE MULTIWIRE BRANCH CIRCUITS IS NOT ALLOWED.
 - BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
 - COORDINATE LOCATIONS OF ALL RATED WALL ASSEMBLIES WITH THE ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.
 - DEVICES REQUIRED TO BE ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.
- LIGHTING:**
- FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.
 - LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.
 - LIGHT FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
- POWER:**
- BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED. CONDUCTOR AND RACEWAY SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.
 - WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST DEVICE ON A 120V BRANCH CIRCUIT EXCEEDS 50 FEET, BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #10 AWG TO THE FIRST DEVICE OR LIGHT FIXTURE.
 - TELECOM/CATV OUTLET INDICATED TO BE MOUNTED ADJACENT TO A RECEPTACLE SHALL BE MOUNTED WITHIN 6" CENTER-TO-CENTER.
 - ALL FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM 4" HOUSEKEEPING PAD WITH CHAMFERED EDGES.
- TELECOM:**
- TELECOM/TELEVISION OUTLET SHALL BE PROVIDED WITH A 1-1/4" CONDUIT WITH PULL WIRE TO ABOVE THE LAY IN CEILING IN THE CORRIDOR. TURN CONDUIT 12" INTO CEILING CAVITY AT A MINIMUM OF 6" ABOVE THE CEILING. THE END OF THE CONDUIT SHALL BE INSTALLED WITH AN INSULATED THROAT BUSHING.
 - ALL TELECOM CABLES SHALL NOT EXCEED 295 FEET IN LENGTH AND TERMINATED PER MANUFACTURER RECOMMENDATIONS.
 - TELECOM CABLES SHALL BE SUPPORTED WITH J-HOOKS AND D-RINGS. PROVIDE J-HOOKS AT INTERVALS NOT EXCEEDING 5 FEET. PROVIDE J-HOOKS WITHIN 6" FROM CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS. CABLES SHALL NOT BE SUPPORTED DIRECTLY FROM STRUCTURE. ALL WALL PENETRATIONS SHALL BE METAL SLEEVES AND SIZED AS INDICATED ON THE DRAWINGS. SEAL ALL FIRE RATED ASSEMBLY PENETRATIONS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ASSEMBLIES.
 - ALL FIBER OPTIC AND TELECOM CABLEING SHALL BE TESTED AND TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
 - FIBER OPTIC AND TELECOM CABLEING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND EIA/TIA STANDARDS.
 - TELECOM CABLEING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.



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DRAWING TITLE

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

DRAWING NUMBER
E001

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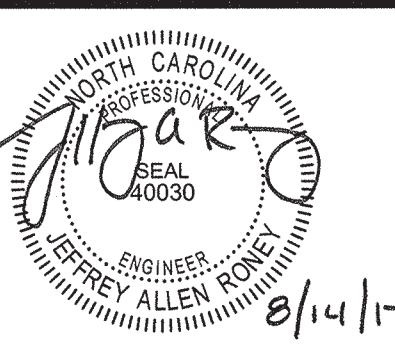
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DRAWING TITLE
ELECTRICAL UTILITY SITE PLAN

DRAWING NUMBER

E011

GENERAL NOTES:

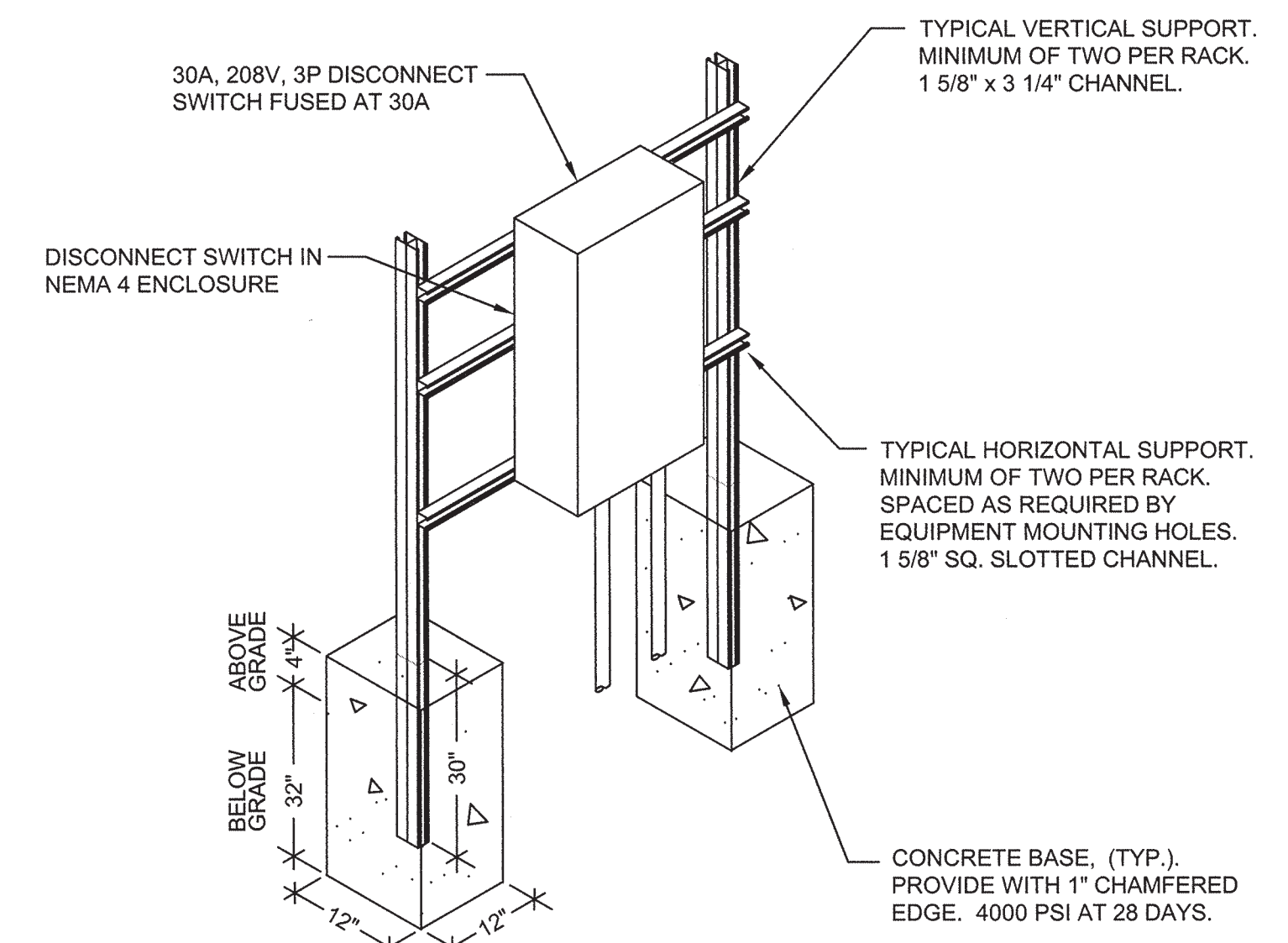
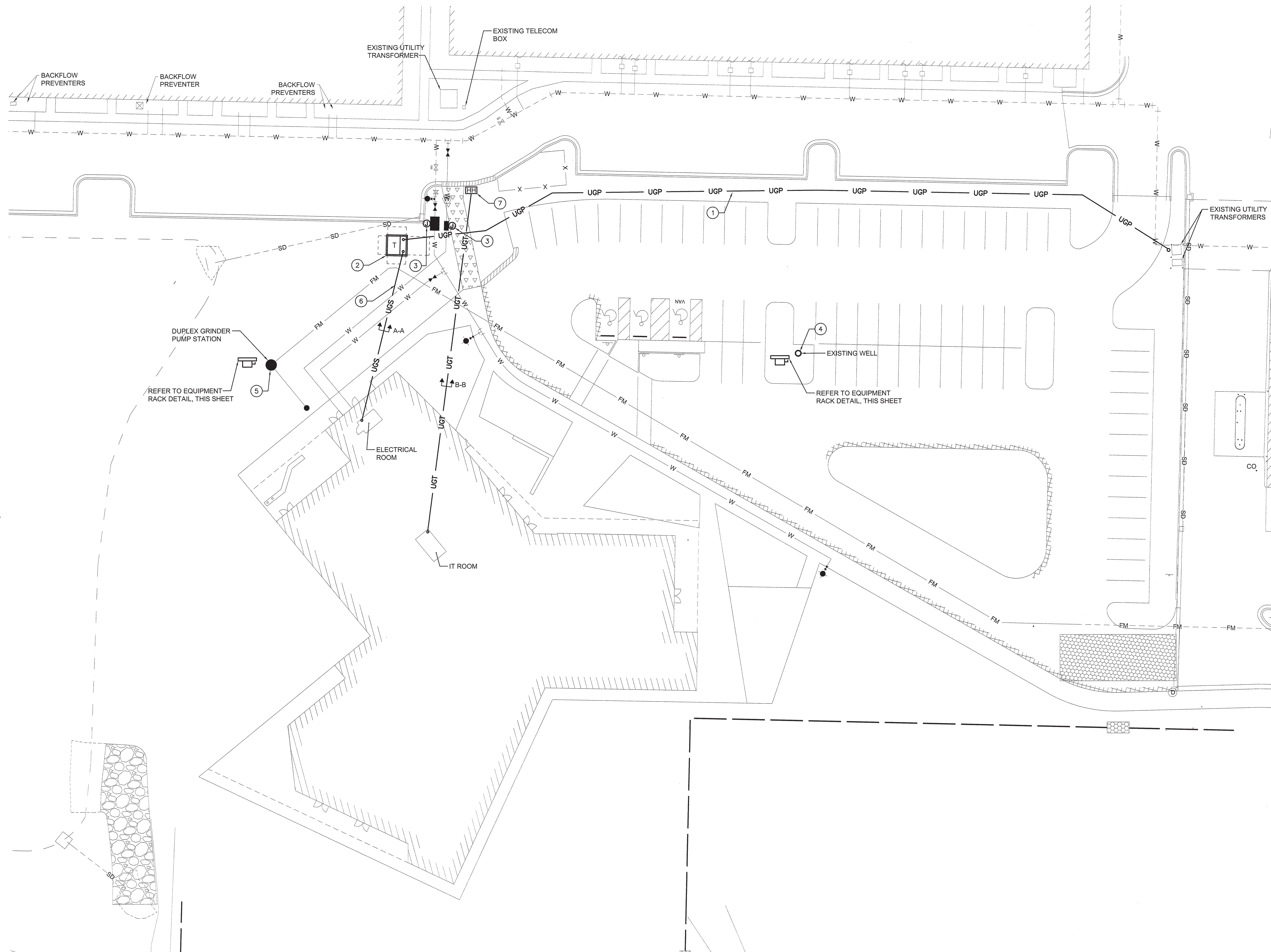
- CONTRACTOR SHALL VERIFY AND LOCATE ALL UTILITIES SHOWN PRIOR TO DIGGING ON SITE.
- COORDINATE SITE ELECTRICAL WORK WITH DUKE ENERGY. PROGRESS PRIOR TO INSTALLATION. DUKE ENERGY CONTACT IS ALLISON WALSH (910) 350-3468.
- ALL UTILITY WORK SHALL BE COORDINATED WITH SERVICE PROVIDERS PRIOR TO BEGINNING ANY WORK.

KEY NOTES:

- PROVIDE (2) 4" SCHEDULE 40 GRAY PVC CONDUITS DIRECT BURIED AT MINIMUM OF 36" FROM THE NEW UTILITY TRANSFORMER TO THE SPlicing POINT LOCATED AT THE EXISTING DUKE ENERGY TRANSFORMER. CONDUITS SHALL BE ROUTED PARALLEL AND AT A MINIMUM OF 12" APART. COORDINATE EXACT SPLICE LOCATION AND ROUTE OF CONDUITS WITH DUKE ENERGY PRIOR TO INSTALLATION.
- PROVIDE CONCRETE PAD FOR UTILITY TRANSFORMER. CONCRETE PAD SHALL BE PROVIDED PER DUKE ENERGY STANDARDS. COORDINATE WITH UTILITY COMPANY FOR FINAL LOCATION OF TRANSFORMER PRIOR TO INSTALLATION.
- PROVIDE DEDICATED 20A, 120V CIRCUIT TO EACH HOTBOX ENCLOSURE. USE 2#10, #10G IN 3/4" C. PROVIDE FIRE ALARM CONNECTION TO TAMPER FLOW SWITCH FOR EACH HOT BOX. PROVIDE A SURGE ARRESTOR FOR EACH TAMPER FLOW SWITCH CIRCUITS.
- PROVIDE DEDICATED 30A, 208V, 1Ø CIRCUIT TO EXISTING WELL PUMP. USE 2#8, #10G IN 1" C. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- PROVIDE DEDICATED 30A, 208V, 1Ø CIRCUIT TO NEW GRINDER/PUMP STATION. USE 2#8, #10G IN 1" C. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- COORDINATE SECONDARY SERVICE ENTRANCE FEEDER ROUTING WITH OTHER UTILITIES. REFER TO CIVIL DRAWINGS FOR UNDERGROUND PROFILES.
- PROVIDE HANDHOLE TELECOM SERVICE POINT. COORDINATE EXACT LOCATION OF HAND HOLE WITH TELCOM PROVIDER.

ELECTRICAL SITE LEGEND:

- UGP — UNDERGROUND PRIMARY
- UGS — UNDER GROUND SECONDARY
- UGT — UNDER GROUND TELECOM
- HH — HAND HOLE



NOTES:
1. CHANNEL CONNECTIONS, NUTS, AND HARDWARE SHALL BE MADE BY CHANNEL MANUFACTURER.

2 EQUIPMENT RACK DETAIL
Scale: NOT TO SCALE



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PHASE CONSTRUCTION DOCUMENTS

DATE AUGUST 14, 2017
 PROJECT PINE VALLEY BRANCH
 DEI PROJECT # 50090277
 SCO ID # -

DRAWING TITLE
ELECTRICAL LIGHTING SITE PLAN

DRAWING NUMBER

E012

GENERAL NOTES:

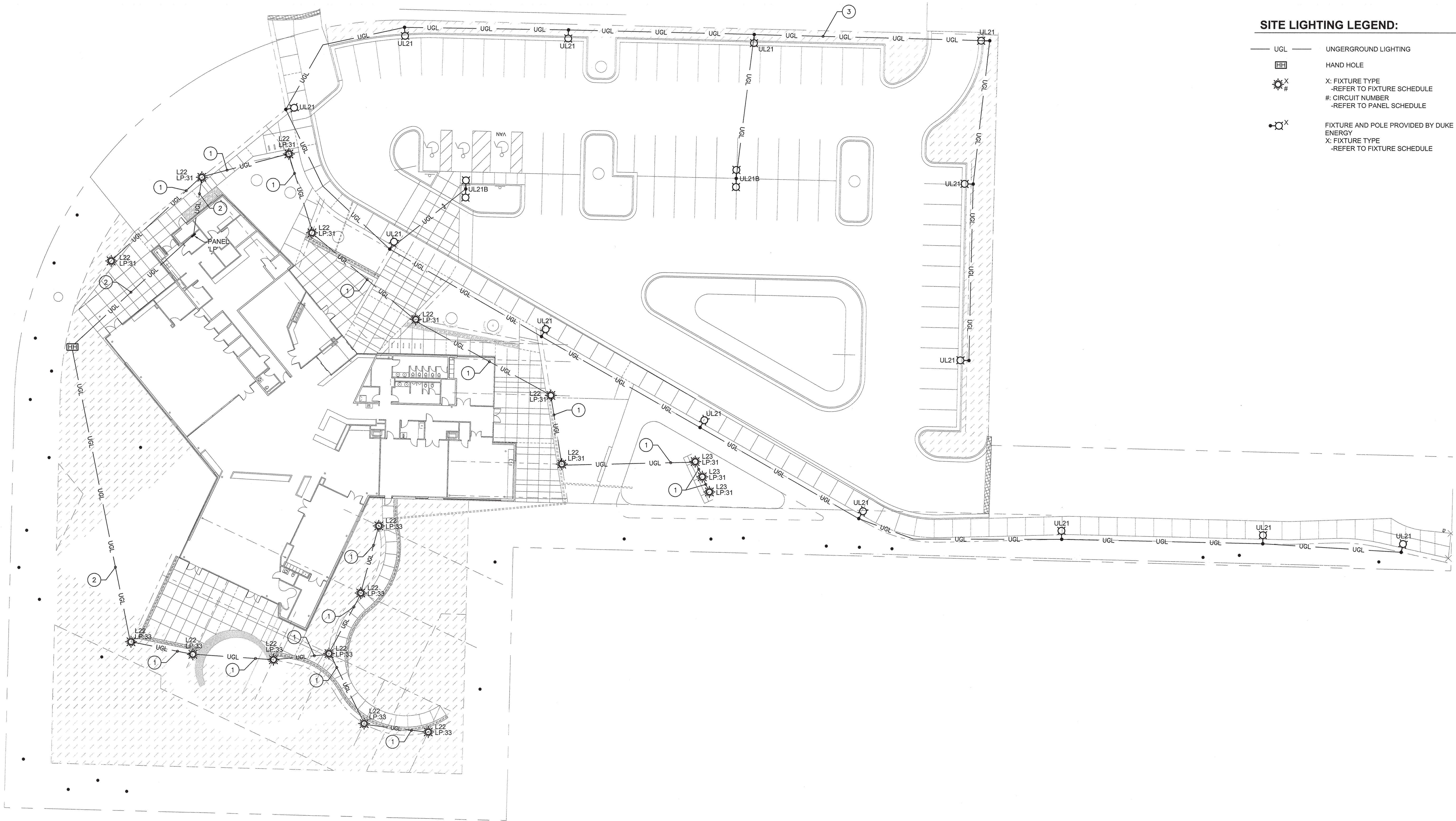
- CONTRACTOR SHALL VERIFY AND LOCATE ALL UTILITIES WITH CIVIL DRAWINGS PRIOR TO DIGGING ON SITE.
- COORDINATE SITE ELECTRICAL WORK WITH DUKE ENERGY PROGRESS PRIOR TO INSTALLATION. DUKE ENERGY CONTACT IS ALLISON WALSH (910) 350-3460.
- ALL UTILITY WORK SHALL BE COORDINATED WITH SERVICE PROVIDERS PRIOR TO BEGINNING ANY WORK.
- CIRCUIT "LP-31" SHALL BE CONTROLLED THRU RELAY LCP-3. PROVIDE EMERGENCY TRANSFER DEVICE TO TRANSFER FROM NORMAL SWITCHED CIRCUIT TO EMERGENCY UNSWITCHED CIRCUIT "INV-2" UPON LOSS OF NORMAL POWER. LOCATE TRANSFER DEVICE ADJACENT TO LIGHTING CONTROL PANEL "LCP".
- CIRCUIT "LP-33" SHALL BE CONTROLLED THRU RELAY LCP-4. PROVIDE EMERGENCY TRANSFER DEVICE TO TRANSFER FROM NORMAL SWITCHED CIRCUIT TO EMERGENCY UNSWITCHED CIRCUIT "INV-3" UPON LOSS OF NORMAL POWER. LOCATE TRANSFER DEVICE ADJACENT TO LIGHTING CONTROL PANEL "LCP".

KEY NOTES:

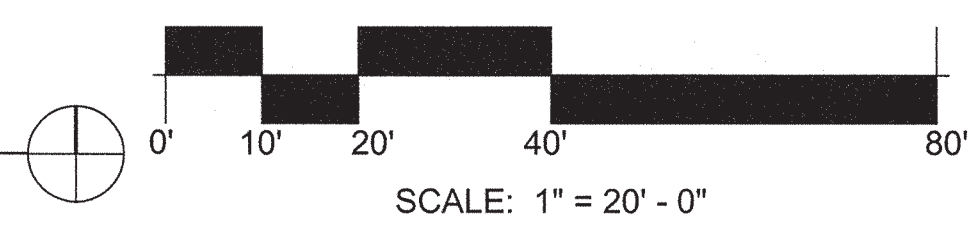
- PROVIDE 2#10, #10G IN 1" C.
- PROVIDE 2#8, #10G IN 1" C.
- CONTRACTOR SHALL PROVIDE 1" C WITH PULL STRING BETWEEN EACH DUKE ENERGY LIGHT FIXTURE. DUKE ENERGY SHALL PROVIDE CONDUCTORS BETWEEN FIXTURES. COORDINATE ROUTING OF CONDUIT WITH DUKE ENERGY PRIOR TO INSTALLATION. TYPICAL OF ALL CIRCUITS BETWEEN DUKE ENERGY FIXTURES.

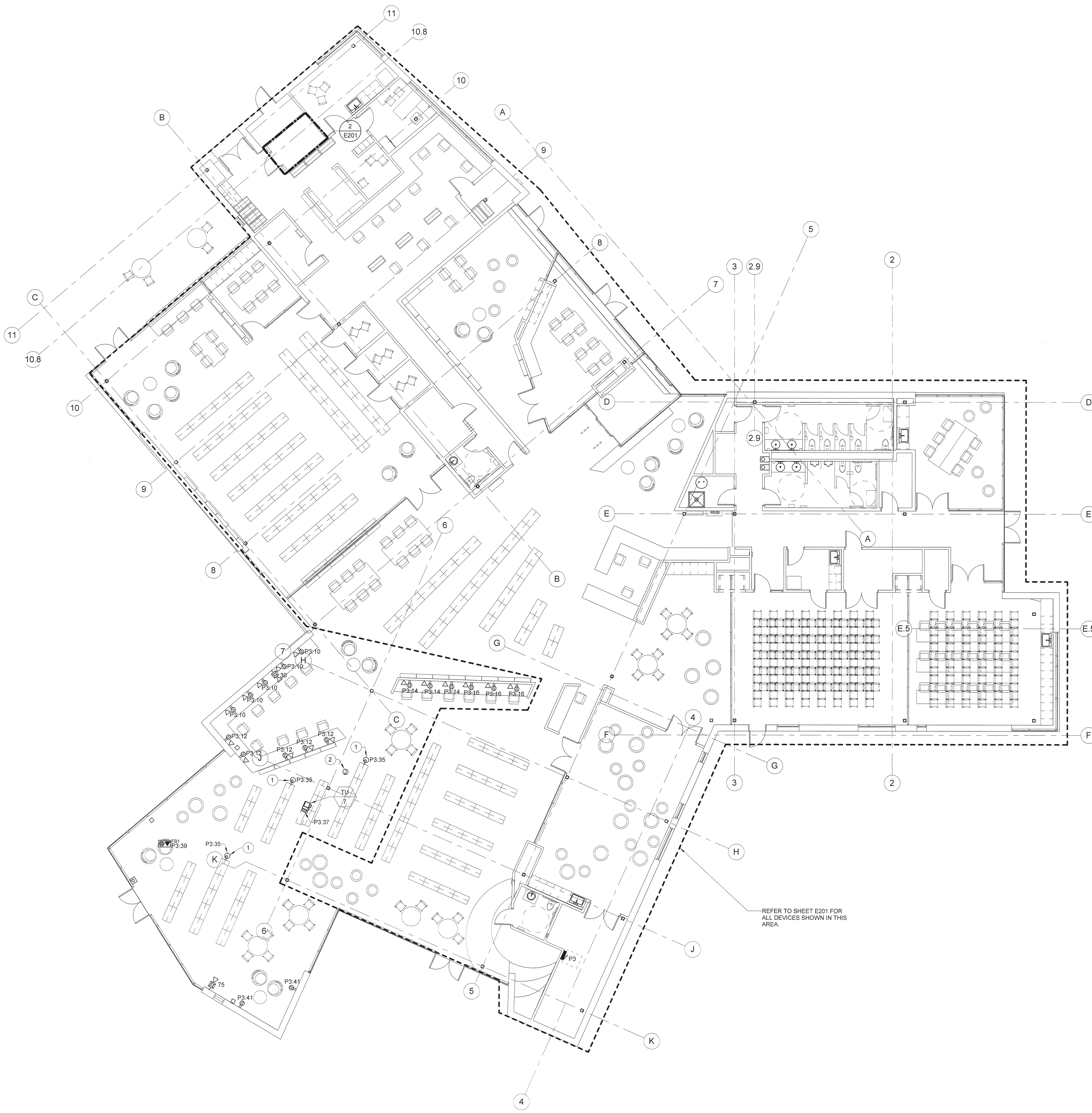
SITE LIGHTING LEGEND:

- UGL — UNDERGROUND LIGHTING
- HAND HOLE
- ☼ X # FIXTURE TYPE
-REFER TO FIXTURE SCHEDULE
- # CIRCUIT NUMBER
-REFER TO PANEL SCHEDULE
- ☼ X # FIXTURE AND POLE PROVIDED BY DUKE ENERGY
X: FIXTURE TYPE
-REFER TO FIXTURE SCHEDULE



1 ELECTRICAL LIGHTING SITE PLAN
 Scale: 1" = 20'-0"





GENERAL NOTES:

- REFER TO DISCONNECT SWITCH AND COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SCHEDULE FOR EQUIPMENT POWER CIRCUIT INFORMATION.
- REFER TO ELECTRICAL CONNECTIONS TO MECHANICAL/PLUMBING EQUIPMENT DETAIL FOR DIVISION OF LABOR FOR EQUIPMENT CONNECTIONS.
- VERIFY AND PROVIDE NEMA CONFIGURATION OF RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
- REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK ELEVATIONS.
- COORDINATE EXACT LOCATION OF ALL FLOOR BOXES PER DIMENSIONED DRAWINGS PROVIDED BY FURNITURE VENDOR PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL NOT MOUNT DEVICES IN SPACES DESIGNATED FOR FUTURE EQUIPMENT.
- REFER TO ROOF POWER PLAN FOR ROOFTOP FIRE ALARM DEVICE LOCATIONS.
- GENERAL ZONE OF PLANNED COVERAGE FOR WIRELESS ACCESS POINTS BASED UPON A MAXIMUM OF 50' RADIUS WITH APPROXIMATELY ONE THIRD OVERLAP. COORDINATE ACTUAL FINAL DEVICE LOCATIONS WITH NEW HANOVER COUNTY ITS DEPARTMENT PRIOR TO ROUGH-IN.

KEYED NOTES:

- PROVIDE 120V CIRCUIT TO END CASE OF BOOK STACK. ROUTE CONDUIT FROM NEAREST WALL UNDER SLAB TO LOCATION.
- PROVIDE CAT6 CABLE FROM IT ROOM TO JUNCTION BOX FOR WIRELESS ACCESS POINT. CONTRACTOR SHALL PROVIDE 10' OF SLACK AT EACH LOCATION.



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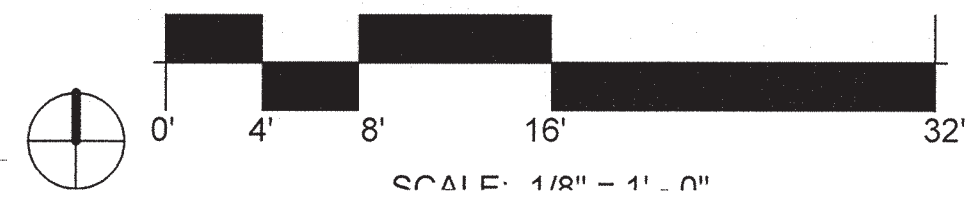
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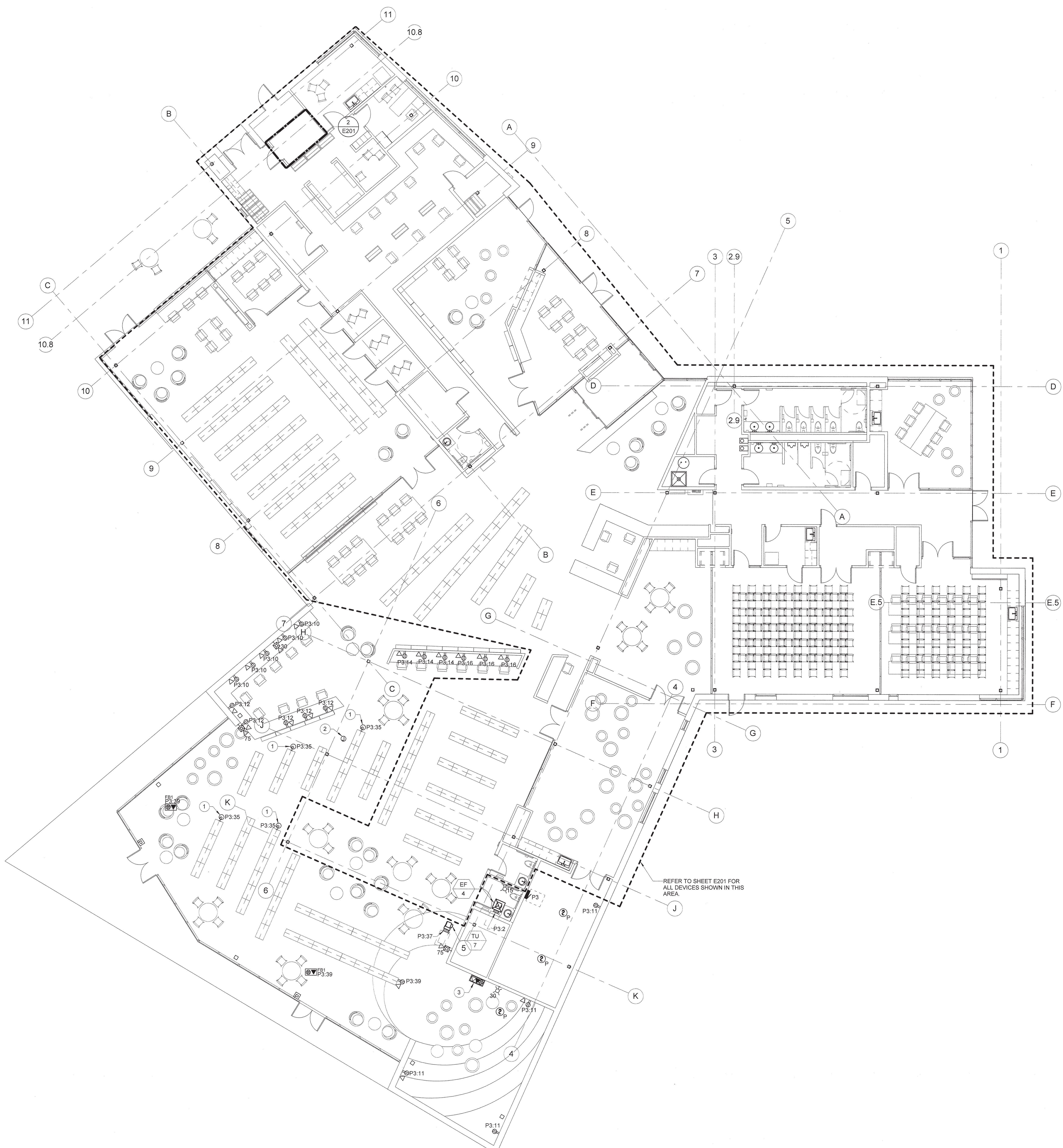
PHASE CONSTRUCTION DOCUMENTS

DATE AUGUST 14, 2017
 PROJECT PINE VALLEY BRANCH
 DEI PROJECT # 50090277
 SCO ID # -

DRAWING TITLE
FIRST FLOOR PLAN - POWER (ALTERNATE #1)

DRAWING NUMBER
E201A





GENERAL NOTES:

1. REFER TO DISCONNECT SWITCH AND COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SCHEDULE FOR EQUIPMENT POWER CIRCUIT INFORMATION.
2. REFER TO ELECTRICAL CONNECTIONS TO MECHANICAL/PLUMBING EQUIPMENT DETAIL FOR DIVISION OF LABOR FOR EQUIPMENT CONNECTIONS.
3. VERIFY AND PROVIDE NEMA CONFIGURATION OF RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK ELEVATIONS.
5. COORDINATE EXACT LOCATION OF ALL FLOOR BOXES PER DIMENSIONED DRAWINGS PROVIDED BY FURNITURE VENDOR PRIOR TO ROUGH-IN.
6. CONTRACTOR SHALL NOT MOUNT DEVICES IN SPACES DESIGNATED FOR FUTURE EQUIPMENT.
7. REFER TO ROOF POWER PLAN FOR ROOFTOP FIRE ALARM DEVICE LOCATIONS.
8. GENERAL ZONE OF PLANNED COVERAGE FOR WIRELESS ACCESS POINTS BASED UPON A MAXIMUM OF 50' RADIUS WITH APPROXIMATELY ONE THIRD OVERLAP. COORDINATE ACTUAL FINAL DEVICE LOCATIONS WITH NEW HANOVER COUNTY ITS DEPARTMENT PRIOR TO ROUGH-IN.

KEYED NOTES:

1. PROVIDE 120V CIRCUIT TO END CASE OF BOOK STACK. ROUTE CONDUIT FROM NEAREST WALL UNDER SLAB TO LOCATION.
2. PROVIDE CAT6 CABLE FROM IT ROOM TO JUNCTION BOX FOR WIRELESS ACCESS POINT. CONTRACTOR SHALL PROVIDE 10' OF SLACK AT EACH LOCATION.
3. IF ALTERNATE #2 IS ACCEPTED, THE WALL BOX IN CHILDREN'S PLAY ARE SHALL BE LOCATED ON THIS WALL.



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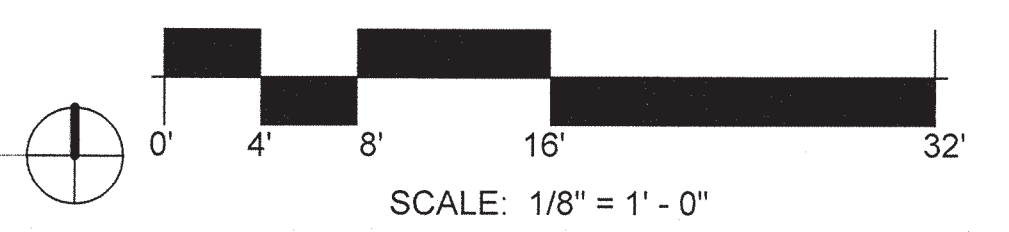
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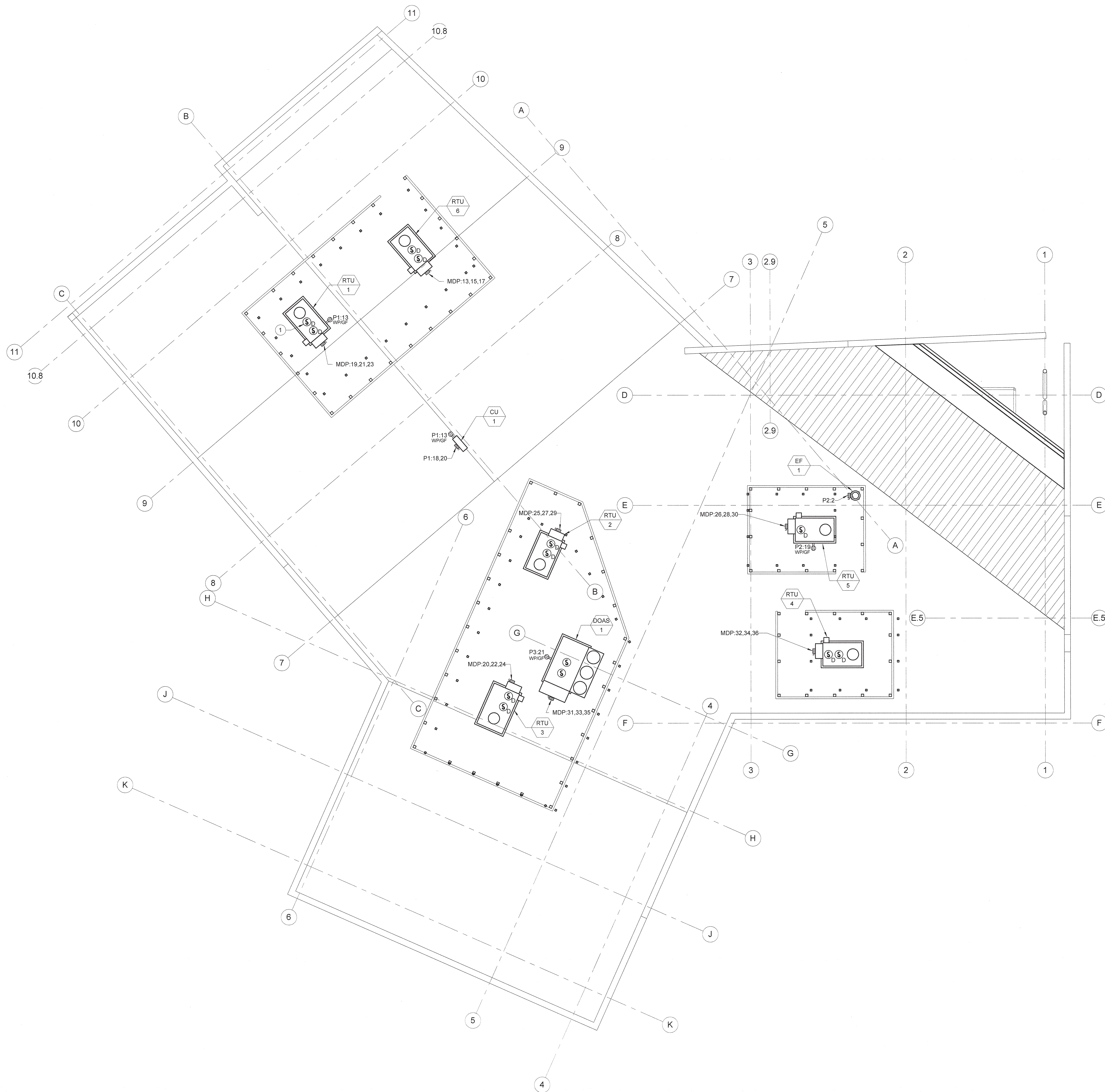
DATE AUGUST 14, 2017
 PROJECT PINE VALLEY BRANCH
 DEI PROJECT # 50090277
 SCO ID #

DRAWING TITLE
FIRST FLOOR PLAN - POWER (ALTERNATE #2)

DRAWING NUMBER
E201B

1 ELECTRICAL POWER & TELECOMMUNICATIONS PLAN - FIRST FLOOR (ALTERNATE #2)
 Scale: 1/8" = 1'-0"





GENERAL NOTES:

1. REFER TO DISCONNECT SWITCH AND COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SCHEDULE FOR EQUIPMENT POWER CIRCUIT INFORMATION.
2. REFER TO ELECTRICAL CONNECTIONS TO MECHANICAL/PLUMBING EQUIPMENT DETAIL FOR DIVISION OF LABOR FOR EQUIPMENT CONNECTIONS.

KEYED NOTES:

1. REFER TO MECHANICAL SECTIONS FOR EXACT LOCATION OF DUCT SMOKE DETECTORS. TYPICAL FOR EACH ROOF TOP UNIT.



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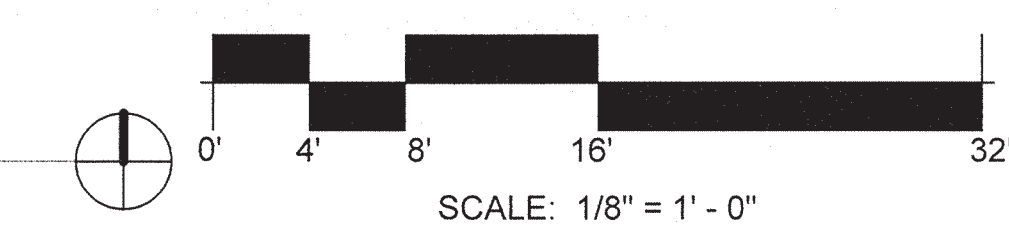
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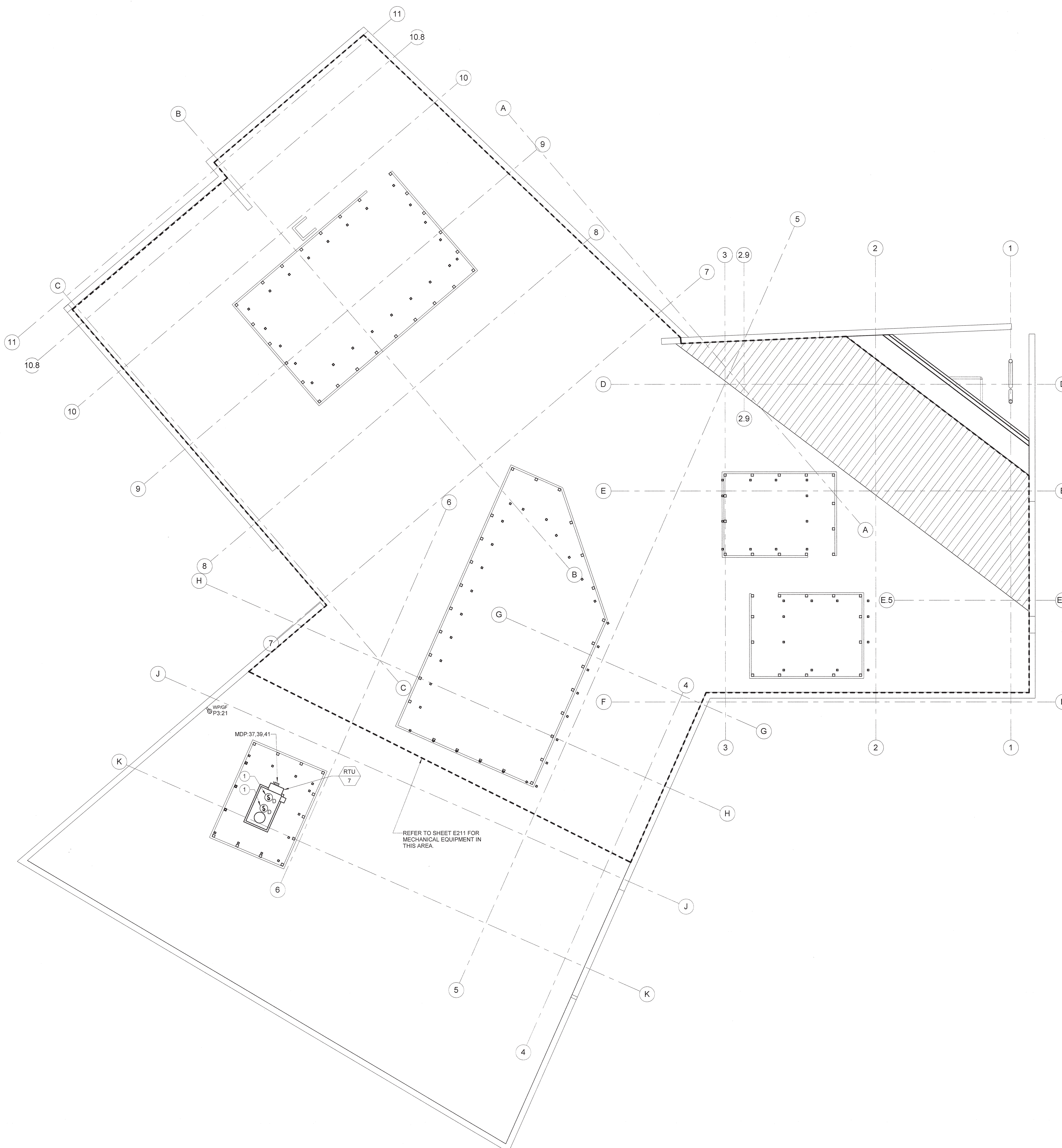
DATE AUGUST 14, 2017
 PROJECT PINE VALLEY BRANCH
 DEI PROJECT # 50090277
 SCO ID # -

DRAWING TITLE
ROOF PLAN - POWER

DRAWING NUMBER
E211

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





GENERAL NOTES:

1. REFER TO DISCONNECT SWITCH AND COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SCHEDULE FOR EQUIPMENT POWER CIRCUIT INFORMATION.
2. REFER TO ELECTRICAL CONNECTIONS TO MECHANICAL/PLUMBING EQUIPMENT DETAIL FOR DIVISION OF LABOR FOR EQUIPMENT CONNECTIONS.

KEYED NOTES:

- 1 REFER TO MECHANICAL SECTIONS FOR EXACT LOCATION OF DUCT SMOKE DETECTORS.



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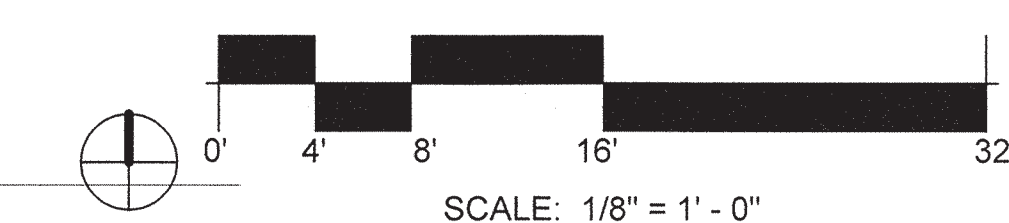
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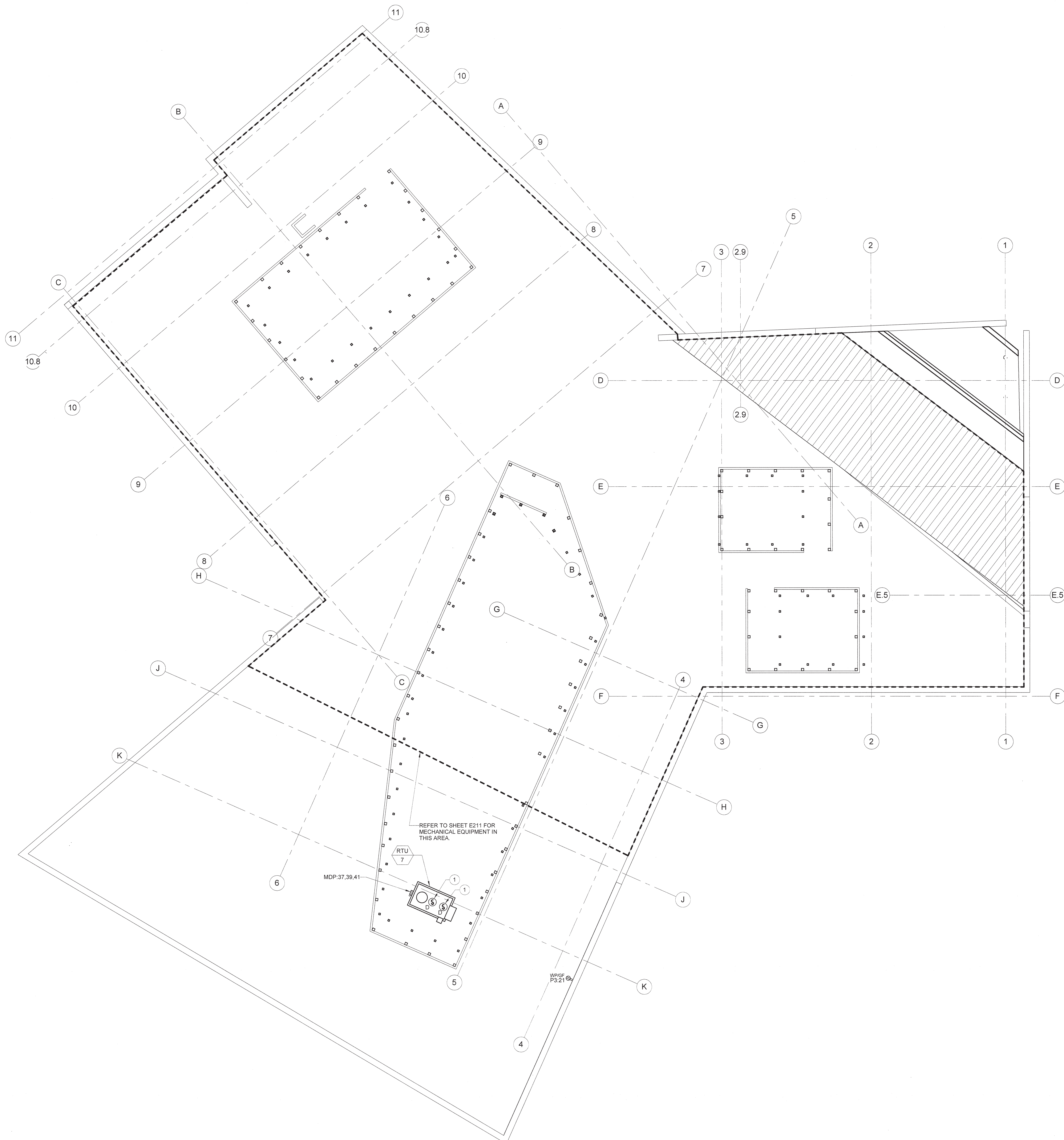
DRAWING TITLE

**ROOF PLAN -
 POWER
 (ALTERNATE #1)**

DRAWING NUMBER

E211A





GENERAL NOTES:

1. REFER TO DISCONNECT SWITCH AND COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SCHEDULE FOR EQUIPMENT POWER CIRCUIT INFORMATION.
2. REFER TO ELECTRICAL CONNECTIONS TO MECHANICAL/PLUMBING EQUIPMENT DETAIL FOR DIVISION OF LABOR FOR EQUIPMENT CONNECTIONS.

KEYED NOTES:

- 1 REFER TO MECHANICAL SECTIONS FOR EXACT LOCATION OF DUCT SMOKE DETECTORS.



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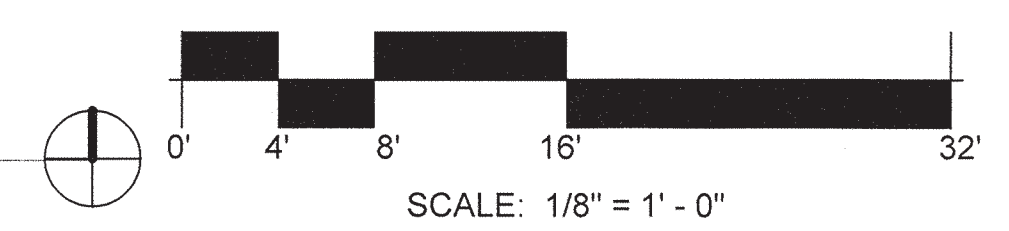
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DATE AUGUST 14, 2017
 PROJECT PINE VALLEY BRANCH
 DEI PROJECT # 50090277
 SCO ID #

DRAWING TITLE
ROOF PLAN - POWER (ALTERNATE #2)

DRAWING NUMBER
E211B



PINE VALLEY LIBRARY LOAD SUMMARY

	CONNECTED	DEMAND
LIGHTING	20.4 KVA	23.7 KVA
RECEPTACLES	49.2 KVA	29.5 KVA
HVAC	114.5 KVA	114.5 KVA
LARGEST MOTOR	46.5 KVA	58.1 KVA
MISC. EQUIPMENT	23.7 KVA	23.7 KVA
WATER HEATER	4.5 KVA	5.6 KVA
TOTAL ON PANELBOARD	258.8 KVA	257.0 KVA
BUILDING DEMAND CURRENT	713 AMPS @ 208Y/120V	
BUILDING DEMAND FACTOR	99.3%	

FEEDER AND CONDUIT TABLE

FEEDER TAG	AMPACITY (AMP)	COPPER FEEDER SIZE
SINGLE PHASE (NO NEUTRAL) & GROUND (S)		
30S	30	2#10, 1#10G IN 3/4" C
THREE PHASE, NEUTRAL, & EQUIPMENT GROUND (Y)		
100Y	100	3#3, 1#3N, 1#6G IN 1-1/4" C
225Y	230	3#4/0, 1#4/0N, 1#4G IN 2-1/2" C
THREE PHASE & GROUNDED NEUTRAL (SE)		
800SE	800	3 SETS OF 3-300KCMIL, 1-300KCMIL GN IN 2-1/2" C EACH SET

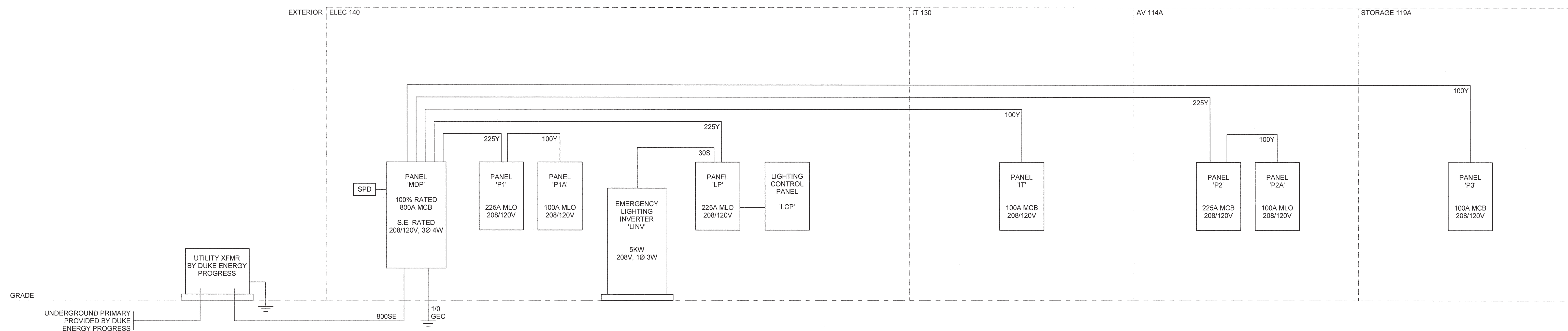
NOTES:

- AMPACITY LISTED IS BASED ON NEC TABLE 310.15(B)(16) AND THE 75°C RATING COLUMN UNLESS LIMITED BY ARE ENCOUNTERED CONTRACTOR SHALL RESIZE PHASE CONDUCTOR AND EQUIPMENT GROUND ACCORDINGLY EQUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122. IF TERMINALS OR SPLICES RATED LESS THAN 75°C.
- IF PHASE CONDUCTORS ARE INCREASED ABOVE SIZE LISTED FOR ANY REASON, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONALLY BASED ON CIRCULAR MIL AREA PER NEC 250.122(B).
- CONDUIT SIZE IS BASED ON THHN/THWN CONDUCTORS IN EMT. CONTRACTOR SHALL ADJUST CONDUIT SIZE PER NEC CHAPTER 9, TABLE 1.

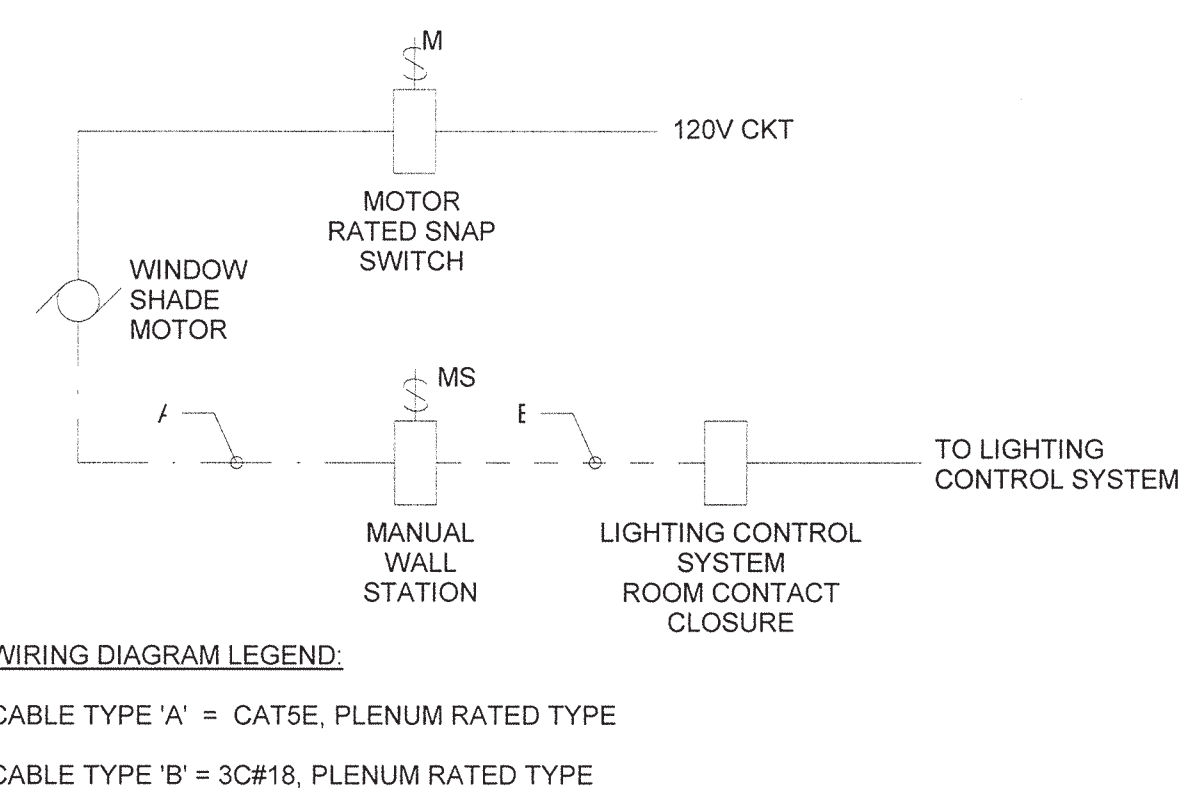
DISCONNECT AND COMBINATION MAGNETIC STARTER/DISCONNECT SCHEDULE

EQUIPMENT TAG	HP	VOLTAGE	POLES	SWITCH SIZE	FUSE	STARTER	ENCLOSURE	CIRCUIT SIZE	NOTES
RTU-1	40A	208	3	60	60	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-2	39A	208	3	60	50	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-3	52A	208	3	100	80	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-4	40A	208	3	60	60	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-5	39A	208	3	60	50	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-6	39A	208	3	60	50	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-7 (ALT. 1)	40A	208	3	60	60	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
RTU-7 (ALT. 2)	40A	208	3	60	60	N/A	NEMA 4	3#6, #10G IN 3/4" C	SN-1
DOAS-1	129A	208	3	200	175	N/A	NEMA 4	3#10, #6G IN 1-1/2" C	SN-1
DMSS-1	1A	120	1	N/A	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
CU-1	19A	208	2	30	25	N/A	N/A	2#10, #10G IN 3/4" C	SN-2
EF-1	1/4 HP	120	1	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
EF-2	0.67A	120	1	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
EF-3	0.67A	120	1	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
EF-4 (ALT. 2)	0.67A	120	1	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
TU-1, 2, 3, 4, 5, 6	4.17A	120	1	20	NF	N/A	N/A	2#10, #12G IN 3/4" C	SN-2
TU-7 (ALT. 2)	4.17A	120	1	20	NF	N/A	N/A	2#10, #12G IN 3/4" C	SN-2
UH-1	4.17A	208	3	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2
WATER HEATER	21.6A	208	1	30	NF	N/A	N/A	2#10, #10G IN 3/4" C	SN-2
RECIRC. PUMP	2.2A	120	1	20	NF	N/A	N/A	2#12, #12G IN 3/4" C	SN-2

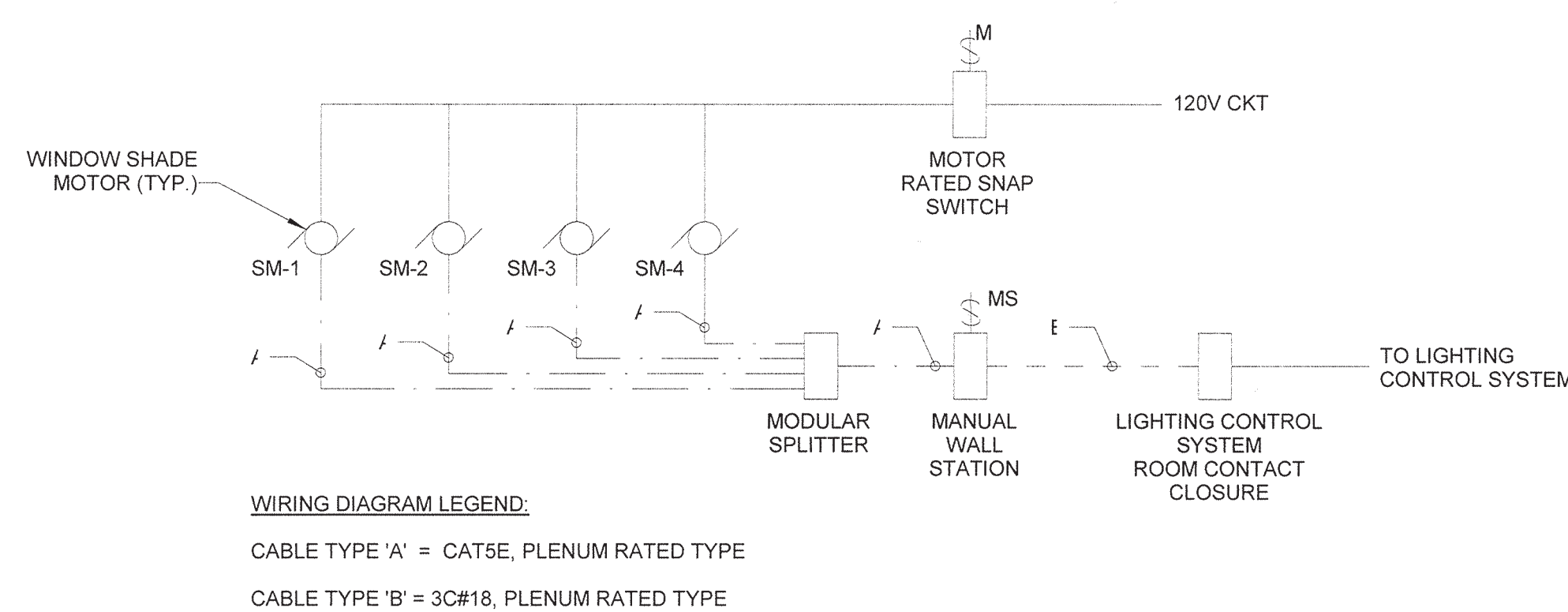
- GENERAL NOTES:**
- SCHEDULE INCLUDES DISCONNECTS FOR DIVISION 22, 23, & 25 EQUIPMENT. DISCONNECTS PROVIDED BY DIVISION 26 SIZED ON PLANS.
 - COORDINATE ALL DISCONNECT, FUSE, AND STARTER SIZES WITH ACTUAL EQUIPMENT TO BE INSTALLED.
 - WHERE STARTER SIZE IS INDICATED IN SCHEDULE, PROVIDE COMBINATION MAGNETIC STARTER AND DISCONNECT.
- SCHEDULE NOTES:**
- DISCONNECT INTEGRAL TO EQUIPMENT CONTROL PANEL.
 - PROVIDE 20A/1P SNAP SWITCH.



1 ELECTRICAL RISER DIAGRAM
Scale: NOT TO SCALE



2 WINDOW SHADE WIRING DIAGRAM - SINGLE MOTOR ROOM
Scale: NOT TO SCALE



3 WINDOW SHADE WIRING DIAGRAM - MULTIPLE MOTOR ROOM
Scale: NOT TO SCALE

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PHASE CONSTRUCTION DOCUMENTS

DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 50090277
SCO ID #

DRAWING TITLE
**ELECTRICAL RISER
DIAGRAM**

DRAWING NUMBER

E501



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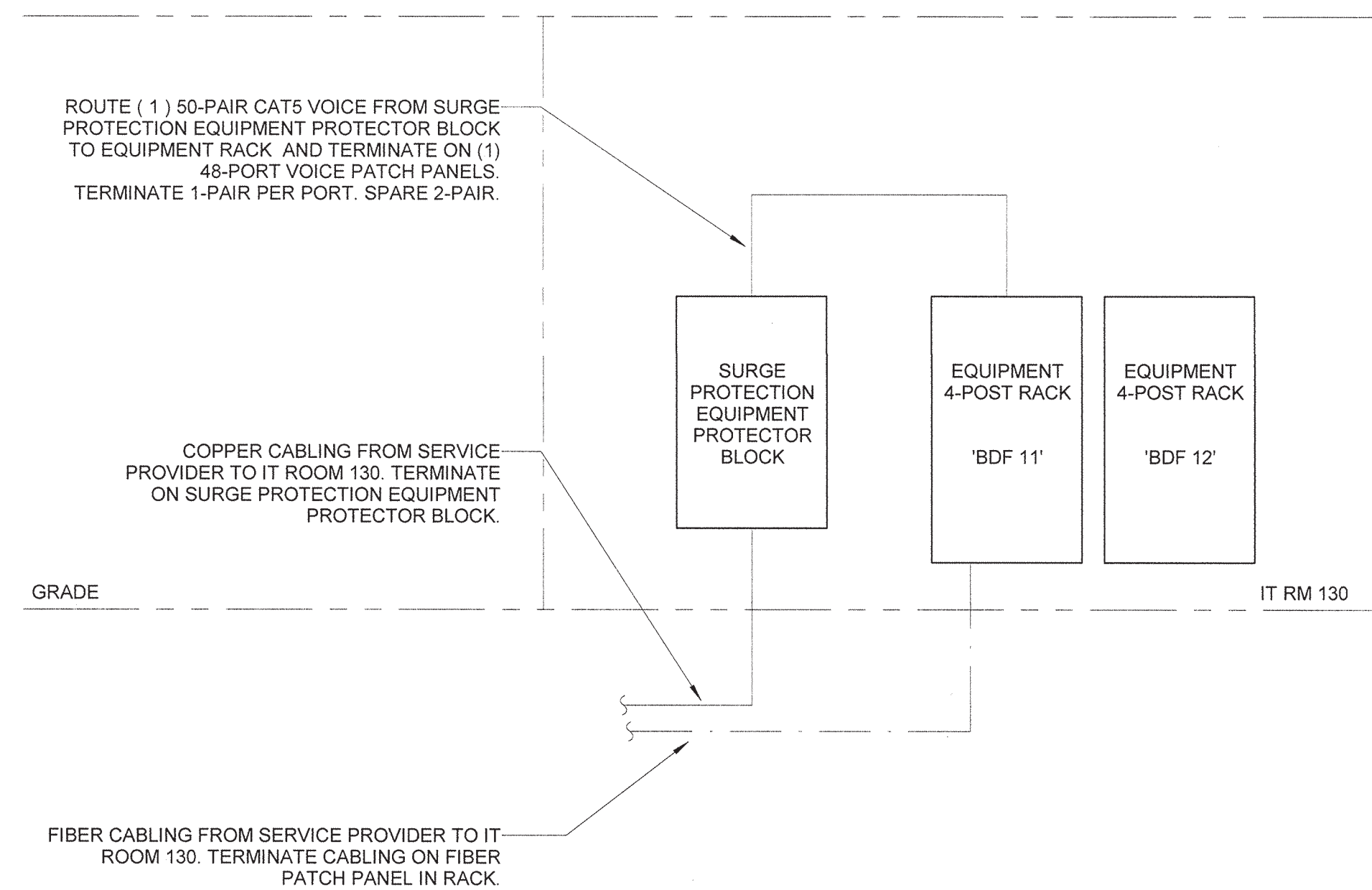
PHASE CONSTRUCTION DOCUMENTS

DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 50090277
SCO ID # -

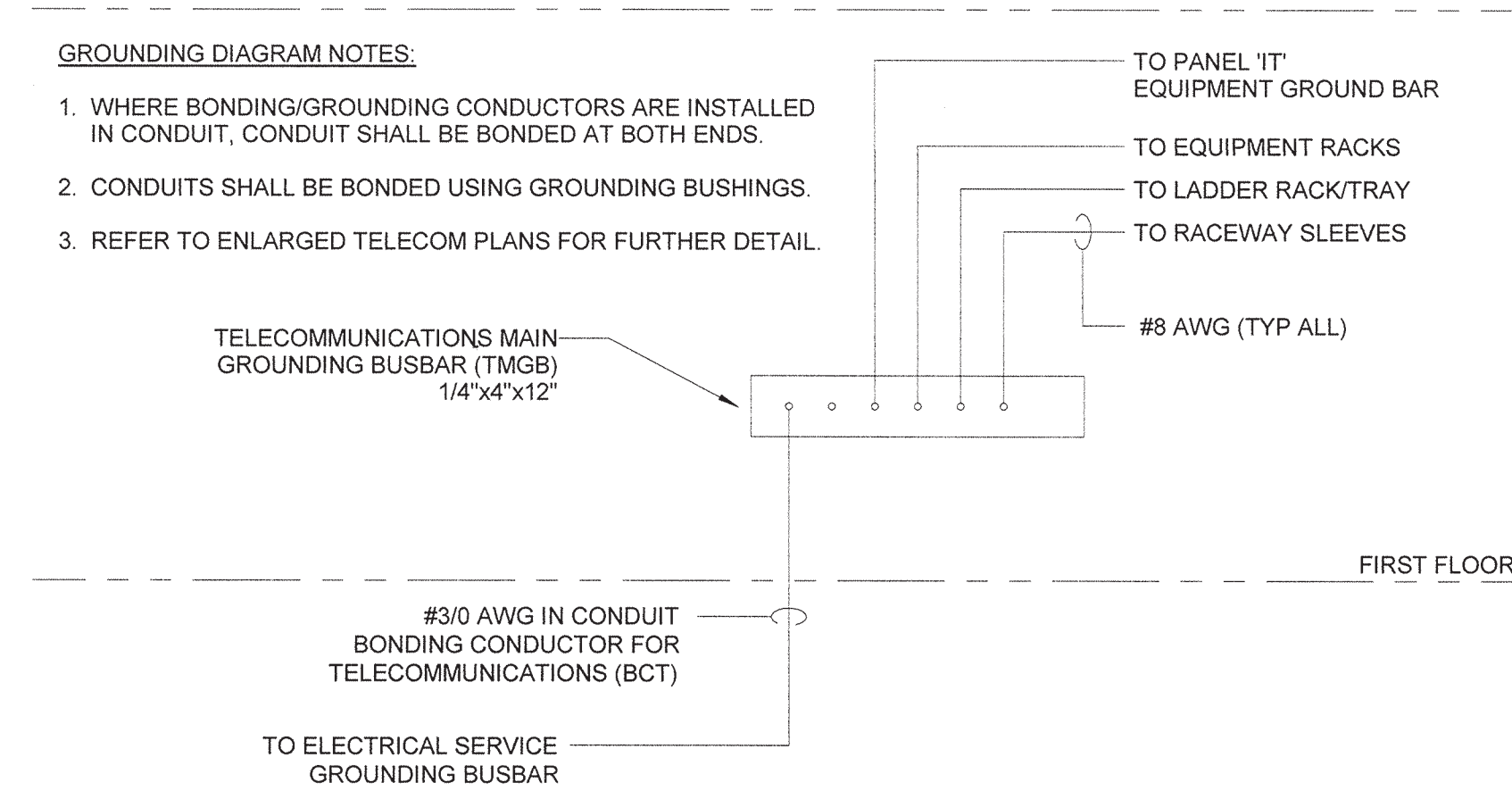
DRAWING TITLE
TELECOM RISER DIAGRAM

DRAWING NUMBER

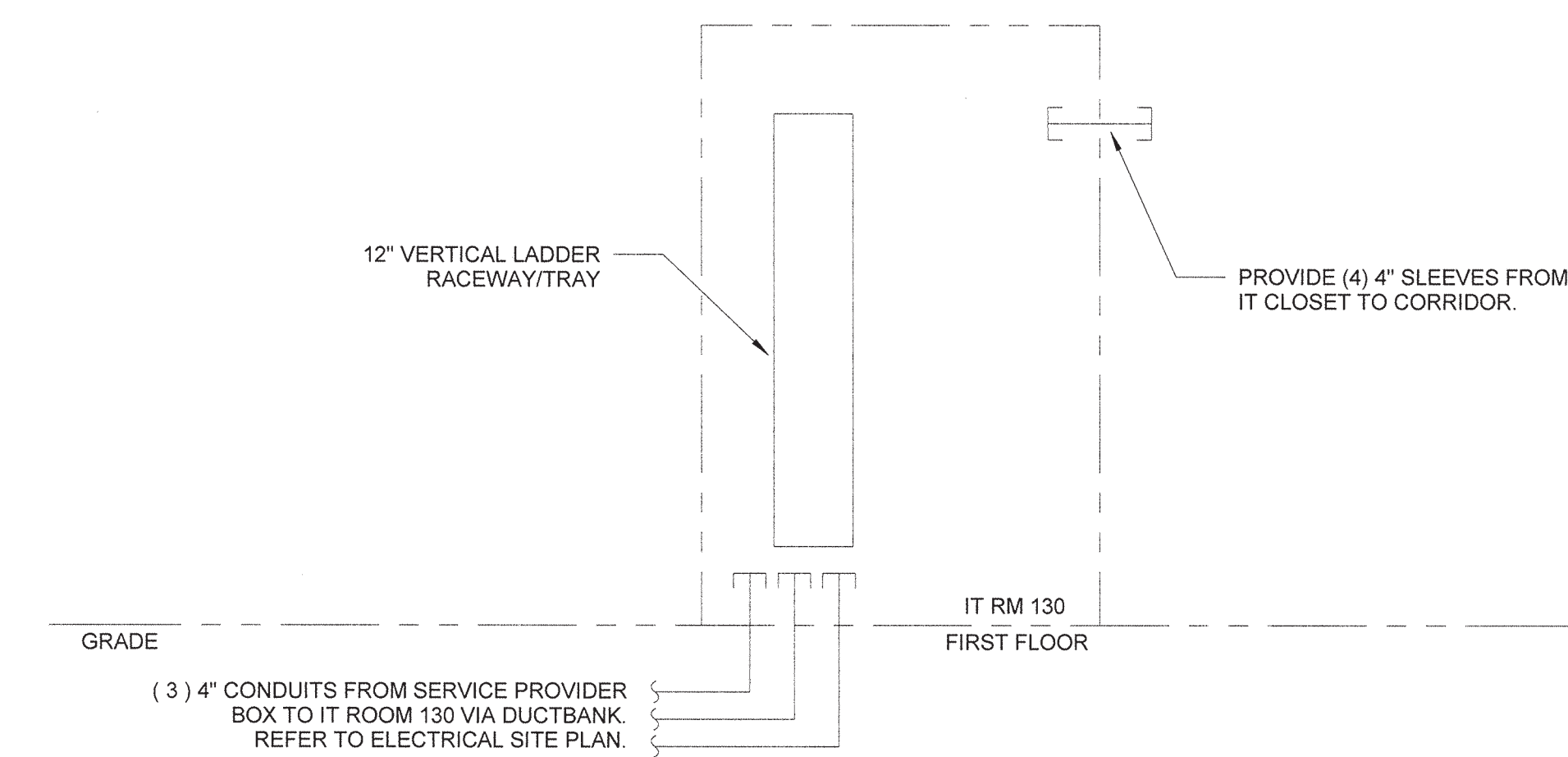
E502



1 VOICE/DATA CABLE INFRASTRUCTURE RISER DIAGRAM
Scale: NOT TO SCALE



2 VOICE/DATA GROUNDING INFRASTRUCTURE DIAGRAM
Scale: NOT TO SCALE



3 VOICE/DATA RACEWAY INFRASTRUCTURE RISER DIAGRAM
Scale: NOT TO SCALE

PANEL DESIGNATION: IT		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO		MAIN CIRCUIT BREAKER: YES BREAKER RATING: 100 A BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 10	
LOCATION: IT 130 SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1					

CKT	LOAD SERVED	CB	P	N	A	B	C	N	P	CB	LOAD SERVED	CKT	
1	REC: IT 130	20 A	1		180	500				1	20 A	RECEPTACLE IT 130	2
3	REC: IT 130	20 A	1			180	0			1	20 A	SPARE	4
5	REC: IT 130	20 A	1		0	0	180	0		1	20 A	SPARE	6
7	SPARE	20 A	1							1	20 A	SPARE	8
9	SPARE	20 A	1			0	0			1	20 A	SPARE	10
11	SPARE	20 A	1					0	0	2	20 A	SPARE	12
13	UPS REC: IT 130	20 A	2		1000	0				2	20 A	SPARE	14
15	---	---	---	---	---	---	---	---	---	---	---	---	16
17	UPS REC: IT 130	20 A	2		1000	0		1000	0	2	20 A	SPARE	18
19	---	---	---	---	1000	0				1	20 A	SPARE	20
21	SPARE	20 A	1			0	0			1	20 A	SPARE	22
23	SPARE	20 A	1				0	0		1	20 A	SPARE	24
25	SPARE	20 A	1		0	0				1	20 A	SPARE	26
27	SPARE	20 A	1				0	0		1	20 A	SPARE	28
29	SPARE	20 A	1					0	0	1	20 A	SPARE	30
31	SPARE	20 A	1		0	0				1	20 A	SPARE	32
33	SPACE	---	---	---		0	0			---	---	SPACE	34
35	SPACE	---	---	---		0	0			---	---	SPACE	36
37	SPACE	---	---	---	0	0				---	---	SPACE	38
39	SPACE	---	---	---		0	0			---	---	SPACE	40
41	SPACE	---	---	---			0	0		---	---	SPACE	42
TOTAL LOAD:					2680 VA	1180 VA	1180 VA						
TOTAL AMPS:					22 A	10 A	10 A						

LOAD CLASSIFICATION		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
Misc. Equipment		4000 VA	4000 VA	TOTAL LOAD: 5040 VA
Receptacle		1040 VA	1040 VA	DEMAND FACTOR: 100.00%
				DEMAND LOAD: 5040 VA
				DEMAND AMPS: 14 A

PANEL DESIGNATION: P1		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO		MAIN CIRCUIT BREAKER: N/A BREAKER RATING: MLO BUS RATING: 225 A NEUTRAL RATING: 100% MINIMUM KAIC: 22	
LOCATION: ELECTRICAL 140 SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1					

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	N	P	CB	LOAD SERVED	CKT	
1	FAAP: VESTIBULE 101	20 A	1		500	1001				1	20 A	TERMINAL UNITS (TU-1) (TU-6)	2
3	REC: TEEN 126	20 A	1			720	900			1	20 A	REC: ROOM 125, 124, 123, 121	4
5	REC: EXTERIOR	20 A	1				720	557		1	20 A	EXHAUST FAN (EF-1)	6
7	REC: SM. PROG. 125	20 A	1		540	500				3	20 A	UNIT HEATER (UH-1)	8
9	STACK POWER: QUIET AREA 121	20 A	1			930	500			---	---	---	10
11	REC: SM. PROG. 125	20 A	1					720	500	---	---	---	12
13	REC: ROOF SERVICE...	20 A	1		360	900				1	20 A	REC: MEETING 122	14
15	REC: QUIET AREA 121	20 A	1			360	540			1	20 A	REC: MEETING 122	16
17	REC: STUDY 125	20 A	1				1080	1976		2	25 A	CONDENSING UNIT (CU-1)	18
19	FAAP: SPRINKLER 141	20 A	1		500	1976				---	---	---	20
21	REC: MEETING 122	20 A	1			360	540			1	20 A	REC: MEETING 122	22
23	SPARE	20 A	1					0	1000	2	30 A	WELL PUMP	24
25	SPARE	20 A	1		0	1000				---	---	---	26
27	SPARE	20 A	1			0	500			1	20 A	REC: STAFF ENTRY 135	28
29	SPARE	20 A	1				0	1000		2	30 A	GRINDER PUMP STATION	30
31	SPARE	20 A	1		0	1000				---	---	---	32
33	SPACE	20 A	1			0	1260			1	20 A	REC: QUIET AREA 121	34
35	SPACE	20 A	1				0	0		---	---	---	36
37	PANEL 'P1A'	20 A	3		4320	0				---	---	---	38
39	---	---	---	---		2740	0			---	---	---	40
41	---	---	---	---			1700	0		---	---	---	42
TOTAL LOAD:					12596 VA	9350 VA	9253 VA						
TOTAL AMPS:					105 A	78 A	77 A						

LOAD CLASSIFICATION		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
Misc. Equipment		7250 VA	7250 VA	TOTAL LOAD: 31198 VA
HVAC		7008 VA	7008 VA	DEMAND FACTOR: 88.88%
Receptacle		16940 VA	13470 VA	DEMAND LOAD: 27728 VA
				DEMAND AMPS: 77 A

PANEL DESIGNATION: P2A		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO		MAIN CIRCUIT BREAKER: MLO BREAKER RATING: N/A BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 10	
LOCATION: AV 114A SUPPLY FROM: P2 MOUNTING: SURFACE ENCLOSURE: NEMA 1					

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	N	P	CB	LOAD SERVED	CKT	
1	REC: AV 114A	20 A	1		360	0				1	20 A	SPARE	2
3	REC: AV 114A	20 A	1			180	0			1	20 A	SPARE	4
5	STACK POWER: ADULT 115	20 A	1		1056	0	450	0		1	20 A	SPARE	6
7	MOTORIZED PROJECTOR...	20 A	1							1	20 A	SPARE	8
9	REC: LARGE PROG. B 113	20 A	1			720	0			1	20 A	SPARE	10
11	REC: LARGE PROG. B 113	20 A	1				720	0		1	20 A	SPARE	12
13	REC: LARGE PROG. A 115	20 A	1		720	0				1	20 A	SPARE	14
15	REC: LARGE PROG. A 115	20 A	1			720	0			1	20 A	SPARE	16
17	REC: ROOM 115, 116	20 A	1				1080	0		1	20 A	SPARE	18
19	REC: PROJECTOR 113, 114	20 A	1		360	0				1	20 A	SPARE	20
21	SPARE	20 A	1				0	0		1	20 A	SPARE	22
23	SPARE	20 A	1				0	0		1	20 A	SPARE	24
25	SPARE	20 A	1		0	0				1	20 A	SPARE	26
27	SPARE	20 A	1			0	0			1	20 A	SPARE	28
29	SPARE	20 A	1				0	0		1	20 A	SPARE	30
31	SPARE	20 A	1		0	0				1	20 A	SPARE	32
33	SPACE	---	---	---		0	0			---	---	SPACE	34
35	SPACE	---	---	---		0	0			---	---	SPACE	36
37	SPACE	---	---	---	0	0				---	---	SPACE	38
39	SPACE	---	---	---		0	0			---	---	SPACE	40
41	SPACE	---	---	---			0	0		---	---	SPACE	42
TOTAL LOAD:					3496 VA	1620 VA	2250 VA						
TOTAL AMPS:					22 A	14 A	20 A						

LOAD CLASSIFICATION		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
Misc. Equipment		450 VA	450 VA	TOTAL LOAD: 6366 VA
Receptacle		5916 VA	5916 VA	DEMAND FACTOR: 100.00%
				DEMAND LOAD: 6366 VA
				DEMAND AMPS: 16 A

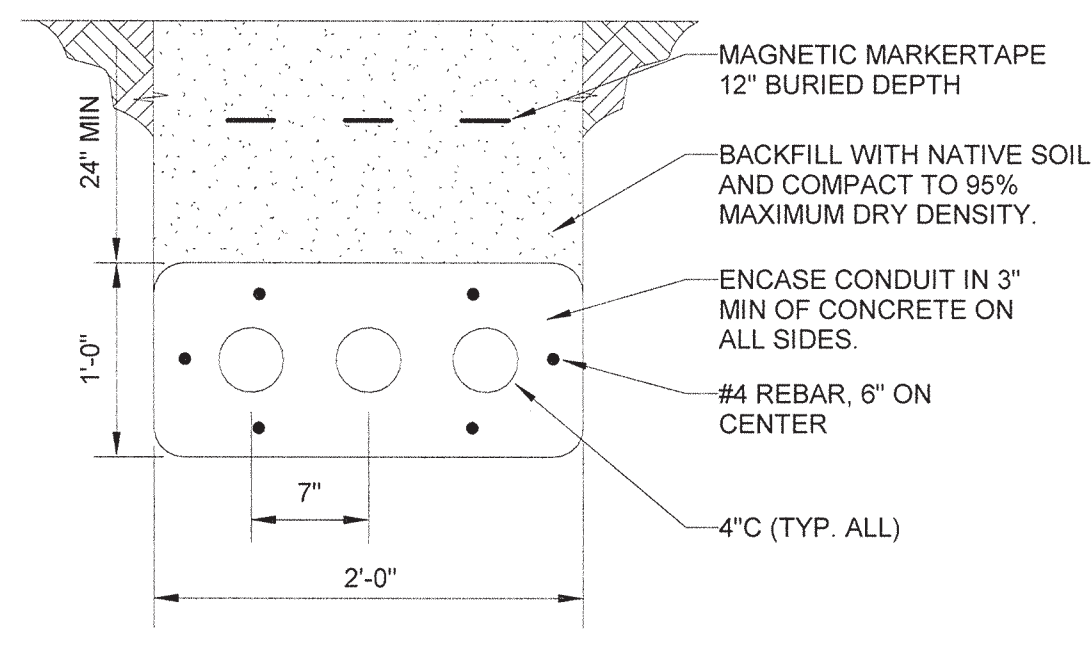
PANEL DESIGNATION: LP		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO		MAIN CIRCUIT BREAKER: N/A BREAKER RATING: MLO BUS RATING: 225 A NEUTRAL RATING: 100% MINIMUM KAIC: 22	
LOCATION: ELECTRICAL 140 SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1					

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	N	P	CB	LOAD SERVED	CKT		
1	LTG: GENERAL COPY 128A	20 A	1		264	462				1	20 A	LTG: CHILDREN'S 118	2	
3	LTG: TEEN 127	20 A	1			597	660			1	20 A	LTG: CHILDREN'S 118	4	
5	LTG: MAKER / PROGRAM 126	20 A	1				745	924		1	20 A	LTG: CHILDREN'S 118	6	
7	LTG: GENERAL BREAK 139	20 A	1		835	432				1	20 A	LTG: CHILDREN'S 118	8	
9	LTG: VESTIBULE 101	20 A	1			1072	924			1	20 A	LTG: QUIET AREA 121	10	
11	LTG: CORRIDOR 105	20 A	1				996	408		1	20 A	LTG: QUIET AREA 121	12	
13	LTG: JANITOR 107	20 A	1		1324	480				1	20 A	LTG: PATIO LIGHTS	14	
15	LTG: GENERAL STORAGE	20 A	1			916	1254			1	20 A	LTG: BUILDING LIGHTS	16	
17	LTG: READINGS 117	20 A	1				787	280		1	20 A	LTG: CHILDREN'S 118	18	
19	LTG: CHILDREN'S 118	20 A	1		727	366				1	20 A	LTG: CHILDREN'S 118	20	
21	LTG: CHILDREN'S 118	20 A	1			150	611			1	20 A	LTG: CHILDREN'S 118 (ALT. 1)	22	
23	LTG: CHILDREN'S 118	20 A	1				150	1178		1	20 A	LTG: CHILDREN'S 118 (ALT. 1)	24	
25	LTG: CHILDREN'S 118	20 A	1		150	811				2	1	20 A	LTG: CHILDREN'S 118 (ALT. 2)	26
27	LTG: CHILDREN'S 118	20 A	1			150	1217			2	1	20 A	LTG: CHILDREN'S 118 (ALT. 2)	28
29	LTG: STOR. 133, MEET. 122...	20 A	1				371	0		1	20 A	SPARE	30	
31	LTG: EXTERIOR POLE LIGHTS	20 A	1		620	0				---	---	---	32	
33	LTG: EXTERIOR POLE LIGHTS	20 A	1			640	0			---	---	---	34	
35	SPACE	20 A	1				0	0		---	---	---	36	
37	SPACE	20 A	1		0	0				---	---	---	38	
39	SPACE	20 A	1			0	0			2	30 A	LIGHTING INVERTER 'LINV'	40	
41	SPACE	20 A	1				0	0		---	---	---	42	
TOTAL LOAD:					6432 VA	8155 VA	5808 VA							
TOTAL AMPS:					54 A	69 A	46 A							

LOAD CLASSIFICATION		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
Lighting		20393 VA	25491 VA	TOTAL LOAD: 20393 VA
				DEMAND FACTOR: 125.00%
				DEMAND LOAD: 25491 VA
				DEMAND AMPS: 71 A

PANEL DESIGNATION: P1A		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO		MAIN CIRCUIT BREAKER: N/A BREAKER RATING: MLO BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 22	
LOCATION: ELECTRICAL 140 SUPPLY FROM: P1 MOUNTING: SURFACE ENCLOSURE: NEMA 1					

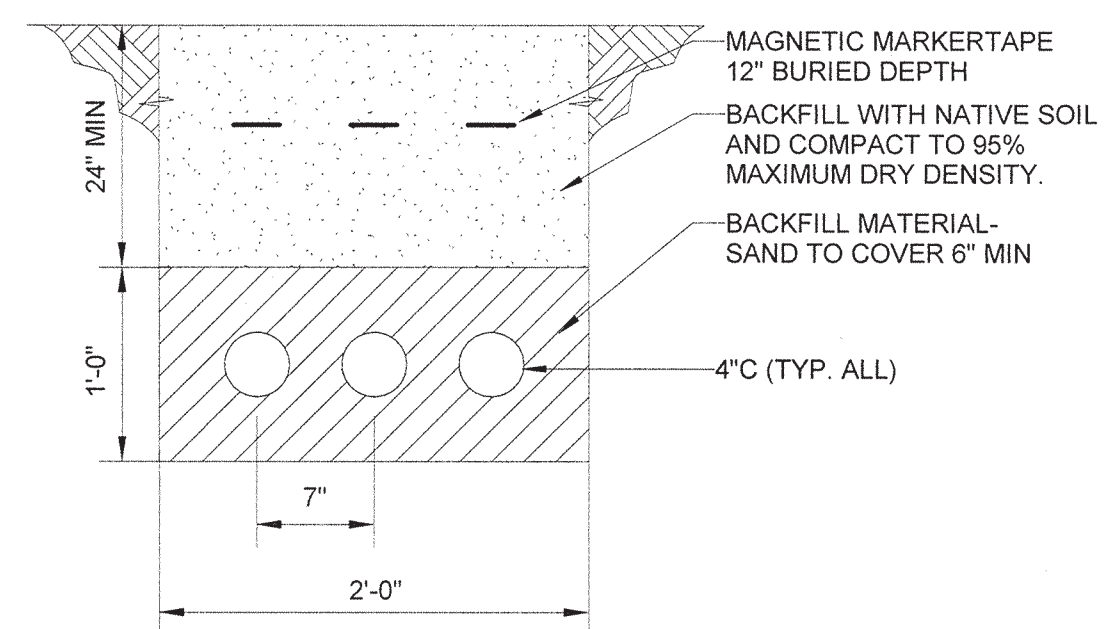
CKT	LOAD SERVED	CB	P	N	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	N	P	CB	LOAD SERVED	CKT	
1	REC: OFFICE 138	20 A	1		540	300				3	20 A	REC: STAFF WORK AREA 131	2
3	REC: STAFF WORK AREA 131	20 A	1			540	300			---	---	---	4
5	REC: STAFF WORK AREA 132	20 A	1				180	300		---	---	---	6
7	REC: STAFF WORK AREA 131	20 A	1		720	180				1	20 A	PRINTER/COPIER; COPY 125A	8
9	REC: TOILET 128	20 A	1			540	360			1	20 A	REC: ROOM 136, 134, 138, 153	10
11	REC: VOL.												



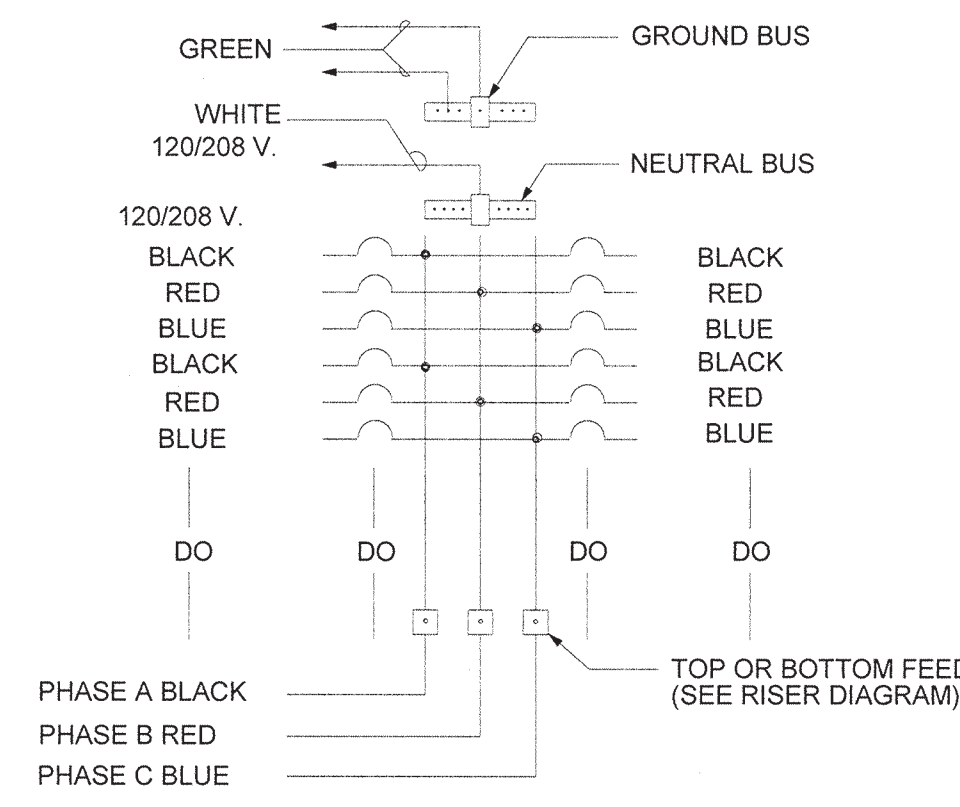
DUCT BANK NOTE:

1. PROVIDE #4 REBAR ENCIRCLING DUCT BANK. REBAR SHALL BE LONGITUDINALLY 6" ON CENTER AND HORIZONTALLY 5" ON CENTER FOR THE ENTIRE LENGTH OF THE DUCT BANK.

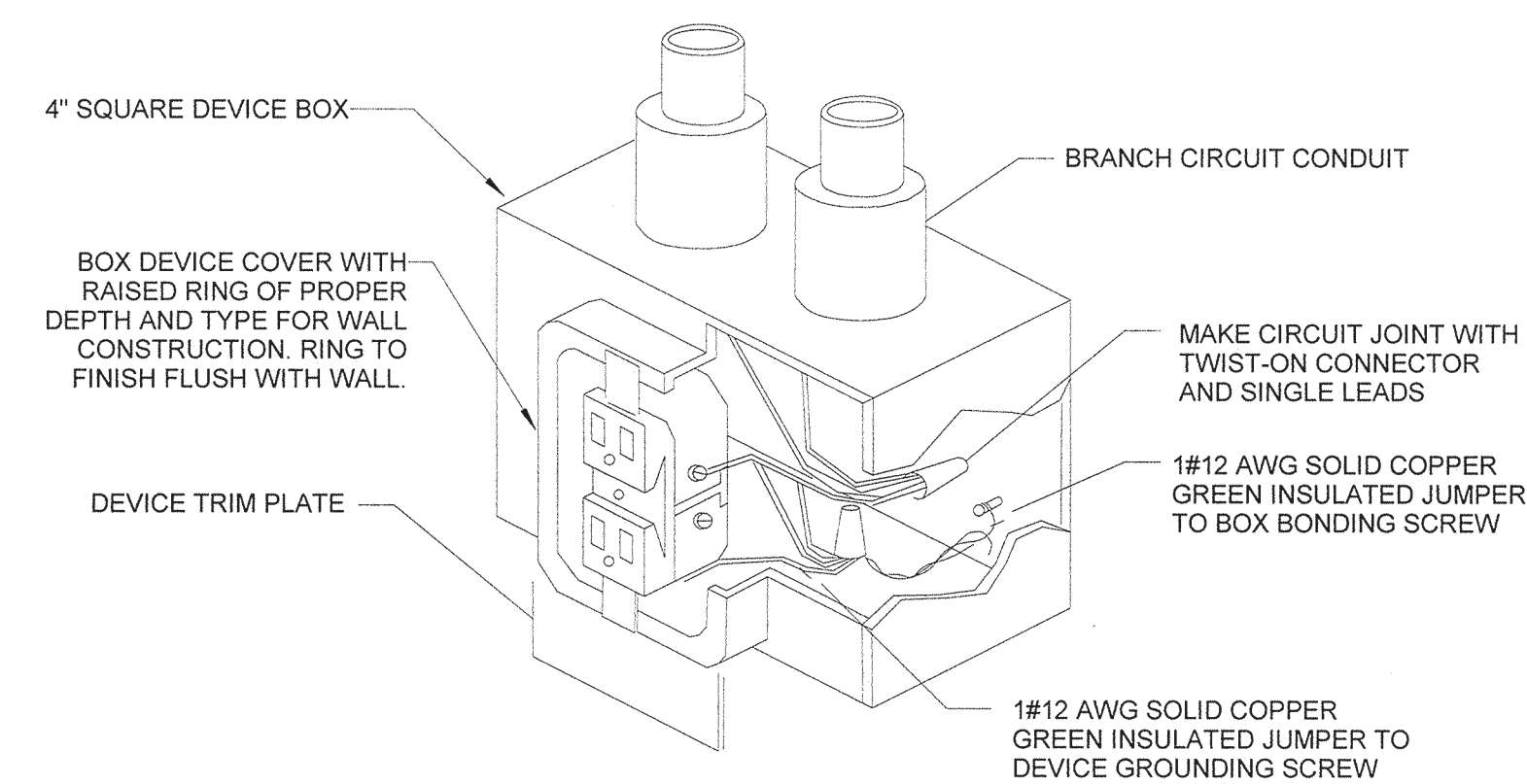
1 DUCT BANK 'A-A' DETAIL
Scale: NOT TO SCALE



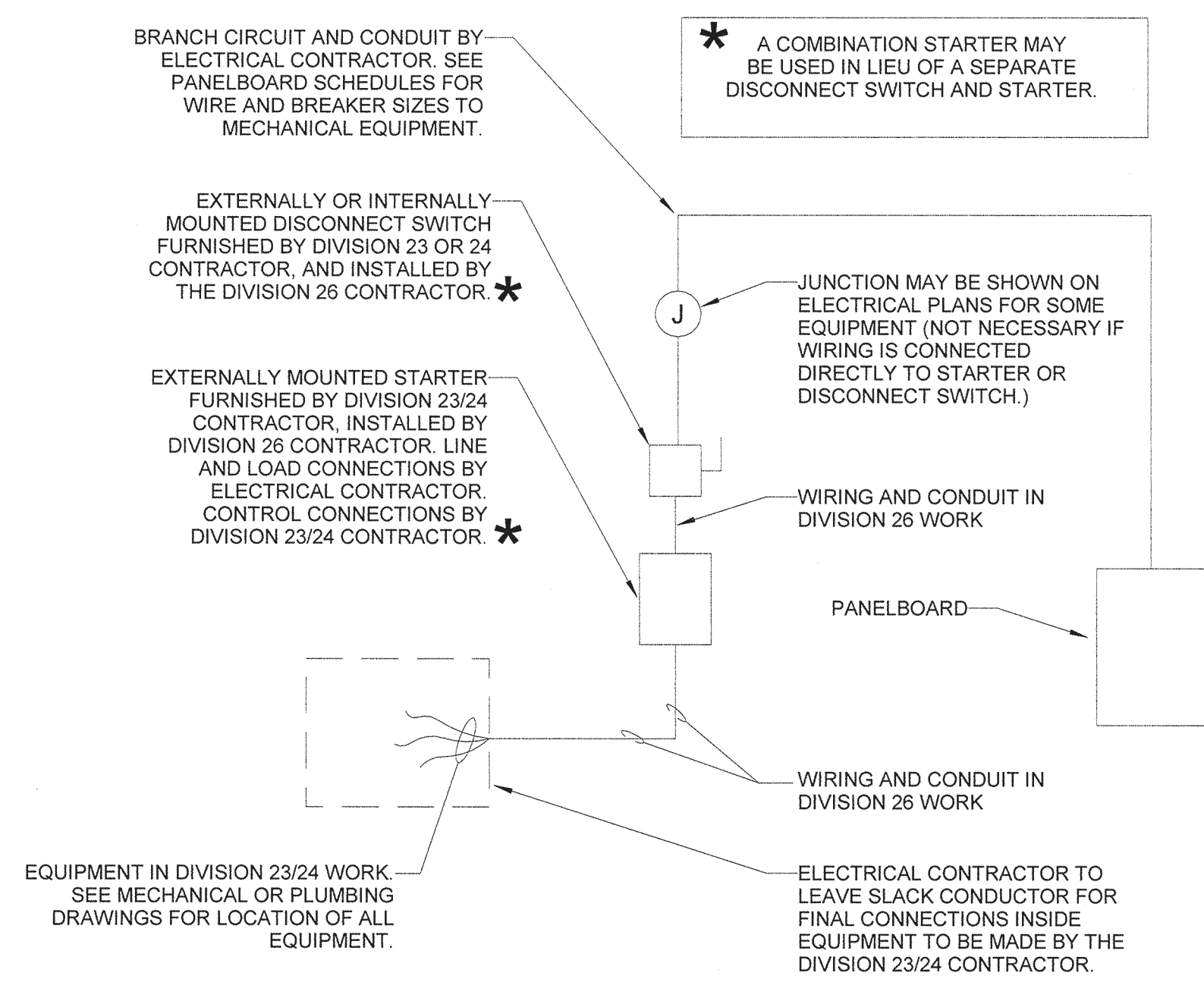
2 DUCT BANK 'B-B' DETAIL
Scale: NOT TO SCALE



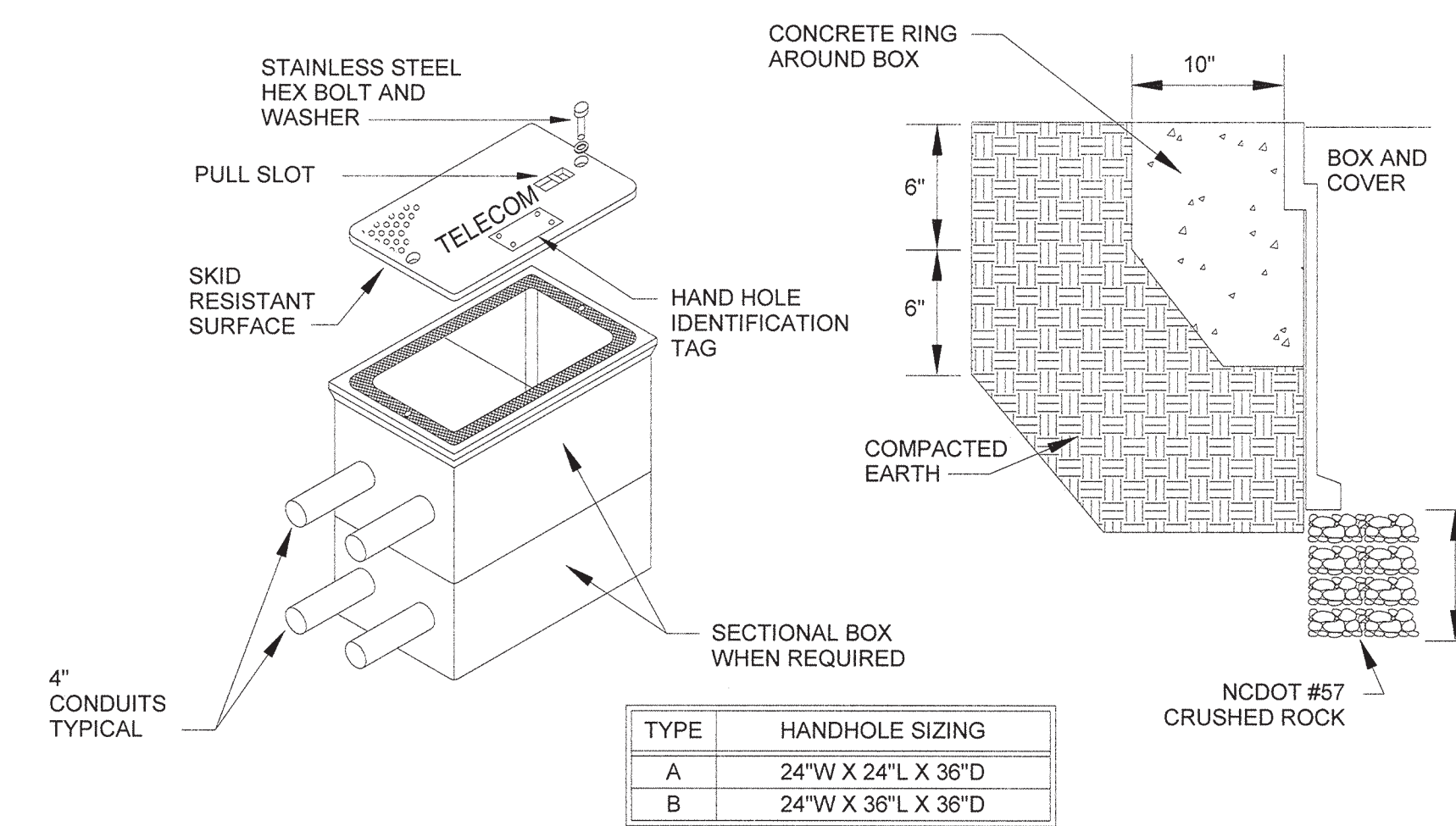
3 WIRING COLOR CODING
Scale: NOT TO SCALE



4 RECEPTACLE GROUNDING DETAIL
Scale: NOT TO SCALE



6 ELECTRICAL CONNECTIONS TO MECH-PLUMB EQUIPMENT
Scale: NOT TO SCALE

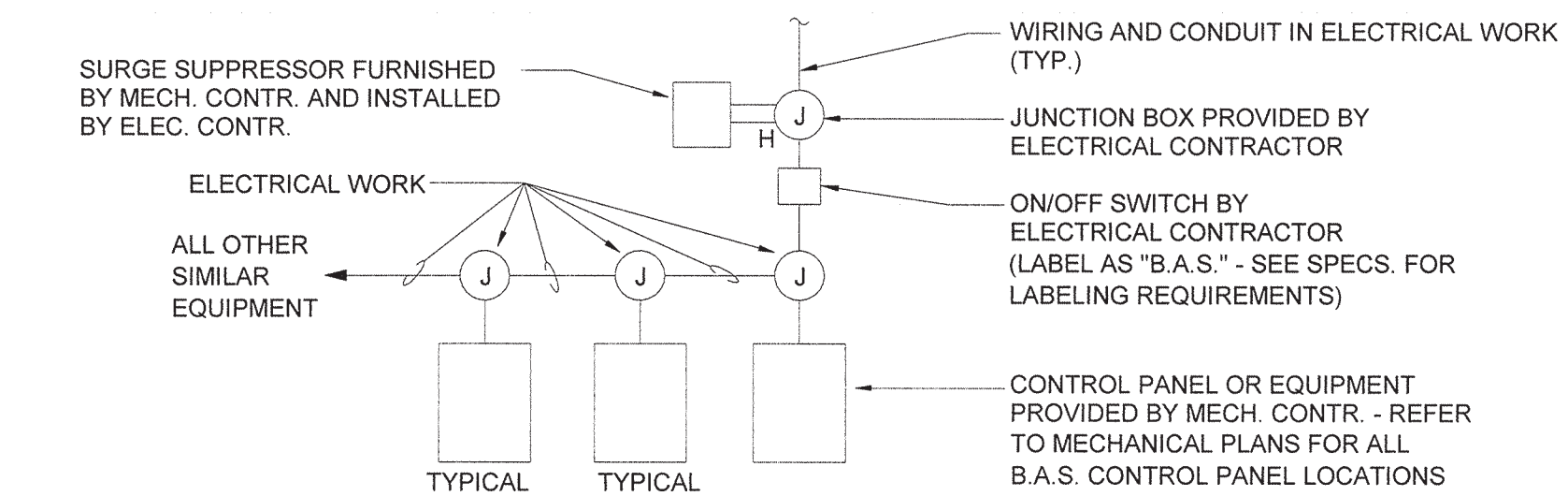


TYPE	HANDHOLE SIZING
A	24"W X 24"L X 36"D
B	24"W X 36"L X 36"D

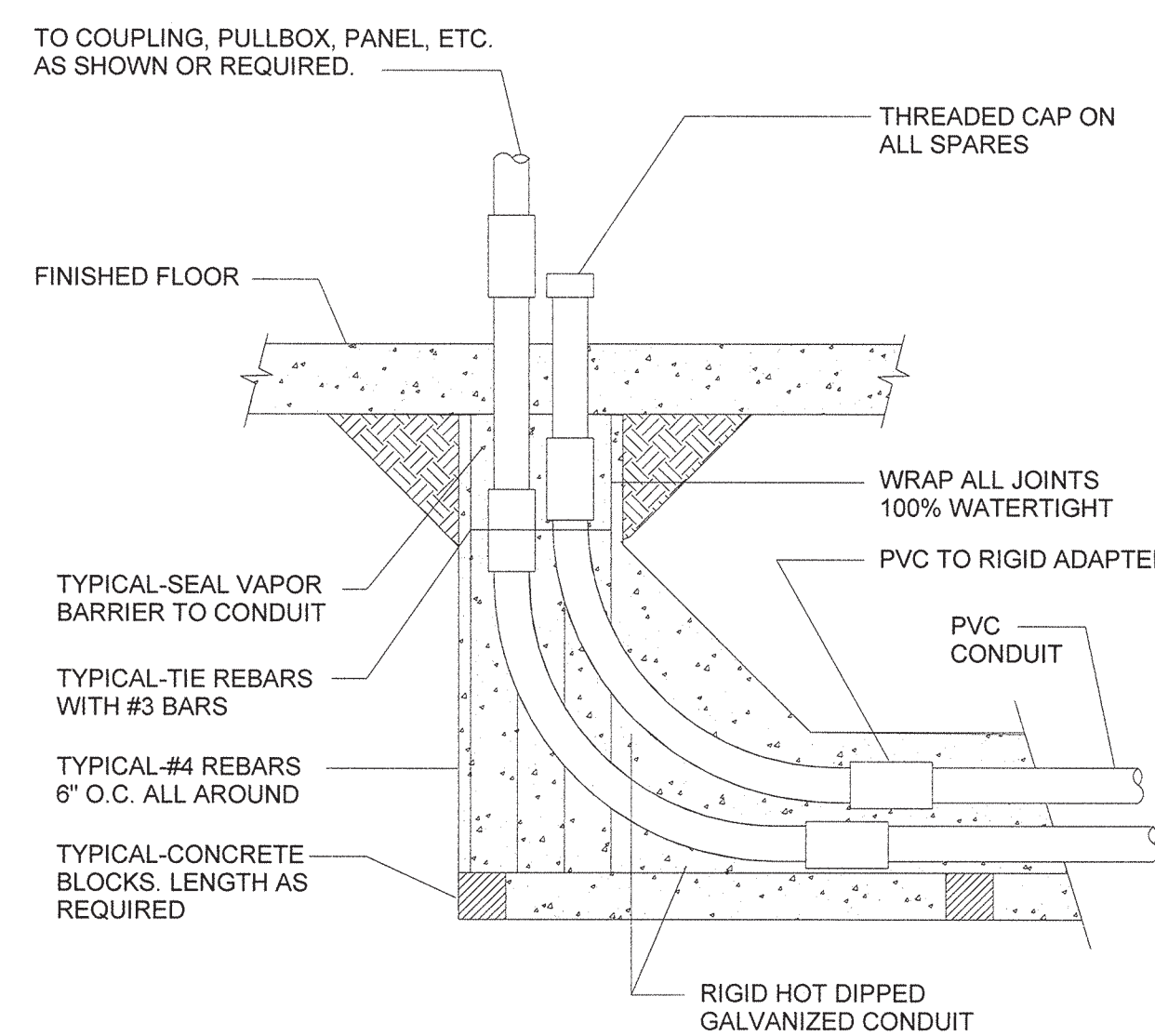
HAND HOLE REQUIREMENTS:

1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. COVER LABEL SHALL READ "TELECOM".
5. HAND HOLE SHALL BE PROVIDED WITH STAINLESS STEEL IDENTIFICATION TAG AND ATTACHED TO COVER USING STAINLESS STEEL SCREWS.

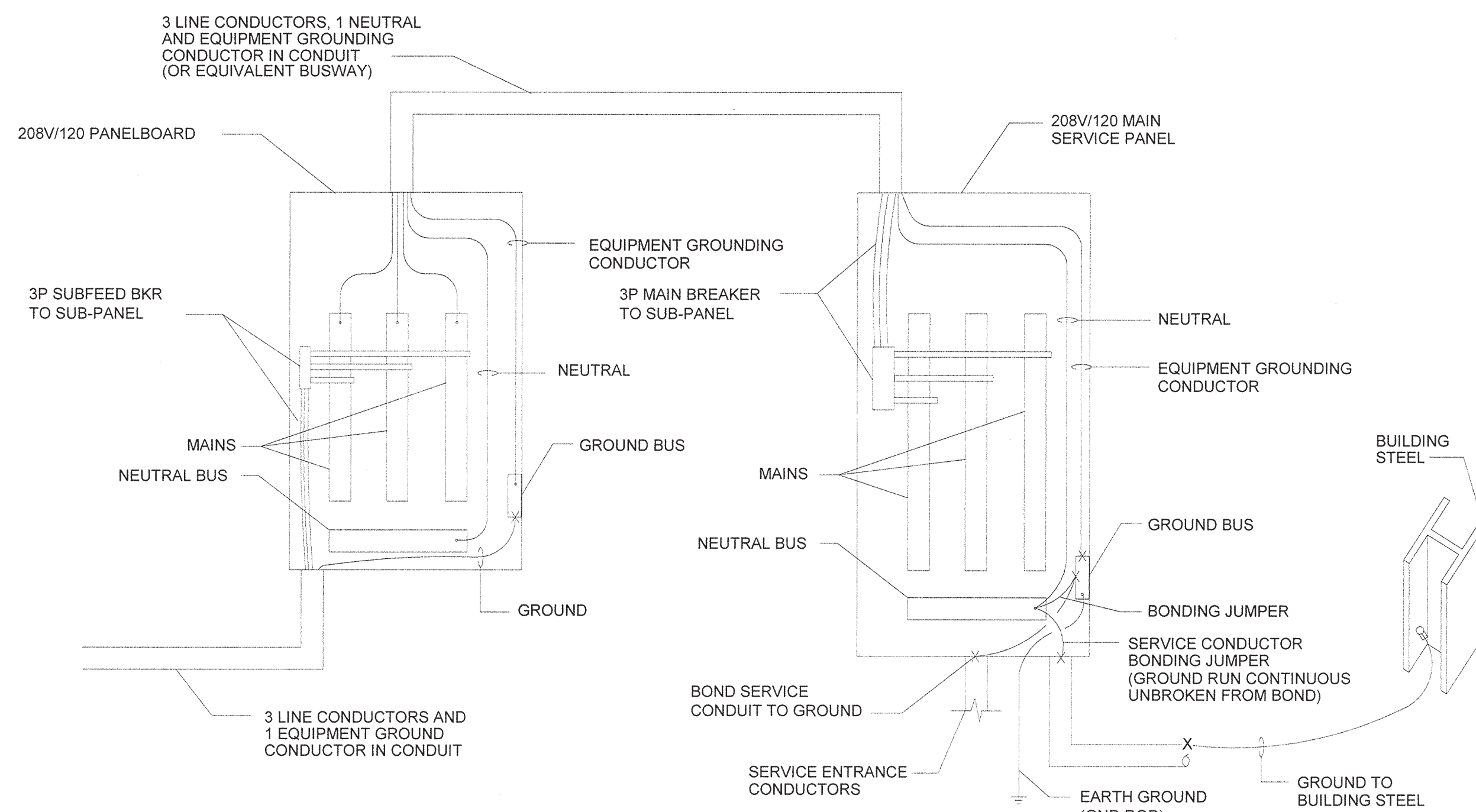
7 HAND HOLE DETAIL
Scale: NOT TO SCALE



5 POWER SUPPLY TO HVAC CONTROL PANELS-EQUIPMENT
Scale: NOT TO SCALE



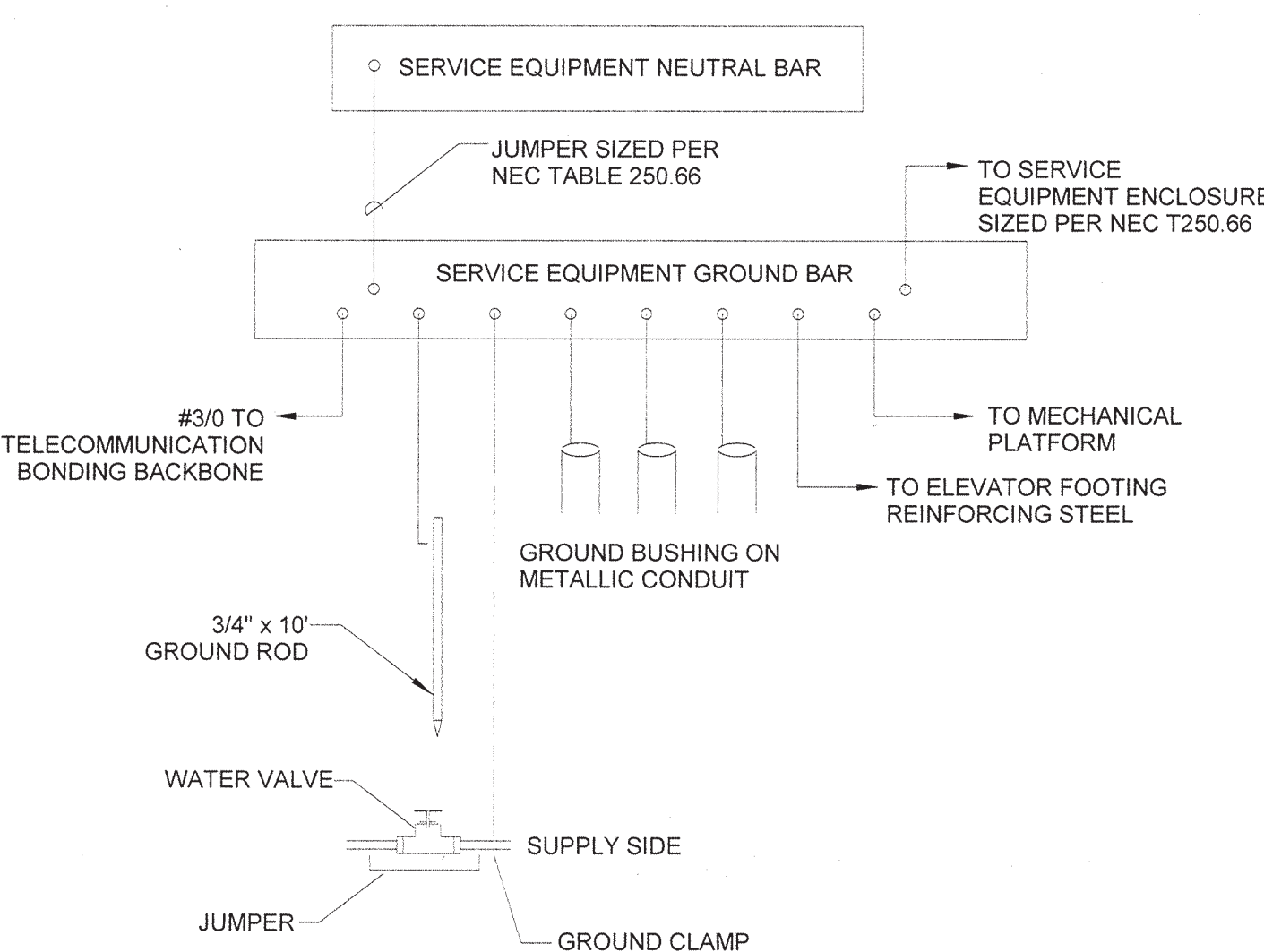
8 TYPICAL CONDUIT STUB-UP INSIDE BUILDING
Scale: NOT TO SCALE



NOTES:

1. ALL CONDUCTORS, NEUTRALS, GROUNDS AND CONDUITS AS SIZED ON RISER AND PANEL SCHEDULES.
2. SYSTEM GROUND CONDUCTOR SHALL BE CONTINUOUS (UNBROKEN) AND SHALL BE RUN DIRECTLY FROM CONNECTION.

9 TYPICAL BONDING AND GROUNDING DIAGRAM
Scale: NOT TO SCALE



10 SERVICE BONDING DETAIL
Scale: NOT TO SCALE



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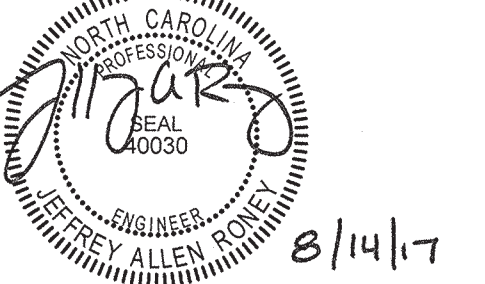
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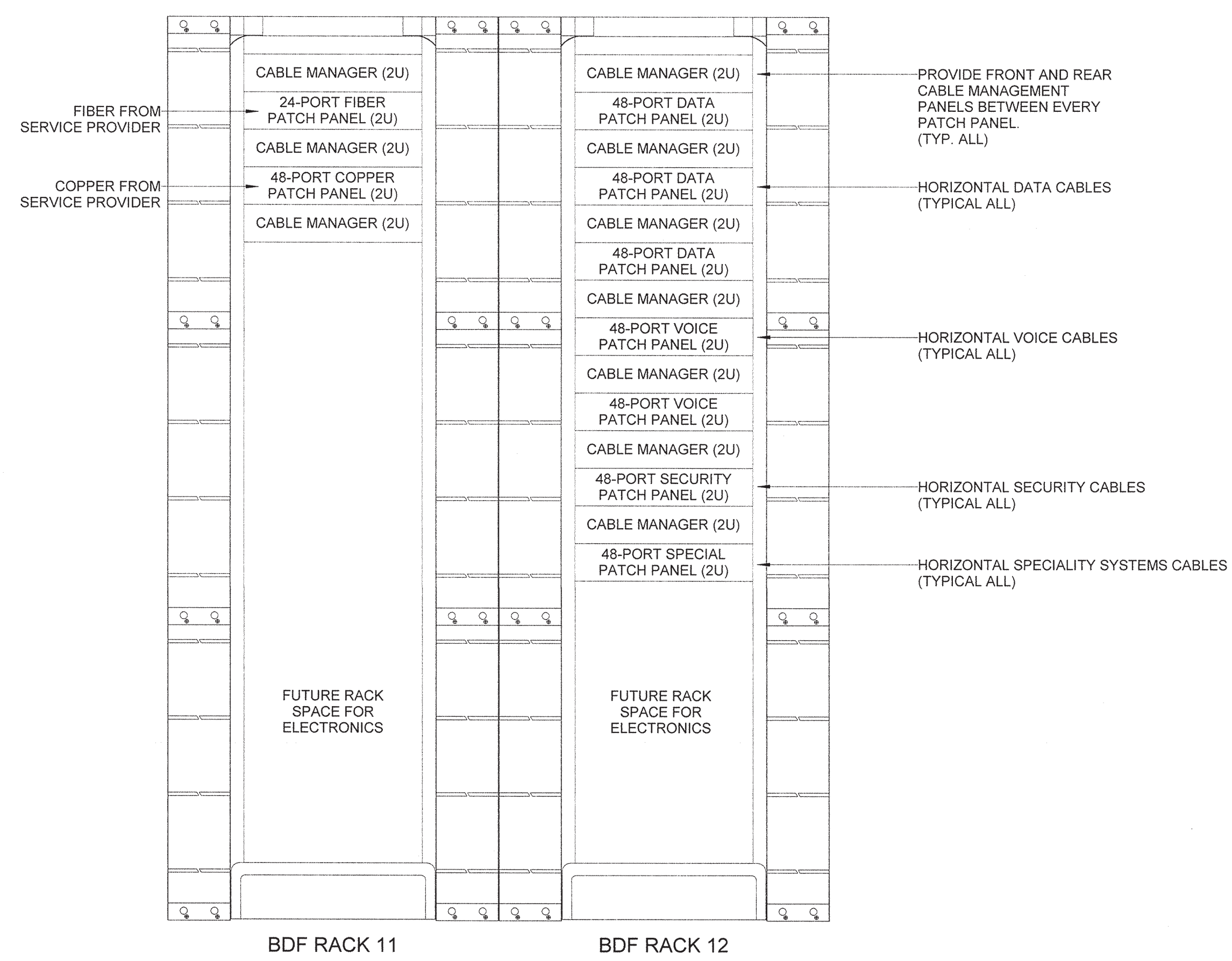
PHASE CONSTRUCTION DOCUMENTS

DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 50090277
SCO ID # -

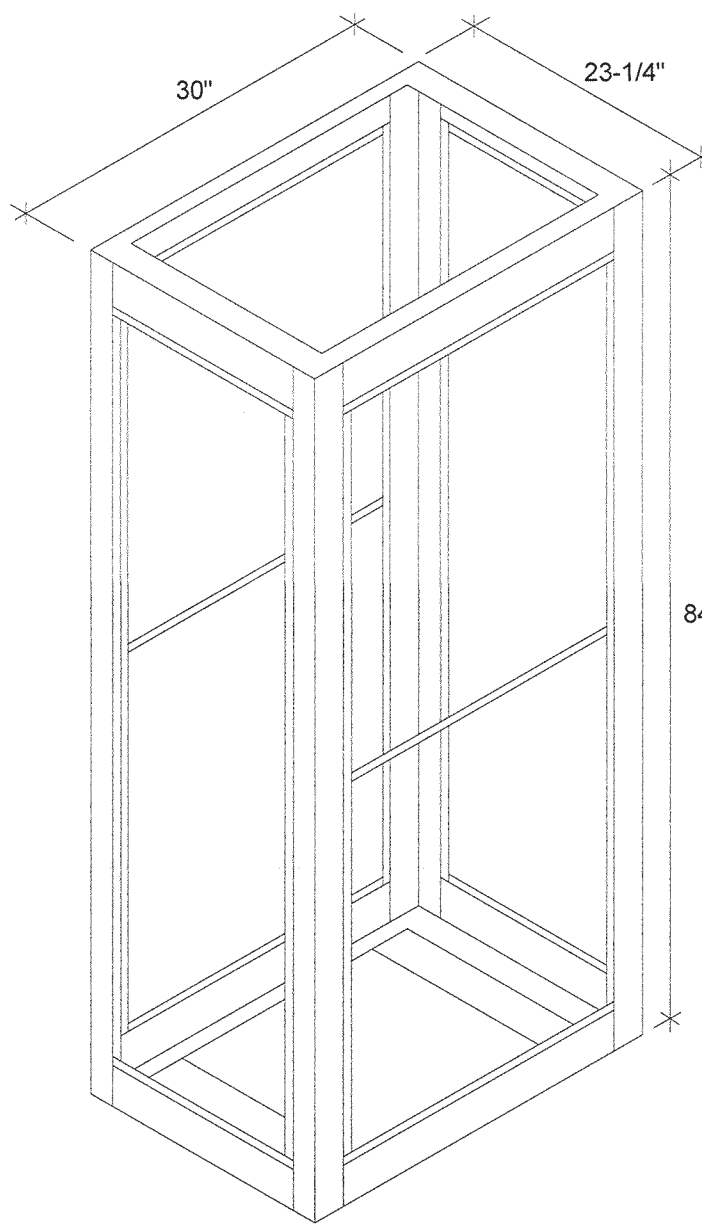
DRAWING TITLE
ELECTRICAL DETAILS

DRAWING NUMBER

E702



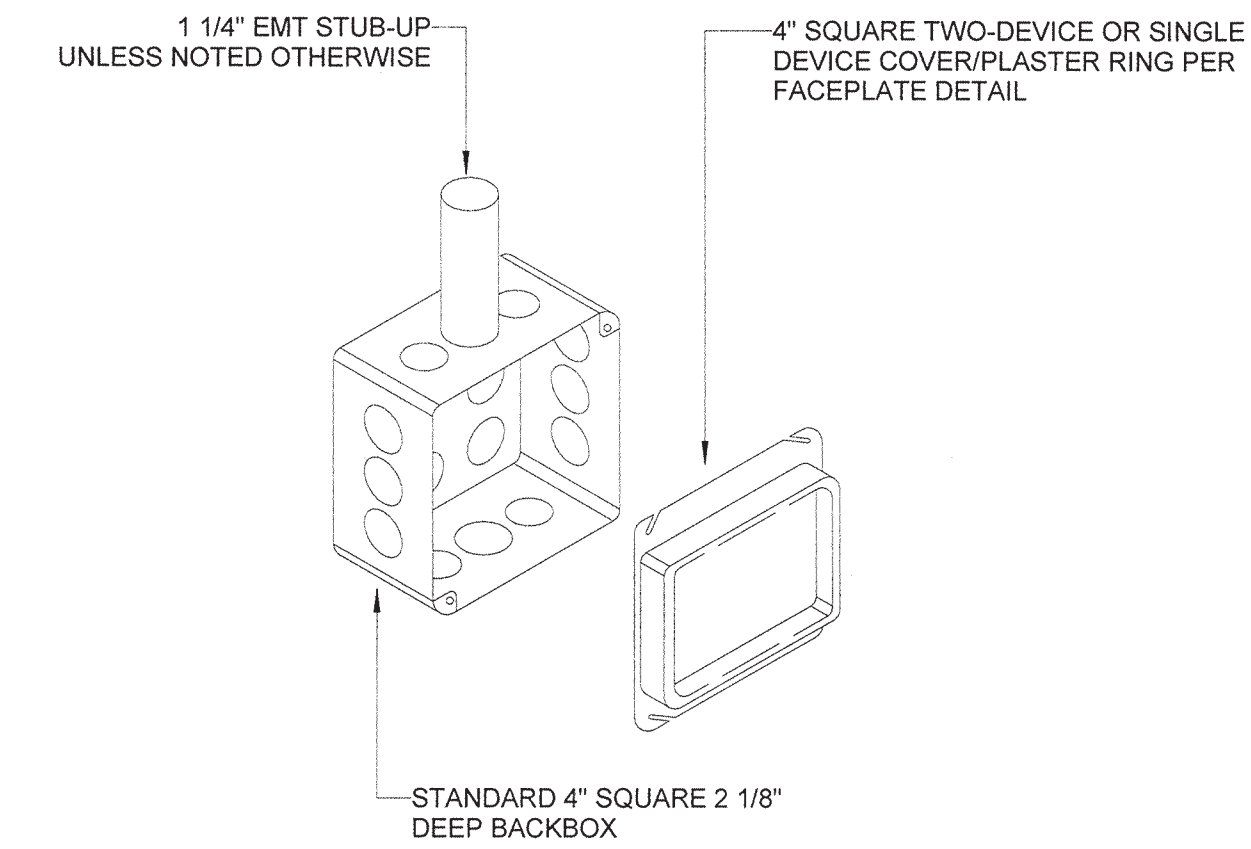
1 TELECOM EQUIPMENT RACK ELEVATIONS - IT ROOM 130
Scale: NOT TO SCALE



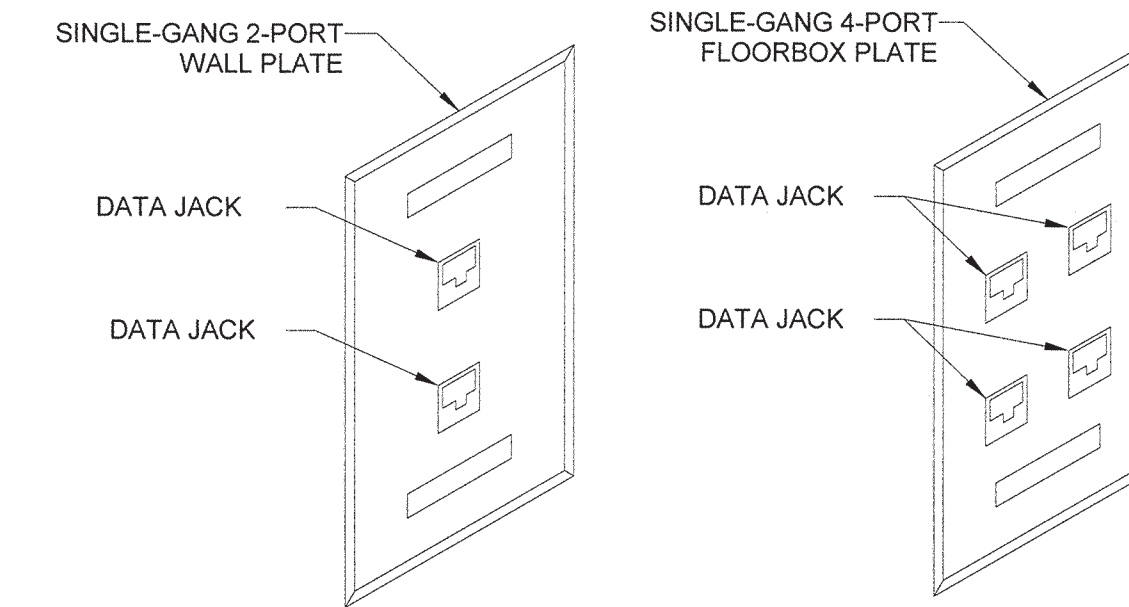
2 TELECOM 4-POST EQUIPMENT RACK DETAIL
Scale: NOT TO SCALE

MDF 4-POST EQUIPMENT RACK NOTES:

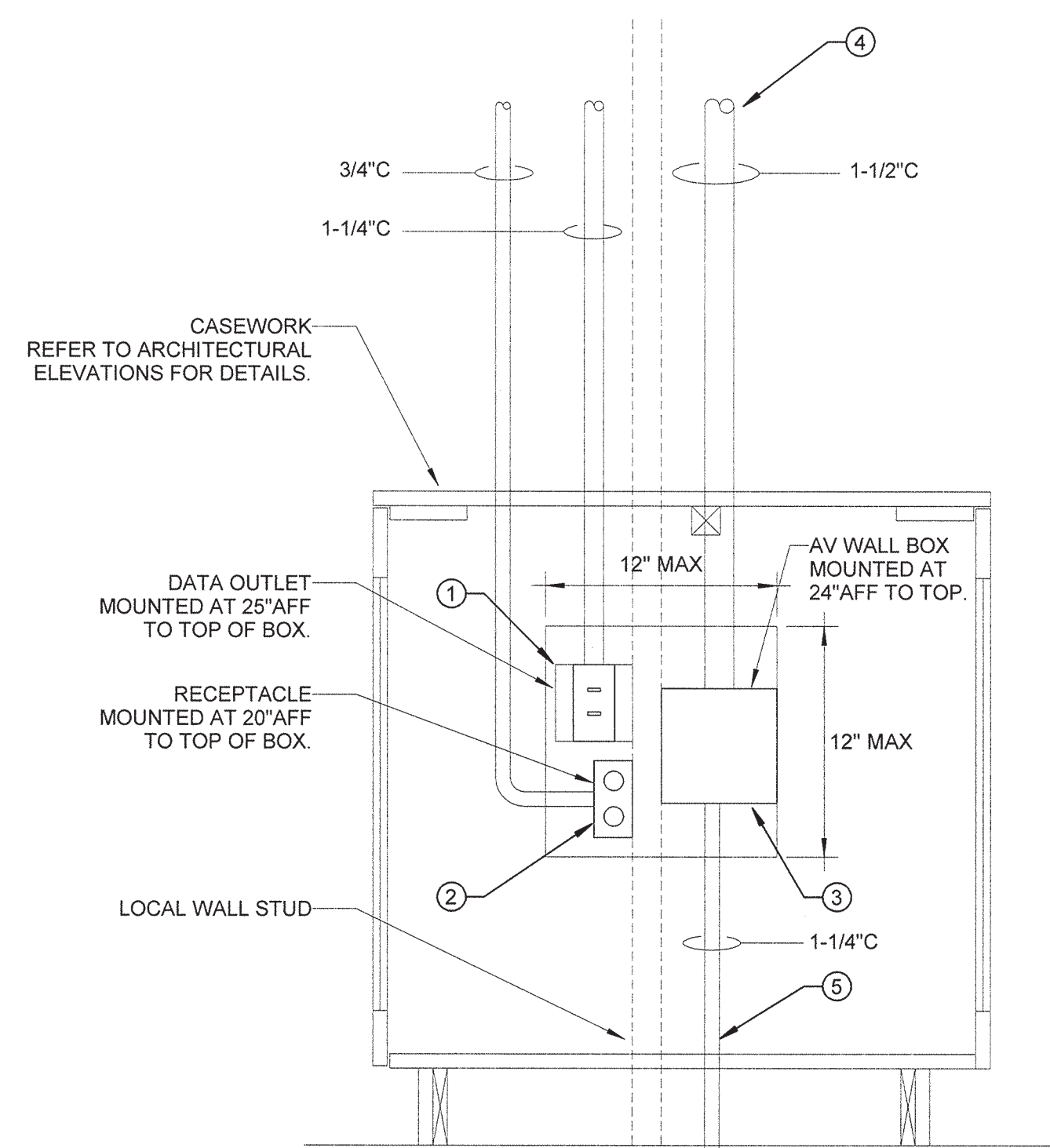
- EQUIPMENT RACK SHALL CONSIST OF A FOUR POST STRUCTURAL FRAME WITH FULLY ADJUSTABLE FRONT AND REAR EQUIPMENT MOUNTING RAILS.
- UNIT SHALL BE HIGH STRENGTH 6061-T6 ALUMINUM CONSTRUCTION. UNIT TO BE SELF-SUPPORTING AND RATED FOR 2000 LB LOAD CAPACITY.
- MOUNTING RAILS SHALL HAVE STANDARD EIA #12-24 ALTERNATING HOLE PATTERNS FOR 19" RACK MOUNTED EQUIPMENT.
- VERTICAL STRUCTURAL FRAME MEMBERS SHALL BE CAPABLE OF MOUNTING VERTICAL CABLE MANAGEMENT PANELS AND GANGING MULTIPLE 4-POST RACKS TOGETHER.
- PROVIDE BLACK POWDER COAT FINISH OVER SURFACE TO INHIBIT OXIDATION.
- BOLT BASE SECURELY TO FLOOR. PROVIDE MOUNTING BRACKET TO SECURE TOP OF RACK TO WALL.
- HORIZONTAL WIRE MANAGEMENT PANELS SHALL BE INSTALLED BETWEEN EVERY FIBER TRAY AND PATCH PANEL ON FRONT AND BACK OF FRONT MOUNTING RAILS. REFER TO SPECIFICATION SECTION 267500.
- VERTICAL WIRE MANAGEMENT PANELS SHALL BE INSTALLED THE FULL LENGTH ON BOTH FRONT AND REAR OF RACK. REFER TO SPECIFICATION SECTION 267500.
- OWNER ITS TO SUPPLY AND INSTALL ELECTRONIC EQUIPMENT.
- COORDINATE WITH OWNER ITS FOR FINAL LAYOUT OF RACK EQUIPMENT PRIOR TO BEGINNING WORK.



3 TELECOM OUTLET BOX DETAIL
Scale: NOT TO SCALE



4 TYPICAL TELECOM OUTLET FACEPLATE DETAILS
Scale: NOT TO SCALE

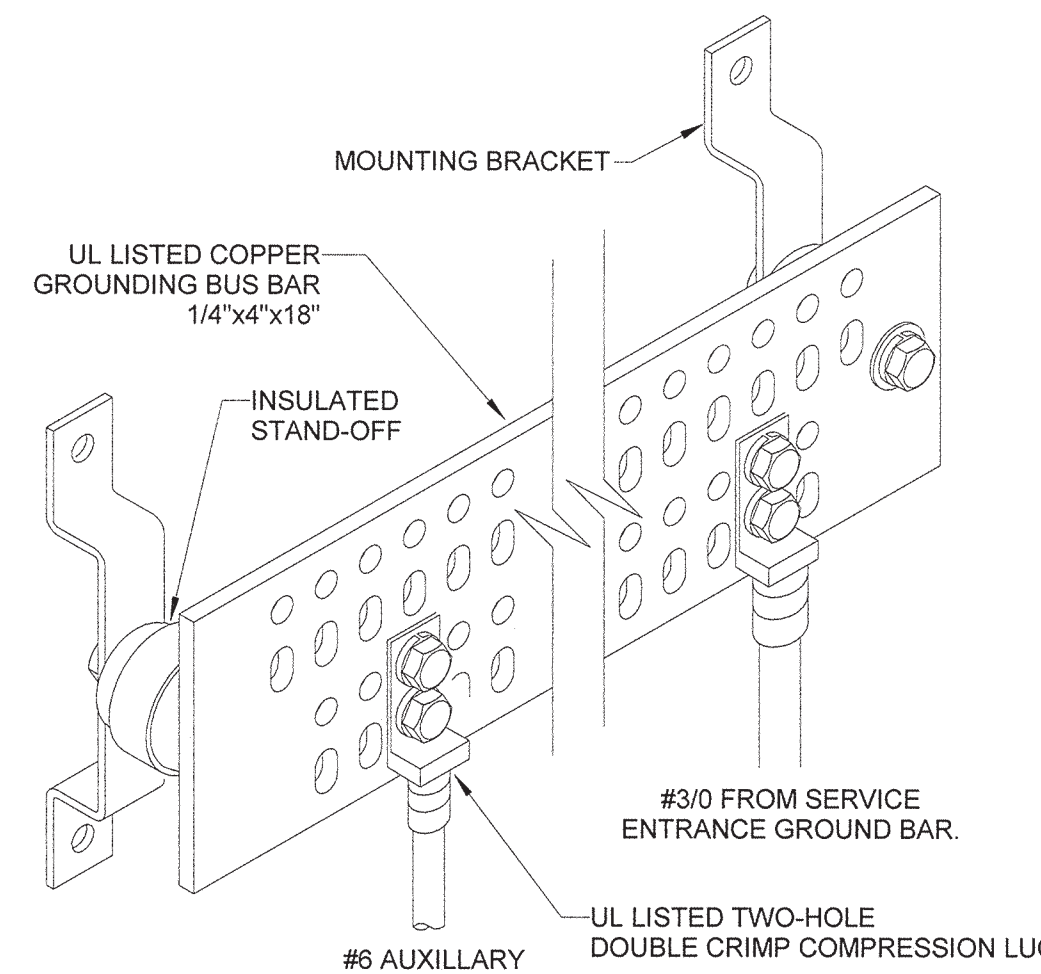


DEVICE MOUNTING NOTES:

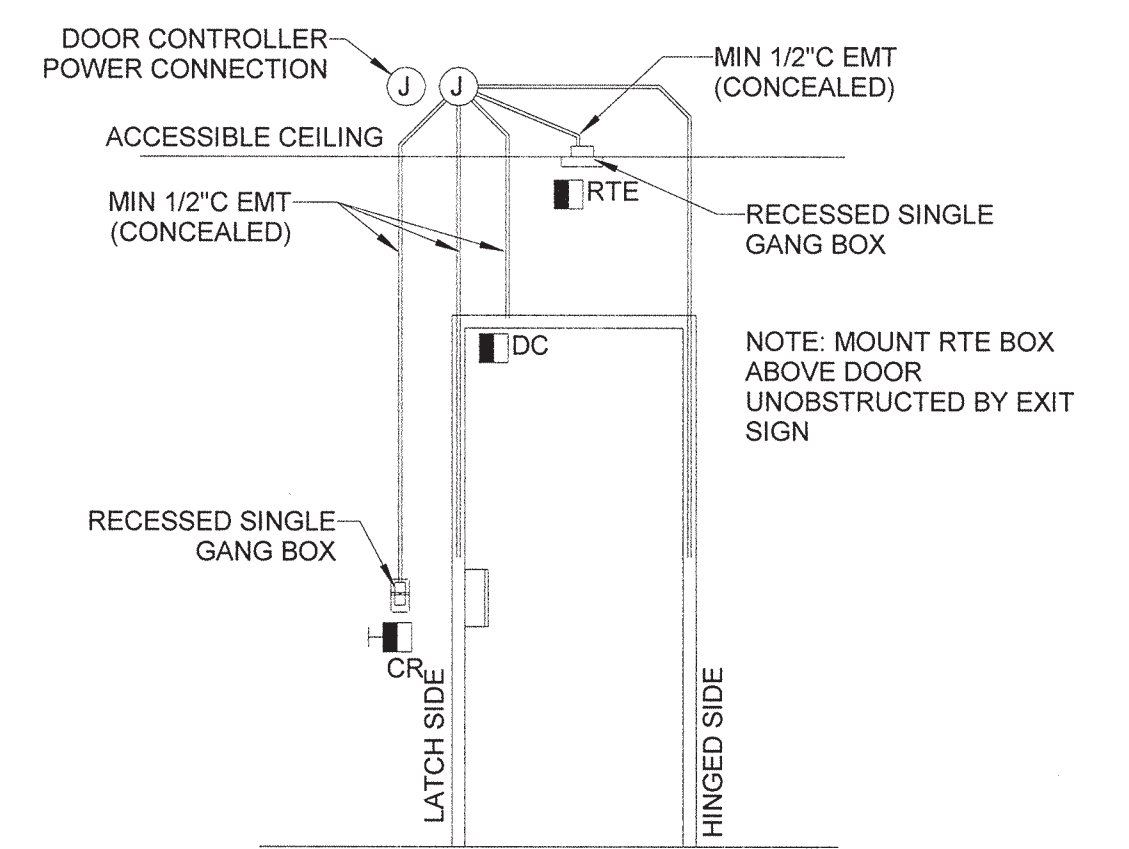
- LOCATION OF ELECTRICAL DEVICES IN CASEWORK SHALL BE COORDINATED WITH NEAREST WALL STUD. COORDINATE WITH ARCHITECTURAL DRAWINGS ON LOCATION AND DIMENSIONS.
- MOUNTING HEIGHTS AND LOCATIONS OF DEVICES SHALL BE COORDINATED WITH ENGINEER PRIOR TO ROUGH-IN OF DEVICES.
- ALL VERTICAL WALL CONDUITS IN WALLS SHOWN IN ELEVATION SHALL BE ROUTED TO ABOVE THE LAY-IN CEILING IN THE SPACE. CONDUIT SHALL BE TURNED 12" INTO THE CEILING CAVITY WITH A MINIMUM OF 6" ABOVE THE CEILING. TERMINATE THE END OF CONDUIT WITH AN INSULATED THROAT BUSHING.

DETAIL KEY NOTES:

- TELECOM OUTLET LOCATED IN BACK WALL OF CASEWORK. REFER TO POWER FLOOR PLANS FOR LOCATIONS. PROVIDE OUTLET WITH (2) DATA CABLES FROM TELECOM RACK.
- RECEPTACLE LOCATED IN BACK WALL OF CASEWORK. REFER TO POWER FLOOR PLANS FOR LOCATIONS. PROVIDE CIRCUIT AS INDICATED ON DRAWINGS.
- PROVIDE 6" X 6" X 3" DEEP WALL BOX WITH A FLUSH-MOUNTED FINISHED STAINLESS COVER PLATE.
- CAP CONDUIT ABOVE CEILING FOR FUTURE USE BY AV SYSTEM PROVIDER.
- ROUTE CONDUIT FROM AV WALL BOX TO ROOM FLOORBOX WHERE NOTED.



5 TELECOM GROUNDING BUSBAR DETAIL
Scale: NOT TO SCALE

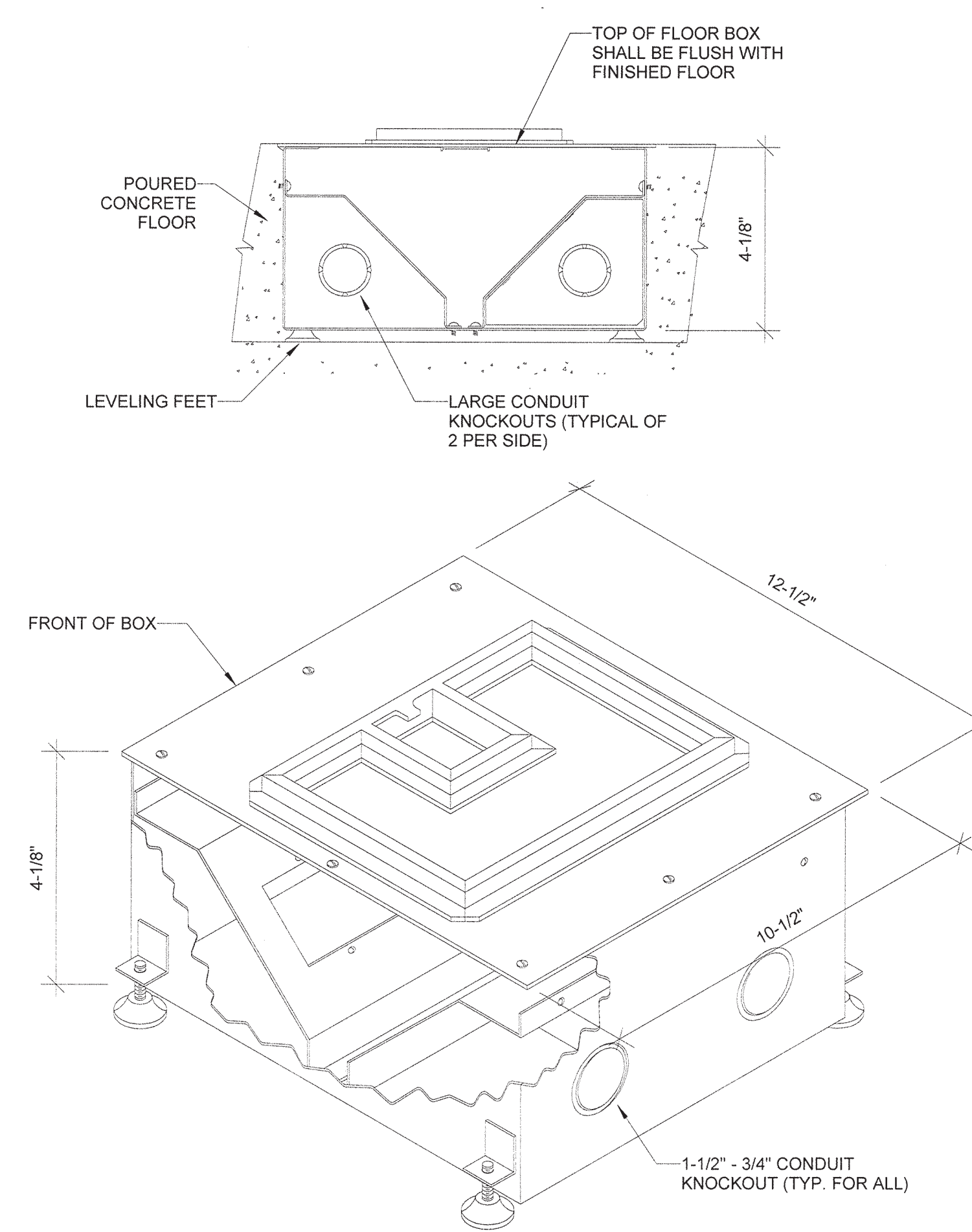
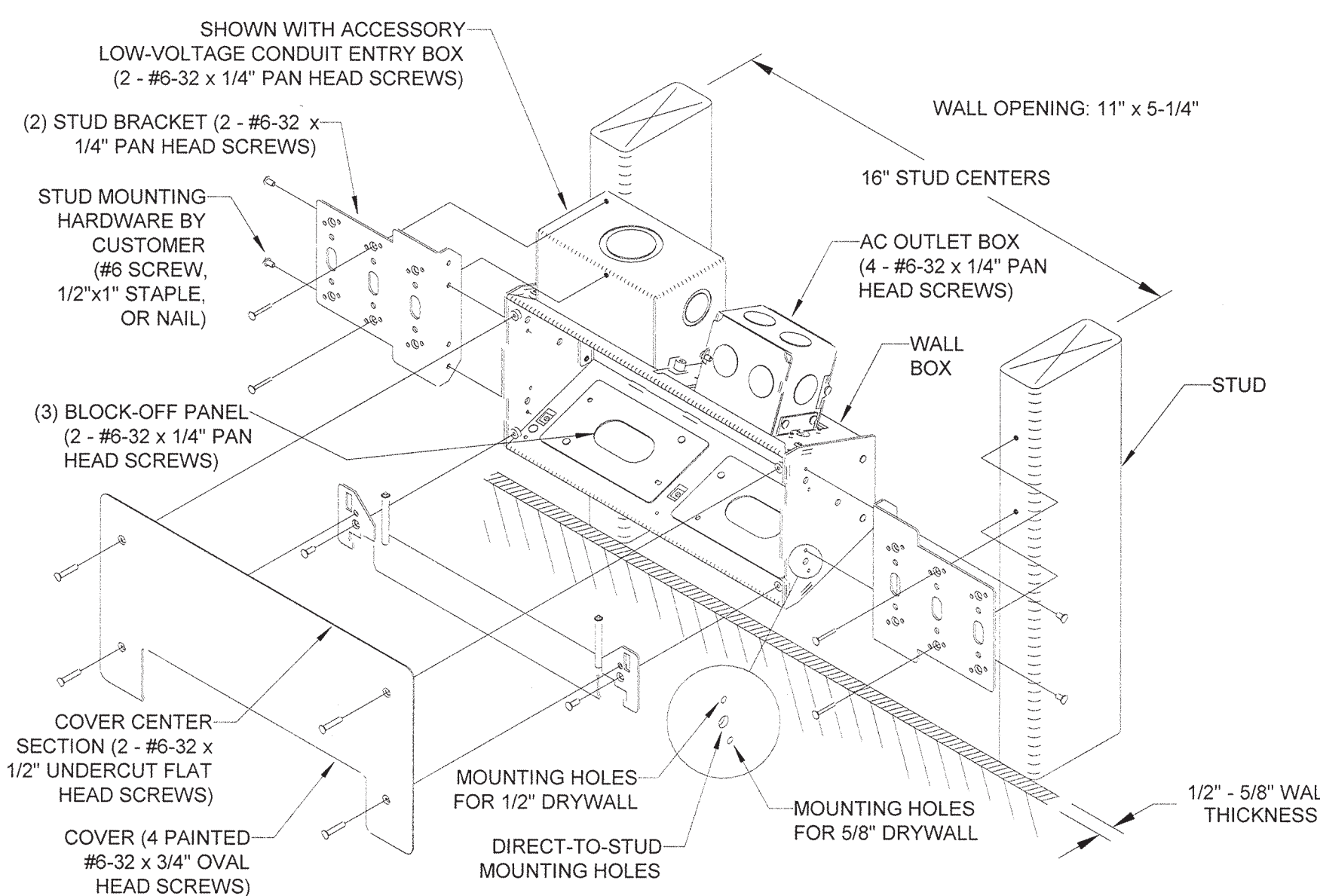
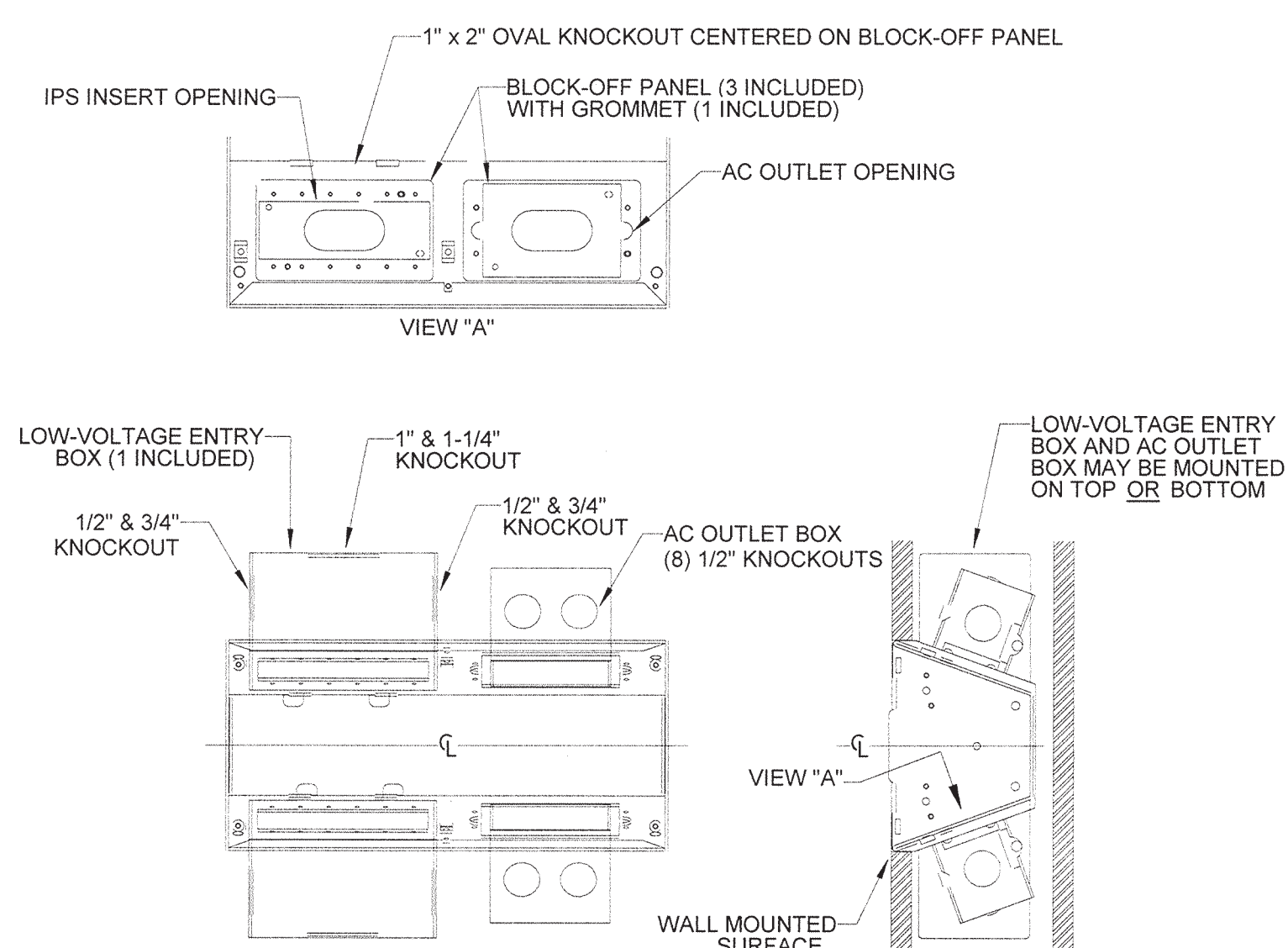


6 TYPICAL CARD ACCESS DOOR ROUGH-IN DETAIL
Scale: NOT TO SCALE

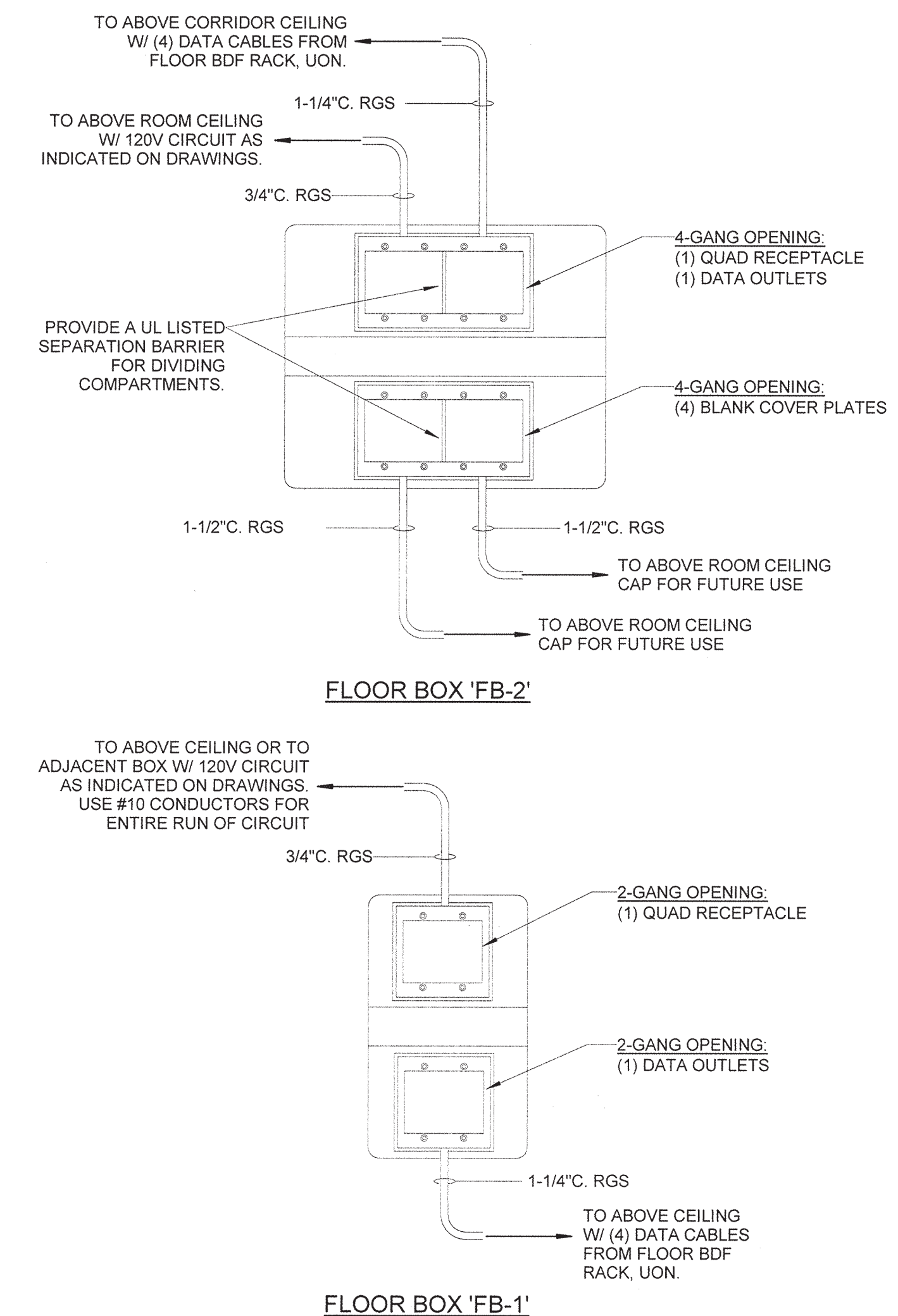
7 AUDIOVISUAL WALL BOX DETAIL
Scale: NOT TO SCALE

FLAT DISPLAY WALL BOX NOTES:

- COORDINATE FINAL MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- DEVICE SHALL BE MOUNTED CENTERED BEHIND FLAT PANEL MONITOR.
- BASIS OF DESIGN: FSR "PWR-100"



8 STANDARD FLOOR BOX DETAILS
Scale: NOT TO SCALE



9 FLAT PANEL DISPLAY WALL BOX
Scale: NOT TO SCALE



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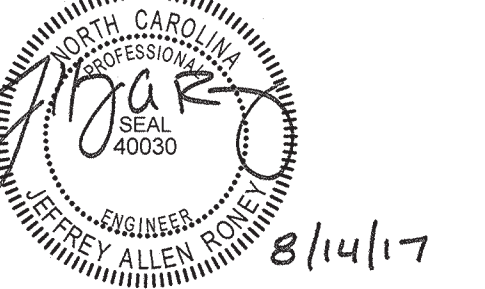
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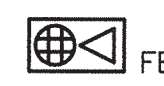






DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 50090277
SCO ID # -

DRAWING TITLE
ELECTRICAL DETAILS

DRAWING NUMBER

E703

AUDIOVISUAL LEGEND:

FLOOR MOUNTED	WALL MOUNTED	CEILING MOUNTED	ITEM DESCRIPTION
		PR-X' 	PROJECTOR WITH SUPPORT PLATE AND FIXED COLUMN 'X' - INDICATES PROJECTOR TYPE. REFER TO AUDIOVISUAL PROJECTION SCHEDULE, SHEET TA601.
	FPD-X' 		WALL MOUNTED FLAT PANEL DISPLAY PROVIDED BY AUDIO/VISUAL CONTRACTOR. 'X' - INDICATES FLAT PANEL DISPLAY TYPE. REFER TO AUDIOVISUAL DISPLAY SCHEDULE, SHEET TA601.
			RECESSED FLOOR BOX PROVIDED BY GENERAL CONTRACTOR. REFER TO AUDIOVISUAL FLOOR BOX SCHEDULE, SHEET TA601.
			PROJECTOR SCREEN
			CONTROL PANEL / CABLE CUBBY
			PROGRAM SPEAKER RECESSED IN CEILING. REFER TO SPECIFICATION SECTION 267413, AUDIOVISUAL SYSTEM.
			EQUIPMENT CONNECTION
			SWITCH FOR MOTORIZED PROJECTOR SCREEN
			CABLE TAG REFER TO AUDIOVISUAL CABLE SCHEDULE, SHEET TA601.

AUDIOVISUAL ABBREVIATIONS:

A	AMPS	GC	GENERAL CONTRACTOR
ACT	ACOUSTICAL CEILING TILE	GND	GROUND
ADA	AMERICAN DISABILITIES ACT	ITS	INFORMATION TECHNOLOGY SERVICES
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
AV	AUDIOVISUAL	NHC	NEW HANOVER COUNTY
C	CONDUIT	RECP	RECEPTACLE
CB	CIRCUIT BREAKER	RX	RECEIVER
CKT	CIRCUIT	S AMP	SIGNAL AMPLIFIER
EC	ELECTRICAL CONTRACTOR	SL	SHARELINK
EX	EXISTING	TX	TRANSMITTER
FPD	FLAT PANEL DISPLAY	UON	UNLESS OTHERWISE NOTED
G	GROUND CONDUCTOR		

AUDIOVISUAL NOTES:

- GENERAL:**
- THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.
 - DO NOT COVER UP CONSTRUCTION UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER AND THE ELECTRICAL INSPECTOR.
 - PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - COORDINATE THE AUDIOVISUAL WORK WITH ALL OTHER CONTRACTORS BEFORE BEGINNING WORK TO ENSURE THAT THE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER WORK. LINES WHICH REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK. COORDINATE THIS WITH THE PLUMBING, HVAC AND GENERAL CONTRACTORS.
 - NOTIFY THE ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCY OR POINTS OF CONFLICT IN THE DRAWINGS OR THE SPECIFICATIONS. THE ENGINEER WILL CLARIFY SUCH DISCREPANCY OR POINTS OF CONFLICT IN WRITING PRIOR TO THE PROGRESS OF THE WORK BEYOND THE POINT CONCERNED.
 - BEFORE INSTALLING EQUIPMENT, MAKE FIELD MEASUREMENTS TO ENSURE THAT ALL ITEMS OF EQUIPMENT FURNISHED WILL FIT INTO THE SPACE AS SHOWN ON THE DRAWINGS. WHERE EQUIPMENT WILL NOT FIT AS SHOWN ON THE DRAWINGS, PROVIDE A DRAWING TO THE ENGINEER FOR APPROVAL WITH A PROPOSED REVISED ARRANGEMENT BEFORE INSTALLING THE EQUIPMENT.
 - COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, CASEWORK SHOP DRAWINGS, AND EXISTING CONDITIONS PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT IN THE EVENT OF A CONFLICT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0", SHALL BE MADE IN ANY DIRECTION AT NO ADDITIONAL COST TO THE OWNER.
 - ALL WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, SWITCHES, TELECOM OUTLETS, AND FIRE ALARM DEVICES, SHALL BE RECESSED WITHIN WALLS, FURRING, OR CASEWORK, UNLESS OTHERWISE NOTED. USE OF EXPOSED SURFACE MOUNTED CONDUIT OR RACEWAY IS PROHIBITED EXCEPT IN ELECTRICAL AND MECHANICAL SPACES AND LOCATIONS NOTED ON THE DRAWINGS.
 - COORDINATE LOCATIONS OF ALL RATED WALL ASSEMBLIES WITH THE ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.
- AUDIOVISUAL:**
- CABLES SHALL BE SUPPORTED WITH J-HOOKS AND D-RINGS. PROVIDE J-HOOKS AT INTERVALS NOT EXCEEDING 5 FEET. PROVIDE J-HOOKS WITHIN 6" FROM CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS. CABLES SHALL NOT BE SUPPORTED DIRECTLY FROM STRUCTURE. ALL WALL PENETRATIONS SHALL BE METAL SLEEVES AND SIZED AS INDICATED ON THE DRAWINGS. SEAL ALL FIRE RATED ASSEMBLY PENETRATIONS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ASSEMBLIES.
 - CABLING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.
 - ETHERNET CABLING SHALL NOT EXCEED 295 FEET IN LENGTH AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.
 - REFER TO ALL RISER DIAGRAMS FOR ADDITIONAL CONDUIT AND CABLE REQUIREMENTS. FURNISH AND INSTALL ALL CABLE AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.
 - ALL CABLE KNOCKOUTS AND CABLE PASS THROUGH ARE TO BE EQUIPPED WITH GROMMETS FOR PROTECTION OF CABLE. TYPICAL OF METAL CABINETS, EQUIPMENT RACKS, PRESENTATION CONSOLES, AND COUNTER TOPS.
 - ALL CABLE SHALL BE CONTINUOUS FROM HEAD END ELECTRONICS TO FIELD DEVICE.
 - STORE EQUIPMENT IN A CLEAN, DRY PLACE UNTIL READY FOR INSTALLATION. PROTECT FROM WEATHER, THEFT, DIRT, FUMES, WATER, CONSTRUCTION DEBRIS, ETC., AT ALL TIMES. DAMAGED EQUIPMENT WILL BE RESTORED TO LIKE NEW CONDITION OR REPLACED BY THE CONTRACTOR.
 - CLEAN ALL EQUIPMENT TO PRESENT A "NEW" CONDITION AT PROJECT COMPLETION. VACUUM CLEAN INTERNAL AREAS OF EQUIPMENT RACKS AND ENCLOSURES
 - ALL CABLE FASTENING AND BUNDLING SHALL USE VELCRO FASTENERS TO PREVENT DAMAGES TO CABLE. CABLE TIES SHALL NOT BE ACCEPTED.
 - ALL CABLING SHALL BE PLENUM RATED, UON.



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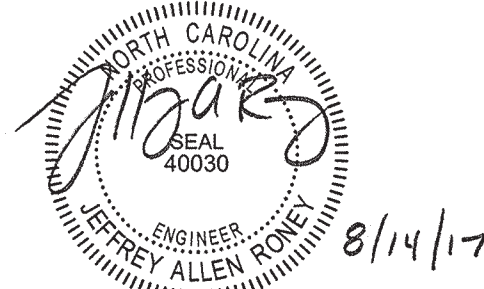
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 SCO ID #

DRAWING TITLE
AUDIOVISUAL NOTES, LEGEND, & ABBREVIATIONS

DRAWING NUMBER
TA001

AUDIOVISUAL SYSTEMS SCHEDULE					
ROOM NUMBER	ROOM DESCRIPTION	SYSTEM DESCRIPTION	DRAWING NUMBER	A/V RACK TYPE	NOTES
101	VESTIBULE	MESSAGE	TA501	N/A	SN-1
104B	PROGRAM LOBBY	MESSAGE	TA501	N/A	SN-1
104A	CAFE	MESSAGE	TA501	N/A	SN-1
112	9TH SPACE	COLLABORATION	TA502	RACK 4	SN-3
113	LARGE PROGRAM B	DIVISIBLE PROJECTION	TA503	RACK 4	SN-3
114	LARGE PROGRAM A	DIVISIBLE PROJECTION	TA503	RACK 4	SN-3
118	CHILDREN'S	TOUCH SCREEN	TA504	N/A	SN-2
119	CHILDREN'S PROGRAM	PROJECTION	TA505	RACK 3	SN-4
122	MEETING	CONFERENCE	TA506	RACK 1	SN-4
123	STUDY	N/A	TA507	N/A	SN-2
124	STUDY	STUDY	TA507	N/A	SN-2
125	STUDY	STUDY	TA507	N/A	SN-2
127	TEEN	TEEN COLLABORATION	TA508	RACK 2	SN-5
126	MAKER/PROGRAM	MAKER COLLABORATION	TA509	RACK 5	SN-5
GENERAL NOTES:					
GN-1	REFER TO SPECIFICATION 267413, PARAGRAPH 1.9 FOR AUDIOVISUAL SYSTEM DESCRIPTIONS.				
SCHEDULE NOTES:					
SN-1	ALL EQUIPMENT AND SYSTEM CONNECTIONS SHALL BE MADE IN WALL BOX.				
SN-2	PROVIDE EQUIPMENT ON WALL AS SHOWN IN ROOM ELEVATIONS. SYSTEM CONNECTIONS SHALL BE MADE IN WALL BOX.				
SN-3	EQUIPMENT FOR THIS SPACE SHALL BE LOCATED IN COMMON RACK IN A/V RACK ROOM 114A. REFER TO RACK ELEVATIONS AND PLANS.				
SN-4	EQUIPMENT FOR THIS SPACE SHALL BE LOCATED IN DEDICATED RACK LOCATED IN CASEWORK. REFER TO RACK ELEVATIONS AND PLANS.				
SN-5	EQUIPMENT FOR THIS SPACE SHALL LOCATED IN COMMON RACK IN THE CASEWORK OF TEEN ROOM 127. REFER TO RACK ELEVATIONS AND PLANS.				

DRAWING LIST - AUDIOVISUAL	
DRAWING NUMBER	DESCRIPTION
TA001	AUDIOVISUAL NOTES, LEGEND, & ABBREVIATIONS
TA101	FIRST FLOOR PLAN - AUDIOVISUAL
TA111	FIRST FLOOR REFLECTED CEILING PLAN - AUDIOVISUAL
TA201	ROOM ELEVATIONS
TA202	EQUIPMENT ELEVATIONS
TA401	ROOM ENLARGED PLANS
TA501	MESSAGE BLOCK DIAGRAM
TA502	COLLABORATION BLOCK DIAGRAM
TA503	DIVISIBLE PROJECTION BLOCK DIAGRAM
TA504	TOUCH SCREEN BLOCK DIAGRAM
TA505	PROJECTION BLOCK DIAGRAM
TA506	CONFERENCE BLOCK DIAGRAM
TA507	STUDY BLOCK DIAGRAM
TA508	TEEN COLLABORATION BLOCK DIAGRAM
TA509	MAKER COLLABORATION BLOCK DIAGRAM
TA601	AUDIOVISUAL SCHEDULES
TA701	AUDIOVISUAL DETAILS
TA702	AUDIOVISUAL DETAILS

GENERAL NOTES:

1. COORDINATE ALL WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

KEY NOTES:

1. INSTALL PROJECTION CONTROL SWITCH, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
2. INSTALL TOUCH SCREEN CONTROLLER, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
3. INSTALL WALL MOUNTED INPUT SOURCE, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.



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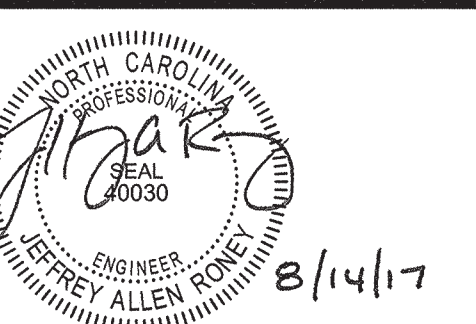
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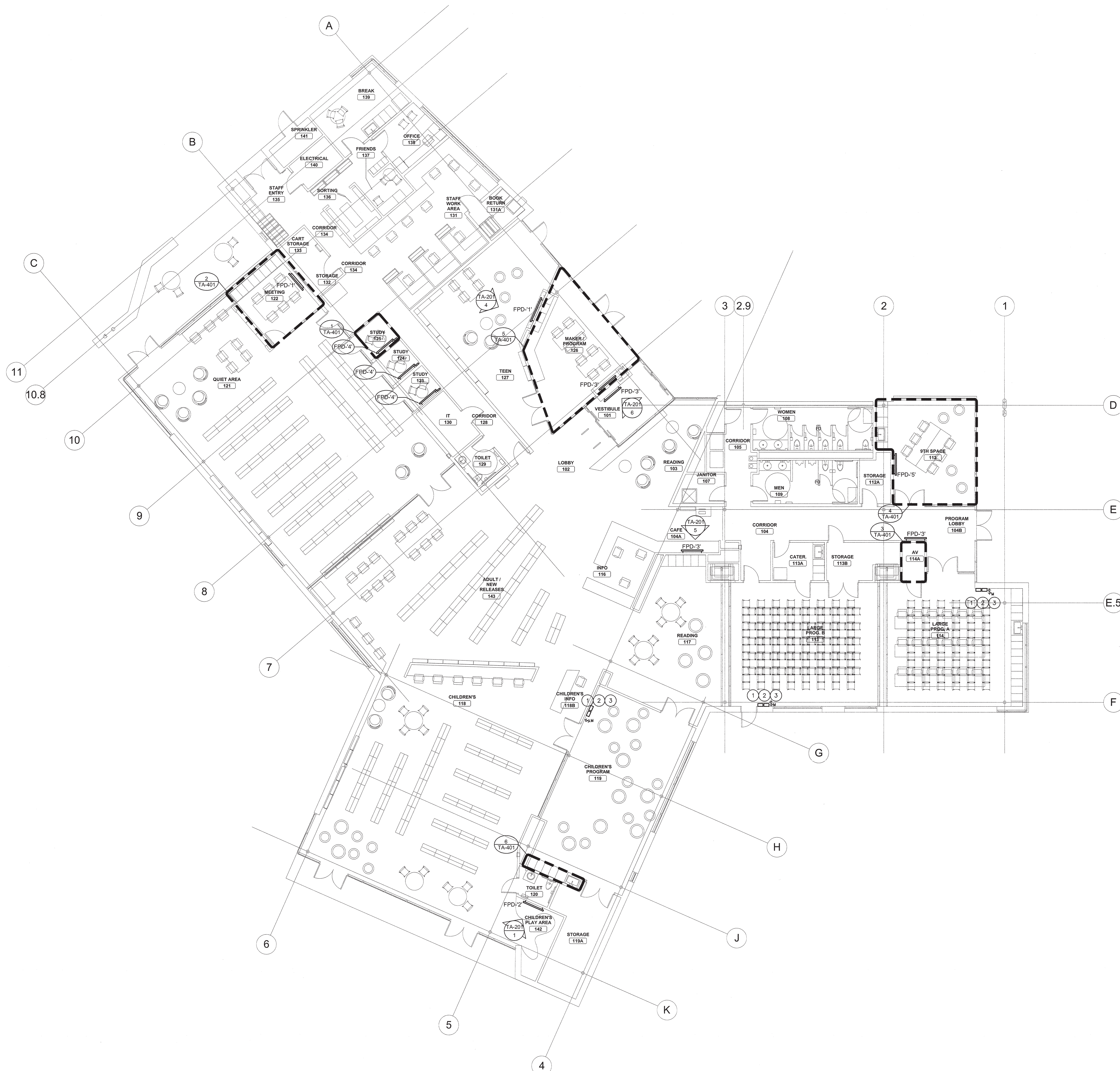
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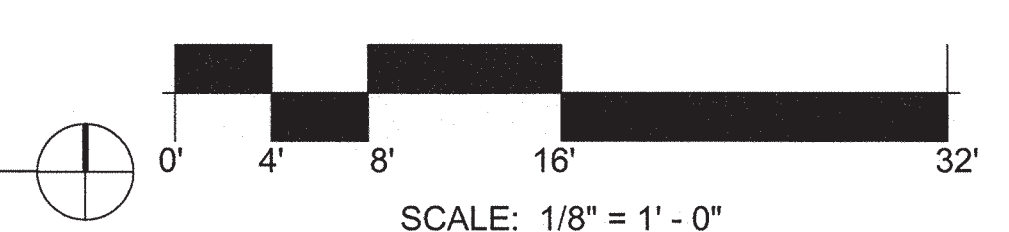
DRAWING TITLE
FIRST FLOOR PLAN - AUDIOVISUAL

DRAWING NUMBER

TA101



1 FIRST FLOOR PLAN - TECHNOLOGY
 Scale: 1/8" = 1'-0"



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

GENERAL NOTES:

1. REFER TO DIVISIBLE PROJECTION BLOCK DIAGRAM FOR CONNECTION OF EQUIPMENT AND CABLING INFORMATION, SHEET TA-503.
2. REFER TO AUDIOVISUAL PROJECTION SCHEDULE, SHEET TA-601.
3. COORDINATE ALL WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.

KEY NOTES:

- 1 RECESSED PROJECTION SCREEN PROVIDED BY GENERAL CONTRACTOR. COORDINATE LOCATION OF SCREEN WITH OTHER TRADES PRIOR TO INSTALLATION.
- 2 VIDEO PROJECTOR WITH FIXED SUPPORT COLUMN AND LOCKABLE PROJECTOR MOUNT PROVIDED BY GENERAL CONTRACTOR. REFER TO PROJECTOR FIXED MOUNTING DETAIL.
- 3 CEILING MOUNTED PROJECTOR. MOUNTED PLATE PROVIDED BY AUDIOVISUAL CONTRACTOR. REFER TO PROJECTOR FIXED MOUNTING DETAIL.
- 4 PROVIDE CONTROL CABLING FROM AUDIOVISUAL SYSTEM TO MOTOR CONTROLLED PROJECTION SCREEN. REFER TO BLOCK DIAGRAMS.



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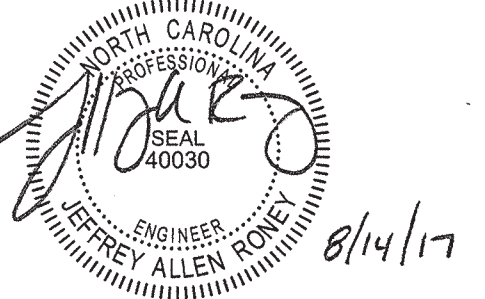
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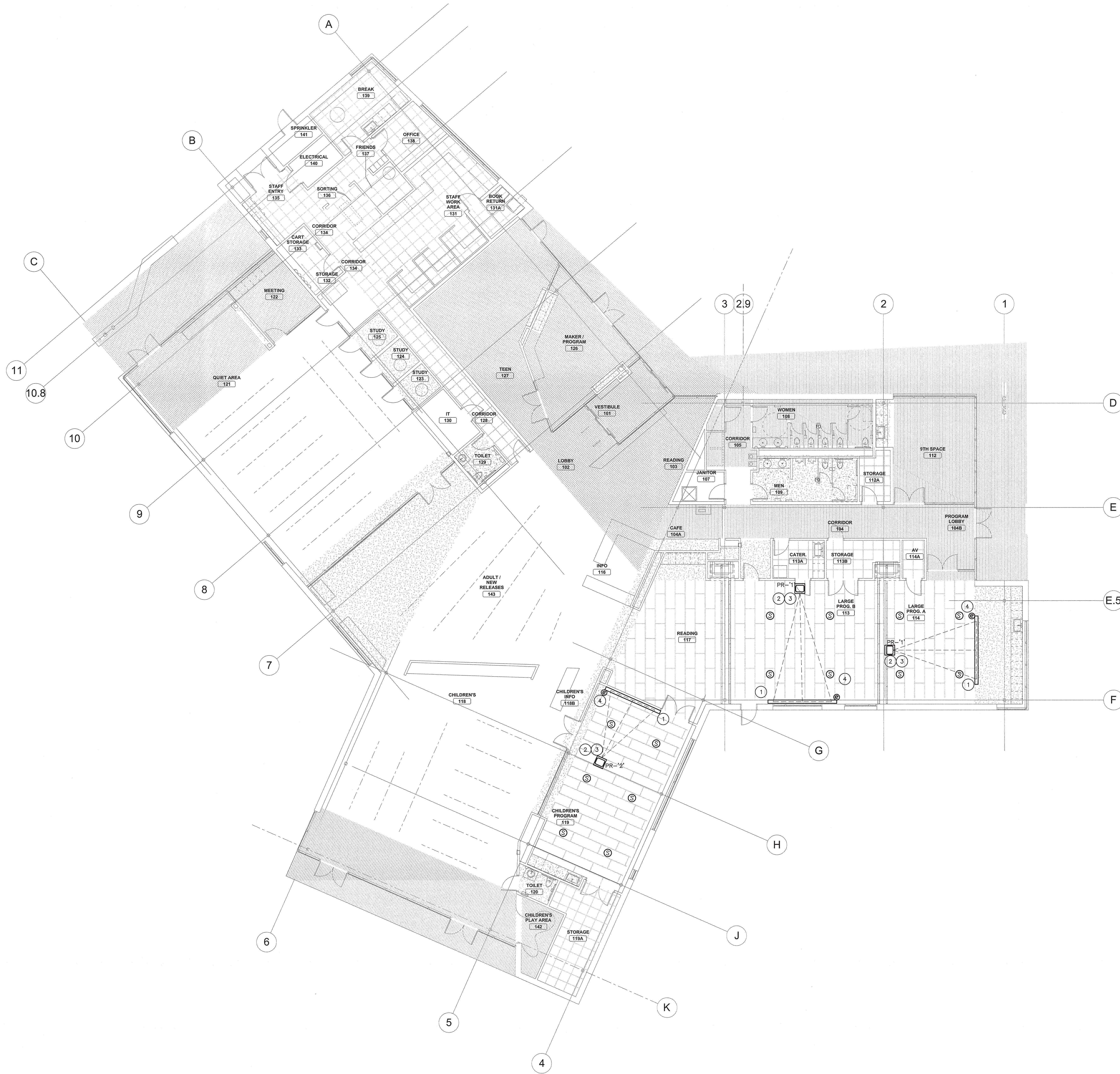
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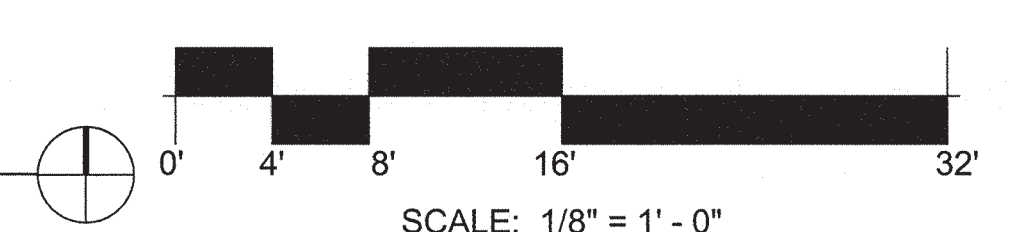
FIRST FLOOR RCP - AUDIOVISUAL

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TA111



1 FIRST FLOOR PLAN - TECHNOLOGY
 Scale: 1/8" = 1'-0"





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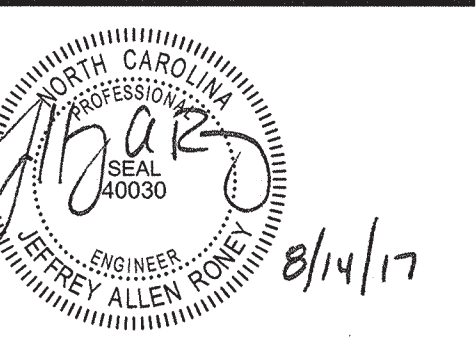
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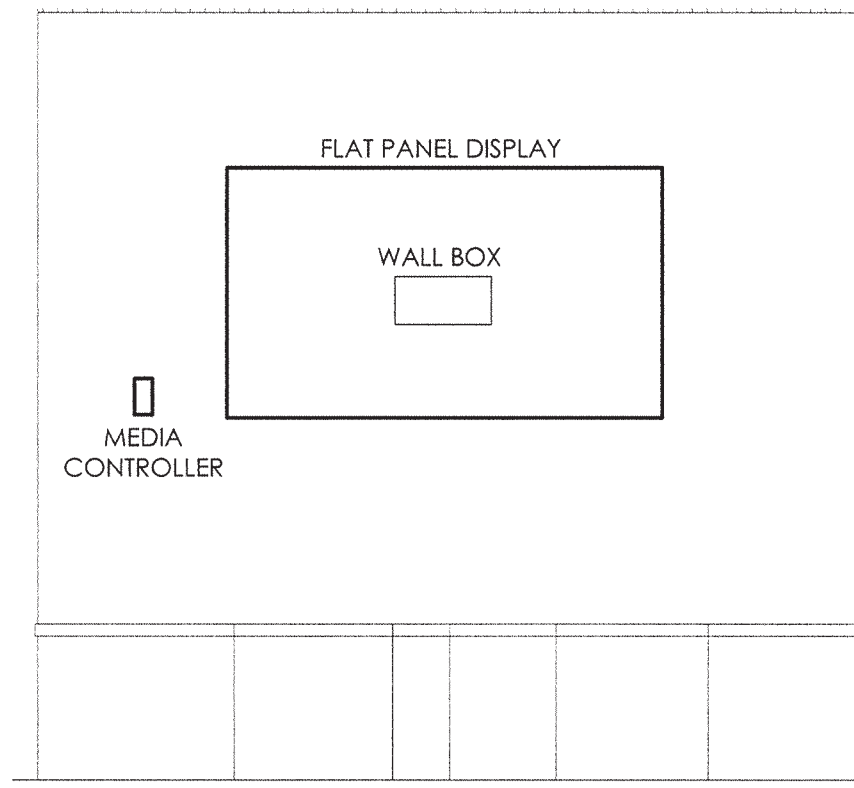
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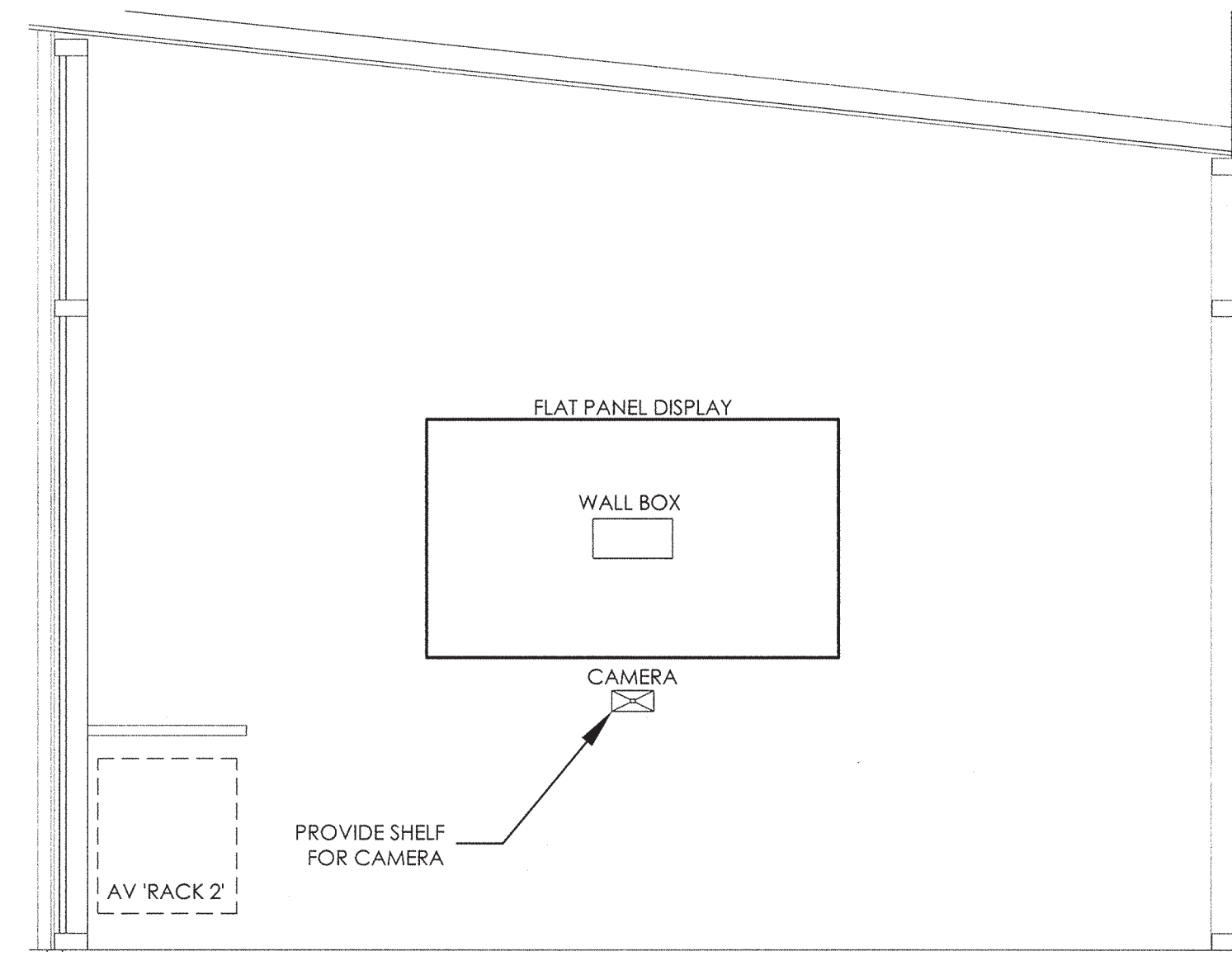
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ROOM ELEVATIONS

DRAWING NUMBER

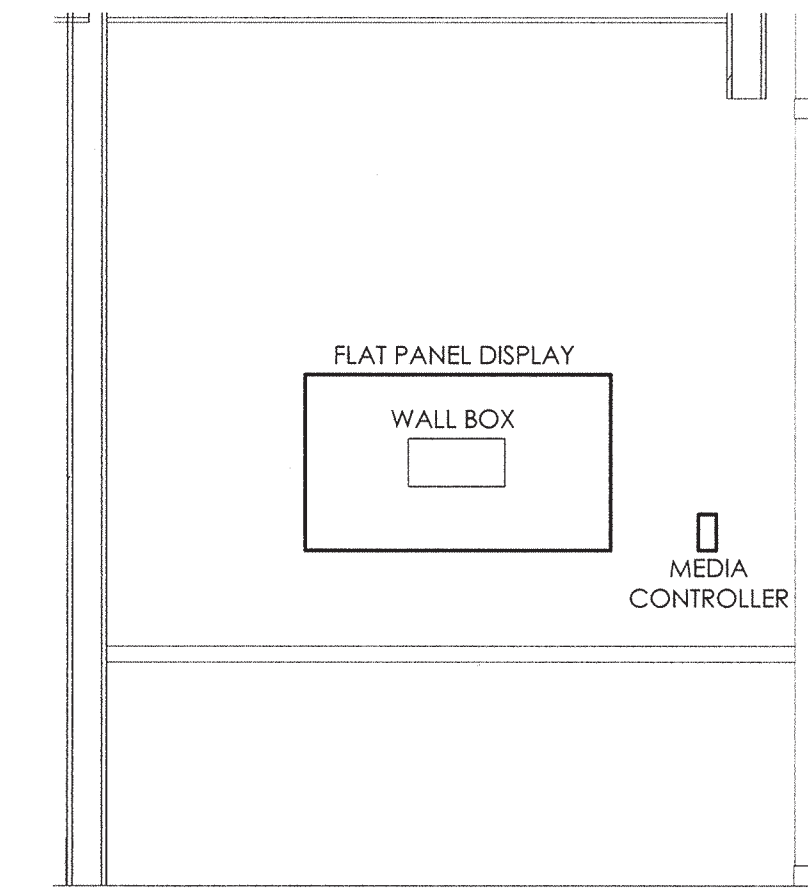
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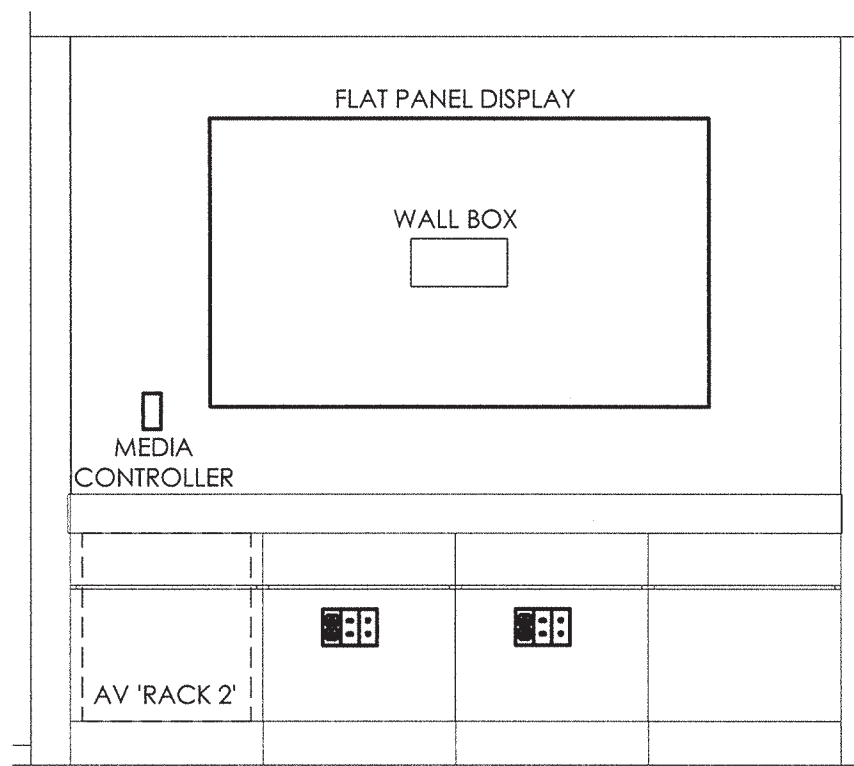
1 CHILDREN'S WALL ELEVATION
 Scale: 1/2" = 1'-0"



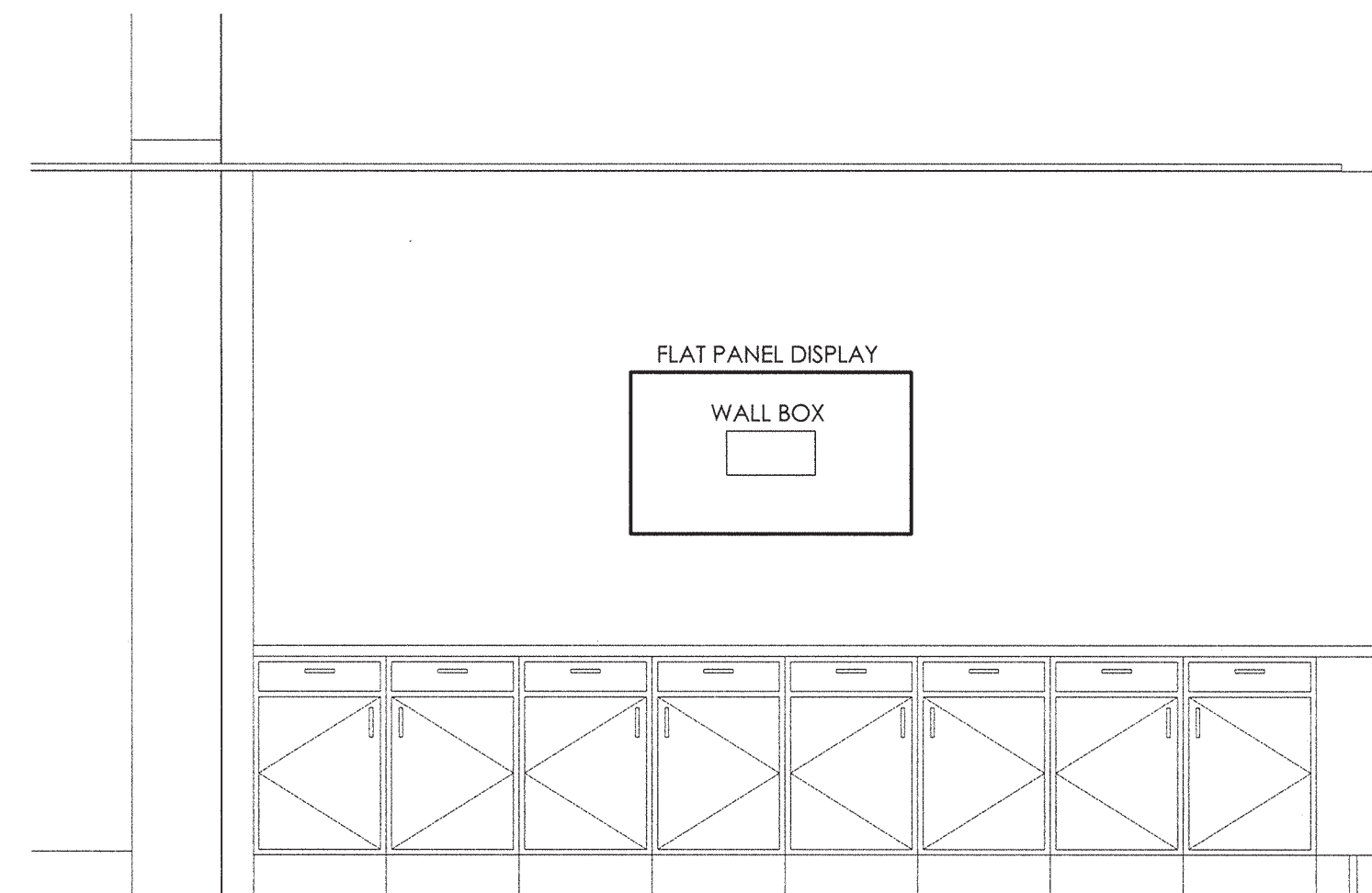
2 MEETING ROOM WALL ELEVATION
 Scale: 1/2" = 1'-0"



3 TYPICAL STUDY ROOM WALL ELEVATION
 Scale: 1/2" = 1'-0"



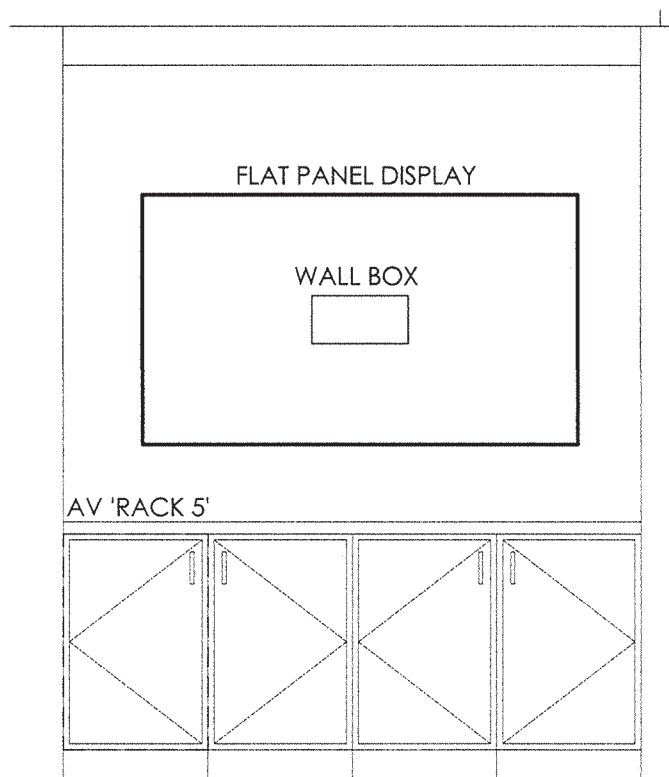
4 TEEN ROOM WALL ELEVATION
 Scale: 1/2" = 1'-0"



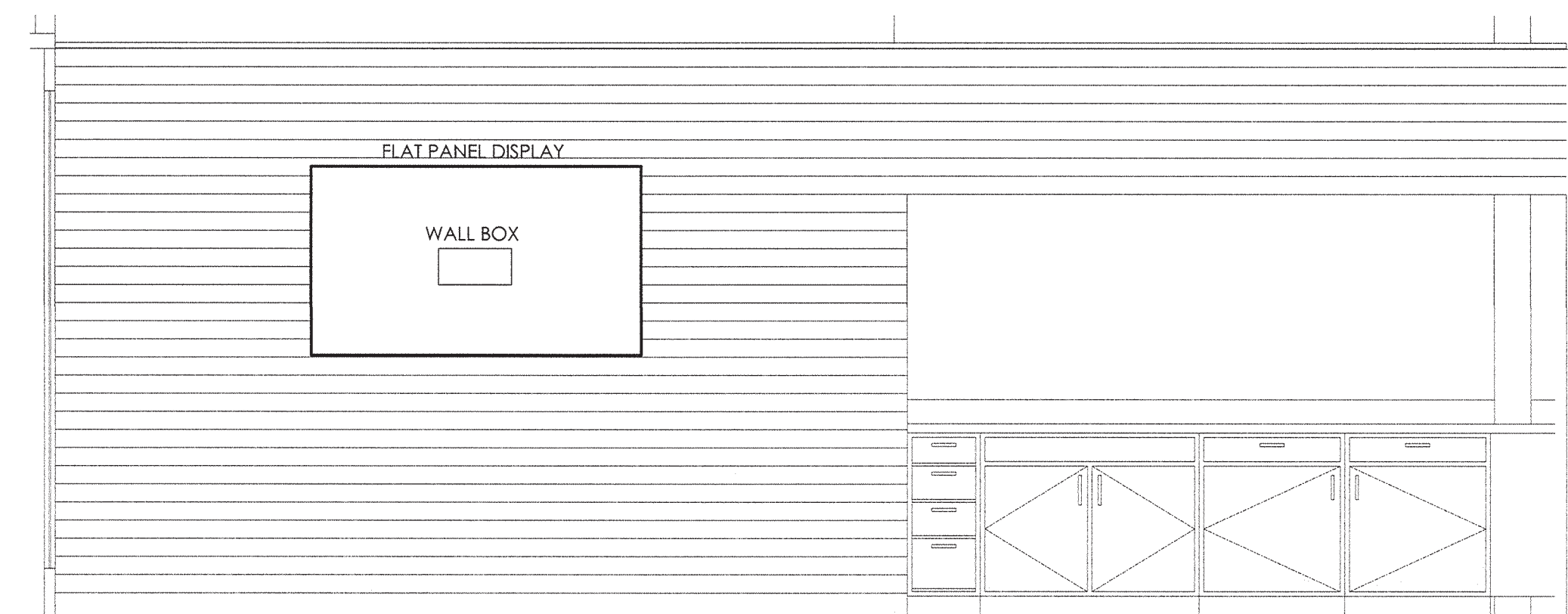
5 CAFE WALL ELEVATION
 Scale: 1/2" = 1'-0"



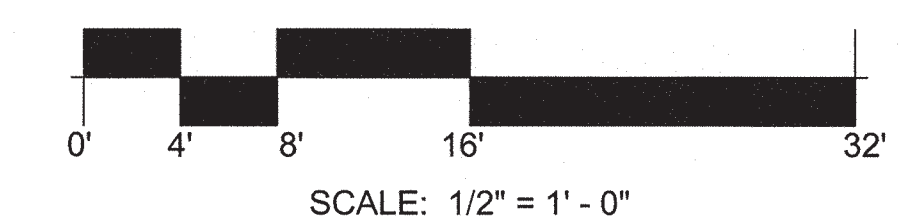
6 VESTIBULE WALL ELEVATION
 Scale: 1/2" = 1'-0"



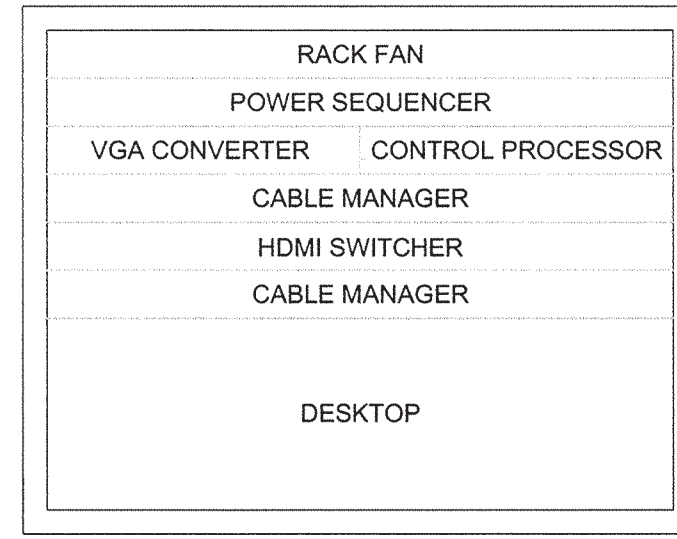
7 MAKER/PROGRAM ROOM WALL ELEVATION
 Scale: 1/2" = 1'-0"



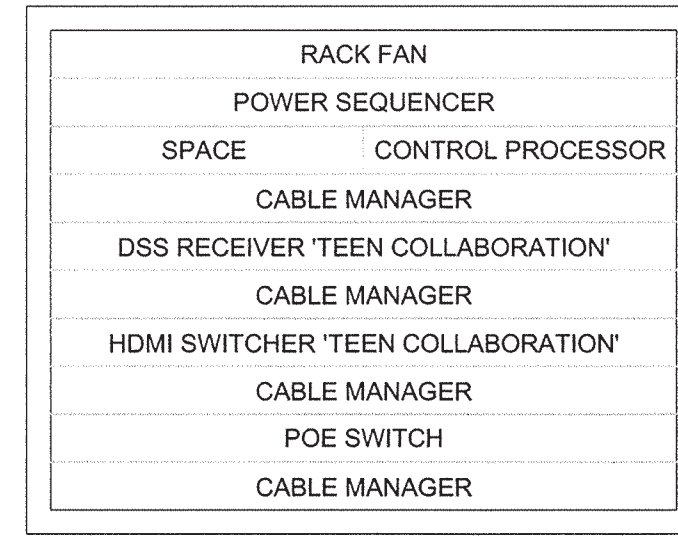
8 9TH SPACE WALL ELEVATION
 Scale: 1/2" = 1'-0"



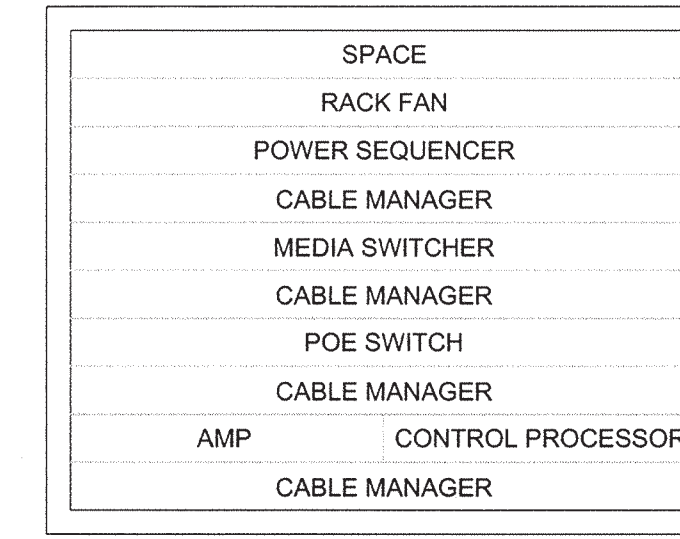
SCALE: 1/2" = 1'-0"



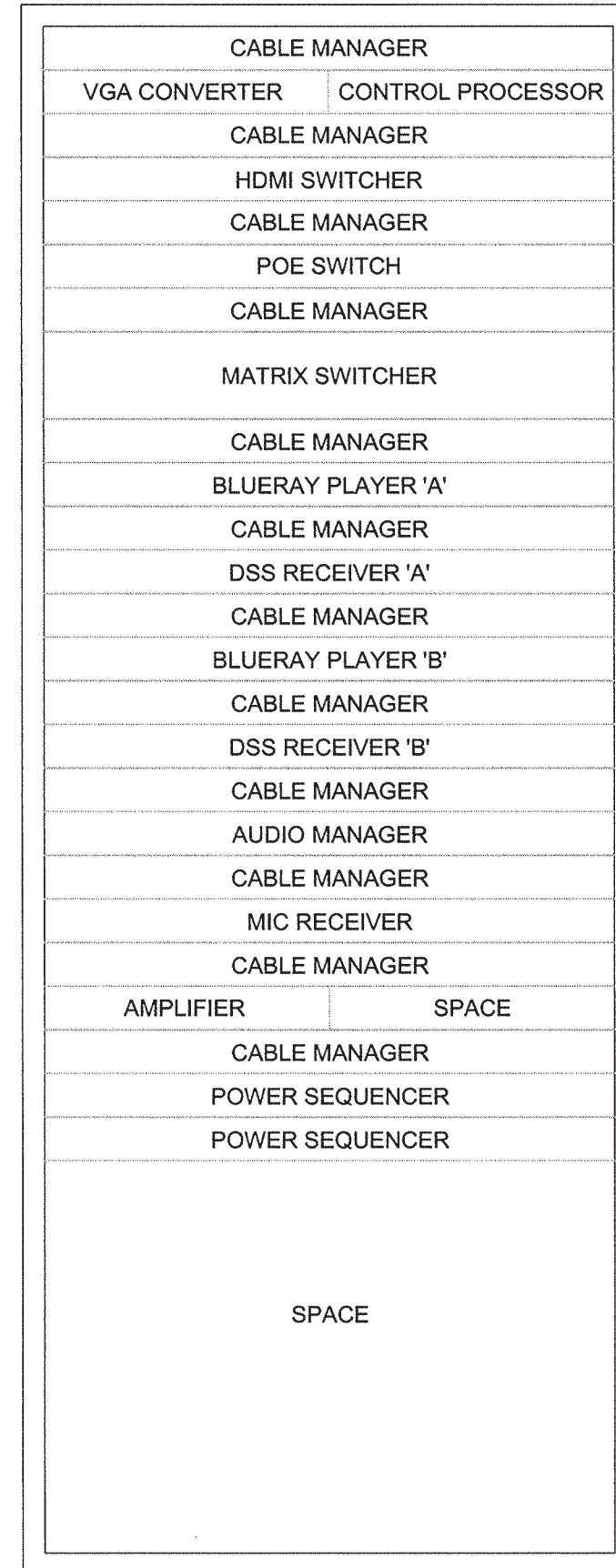
① A/V 'RACK 1' ELEVATION
Scale: NOT TO SCALE



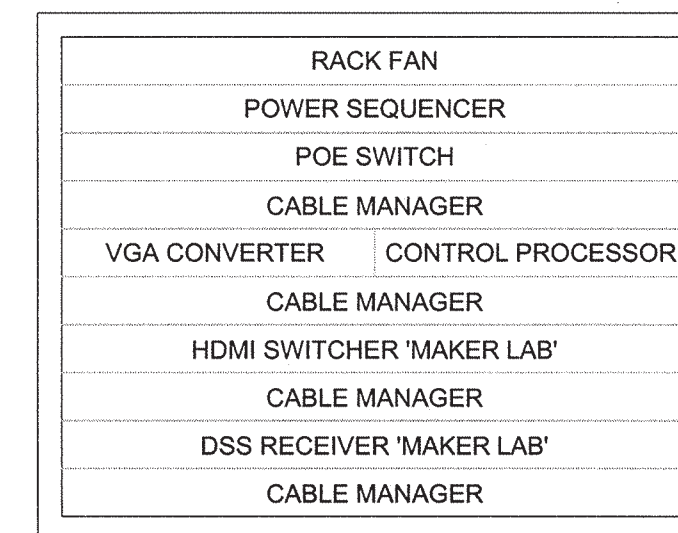
② A/V 'RACK 2' ELEVATION
Scale: NOT TO SCALE



③ A/V 'RACK 3' ELEVATION
Scale: NOT TO SCALE



④ A/V 'RACK 4' ELEVATION
Scale: NOT TO SCALE



⑤ A/V 'RACK 5' ELEVATION
Scale: NOT TO SCALE

GENERAL NOTES:

1. RACK ELEVATIONS AND A/V EQUIPMENT LAYOUT CONFIGURATION ARE DIAGRAMMATIC AND FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON RACK LAYOUT PRIOR TO INSTALLATION.
2. REFERENCE SPECIFICATION SECTION 267413 FOR BASIS OF DESIGN AND INFORMATION ON A/V RACK TO BE PROVIDED.
3. A/V CONTRACTOR SHALL COORDINATE WITH MILLWORK CONTRACTOR AND VERIFY THAT A/V RACK TYPES FIT IN LECTERNS, CREDENZAS, ETC. CONTRACTOR SHALL IMMEDIATELY INFORM ENGINEER OF ANY DEFICIENCIES.



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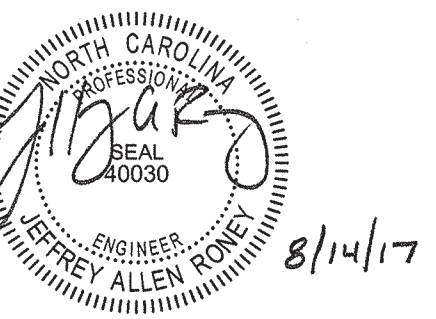
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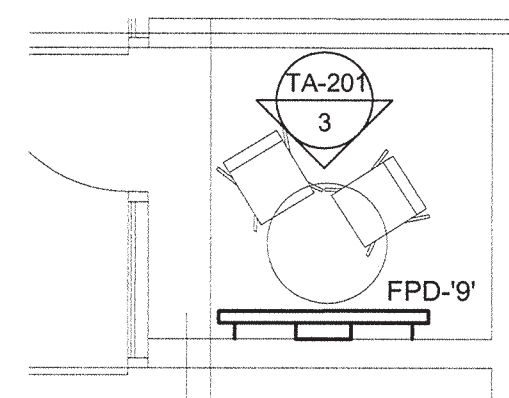
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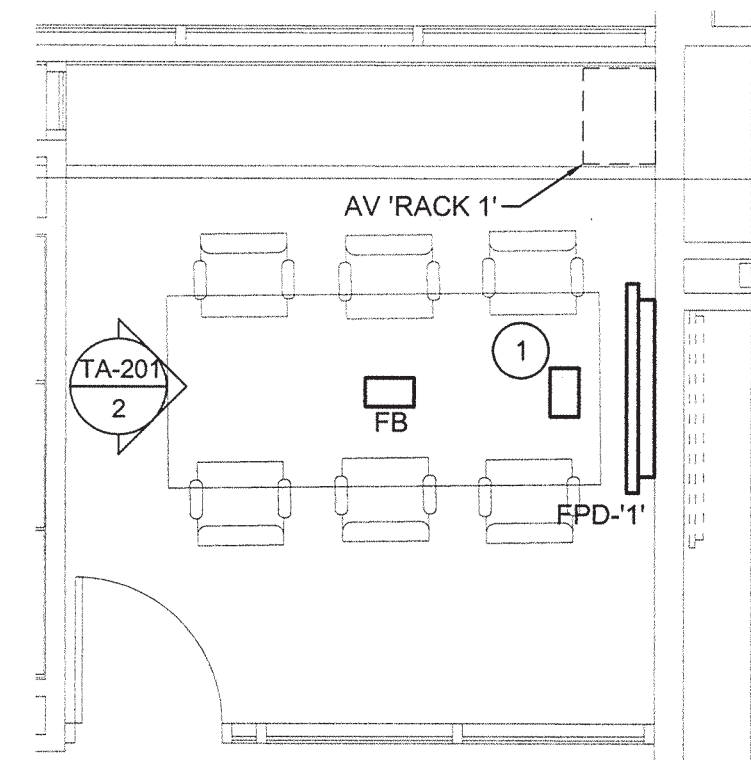
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 ELEVATIONS**

DRAWING NUMBER

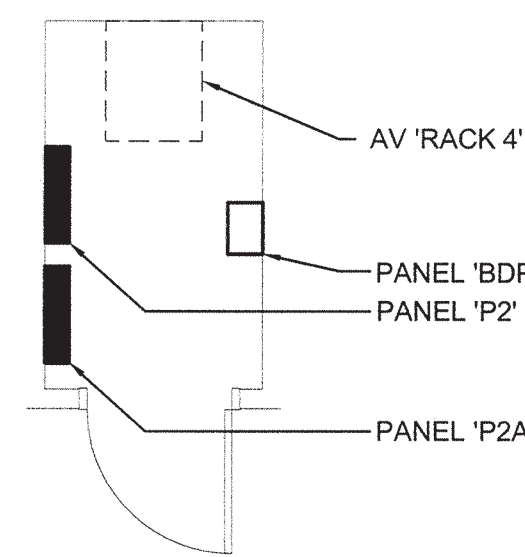
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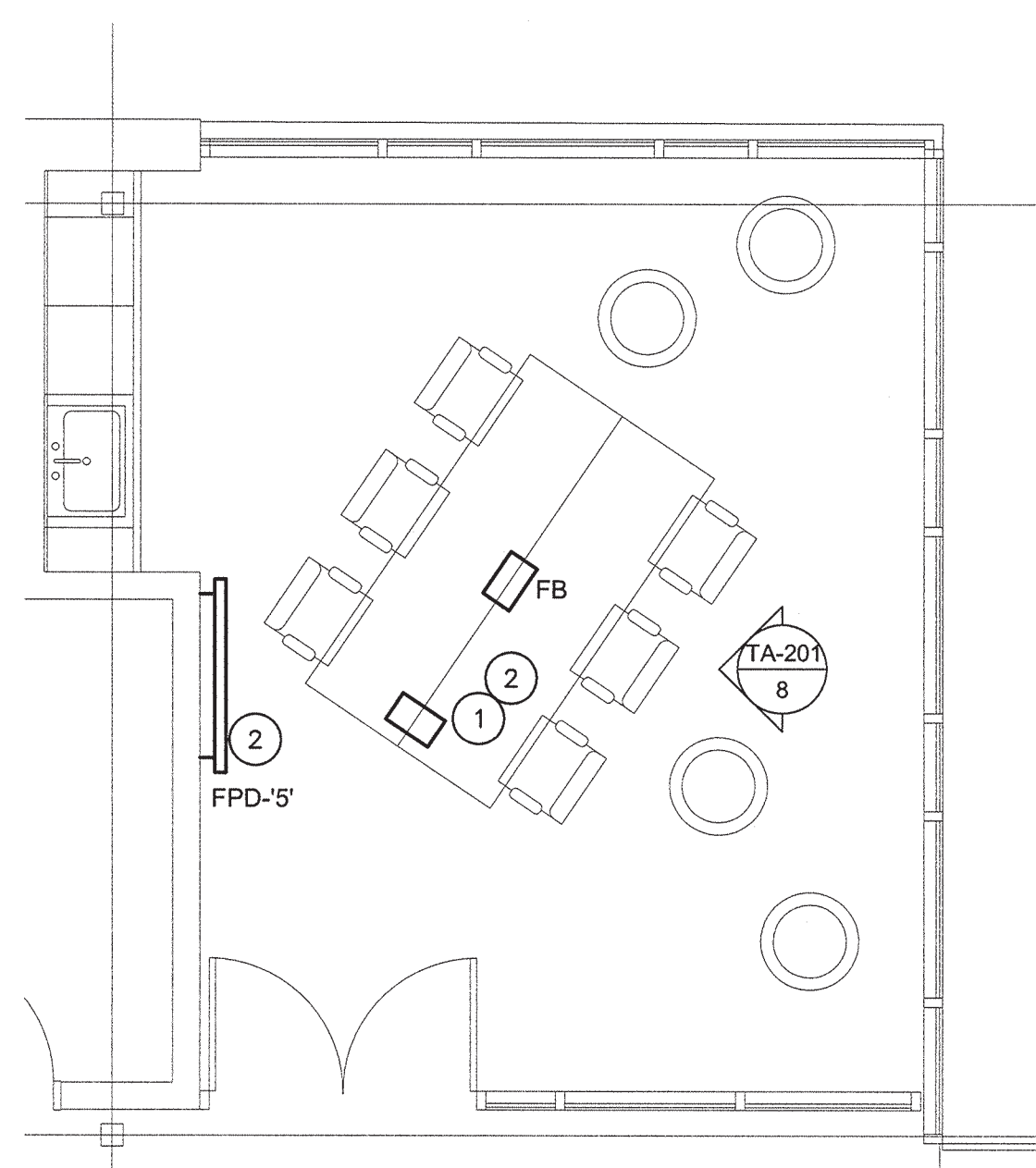
1 ENLARGED STUDY ROOM (TYPICAL)
Scale: 1/4" = 1'-0"



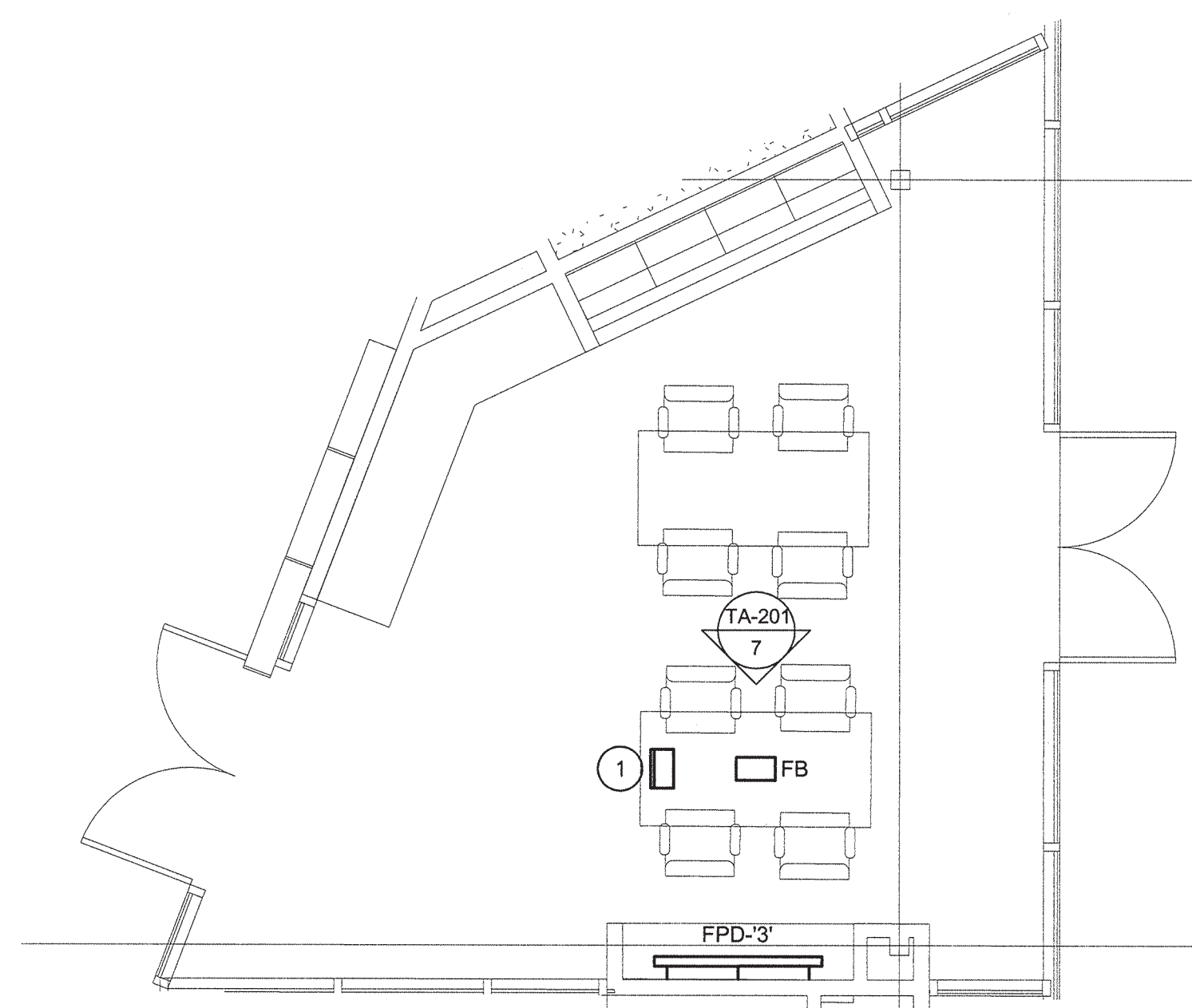
2 ENLARGED MEETING ROOM - 122
Scale: 1/4" = 1'-0"



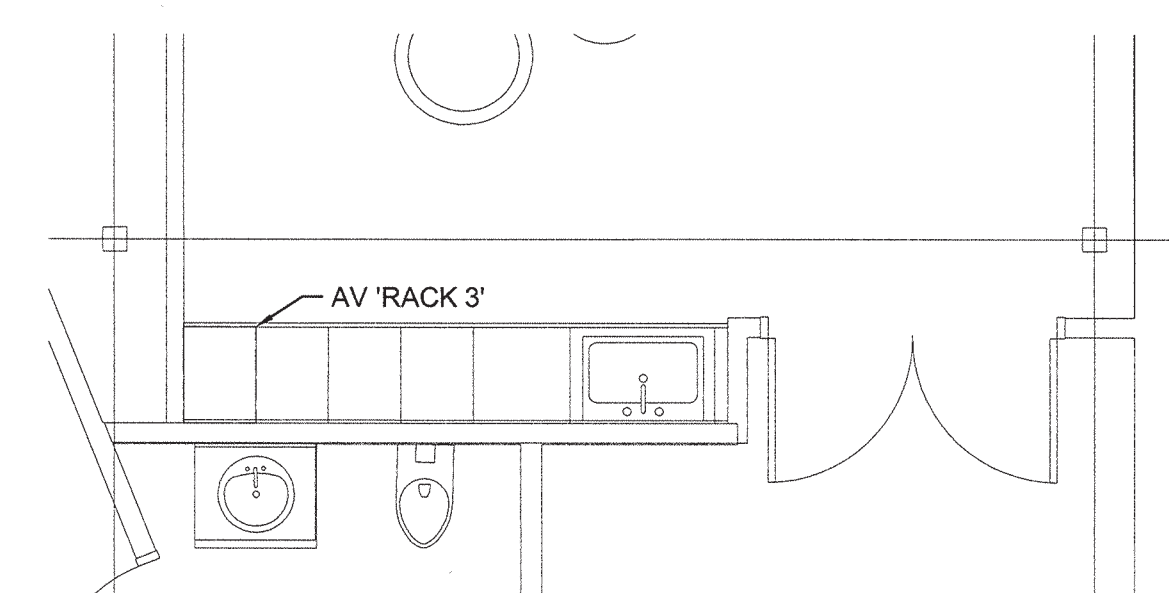
3 ENLARGED AV ROOM - 114A
Scale: 1/4" = 1'-0"



4 ENLARGED 9TH SPACE - 112
Scale: 1/4" = 1'-0"



5 ENLARGED MAKER/PROGRAM SPACE - 126
Scale: 1/4" = 1'-0"



6 ENLARGED CABINET PLAN - ROOM 119
Scale: 1/4" = 1'-0"

GENERAL NOTES:

1. REFERENCE ROOM AUDIOVISUAL BLOCK DIAGRAM, SHEET TA-601 FOR CONNECTION OF EQUIPMENT AND CABLING INFORMATION.
2. REFERENCE VIDEO CONFERENCE AUDIOVISUAL BLOCK DIAGRAM, SHEET TA-603 FOR CONNECTION OF EQUIPMENT AND CABLING INFORMATION.
3. REFERENCE AUDIOVISUAL DISPLAY, CABLE CUBBY AND FLOOR BOX SCHEDULES, SHEET TA-002 FOR EQUIPMENT AND DEVICE INFORMATION.
4. REFERENCE CABLE CUBBY AND FLOOR BOX DETAILS, SHEET TA-501.

KEY NOTES:

1. PROVIDE CABLE CUBBY CC-1. COORDINATE LOCATION OF CABLE CUBBY WITH MILLWORK AND OTHER TRADES PRIOR TO INSTALLATION. REFER TO CABLE CUBBY SCHEDULE AND DETAILS.
2. ROUTE CABLING BACK TO AV RACK LOCATE IN AUDIOVISUAL ROOM.



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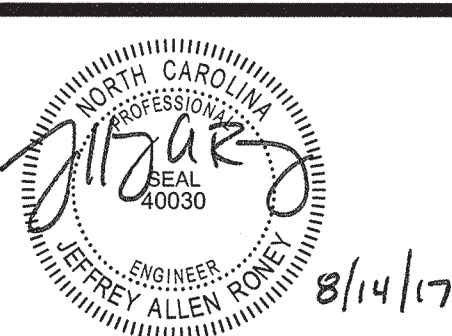
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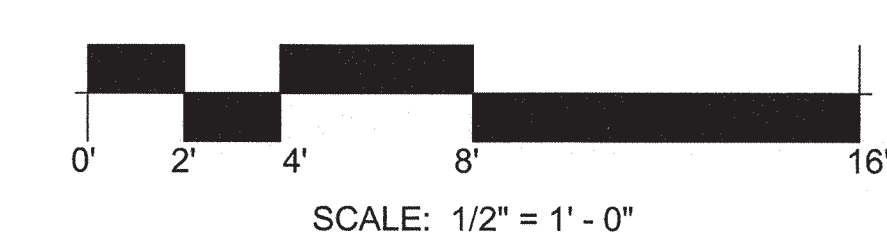
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FIRST FLOOR PLAN - ENLARGED PLANS

DRAWING NUMBER

TA401

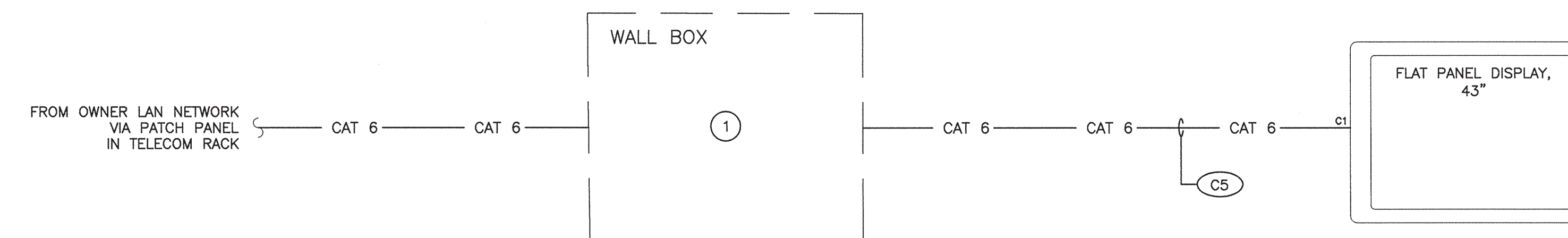


AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.

KEY NOTES:

- 1 PROVIDE CAT6 PATCH CORD, CONNECT FLAT PANEL DISPLAY VIA TELECOM OUTLET IN WALL BOX, CABLING FROM WALL BOX TO OWNER LAN NETWORK AND WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— SPKR —	SPEAKER
— AUD —	AUDIO
— CO —	CONTROL



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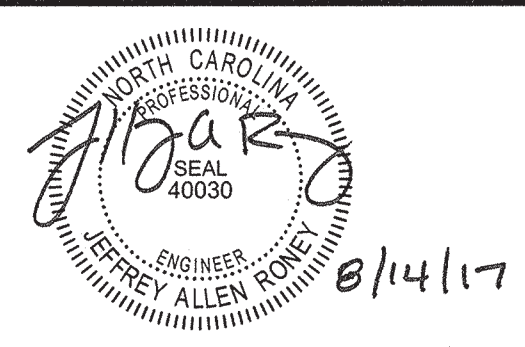
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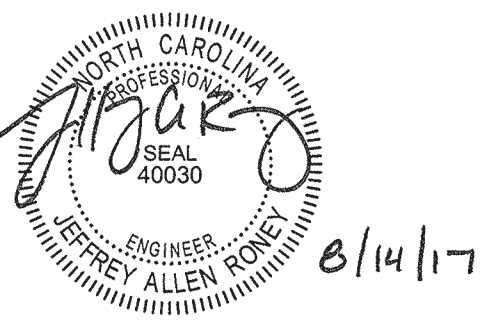
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DRAWING TITLE
TOUCH SCREEN BLOCK DIAGRAM

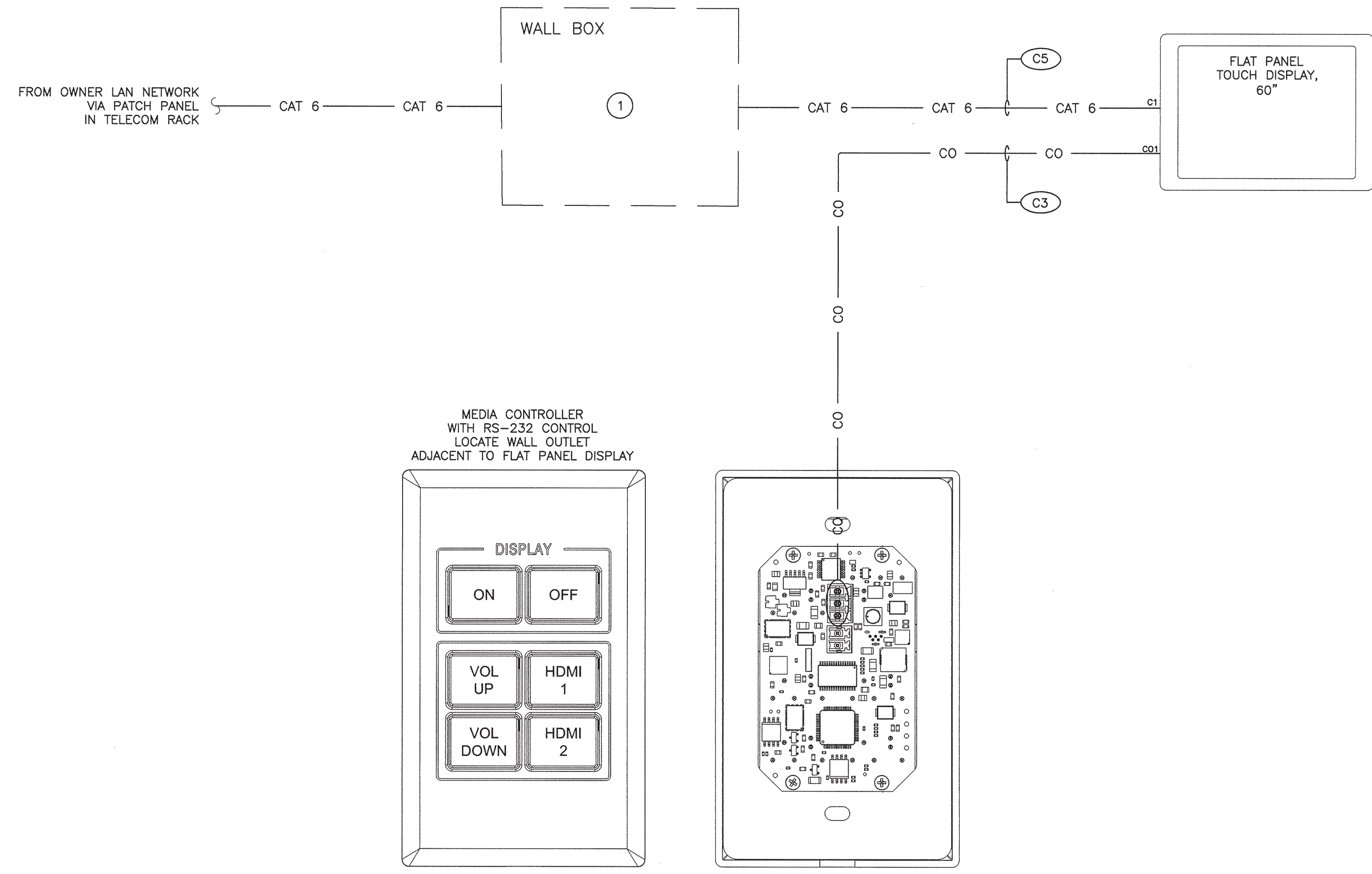
DRAWING NUMBER
TA504

AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.

KEY NOTES:

- 1 PROVIDE CAT6 PATCH CORD, CONNECT FLAT PANEL DISPLAY VIA TELECOM OUTLET IN WALL BOX. CABLING FROM WALL BOX TO OWNER LAN NETWORK AND WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— SPKR —	SPEAKER
— AUD —	AUDIO
— CO —	CONTROL



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PROJECTION BLOCK DIAGRAM

DRAWING NUMBER

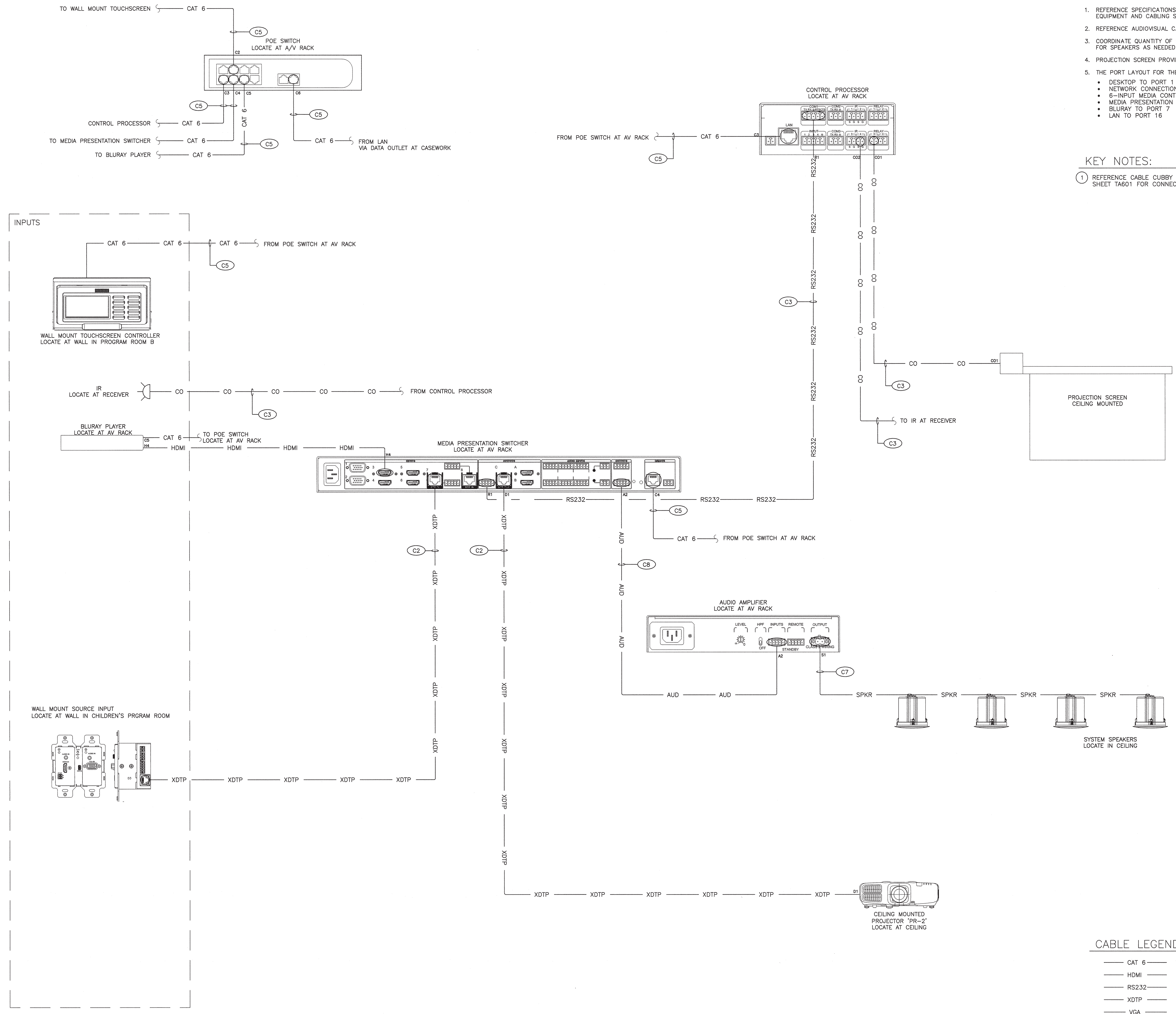
TA505

AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.
3. COORDINATE QUANTITY OF SPEAKERS WITH REFLECTED CEILING PLAN. PROVIDE CABLING FOR SPEAKERS AS NEEDED FOR QUANTITIES SHOWN.
4. PROJECTION SCREEN PROVIDED BY GENERAL CONTRACTOR
5. THE PORT LAYOUT FOR THE POE SWITCH SHALL BE AS FOLLOWS:
 - DESKTOP TO PORT 1
 - NETWORK CONNECTION IN CABLE CUBBY TO PORT 2
 - 6-INPUT MEDIA CONTROLLER TO PORT 3
 - MEDIA PRESENTATION SWITCHER TO PORT 4
 - BLURAY TO PORT 7
 - LAN TO PORT 16

KEY NOTES:

1. REFERENCE CABLE CUBBY DETAILS ON TA701 AND CABLE CUBBY SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND MORE INFORMATION.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— SPKR —	SPEAKER
— AUD —	AUDIO
— CO —	CONTROL

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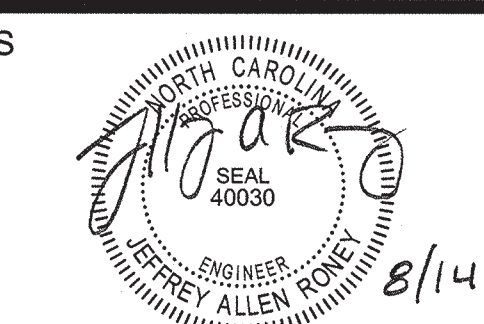
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 DEI PROJECT # 50090277
 SCO ID #

DRAWING TITLE

CONFERENCE BLOCK DIAGRAM

DRAWING NUMBER

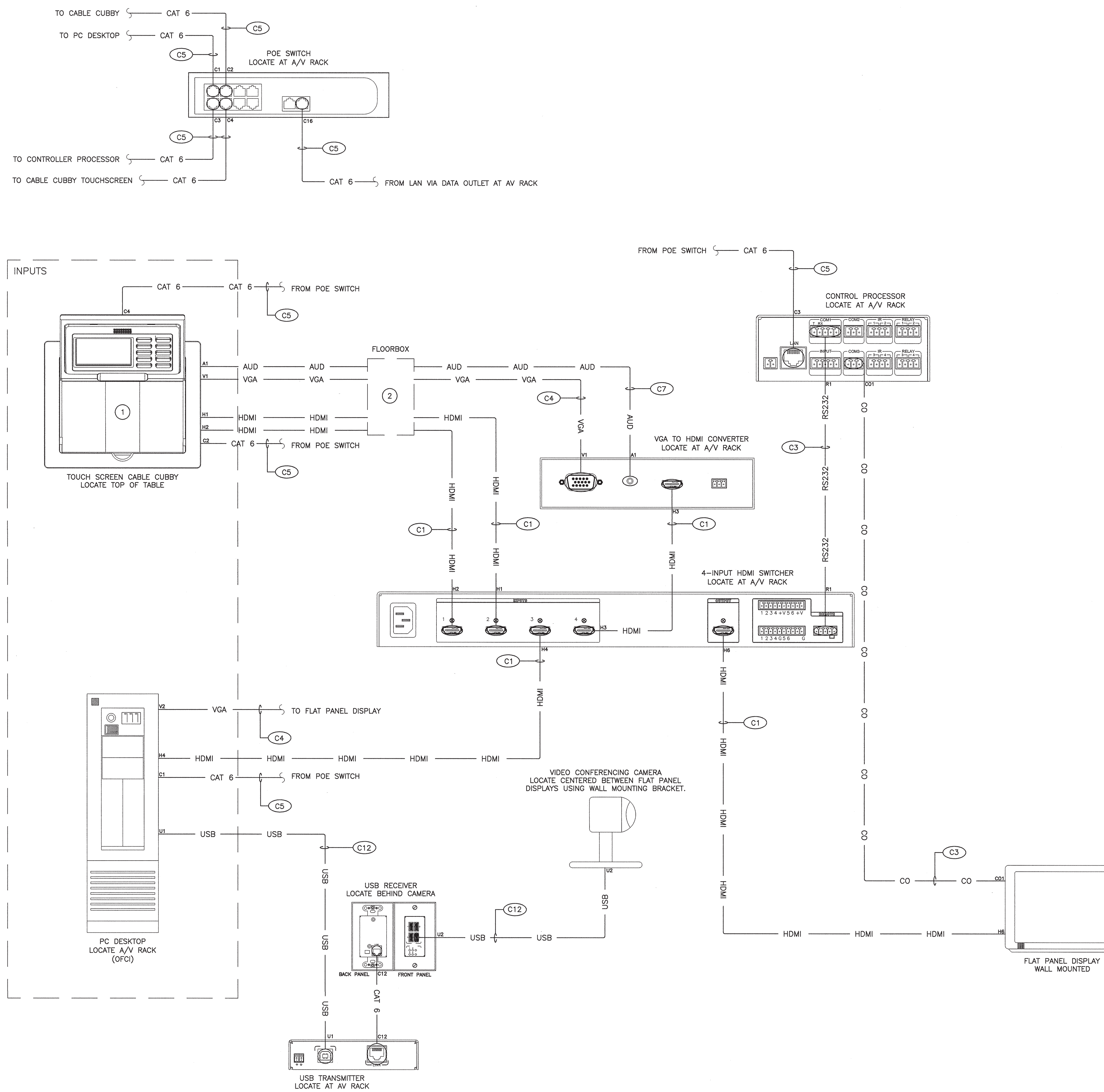
TA506

AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.
3. COORDINATE QUANTITY OF SPEAKERS WITH REFLECTED CEILING PLAN. PROVIDE CABLING FOR SPEAKERS AS NEEDED FOR QUANTITIES SHOWN.
4. PROJECTION SCREEN PROVIDED BY GENERAL CONTRACTOR
5. THE PORT LAYOUT FOR THE POE SWITCH SHALL BE AS FOLLOWS:
 - DESKTOP TO PORT 1
 - NETWORK CONNECTION IN CABLE CUBBY TO PORT 2
 - CONTROL PROCESSOR TO PORT 3
 - CABLE CUBBY TOUCHSCREEN TO PORT 4
 - LAN TO PORT 16

KEY NOTES:

1. REFERENCE CABLE CUBBY DETAILS ON TA701 AND CABLE CUBBY SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND MORE INFORMATION.
2. REFERENCE FLOOR BOX DETAILS ON SHEET TA701 AND FLOOR BOX SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND AV OUTLET BOXES.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— SPKR —	SPEAKER
— AUD —	AUDIO
— CO —	CONTROL



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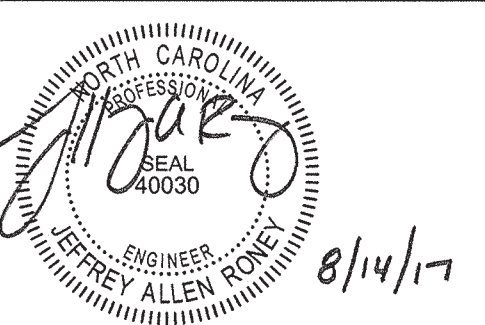
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**STUDY
 BLOCK DIAGRAM**

DRAWING NUMBER

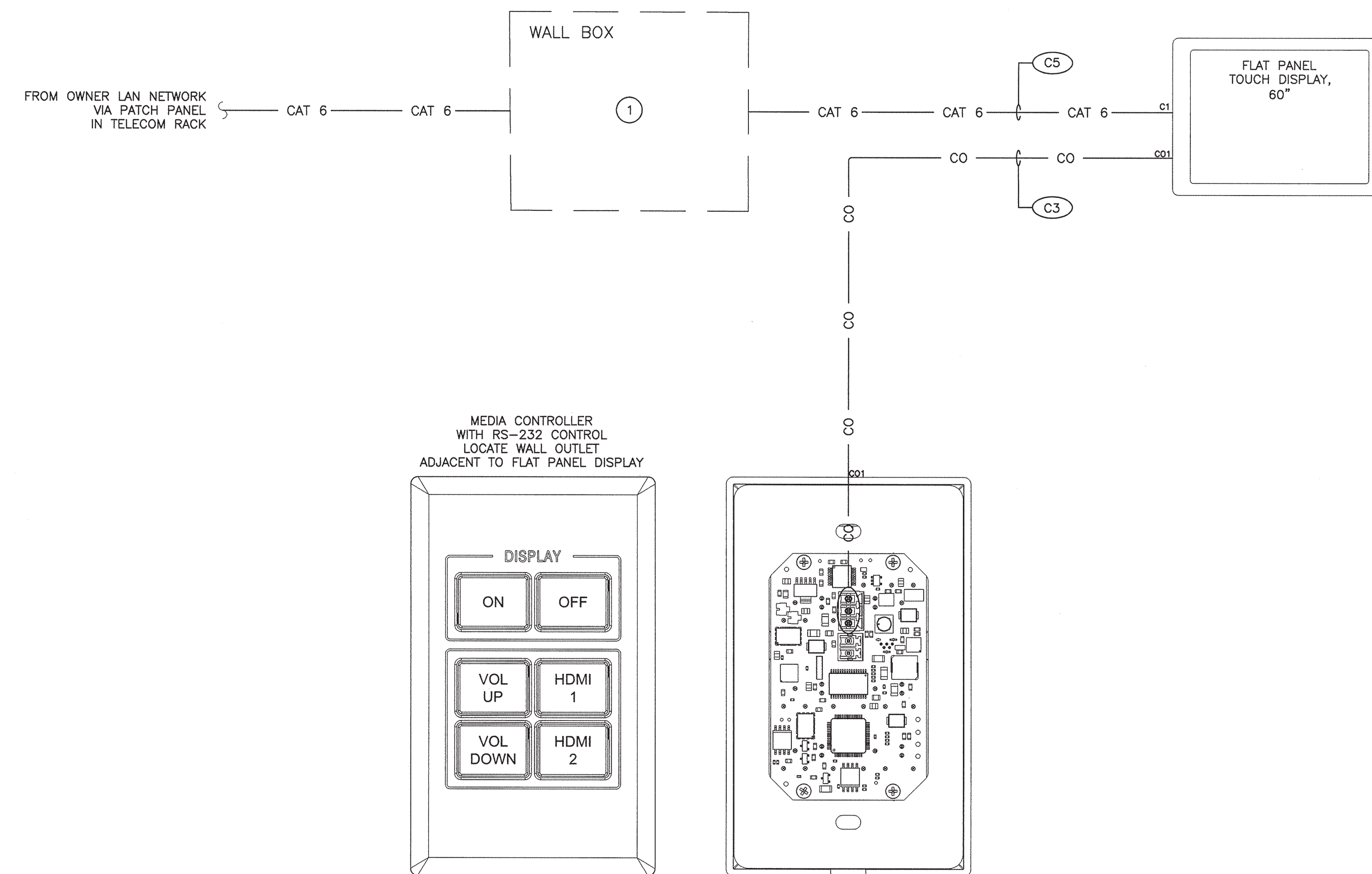
TA507

AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.

KEY NOTES:

- 1 PROVIDE CAT6 PATCH CORD, CONNECT FLAT PANEL DISPLAY VIA TELECOM OUTLET IN WALL BOX. CABLING FROM WALL BOX TO OWNER LAN NETWORK AND WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— SPKR —	SPEAKER
— AUD —	AUDIO
— CO —	CONTROL

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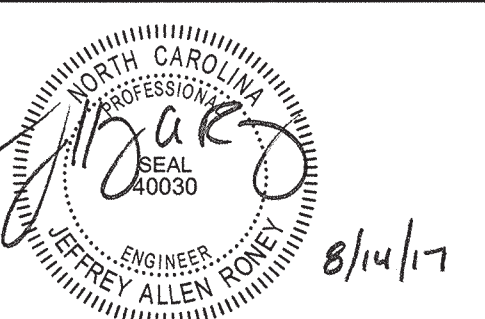
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DRAWING TITLE

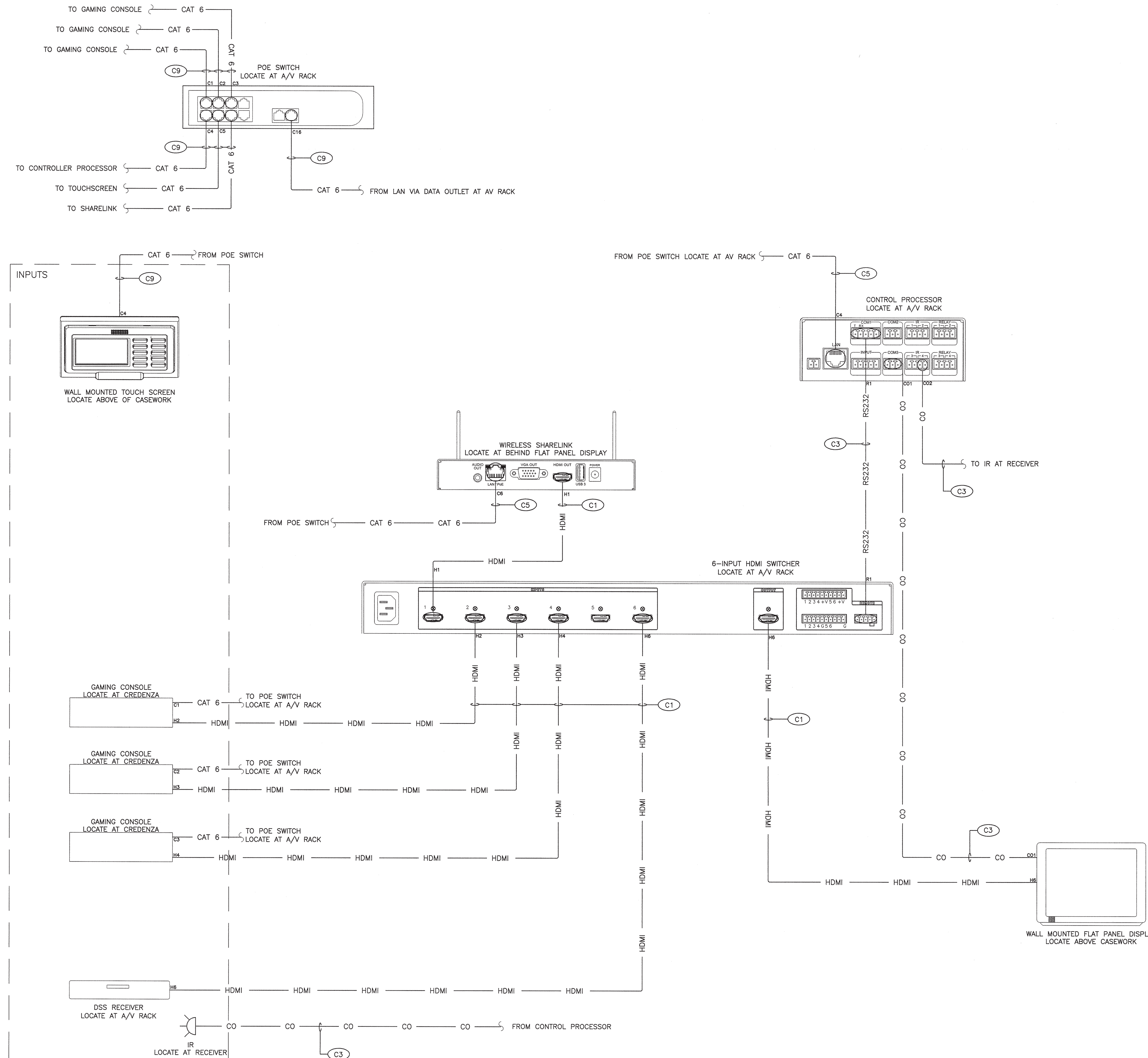
TEEN COLLABORATION BLOCK DIAGRAM

DRAWING NUMBER

TA508

AUDIOVISUAL NOTES:

1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.
3. THE PORT LAYOUT FOR THE POE SWITCH SHALL BE AS FOLLOWS:
 - GAMING CONSOLE TO PORT 1
 - GAMING CONSOLE TO PORT 2
 - GAMING CONSOLE TO PORT 3
 - CONTROL PROCESSOR TO PORT 4
 - TOUCH SCREEN IN CABLE CUBBY TO PORT 5
 - SHARELINK TO PORT 6
 - LAN TO PORT 16



CABLE LEGEND:

— CAT 6 —	ETHERNET
--- HDMI ---	HDMI
... RS232 ...	RS232
- - - XDTP - - -	DTP
--- VGA ---	VGA
- - - CO - - -	CONTROL



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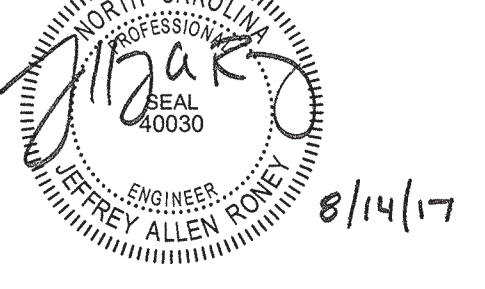
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DRAWING TITLE

MAKER COLLABORATION BLOCK DIAGRAM

DRAWING NUMBER

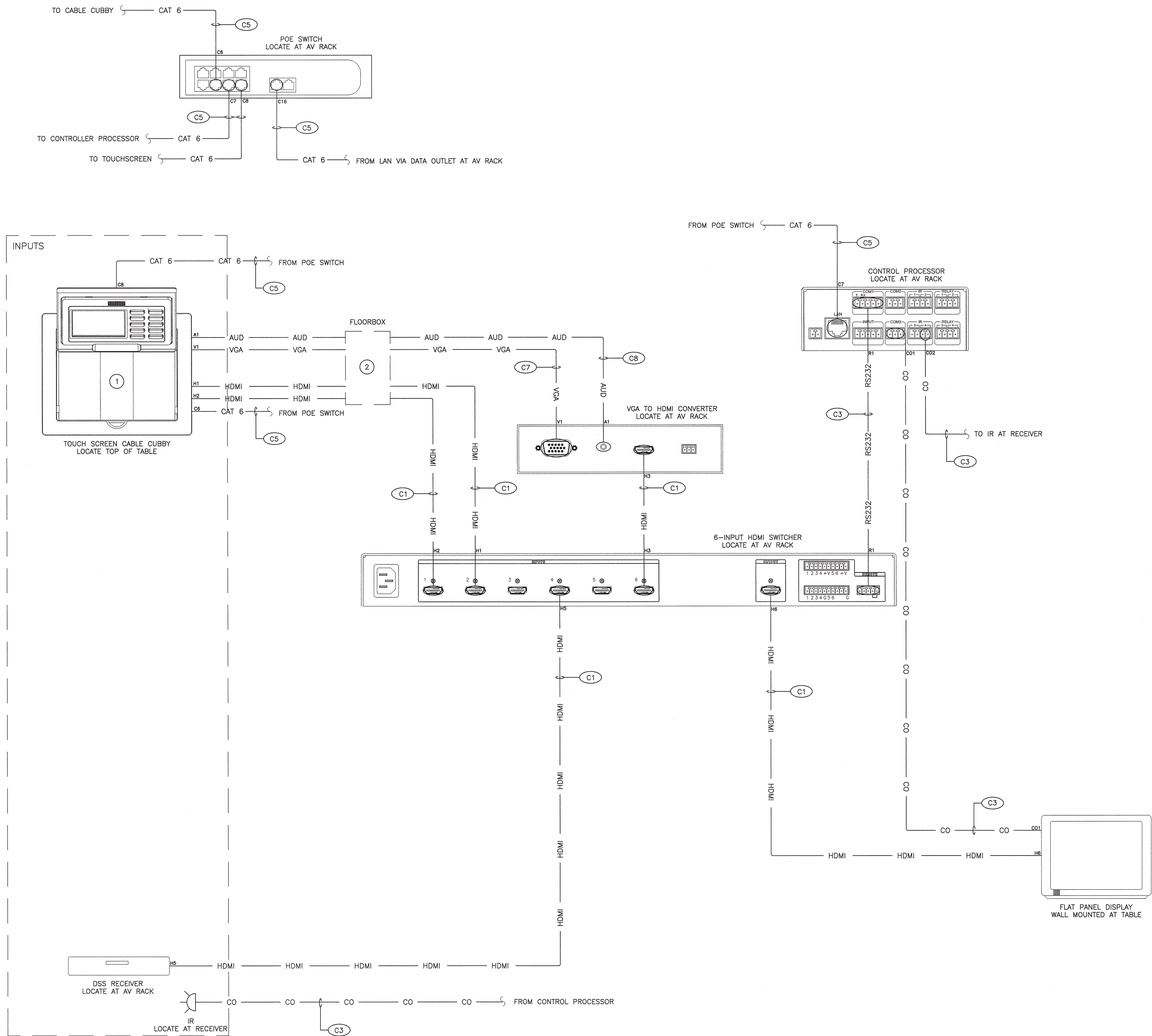
TA509

AUDIOVISUAL NOTES:

- REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
- REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.
- THE PORT LAYOUT FOR THE POE SWITCH SHALL BE AS FOLLOWS:
 - NETWORK CONNECTION IN CABLE CUBBY TO PORT 2
 - CONTROL PROCESSOR TO PORT 3
 - TOUCH SCREEN IN CABLE CUBBY TO PORT 4
 - LAN TO PORT 16

KEY NOTES:

- REFERENCE CABLE CUBBY DETAILS ON SHEET TA701 AND CABLE CUBBY SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND PANEL GROUPINGS.
- REFERENCE FLOOR BOX DETAILS ON SHEET TA701 AND FLOOR BOX SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND AV OUTLET BOXES.



CABLE LEGEND:

— CAT 6 —	ETHERNET
— HDMI —	HDMI
— RS232 —	RS232
— XDTP —	DTP
— VGA —	VGA
— CO —	CONTROL



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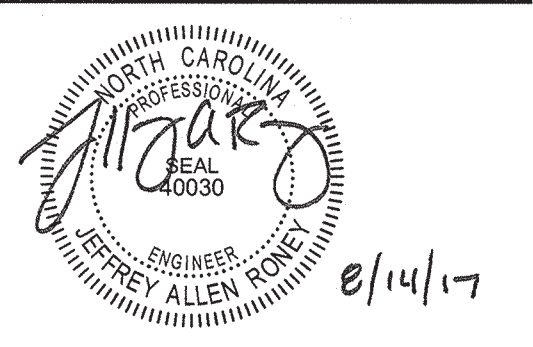
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Table with 2 columns: Description, Date. Multiple empty rows for revisions.

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DEI PROJECT # 50090277
SCO ID # -

DRAWING TITLE

AUDIOVISUAL SCHEDULES

DRAWING NUMBER

TA601

AUDIOVISUAL PROJECTION SCHEDULE

Table with columns: ROOM NUMBER, ROOM DESCRIPTION, PROJECTOR TAG, MODEL, QUANTITY, INSTALLATION, MOUNTING PLATE, MOUNTING SUPPORT, DISTANCE FROM CEILING, DISTANCE FROM SCREEN, ADJUSTMENT MARGIN, MODEL, QUANTITY, IMAGE SIZE (DIAGONAL, HEIGHT, WIDTH), CASE SIZE (HEIGHT, WIDTH, DEPTH), BLACK DROP, SCREEN GAIN, INSTALLATION, OPERATION, NOTES.

SCHEDULE NOTES:
SN-1 REFER TO SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER.
SN-2 COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. REFERENCE CEILING MOUNTED FIXED PROJECTOR SUPPORT, SHEET TA702.
SN-3 PROVIDE AV WALL PLATE FOR PROJECTOR MOUNTING PLATE. REFERENCE AV FACEPLATE DETAIL, SHEET TA702.

AUDIOVISUAL DISPLAY SCHEDULE

Table with columns: ROOM NUMBER, ROOM DESCRIPTION, DISPLAY TAG, MODEL, QUANTITY, INSTALLATION, MOUNTING BRACKET, DISTANCE FROM FLOOR, IMAGE SIZE (DIAGONAL, HEIGHT, WIDTH), CASE SIZE (HEIGHT, WIDTH, DEPTH), WEIGHT, NOTES.

SCHEDULE NOTES:
SN-1 REFER TO SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER.

AUDIOVISUAL FLOOR BOX SCHEDULE

Table with columns: ROOM NUMBER, ROOM DESCRIPTION, TAG, QUANTITY, A/V OUTLET BOX #1, A/V OUTLET BOX #2, NOTES.

SCHEDULE NOTES:
SN-1 REFER TO SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER OF AV PLATES.
SN-2 FLOORBOX PROVIDED BY ELECTRICAL CONTRACTOR
SN-3 REFER TO DETAILS ON PAGE TA701 FOR INSTALLATION

AUDIOVISUAL CABLE SCHEDULE

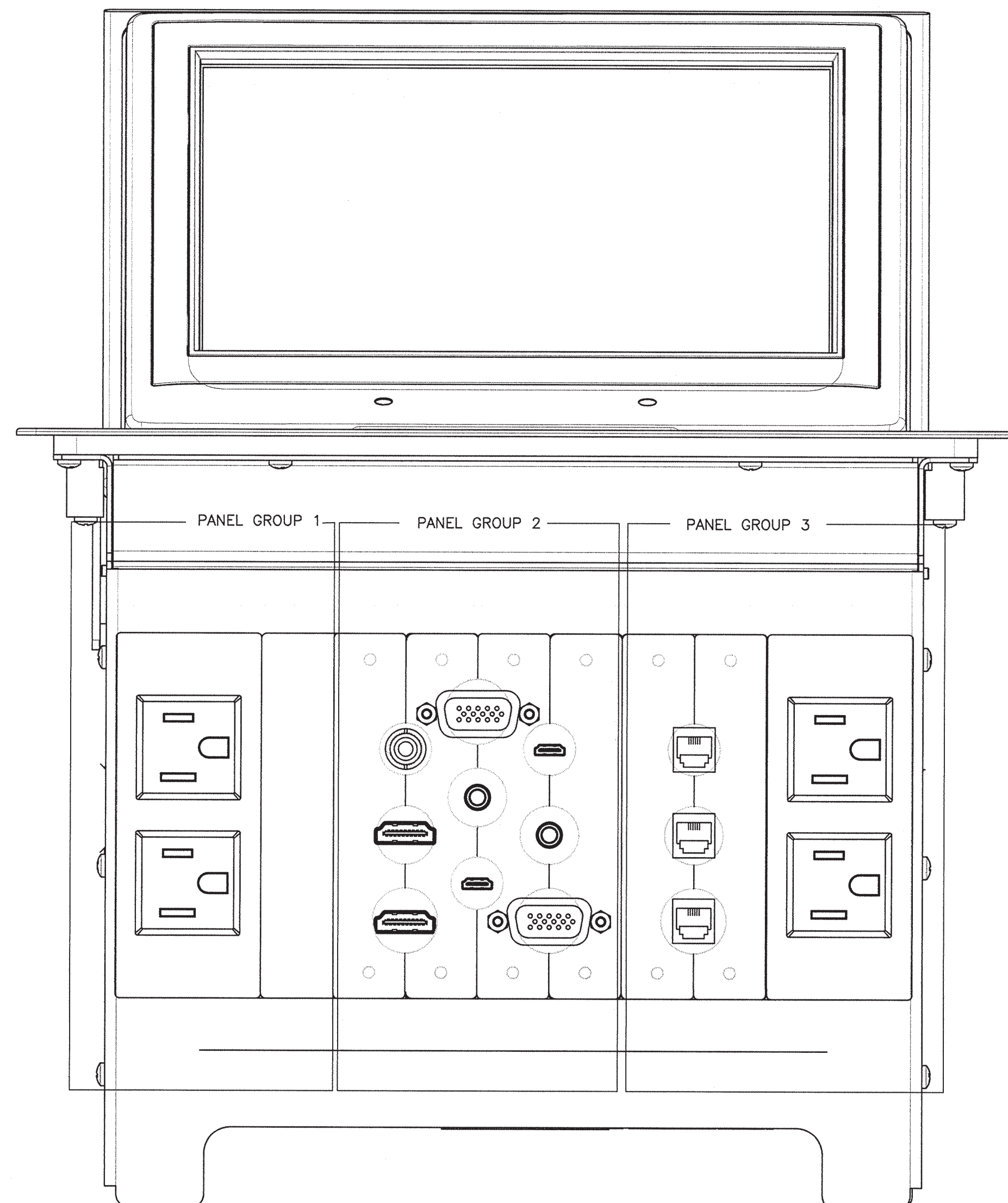
Table with columns: CABLE TAG, CABLE TYPE, CABLE DESCRIPTION, CONNECTOR 1, CONNECTOR 2, NOTES.

SCHEDULE NOTES:
SN-1 REFER TO SPECIFICATIONS FOR CABLE MANUFACTURER AND PART NUMBER.

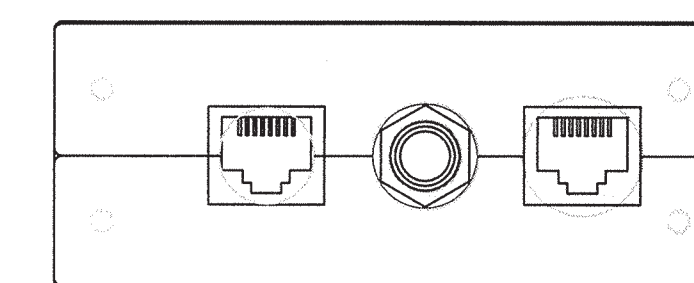
AUDIOVISUAL CABLE CUBBY SCHEDULE

Table with columns: ROOM NUMBER, ROOM DESCRIPTION, TAG, MODEL, QUANTITY, PANEL GROUP #1, PANEL GROUP #2, PANEL GROUP #3, NOTES.

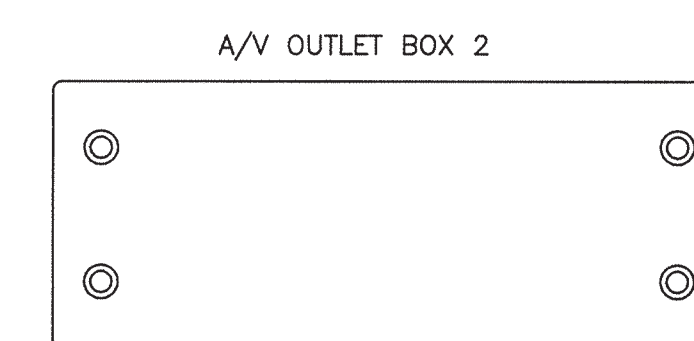
SCHEDULE NOTES:
SN-1 REFER TO SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER OF AV PLATES.
SN-2 REFER TO CABLE CUBBY DETAILS, SHEET TA701.



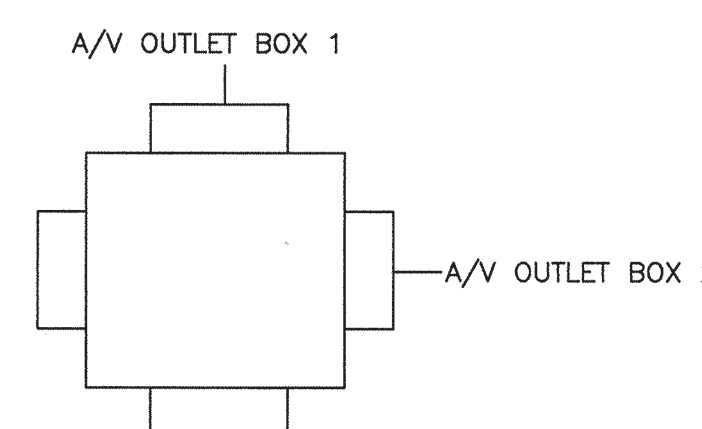
1 CABLE CUBBY DETAILS : CC-1
Scale: NOT TO SCALE



A/V OUTLET BOX 1



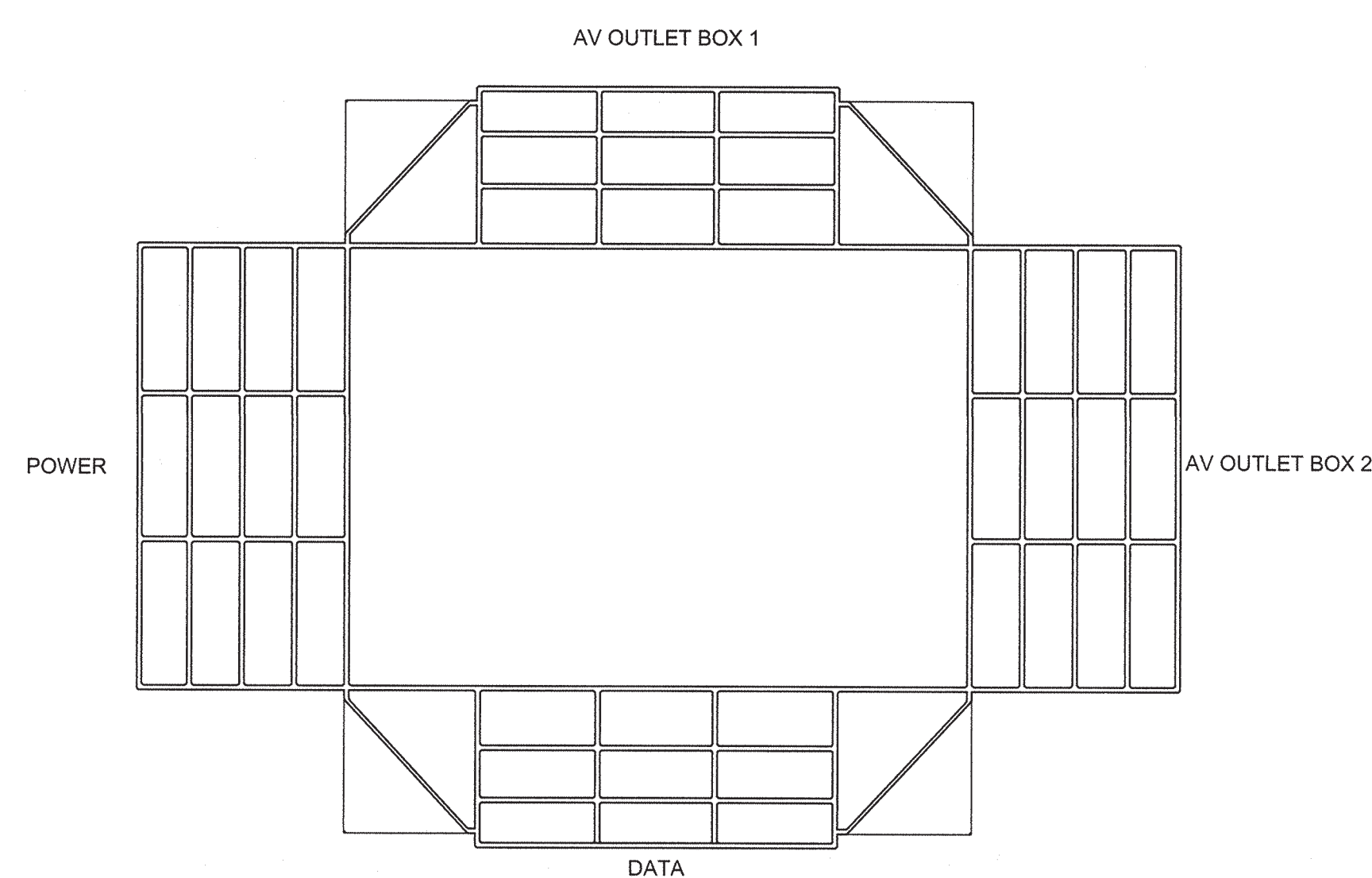
A/V OUTLET BOX 2



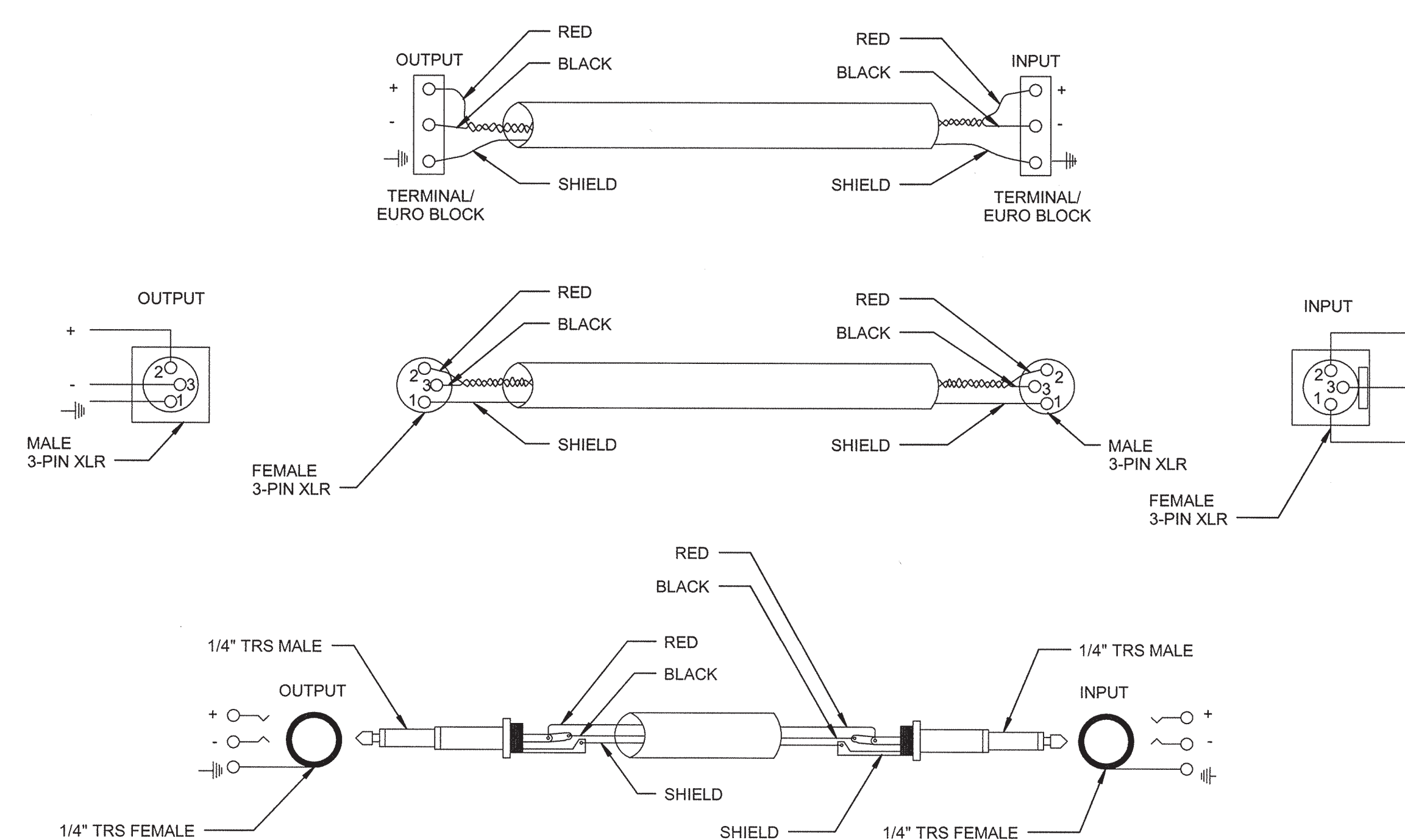
A/V OUTLET BOX 1

A/V OUTLET BOX 2

2 FLOOR BOX DETAILS: FB
Scale: NOT TO SCALE



3 TYPICAL FLOOR BOX DETAIL
Scale: NOT TO SCALE



4 TYPICAL BALANCED LINE LEVEL TERMINATION
Scale: NOT TO SCALE



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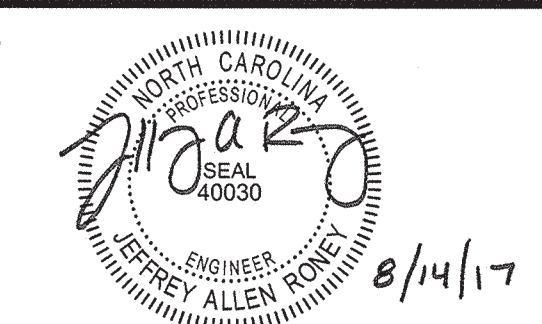
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GREENSBORO, NC 27408
T: 336 230 1990
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REVISIONS

NO.	DESCRIPTION

SEALS



PINE VALLEY
BRANCH
LIBRARY

OWNER
NEW HANOVER
COUNTY

PHASE CONSTRUCTION DOCUMENTS

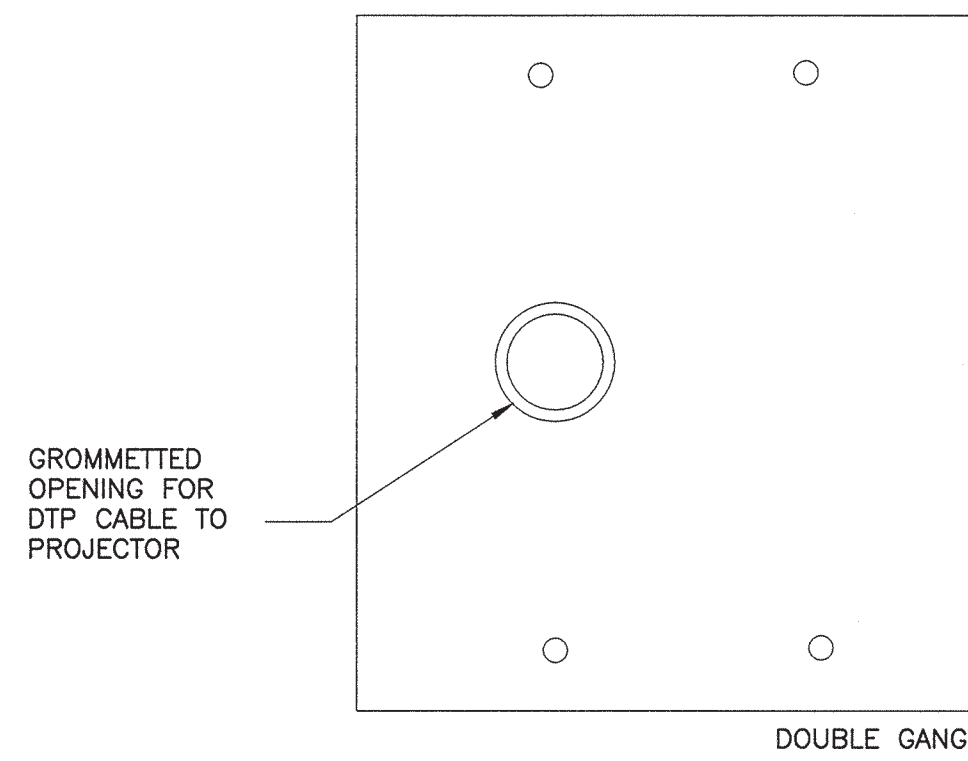
DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 50090277
SCO ID #

DRAWING TITLE

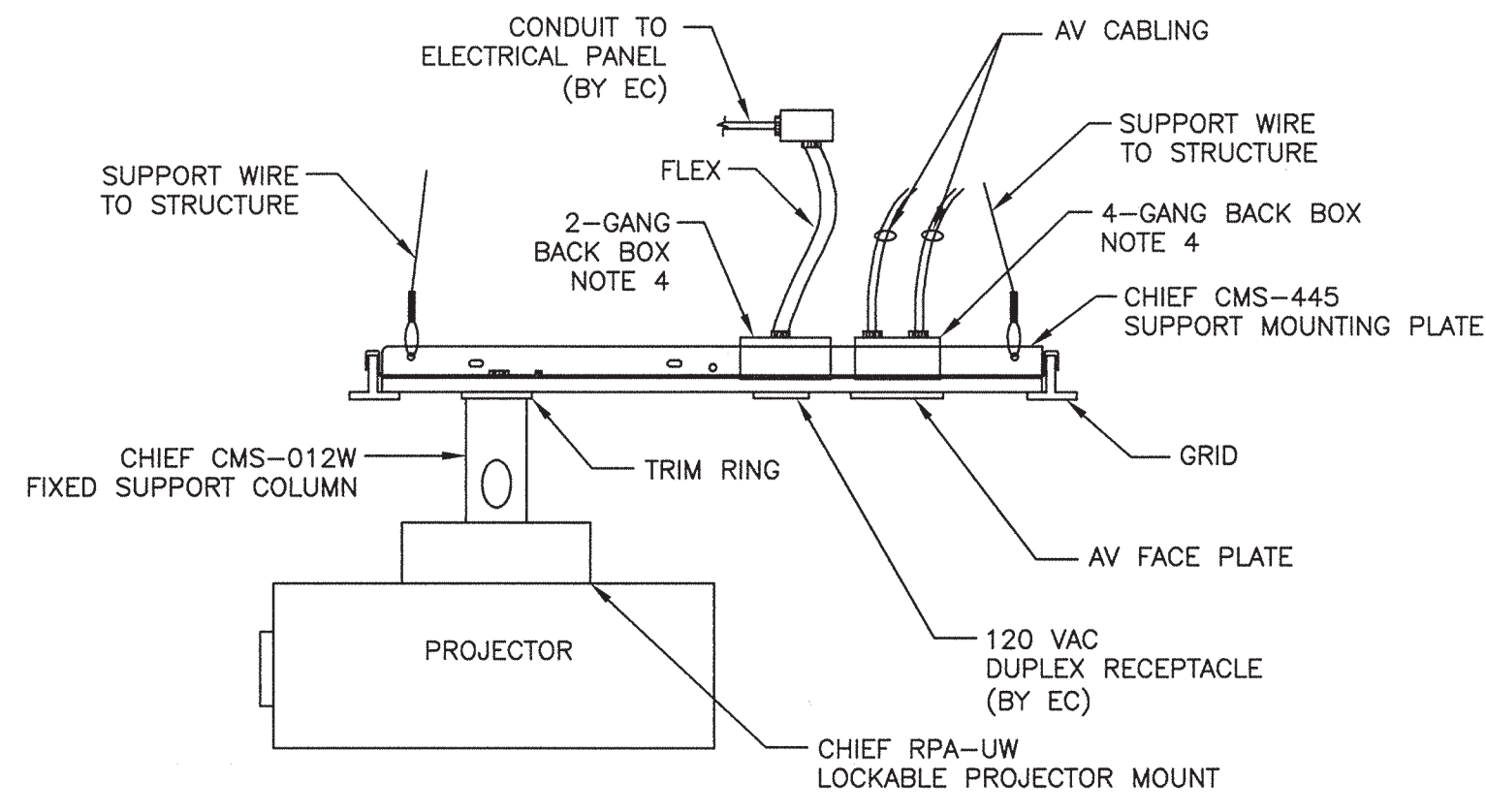
AUDIOVISUAL
DETAILS

DRAWING NUMBER

TA701

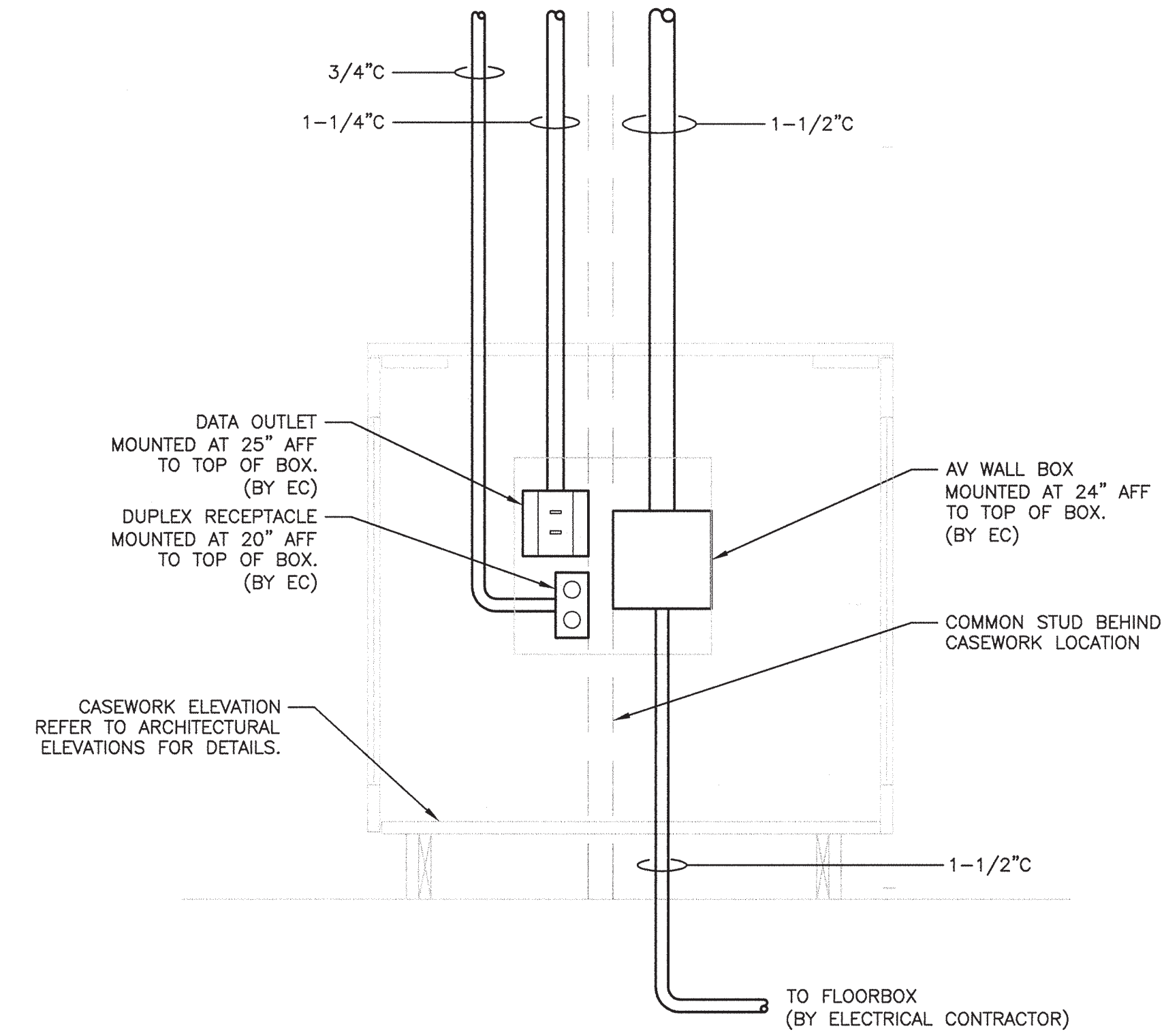


1 AV FACEPLATE DETAIL - PROJECTOR
Scale: NOT TO SCALE

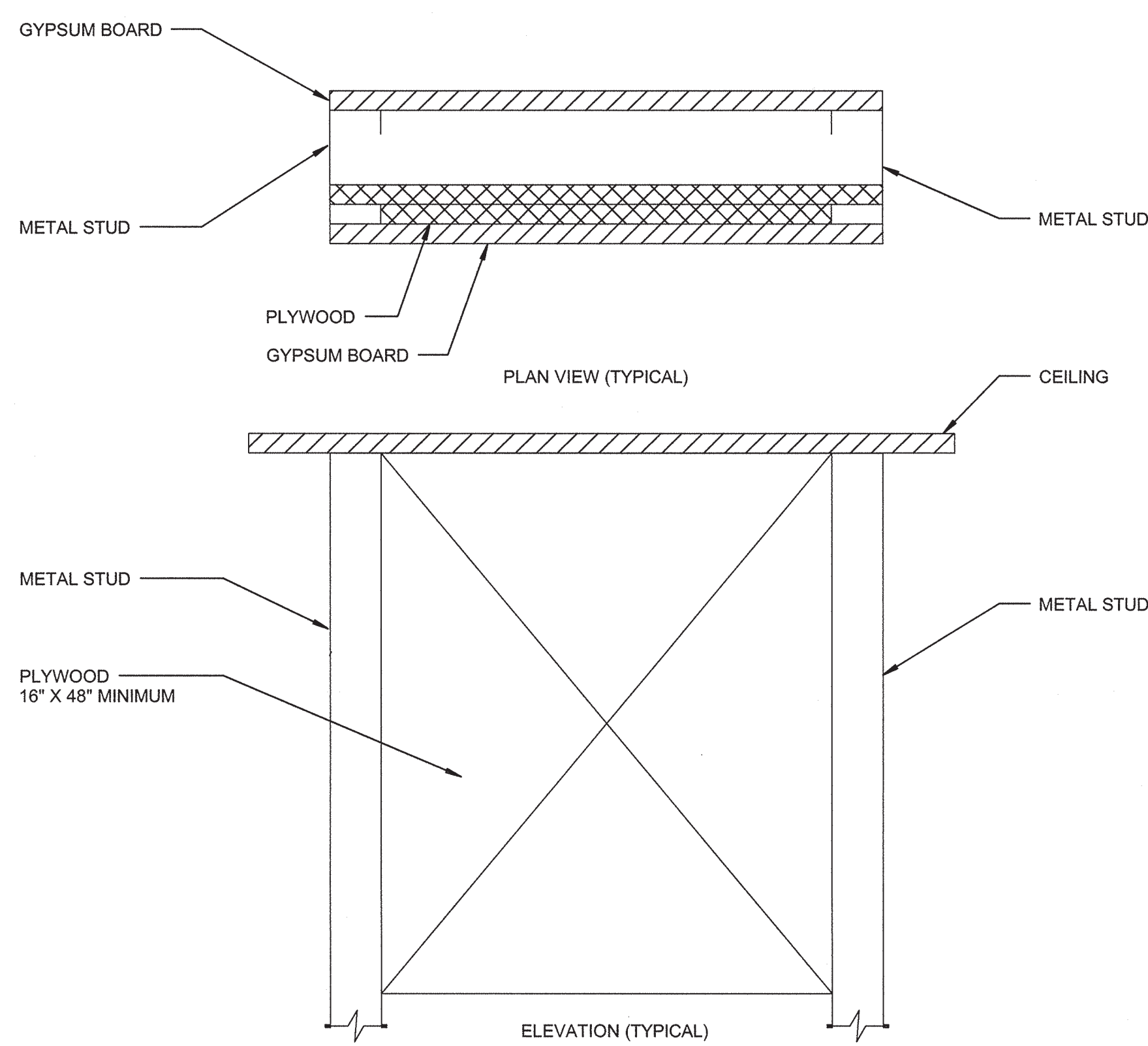


- NOTES:
1. AV CONTRACTOR SHALL PROVIDE ALL ADDITIONAL/MISCELLANEOUS HARDWARE FOR INSTALLATION OF MOUNTING PLATE.
 2. GENERAL CONTRACTOR SHALL PROVIDE STRUCTURAL SKETCHES FOR A TYPICAL INSTALLATION OF SUPPORTING SYSTEM ABOVE CEILING FOR MOUNTING PLATE. STRUCTURAL SKETCHES SHALL BE SUBMITTED TO ENGINEER AND OWNER FOR APPROVAL.
 3. COLOR/FINISH OF MOUNTING PLATE IS WHITE. COLOR/FINISH OF OTHER MOUNTING COMPONENTS SHALL BE WHITE.
 4. ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BACK BOX FOR CEILING MOUNTED RECEPTACLE. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE A 4-GANG BACK BOX FOR AV OUTLET. COVER PLATE FOR AV OUTLET WILL BE PROVIDED BY THE AV CONTRACTOR.

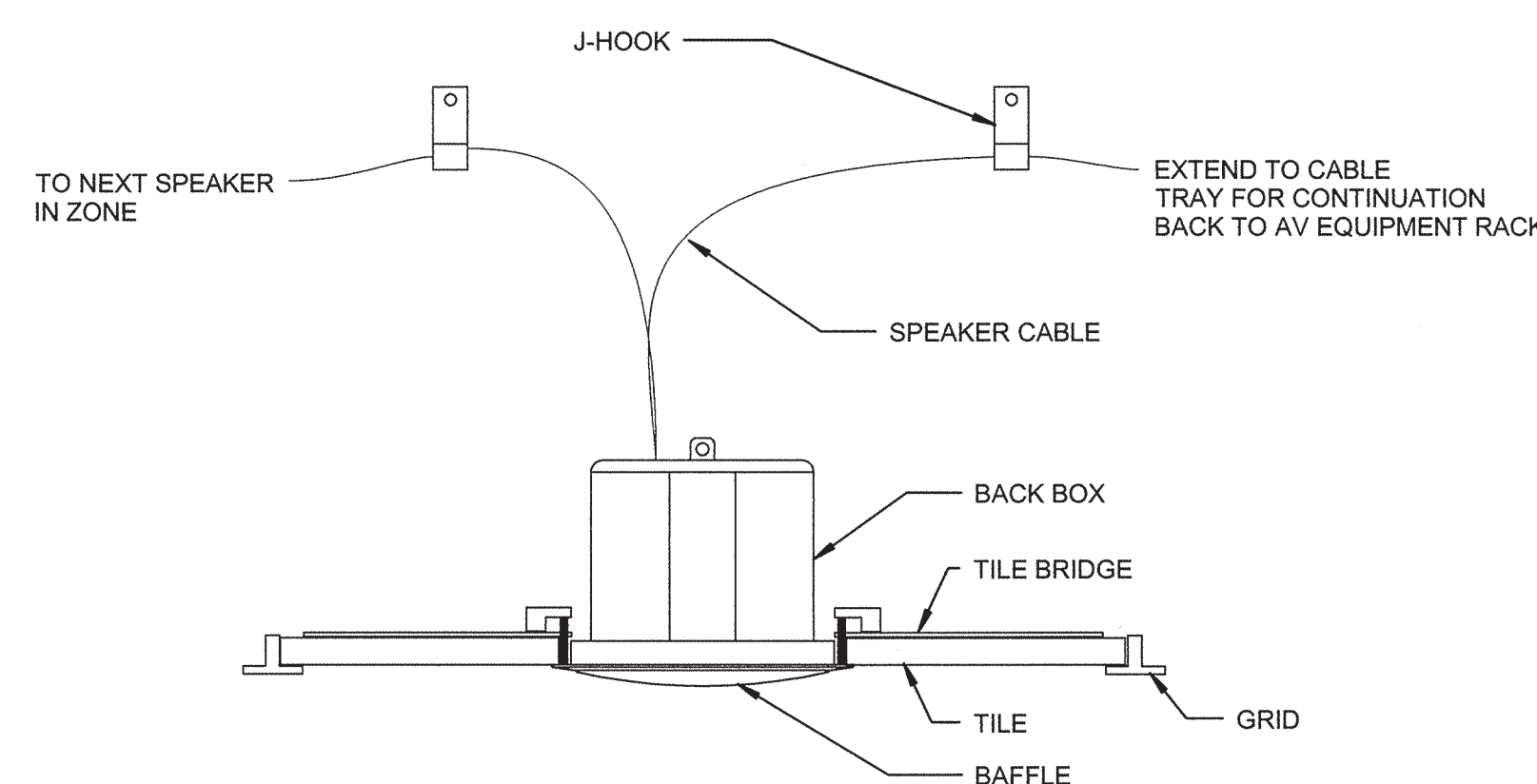
2 PROJECTOR FIXED MOUNTING DETAIL
Scale: NOT TO SCALE



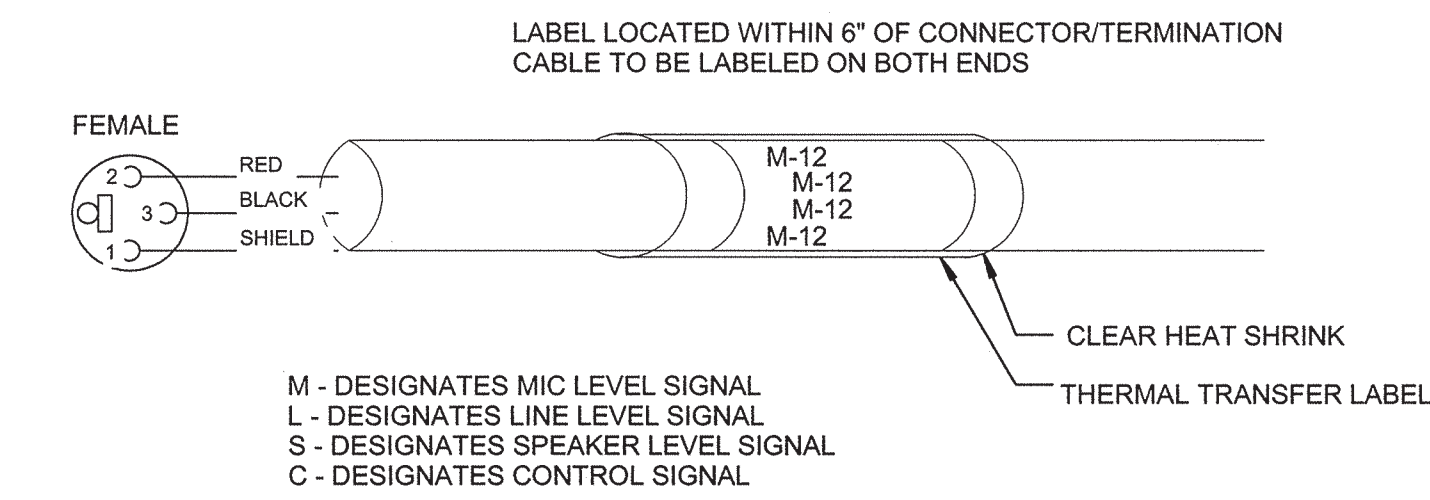
3 AUDIOVISUAL INFRASTRUCTURE BOX ELEVATION
Scale: NOT TO SCALE



4 DISPLAY BLOCKING DETAIL
Scale: NOT TO SCALE



5 SPEAKER MOUNTING DETAIL
Scale: NOT TO SCALE



6 CABLE LABELING DETAIL
Scale: NOT TO SCALE

VINES

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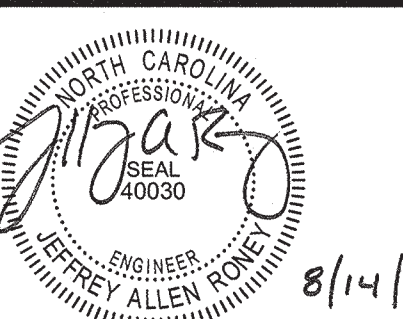
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LIGHT DEFINES FORM

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