ELECTRICAL LEGEND

FLOOR MOUNTED	<u>WALL</u> <u>MOUNTED</u>	<u>CEILING</u> <u>MOUNTED</u>	ITEM DESCRIPTION	<u>FLOOR</u> <u>MOUNTED</u>	WALL MOUNTED	<u>CEILING</u> <u>MOUNTED</u>	ITEM DESCRIPTION		,	
		C1	LIGHT FIXTURE DESIGNATIONS: C1- UPPERCASE LETTER & NUMBER INDICATES FIXTURE TYPE	×	\bowtie_{x}		VOICE/DATA OUTLET WITH 1 VOICE (OV NUMBER OF VOICE PORTS (V) AND DATA	ER IP), 1 DATA PORTS. OTHERWISE (x) DENOTES A PORTS (D). (SEE NOTE #5)		
		X:20	X:20 - UPPERCASE LETTER:NUMBER INDICATES CIRCUIT a - LOWERCASE LETTER DESIGNATES LIGHT SWITCH LEG EMERGENCY LIGHT - CIRCUIT SUCH THAT ALL LAMPS OPERATE		∠ x			WITH 1 VOICE (OVER IP), 1 DATA PORTS. OTHERWISE S (V) AND DATA PORTS (D). (SEE NOTE #5)		
	$\vdash \otimes$	✓✓	24 HOURS A DAY EXIT LIGHT SIGN - SHADED AREA(S) INDICATES FACE OF SIGN. ARROWS INDICATE DIRECTION ON SIGN LETTER DESIGNATION					USING W/ CAT6 JACK. PROVIDE ONE (1) CAT6 CABLE CK. MOUNT 18" ABOVE FINISHED CEILING. PROVIDE		
			IN LIGHT FIXTURE SCHEDULE UNLESS OTHERWISE NOTED		H		DOOR ACCESS SYSTEM EQUIPMENT - P	ROVIDE BOX AND RACEWAY ONLY (SEE NOTE #6)		
			LIGHT FIXTURES (USE LETTER DESIGNATION ADJACENT TO LIGHT FIXTURE AND LIGHT FIXTURE SCHEDULE TO DETERMINE THE EXACT TYPE OF FIXTURE AND OTHER CHARACTERISTICS)				"CR" INDICATES CARD READER "DC" INDICATES DOOR CONTACT "EL" INDICATES ELECTRIC LATCH "ES" INDICATES ELECTRIC STRIKE "RE" INDICATES REQUEST TO EXIT			
		· ·				(S) ^b	SMOKE DETECTOR - WHITE HOUSING			
(•)	├						"H" INDICATES DETECTOR HA "I" INDICATES IONIZATION DE "P" INDICATES PHOTOELECTE "D" INDICATES DUCT SMOKE "R" INDICATES FAN/DAMPER (ETECTOR TYPE. RIC DETECTOR TYPE. DETECTOR TYPE.		
					P		FIRE ALARM MANUAL PULL STATION -	RED HOUSING W/ "FIRE" CLEARLY LABELED ON DEVICE.		
	a <i>-</i> (∕)-		SWITCH, SUBSCRIPT INDICATES FIXTURES THAT SWITCH CONTROLS SINGLE-POLE WALL SWITCH (SEE NOTE #3)		HEX ₁₁₀	110	FIRE ALARM HORN & STROBE DEVICE -	XENON FLASH TUBE TYPE W/ CLEAR COLORED LENSE. WHITE HOUSING W/ "FIRE" CLEARLY LABELED ON DEVICE		
	⊕ ^m		THREE-WAY WALL SWITCH (SEE NOTE #3)		т.			SUBSCRIPT INDICATES ACTUAL CANDELA RATING, NO SUBSCRIPT INDICATES A 75cd CANDELA RATING		
	₩4		FOUR-WAY WALL SWITCH (SEE NOTE #3)		× 110	≯ 110	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		<u> </u>
	$\longleftrightarrow^{\mathbf{\Omega}}$		0-10V DIMMER WALL SWITCH (REFER TO SPECIFICATION SECTION 260923, SEE NOTE #3)			⊕ _E	HEAT DETECTOR - WHITE HOUSING	NO SUBSCRIPT INDICATES A 7500 CANDELA RATING	CN	
	\leftrightarrow		LOW VOLTAGE SINGLE-SCENE W/ RAISE-LOWER DIMMING WALL STATION (REFER TO SPECIFICATION SECTION 260934, SEE NOTE #3)			F	NO SUBSCRIPT INDICATES A T "R/F" INDICATES COMBINATION "R/C" INDICATES RATE COMPE	N OF RATE OF RISE AND FIXED TEMPERATURE DETECTOR T	YPE.	
	- (-) -		LOW VOLTAGE FOUR-SCENE W/ RAISE-LOWER DIMMING WALL STATION (REFER TO SPECIFICATION SECTION 260934, SEE NOTE #3)				"F" INDICATES FIXED TEMPERA "R" INDICATES RATE OF RISE I	ATURE DETECTOR TYPE.		
	R2		LIGHTING CONTROL TWO-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)			5- ∳ -5	FLOW TYPE SPRINKLER SWITCH MONIT	TOR		
	-↔ AR		LIGHTING CONTROL FOUR-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)			r L	TAMPER TYPE SPRINKLER SWITCH MO	NITOR		
	- (/) -		LIGHTING CONTROL OVERRIDE TWO-BUTTON WALL STATION (REFER TO SPECIFICATION SECTION 260944, SEE NOTE #3)		(R)		FIRE ALARM RELAY			
	↔ ⊢		DIGITAL TIMER WALL SWITCH		<u>M</u> >		FIRE ALARM MONITOR MODULE			
			PROGRAMMABLE FROM 10 MINUTES TO 12 HOURS WITH VISIBLE/AUDIBLE WARNINGS AND TIMED OVERRIDE OPTIONS		ISO		FIRE ALARM ISOLATION MODULE FIRE ALARM REMOTE ALARM INDICATO	nD		
	(0		(REFER TO SPECIFICATION SECTION 260923, SEE NOTE #3)			A H	FIRE ALARM SPRINKLER BELL	· ·		
	- < > 0		LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, SINGLE RELAY (REFER TO SPECIFICATION SECTION 260923)			÷V	TINE ALL MAN OF MINICENEEL			
			LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, DUAL RELAY (REFER TO SPECIFICATION SECTION 260923)	<u>LEGEN</u>	ND NOTES:					DRAWI
	OSD		LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH, DIMMING	1. MOUNT AT 20" AFF TO	O TOP, UON. ADJUST TO I	MATCH MASONRY COU	JRSES IF APPLICABLE. MOUNT ALL BOXES T	RUE AND PLUMB.	E001	ELECTRICAL
	⊕ ^{OS} a		(REFER TO SPECIFICATION SECTION 260923) LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WITH				E TO TOP OF BOX, UON. REFER TO ARCHITE PLUMB. BOXES FOR DEVICES ON OPPOSIT		E011 E012 E101	ELECTRICAL : ELECTRICAL : FIRST FLOOR
			POWER PACK/RELAY. SUBSCRIPT INDICATES FIXTURES THE OCCUPANCY SENSOR CONTROLS.	3. MOUNT 48" AFF TO TO	OP. ADJUST TO MATCH M	ASONRY COURSES IF	APPLICABLE. MOUNT ALL BOXES TRUE AND	PLUMB.	E101A E101B	FIRST FLOOR FIRST FLOOR
	D 0		(REFER TO SPECIFICATION SECTION 260923)	4. MOUNT ALL PULL STA	ATIONS 48" AFF TO TOP. A	L HORN/STROBES, ST	TROBES, AND REMOTE ALARM INDICATORS	SHALL BE CEILING MOUNTED, UON. WHERE	E201	FIRST FLOOR

LOW VOLTAGE CEILING MOUNTED DAYLIGHT HARVESTING SENSOR WITH

"GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE.

FURNISHED UNDER DIVISION 23 WORK INSTALLED UNDER DIVISION 26 WORK

POWER PACK/RELAY. SUBSCRIPT INDICATES FIXTURES THE

"AC" INDICATES ABOVE COUNTER (SEE NOTE #2).

"WP" INDICATES WATERPROOF RECEPTACLE.

SPECIAL PURPOSE SIMPLEX RECEPTACLE (SEE NOTE #1)

DISCONNECT SWITCH - BY DIVISION 26 CONTRACTOR

A = NUMBER OF POLES, B = FUSE RATING, C = SWITCH RATING

4-POST FLOOR MOUNTED EQUIPMENT RACK - SEE DETAILS

DATA CONDUIT FROM BOX TO BOX. REFER TO TELECOM DETAILS.

DATA CONDUIT FROM BOX TO BOX. REFER TO TELECOM DETAILS.

PORT DATA OUTLET WITH DEVICE PLATE AND TWO (2) DOUBLE-GANG

RECESSED AUDIOVISUAL WALL BOX. REFER TO ELECTRICAL DETAILS.

ONE (1) 3/4"C FROM POWER COMPARTMENT, ONE (1) 1-1/4"C FROM DATA

RECESSED ACTIVATION FLOOR BOX WITH QUADRAPLEX RECEPTACLE WITH DEVICE

PLATE AND ONE (1) 4-PORT DATA OUTLET WITH DEVICE PLATE. PROVIDE ONE (1) 1"C

FROM POWER COMPARTMENT AND ONE (1) 1-1/4"C FROM DATA COMPARTMENT TO

ABOVE ACCESSIBLE CEILING IN CORRIDOR. RECEPTACLE CONDUIT FOR COMMON

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 A/V COMPARTMENTS.

PROVIDE ONE (1) 1"C FROM POWER COMPARTMENT, ONE (1) 1-1/4"C FROM DATA

COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR AND TWO (2) 1-1/2"C

FROM AN COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN ROOM. DO NOT LOOP

RECESSED WALL BOX WITH DUPLEX RECEPTACLE WITH DEVICE PLATE, ONE (1) 2-

COMPARTMENTS WITH BLANK COVERPLATES FOR AV COMPARTMENTS. PROVIDE

COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN CORRIDOR AND TWO (2) 1-1/2"C

FROM A/V COMPARTMENT TO ABOVE ACCESSIBLE CEILING IN ROOM, UON. REFER

CIRCUITED FLOOR BOXES SHALL BE ROUTED FROM BOX TO BOX. DO NOT LOOP

DAYLIGHT HARVESTING SENSOR CONTROLS.

(REFER TO SPECIFICATION SECTION 260923)

"USB" INDICATES USB RECEPTACLE.

QUADRAPLEX RECEPTACLE (SEE NOTE #1)

SAFETY SWITCH

JUNCTION BOX

⊕▼ _{FB1}

▽▼⊕ WB1 / WB2 / WB3

AVB

EQUIPMENT CONNECTION

TO TELECOM DETAILS.

MOTOR-RATED SNAP SWITCH

FURNISHED UNDER DIVISION 23 WORK

INSTALLED UNDER DIVISION 26 WORK

208Y/120V SURFACE MOUNTED PANELBOARD

208Y/120V FLUSH MOUNTED PANELBOARD

DUPLEX RECEPTACLE (SEE NOTE #1)

- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.

ELECTRICAL SYSTEMS AND EQUIPMENT

Prescriptive:

Prescriptive:

total interior wattage specified vs. allowed (space by space)

total exterior wattage specified vs. allowed

506.2.1 More Efficient Mechanical Equipment

506.2.3 Energy Recovery Ventilation Systems

506.2.5 On-site Supply of Renewable Energy

506.2.6 Automatic Daylighting Control Systems

State Building Code: Energy Conservation Code, Chapter 5.

506.2.4 Higher Efficiency Service Water Heating

X 506.2.2 Reduced Lighting Power Density

Additional Prescriptive Compliance

Designer Statement

Allowed:

Specified:

Allowed:

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

Energy Code:

ASHRAE 90.1:

Lighting Schedule

Lamp type required in fixture

Number of lamps in fixture

Ballast type used in fixture

Total wattage per fixture

Number of ballasts in fixture

METHOD OF COMPLIANCE

8. 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.

Performance:

Performance:

(not applicable)

(not applicable)

(not applicable)

(not applicable)

(not applicable)

see lighting fixture schedule

see lighting fixture schedule

see lighting fixture schedule

see lighting fixture schedule

- see lighting fixture schedule

12.90 KW

12.96 KW

1.45 KW

DRAWING LIST - ELECTRICAL

- ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES ELECTRICAL UTILITY SITE PLAN ELECTRICAL SITE LIGHTING PLAN
- E101 FIRST FLOOR PLAN LIGHTING (ALTERNATE #1)
 E101B FIRST FLOOR PLAN LIGHTING (ALTERNATE #2)
- E201 FIRST FLOOR PLAN POWER (ALTERNATE #1)
 E201B FIRST FLOOR PLAN POWER (ALTERNATE #2)
- E211 ROOF PLAN POWER
 E211A ROOF PLAN POWER (ALTERNATE #1)
- E211B ROOF PLAN POWER (ALTERNATE #2)
 E501 ELECTRICAL RISER DIAGRAM
 E502 TELECOM RISER DIAGRAM
- E601 PANEL SCHEDULES
 E602 LIGHTING FIXTURE SCHEDULE

E503 FIRE ALARM RISER DIAGRAM

- E701 ELECTRICAL DETAILS
- E702 ELECTRICAL DETAILS
 E703 ELECTRICAL DETAILS
- Grand total: 20

ELECTRICAL ABBREVIATIONS:

	Α	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
	С	CONDUIT	NCFPC	NORTH CAROLINA FIRE PROTECTION COD
	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
	G	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:

- G1: 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.
- G2: DO NOT COVER UP CONSTRUCTION UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER AND THE ELECTRICAL INSPECTOR.
- G3: 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.
- G4: 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.
- G5: 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.
- G6: 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.
- G7: PRIOR TO ROUGH-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.
- G8: 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.
- G9: LOCATION OF ALL FLOOR-MOUNTED DEVICES OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- G10: 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.
- G11: 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.
- G12: RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- G13: 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:
- A) 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.
- B) 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
- C) THE USE OF MULTIPOLE BREAKERS TO SERVE MULTIWIRE BRANCH CIRCUITS IS NOT ALLOWED.
- D) BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
- E) A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
- G14: COORDINATE LOCATIONS OF ALL RATED WALL ASSEMBLIES WITH THE ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.
- G15: DEVICES REQUIRED TO BE ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1

<u>LIGHTING:</u>

- L1: FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN .
- L2: 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
- L3: 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.

DIRECTLY TO STRUCTURE OR CEILING.

POWER:

- P1: BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED. CONDUCTOR AND RACEWAY SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.
- P2: 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.
- P3: TELECOM/CATV OUTLET INDICATED TO BE MOUNTED ADJACENT TO A RECEPTACLE SHALL BE MOUNTED WITHIN 6" CENTER-TO-CENTER.
- P4: ALL FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM 4" HOUSEKEEPING PAD WITH CHAMFERED EDGES.

TELECOM:

- S1: 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 TERMINATED WITH AN INSULATED THROAT BUSHING.
- S2: ALL TELECOM CABLES SHALL NOT EXCEED 295 FEET IN LENGTH AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- S3: 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.
- S4: ALL FIBER OPTIC AND TELECOM CABLING SHALL BE TESTED AND TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.

- S5: FIBER OPTIC AND TELECOM CABLING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND
- EIA/TIA STANDARDS.

 S6: TELECOM CABLING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING

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DATE AUGUST 14, 2017

PROJECT PINE VALLEY BRANCH

DEI PROJECT# 50090277

SCO ID# -

ELECTRICAL
SYMBOLS,
ABBREVIATIONS &

DRAWING NUMBER

E001

NOTES

EXISTING TELECOM EXISTING UTILITY TRANSFORMER √ BACKFLOW - BACKFLOW PREVENTERS PREVENTER BACKFLOW -PREVENTERS $-w^{\perp} - - - w^{\perp} - - - w^{\perp} - w^{$ — UGP ——— UGP ——— UGP ——— UGP ———— EXISTING UTILITY TRANSFORMERS DUPLEX GRINDER -PUMP STATION EXISTING WELL REFER TO EQUIPMENT— RACK DETAIL, THIS SHEET RACK DETAIL, THIS SHEET L ELECTRICAL ROOM

1 ELECTRICAL UTILITY SITE PLAN

Scale: 1" = 20'-0"

GENERAL NOTES:

- 1. CONTRACTOR SHALL VERIFY AND LOCATE ALL UTILITIES SHOWN PRIOR TO DIGGING ON SITE.
- 2. COORDINATE SITE ELECTRICAL WORK WITH DUKE ENERGY PROGRESS PRIOR TO INSTALLATION. DUKE ENERGY CONTACT IS ALLISON WALSH (910) 350-3460.
- 3. ALL UTILITY WORK SHALL BE COORDINATED WITH SERVICE PROVIDERS PRIOR TO BEGINNING ANY WORK.

KEY NOTES:

- 1) 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.
- 3 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 3#8, #10G IN 1"C. COORDINATE EXACT LOCATION WITH CIVIL
- 6 COORDINATE SECONDARY SERVICE ENTRANCE FEEDER ROUTING WITH OTHER UTILITIES. REFER TO CIVIL DRAWINGS FOR UNDERGROUND
- 7 PROVIDE HANDHOLE TELECOM SERVICE POINT. COORDINATE EXACT LOCATION OF HAND HOLE WITH TELCOM PROVIDER.

ELECTRICAL SITE LEGEND:

----- UGP ----- UNGERGROUND PRIMARY ---- UGS ---- UNDER GROUND SECONDARY ----- UNDER GROUND TELECOM

HAND HOLE

 TYPICAL VERTICAL SUPPORT.
 MINIMUM OF TWO PER RACK. 30A, 208V, 3P DISCONNECT -1 5/8" x 3 1/4" CHANNEL. SWITCH FUSED AT 30A DISCONNECT SWITCH IN -NEMA 4 ENCLOSURE TYPICAL HORIZONTAL SUPPORT.
MINIMUM OF TWO PER RACK.
SPACED AS REQUIRED BY
EQUIPMENT MOUNTING HOLES. 1 5/8" SQ. SLOTTED CHANNEL. - CONCRETE BASE, (TYP.). PROVIDE WITH 1" CHAMFERED EDGE. 4000 PSI AT 28 DAYS.

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

2 EQUIPMENT RACK DETAIL



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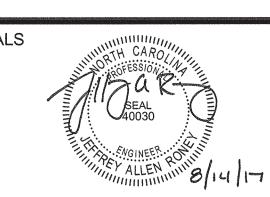
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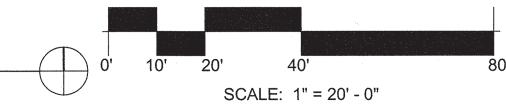
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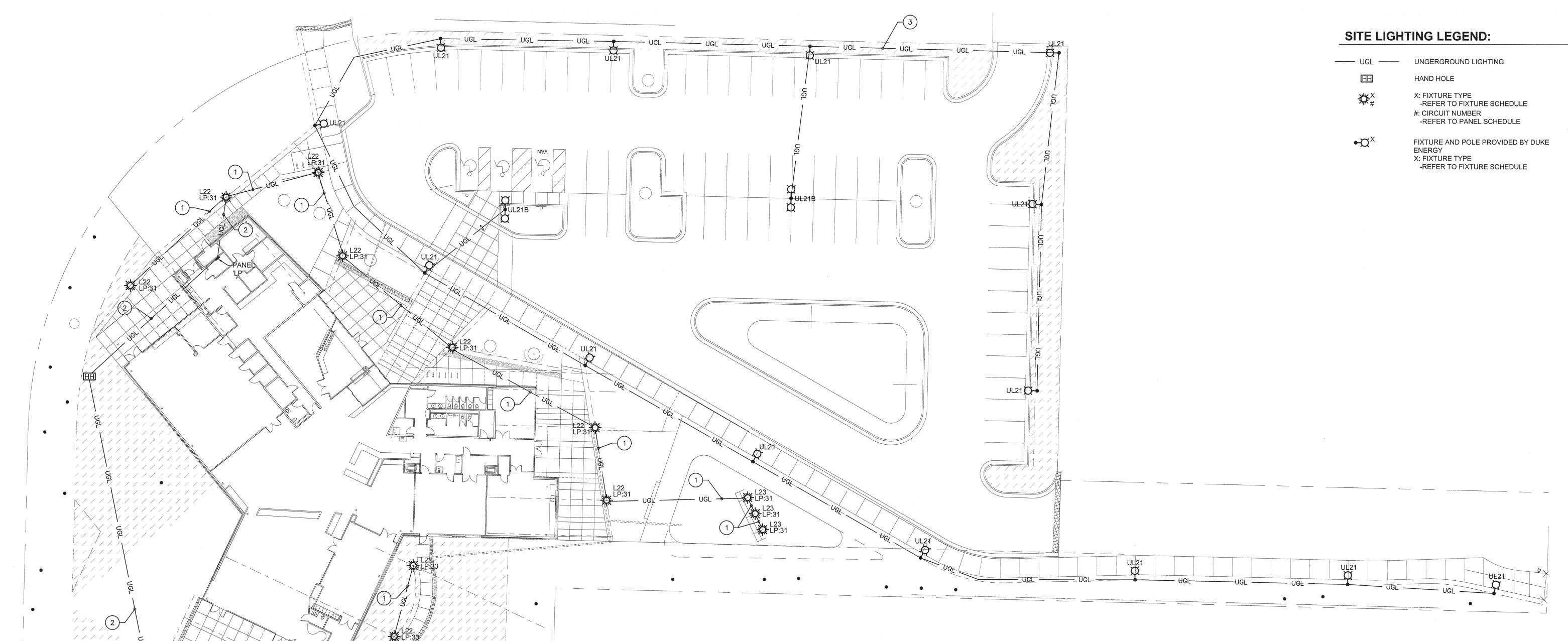
PROJECT PINE VALLEY BRANCH DEI PROJECT# 50090277 SCO ID#

DRAWING TITLE

ELECTRICAL UTILITY SITE PLAN

DRAWING NUMBER





- 1. CONTRACTOR SHALL VERIFY AND LOCATE ALL UTILITIES WITH CIVIL DRAWINGS PRIOR TO DIGGING ON SITE.
- 2. COORDINATE SITE ELECTRICAL WORK WITH DUKE ENERGY PROGRESS PRIOR TO INSTALLATION. DUKE ENERGY CONTACT IS ALLISON WALSH (910) 350-3460.
- 3. ALL UTILITY WORK SHALL BE COORDINATED WITH SERVICE PROVIDERS PRIOR TO BEGINNING ANY WORK.
- 4. 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'.
- 5. 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:

1) PROVIDE 2#10, #10G IN 1"C.

(2) PROVIDE 2#8, #10G IN 1"C.

3 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.

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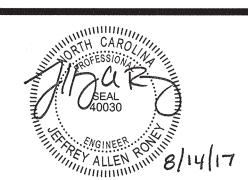
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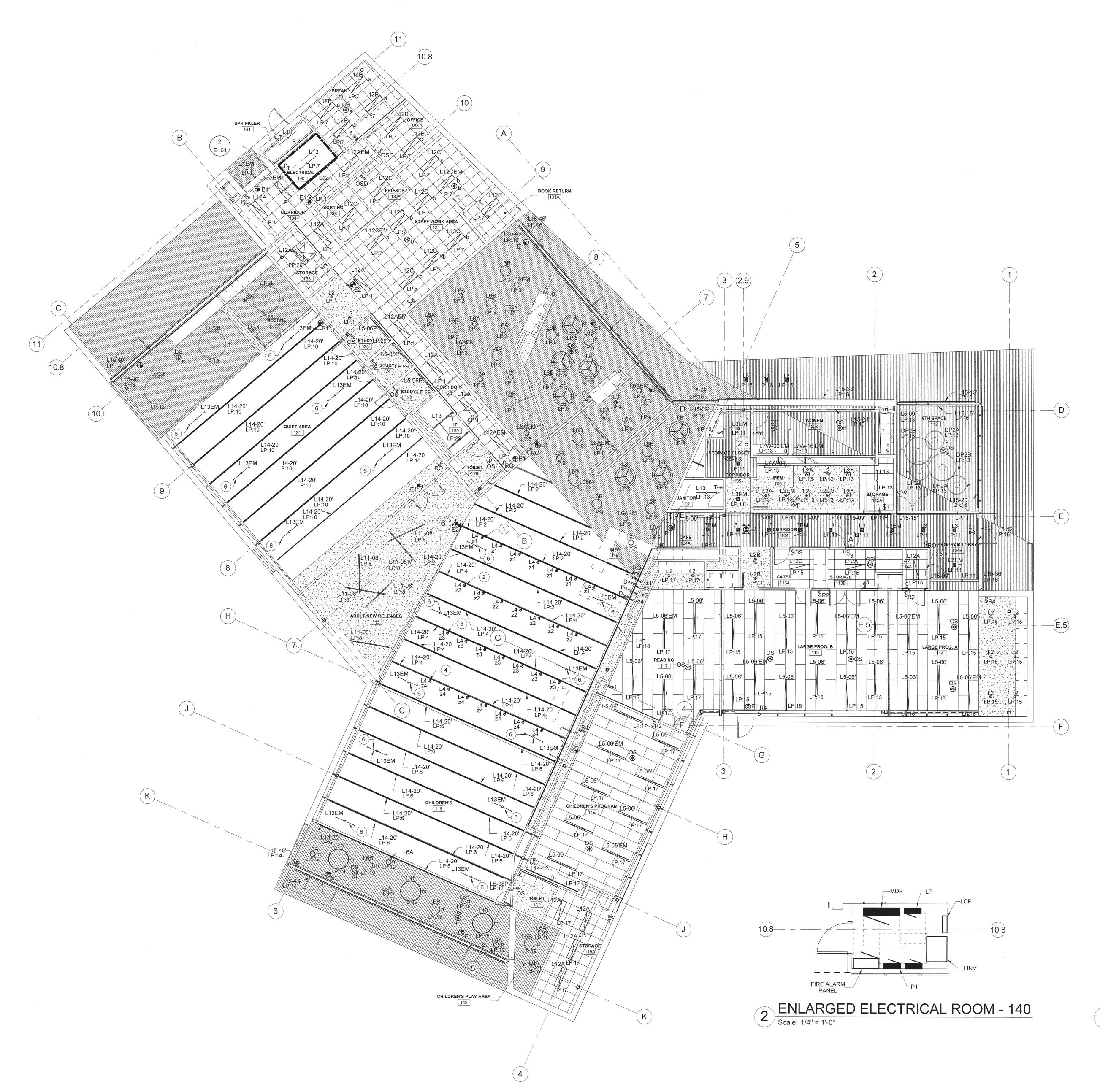
ELECTRICAL LIGHTING SITE PLAN

SCALE: 1" = 20' - 0"

111111111 /////////// X///////

E012

DRAWING NUMBER



- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LAYOUT.
- 2. ALL INTERIOR EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL BE CONNECTED TO EMERGENCY UNSWITCHED CIRCUIT "INV-1". PROVIDE AN EMERGENCY TRANSFER DEVICE TO SWITCH FIXTURES FROM NORMAL SWITCHED CIRCUIT TO EMERGENCY UNSWITCHED CIRCUIT, UPON LOSS OF NORMAL POWER. LOCATE TRANSFER DEVICES ADJACENT TO LIGHTING CONTROL PANEL 'LCP' IN ELECTRICAL ROOM 140. EMERGENCY LIGHTING FIXTURES SHALL OPERATE AND FUNCTION WITH OTHER LIGHTING FIXTURES IN EACH SPACE DURING NORMAL OPERATION AS INDICATED ON PLAN.
- 3. EMERGENCY LIGHTING FIXTURES ARE DESIGNATED WITH THE SUFFIX
- 4. LOCATE REMOTE DRIVERS AND POWER PACKS INDOORS AND ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
- 5. ALL TRACK LIGHTING SHALL BE PROVIDED WITH A 150VA CURRENT LIMITING DEVICE. CALCULATIONS FOR EACH TRACK IS BASED ON THIS DEVICE OUTPUT.
- 6. REFER TO LIGHTING CONTROL PANEL SUMMARY FOR CIRCUITS THAT ARE TO BE CONTROLLED THRU RELAY.

KEYED NOTES:

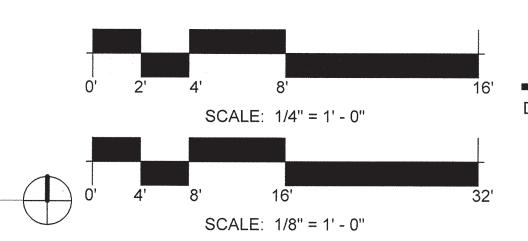
- 1 ALL TRACK HEAD LIGHTING ON THIS ROW SHALL BE CONNECTED TO CIRCUIT "LP:21".
- 2 ALL TRACK HEAD LIGHTING ON THIS ROW SHALL BE CONNECTED TO CIRCUIT "LP:23".
- 3 ALL TRACK HEAD LIGHTING ON THIS ROW SHALL BE CONNECTED TO CIRCUIT "LP:25".
- 4 ALL TRACK HEAD LIGHTING ON THIS ROW SHALL BE
- CONNECTED TO CIRCUIT "LP:27".

 5 MOUNT DIMMING SYSTEM DIGITAL BUS POWER SUPPLY 48"
- 6 FIXTURE SHALL BE USED FOR EMERGENCY EGRESS LIGHTING ONLY. CONNECT FIXTURE TO EMERGENCY LIGHTING CIRCUIT "INV-4". FIXTURE SHALL BE MOUNTED FLUSH WITH THE ABOVE CEILING AND SHALL BE PAINTED TO MATCH THE COLOR OF THE ABOVE CEILING. COORDINATE ABOVE CEILING PAINT COLOR WITH

ARCHITECTURAL DRAWINGS.

	LIGHTING	CONTROL PANEL SUMMARY 'LCP'
RELAY	CIRCUIT CONTROLLED	LOAD SERVED
1	LP:14	EXTERIOR PATIO
2	LP:16	EXTERIOR BUILDING
3	LP:31	EXTERIOR POLE LIGHTS
4	LP:33	EXTERIOR POLÉ LIGHTS
5	LP:1	CORRIDOR 128,134
6	LP:10	QUIET AREA 121
7	LP:11	CORRIDOR 104, 104B, 105
8	LP:9	VESTIBULE 101, LOBBY 102, READING 103
9	LP:3	TEEN 127
10	LP:2	ADULT/NEW RELEASES 115
11	LP:4	ADULT/NEW RELEASES 115
12	LP:6	CHILDREN'S 118
13	LP:8	ADULT/NEW RELEASES 115
14	LP:18	ADULT/NEW RELEASES 115
15	LP:21	ADULT/NEW RELEASES 115
16	LP:23	ADULT/NEW RELEASES 115
17	LP:25	ADULT/NEW RELEASES 115
18	LP:27	ADULT/NEW RELEASES 115
19	LP:22	ADULT/NEW RELEASES (ALTERNATE #1 AND #2)
20	-	SPARE
21	-	SPARE
22		SPARE
23		SPARE
24	-	SPARE

3 LIGHTING CONTROL PANEL SUMMARY Scale: NOT TO SCALE





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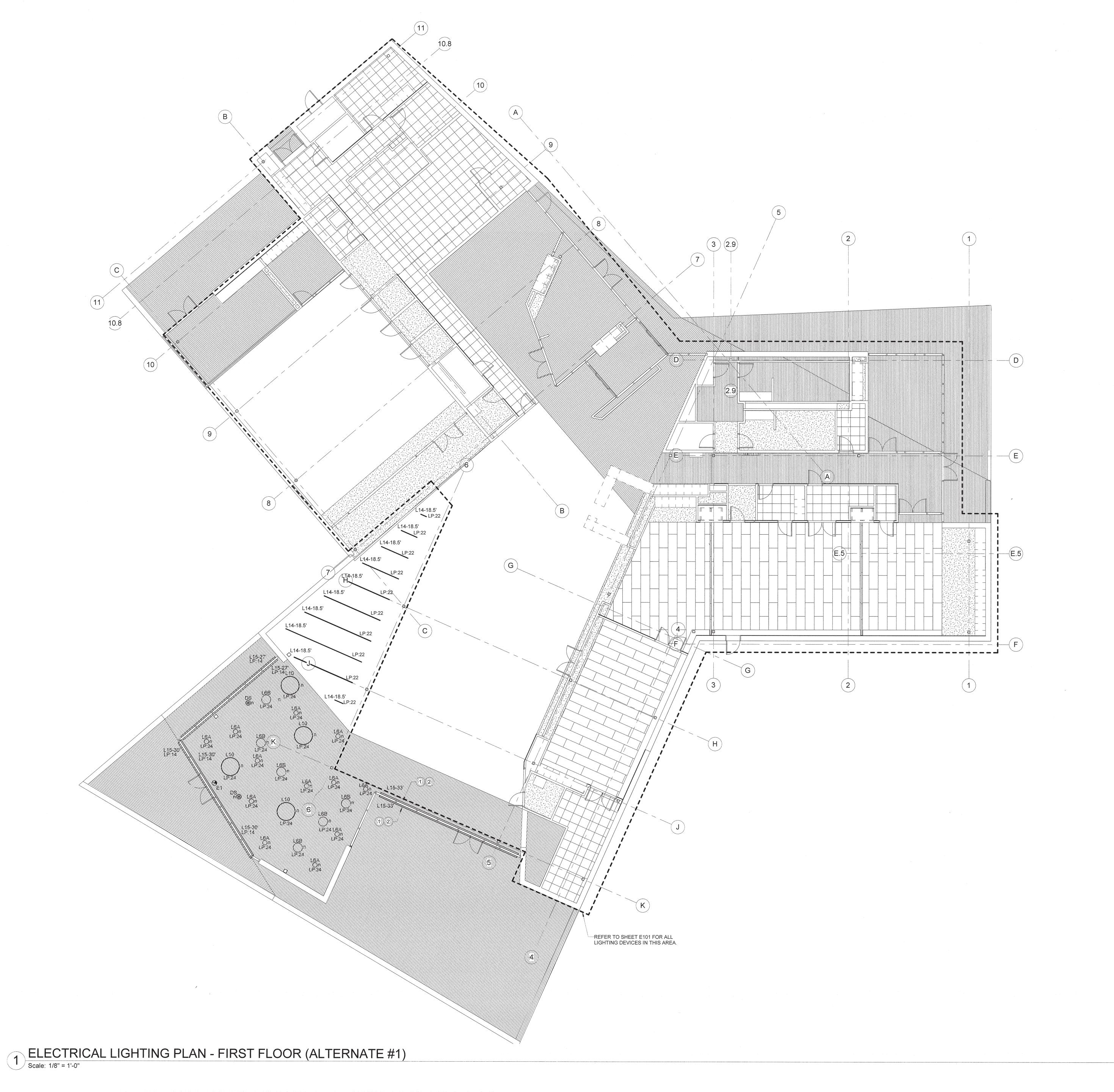
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SCO ID# -

DRAWING TITLE

FIRST FLOOR PLAN - LIGHTING

DRAWING NUMBER



REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LAYOUT.

- ALL INTERIOR EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL BE CONNECTED TO EMERGENCY UNSWITCHED CIRCUIT "INV-1". PROVIDE AN EMERGENCY TRANSFER DEVICE TO SWITCH FIXTURES FROM NORMAL SWITCHED CIRCUIT TO EMERGENCY UNSWITCHED CIRCUIT, UPON LOSS OF NORMAL POWER. LOCATE TRANSFER DEVICES ADJACENT TO LIGHTING CONTROL PANEL 'LCP' IN ELECTRICAL ROOM 140. EMERGENCY LIGHTING FIXTURES SHALL OPERATE AND FUNCTION WITH OTHER LIGHTING FIXTURES IN EACH SPACE DURING NORMAL OPERATION AS INDICATED ON PLAN.
- 3. EMERGENCY LIGHTING FIXTURES ARE DESIGNATED WITH THE SUFFIX
- 4. LOCATE REMOTE DRIVERS AND POWER PACKS INDOORS AND ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

KEYED NOTES:

- 1 LIGHT FIXTURE SHALL BE CONNECTED TO THE DAYLIGHT HARVESTING SENSOR DENOTED WITH THE LETTER "M" SHOWN ON SHEET E101.
- 2 LIGHT FIXTURE SHALL BE CONNECTED TO PANEL 'LP' CIRCUIT "14". REFER TO SHEET E101 FOR REMAINING LIGHT FIXTURES SERVED BY CIRCUIT "LP:14".



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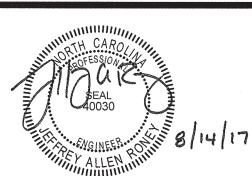
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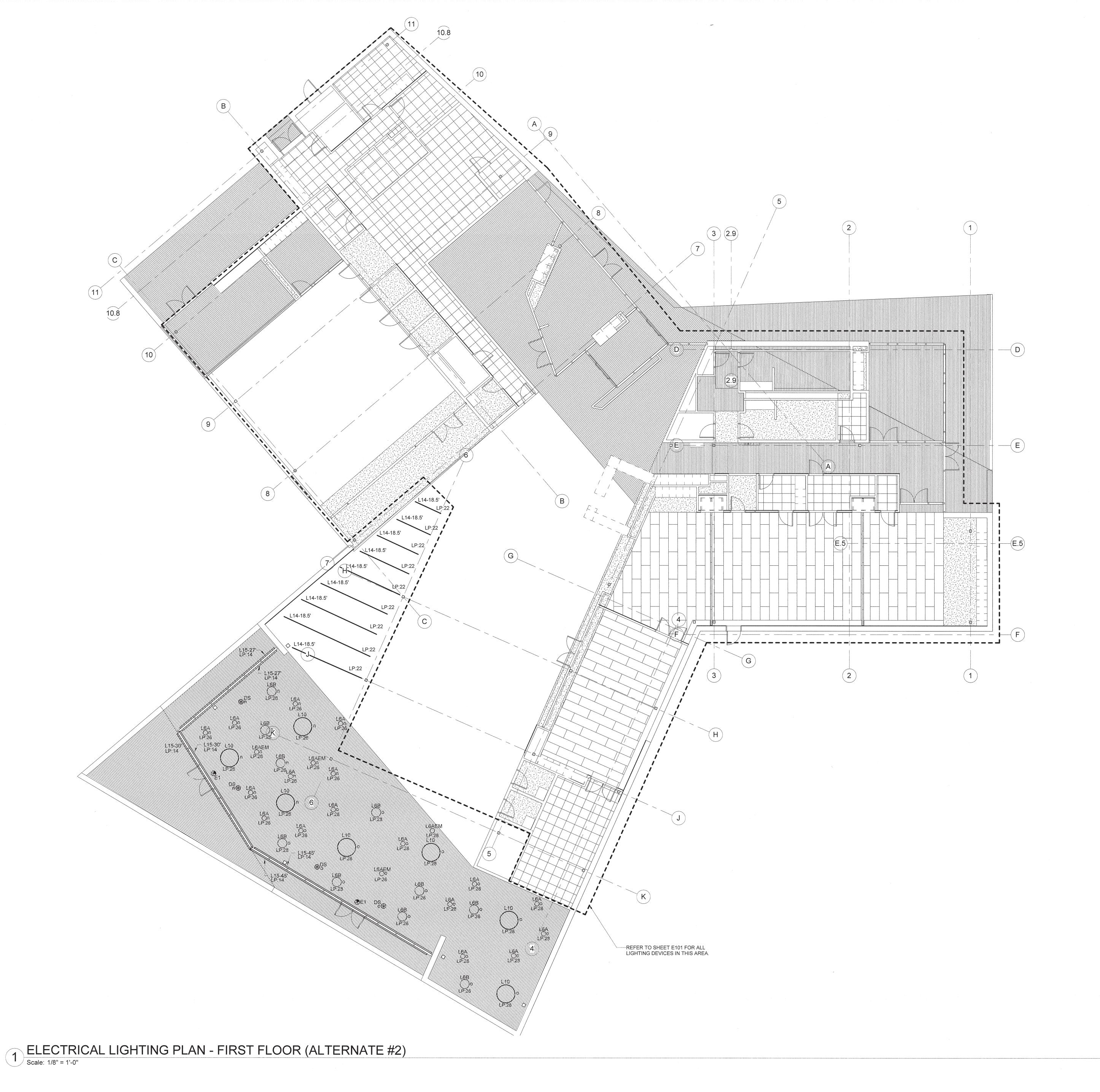
DRAWING TITLE

FIRST FLOOR PLAN - LIGHTING (ALTERNATE #1)

DRAWING NUMBER

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

E101A



- REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LAYOUT.
- 2. ALL INTERIOR EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL BE CONNECTED TO EMERGENCY UNSWITCHED CIRCUIT "INV-1". PROVIDE AN EMERGENCY TRANSFER DEVICE TO SWITCH FIXTURES FROM NORMAL SWITCHED CIRCUIT TO EMERGENCY UNSWITCHED CIRCUIT, UPON LOSS OF NORMAL POWER. LOCATE TRANSFER DEVICES ADJACENT TO LIGHTING CONTROL PANEL 'LCP' IN ELECTRICAL ROOM 140. EMERGENCY LIGHTING FIXTURES SHALL OPERATE AND FUNCTION WITH OTHER LIGHTING FIXTURES IN EACH SPACE DURING NORMAL OPERATION AS INDICATED ON PLAN.
- 3. EMERGENCY LIGHTING FIXTURES ARE DESIGNATED WITH THE SUFFIX
- 4. LOCATE REMOTE DRIVERS AND POWER PACKS INDOORS AND ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE LOCATION WITH ENGINEER PRIOR TO INSTALLATION.



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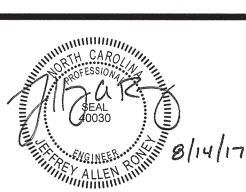
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DRAWING TITLI

FIRST FLOOR PLAN
- LIGHTING
(ALTERNATE #2)

DRAWING NUMBER

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

E101B

CONNECTIONS. MATCH PLUGS ON EQUIPMENT FURNISHED. 4. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK ELEVATIONS. 5. COORDINATE EXACT LOCATION OF ALL FLOOR BOXES PER 6. CONTRACTOR SHALL NOT MOUNT DEVICES IN SPACES DESIGNATED FOR FUTURE EQUIPMENT. SPRINKLER BELI LOCATIONS. POINTS BASED UPON A MAXIMUM OF 50' RADIUS WITH PRIOR TO ROUGH-IN. 9. IF MOTORIZED WINDOW SHADE ALTERNATE IS ACCEPTED, PROVIDE WIRING DIAGRAMS FOR INSTALLATION. BOOK RETURN 10.8 STORAGE CLOSET P2A:19 FB1 FB1 FB1 FB1 2:25 LARGE PROB B 7----**■▼** FB1 → 13 → **■▼** FB1 → 13 → **■▼**P2**A**:9 **■▼** P2**A**:9 CHILDREN'S PROGRAM

FIRE ALARM_ PANEL

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

2 ENLARGED ELECTRICAL ROOM 140

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
- 3. VERIFY AND PROVIDE NEMA CONFIGURATION OF RECEPTACLES TO
- DIMENSIONED DRAWINGS PROVIDED BY FURNITURE VENDOR PRIOR
- 7. REFER TO ROOF POWER PLAN FOR ROOFTOP FIRE ALARM DEVICE
- 8. GENERAL ZONE OF PLANNED COVERAGE FOR WIRELESS ACCESS APPROXIMATELY ONE THIRD OVERLAP. COORDINATE ACTUAL FINAL DEVICE LOCATIONS WITH NEW HANOVER COUNTY ITS DEPARTMENT
- SINGLE GANG ROUGH-IN IN EACH SPACE FOR CONTROLLER. CONNECT MOTOR TO ROOM RECEPTACLE CIRCUIT. REFER TO
- 8 ROUTE 3/4"C CONDUIT UNDERNEATH COUNTERTOP.

3 PROVIDE CAT6 CABLE FROM IT ROOM TO JUNCTION BOX

FOR WIRELESS ACCESS POINT, CONTRACTOR SHALL

EXACT LOCATION WITH SECURITY REPRESENTATIVE

5 PROVIDE 2#12, #12G IN 3/4"C FROM CONDENSING UNIT

6 ONE (1) NEMA L6-20 RECEPTACLE MOUNTED AT TOP OF

CABLE RUNWAY. TYPICAL FOR EACH RACK.

SPARE. REFER TO VOICE/DATA RACEWAY

INFRASTRUCTURE RISER DIAGRAM.

RACK AND ONE (1) DUPLEX RECEPTACLE MOUNTED AT

PROVIDE THREE (3) 4" CONDUITS WITH 3-CELL FABRIC

VAULT VIA DUCTBANK. TURN UP CONDUITS 6" ABOVE

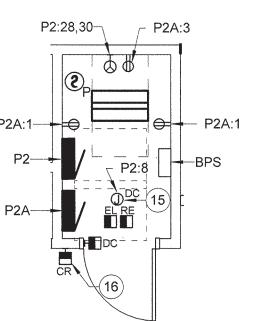
INNERDUCT AND PULL WIRE FROM EXISTING TELECOM

FINISHED FLOOR. CAP AND LABEL UNUSED CONDUITS AS

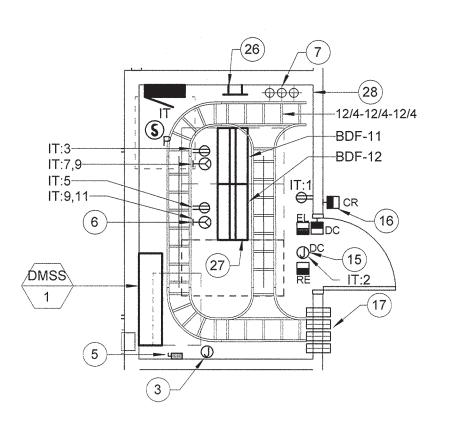
4 PROVIDE 120V CIRCUIT FOR SECURITY GATE. COORDINATE

PROVIDE 10' OF SLACK AT EACH LOCATION.

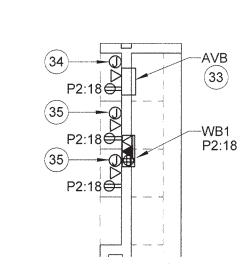
- 9 PROVIDE A FINISHED SINGLE GANG JUNCTION BOX MOUNTED AT 50" AFF. PROVIDE 1"C FROM WALL JUNCTION BOX TO THE AV OUTLET IN THE WALL BOX.
- 10 ELECTRICAL DEVICES LOCATED IN THIS AREA ARE FOR THE BASE BID ONLY. IF AN ALTERNATE BID IS ACCEPTED, THE CIRCUITS SERVING THE ELECTRICAL DEVICES SHALL BE LABELED AS "SPARE".
- 11 PULL STATION IS FOR BASE BID ONLY.
- 12 PROVIDE 208V, 1PH, 30A CIRCUIT FROM PANEL 'P1' TO EXISTING WELL PUMP. REFER TO THE ELECTRICAL SITE PLAN FOR FEEDER ROUTING AND SIZE.
- 13 PROVIDE JUNCTION BOX AND BRANCH CIRCUIT WIRING FOR SYSTEMS FURNITURE.
- 14 PROVIDE TELECOMMUNICATIONS JUNCTION BOX FOR SYSTEMS FURNITURE. STUB UP TWO (2) 1-1/2"C WITH PULL STRING TO ABOVE NEAREST ABOVE NEAREST ACCESSIBLE CEILING, PROVIDE TWO (2) DATA DROPS PER DESK. COORDINATE WITH NEW HANOVER COUNTY ITS PRIOR TO ROUGH-IN.



ENLARGED AV ROOM 114A



ENLARGED IT ROOM 130 Scale: 1/4" = 1'-0"



5 ENLARGED CASEWORK ROOM 127
Scale: 1/4" = 1'-0"

1 PROVIDE 120V CIRCUIT TO END CASE OF BOOK STACK. ROUTE CONDUIT FROM NEAREST WALL UNDER SLAB TO LOCATION.

KEYED NOTES:

LOCATION.

PRIOR TO ROUGH-IN.

(CU-1) LOCATED ON THE ROOF.

- 16 FUTURE CARD READER SYSTEM, PROVIDE BOXES AND 2 PROVIDE (1) CAT6 CABLE FROM IT ROOM TO JUNCTION BOX FOR PA SYSTEM. PA SYSTEM PROVIDED BY OWNER. RACEWAY ONLY. PROVIDE STAINLESS STEEL BLANK CONTRACTOR SHALL PROVIDE 10' OF SLACK AT EACH
 - COVERPLATE AT LOCATION FOR FUTURE CARD READER.

OPERATOR. PROVIDE JUNCTION BOX(ES). WIRING AND CONDUIT PER MANUFACTURER'S RECOMMENDATIONS.

15 AUTOMATIC DOOR OPENER. CONNECT TO DOOR

KEYED NOTES:

- 17 PROVIDE THREE (3) 4" CONDUITS THROUGH CORRIDOR WALL FOR ROUTING OF DATA CABLES DOWN CORRIDOR.
- 18 RECEPTACLE FOR PROJECTOR SHALL BE MOUNTED IN CEILING TILE. COORDINATE EXACT LOCATION OF PROJECTOR WITH SHEET TA111.
- 19 MOTORIZED PROJECTION SCREEN. PROVIDE SNAP SWITCH
- 20 PROVIDE 208V, 1PH, 30A CIRCUIT FROM PANEL 'P1' TO PUMP STATION. REFER TO THE ELECTRICAL SITE PLAN FOR FEEDER ROUTING AND SIZE.

AS A DISCONNECTING MEANS AT THE POINT OF

CONNECTION OF PROJECTOR SCREEN.

21 PROVIDE TWO GANG JUNCTION BOX FOR TECHNOLOGY SCREEN. MOUNT BOX AT 48" AFF AND PROVIDE 1"C TO ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION

WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.

- 22 PROVIDE SINGLE GANG JUNCTION ADJACENT TO THE LIGHT SWITCH AT 48" AFF FOR PROJECTION SCREEN CONTROL SWITCH. ROUTE 3/4"C FROM BOX TO PROJECTOR SCREEN.
- 23 PROVIDE TWO GANG JUNCTION BOX FOR TECHNOLOGY OUTLET. MOUNT ADJACENT TO POWER AND TELECOM OUTLETS ON WALL AT 18" AFF. COORDINATE LOCATION WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
- 24 PROVIDE AV WALL BOX IN BACK OF CASEWORK FOR ROUTING OF TECHNOLOGY CABLING TO RACK. LOCATE POWER AND TELECOM OUTLETS ADJACENT TO BOX. REFER TO ELECTRICAL DETAILS.
- 25 ROUTE (1) AV CONDUIT FROM FLOOR BOX TO WALL BOX AND (1) AV CONDUIT FROM FLOOR BOX TO AV RACK ROOM. PROVIDE PULL STRING IN EACH CONDUIT.
- 26 TELECOMMUNICATIONS GROUNDING BUSBAR.
- 27 PREPARED SPACE FOR FUTURE TELECOM RACK.
- 28 PROVIDE 3/4"AC GRADE PLYWOOD ON ALL WALLS FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR WITHIN THIS AREA INCLUDING ABOVE DOOR FRAME. PLYWOOD SHALL BE PAINTED WITH A MINIMUM THREE (3) COATS OF WHITE FIRE-RETARDANT PAINT.
- 29 MAIN GROUNDING BUSBAR.
- 30 ROUTE (1) AV CONDUIT FROM FLOOR BOX TO FLAT PANEL DISPLAY WALL BOX AND ROUTE (1) AV CONDUIT FROM FLOOR BOX TO AV WALL BOX. PROVIDE PULL STRING IN EACH CONDUIT.
- 31 PROVIDE SINGLE GANG JUNCTION BOX FOR MEDIA CONTROLLER. ROUTE 3/4"C FROM JUNCTION BOX TO WALL BOX. COORDINATE EXACT LOCATION WITH TECHNOLOGY
- 32 RECEPTACLE FOR ELECTRONIC SENSOR FAUCET WITH DISCONNECT POWER FROM ELECTRONIC SENSOR FAUCET. COORDINATE LOCATION OF RECEPTACLE AND TOGGLE SWITCH WITH DIVISION 22 CONTRACTOR.
- 33 PROVIDE AV WALL BOX IN CASE WORK FOR AV RACK. ROUT 1-1/2"C FROM AV WALL BOX TO FLAT PANEL DISPLAY WALL BOX. ROUTE 3/4"C FROM AV WALL BOX TO MEDIA CONTROLLER JUNCTION BOX. ROUTE 1"C FROM AV WALL BOX TO EACH HDMI OUTLET BOX IN CASEWORK.
- 34 PROVIDE SINGLE GANG JUNCTION BOX FOR MEDIA CONTROLLER. COORDINATE EXACT LOCATION WITH TECHNOLOGY DRAWINGS.
- 35 PROVIDE TWO GANG JUNCTION BOX IN CASEWORK ADJACENT TO POWER AND TELECOM OUTLETS FOR HDMI OUTLETS. REFER TO TECHNOLOGY DRAWINGS.
- 36 PROVIDE ONE (1) NEMA L6-20 RECEPTACLE FOR DRYER CONNECTION. PROVIDE 2#12, #10G IN 3/4"C TO PANEL 'P3'.
- 37 PROVIDE RECEPTACLE FOR MICROWAVE. COORDINATE EXACT LOCATION OF MICROWAVE WITH ARCHITECTURAL MILLWORK PRIOR TO ROUGH-IN. RECEPTACLE SHALL BE CONCEALED BEHIND THE EQUIPMENT.
- 38 PROVIDE 120V CIRCUIT FOR FIRE ALARM SPRINKLER BELL. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR LOCATION OF SPRINKLER BELL.



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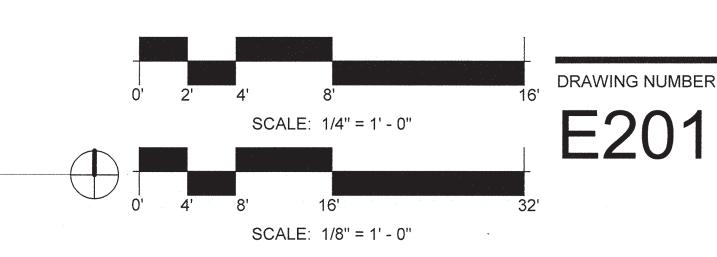
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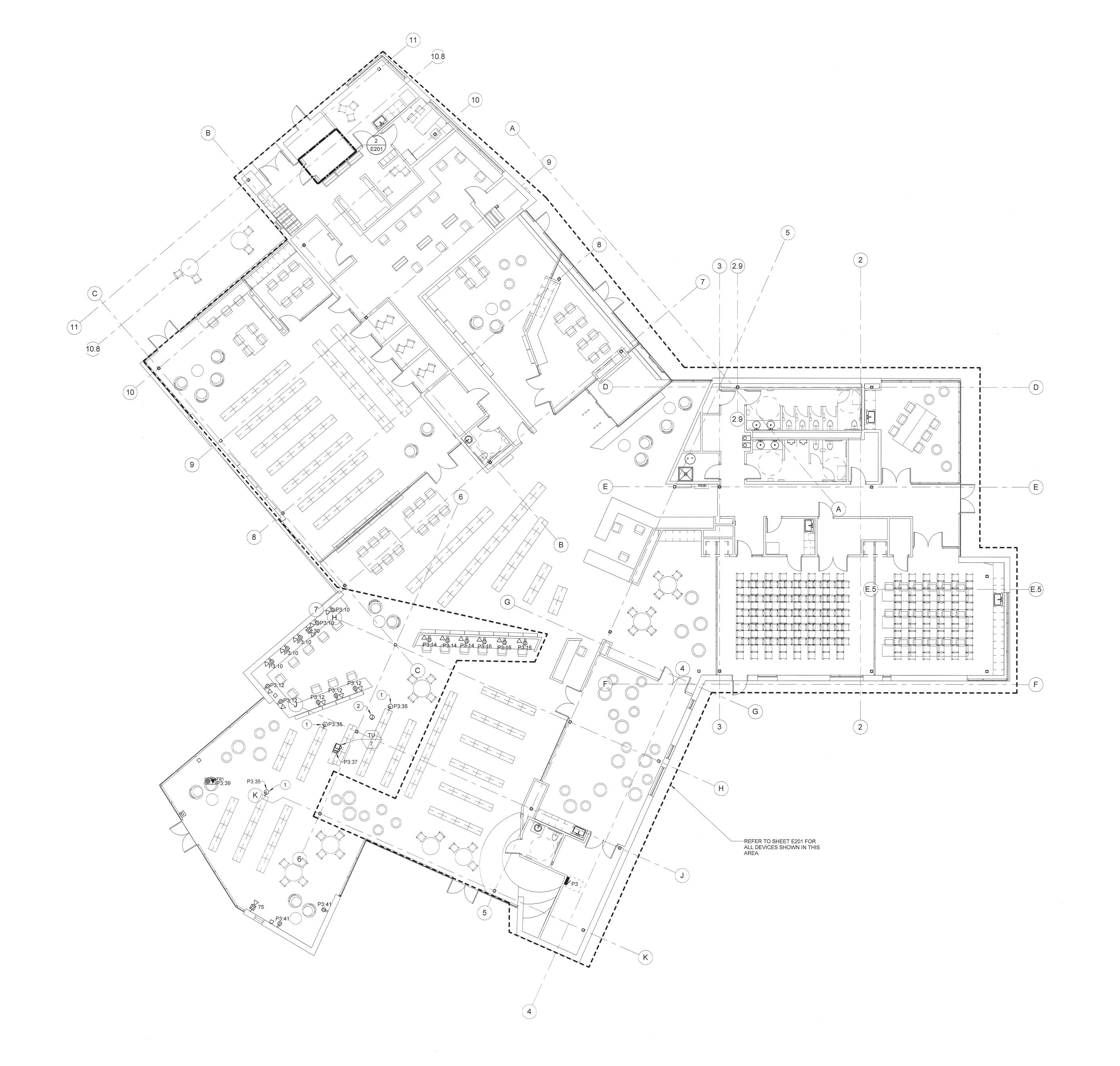
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DRAWING TITLE

FIRST FLOOR PLAN - POWER



CHILDREN'S PLAY AREA



- 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.
- 3. VERIFY AND PROVIDE NEMA CONFIGURATION OF RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
- 4. 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.
- 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.



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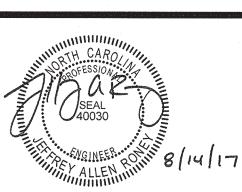
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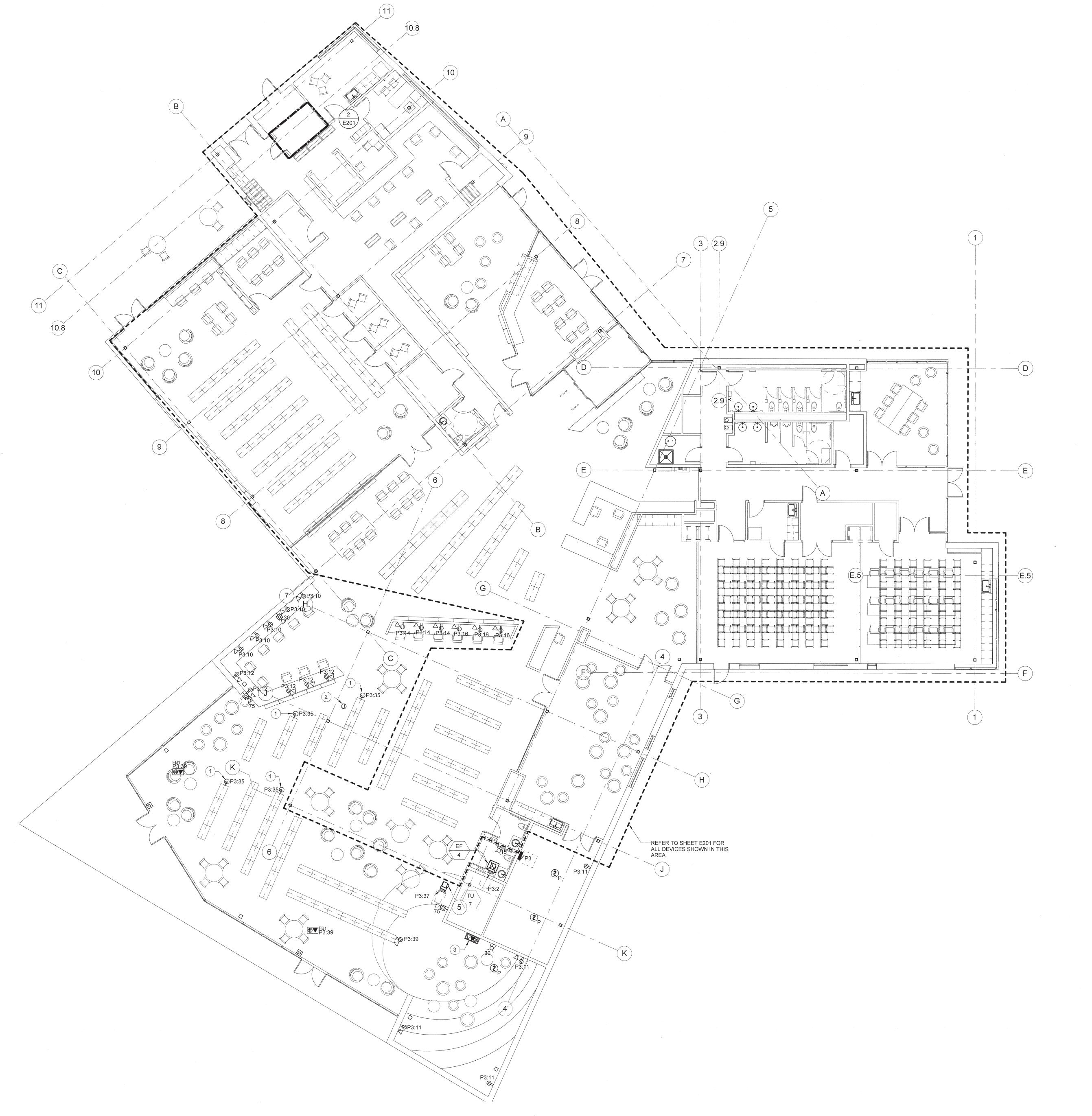
SCO ID#

FIRST FLOOR PLAN
- POWER
(ALTERNATE #1)

DRAWING NUMBER

E201A





- 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.
- 3. VERIFY AND PROVIDE NEMA CONFIGURATION OF RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK ELEVATIONS.
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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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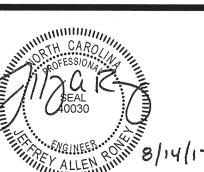
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SCO ID#

FIRST FLOOR PLAN
- POWER
(ALTERNATE #2)

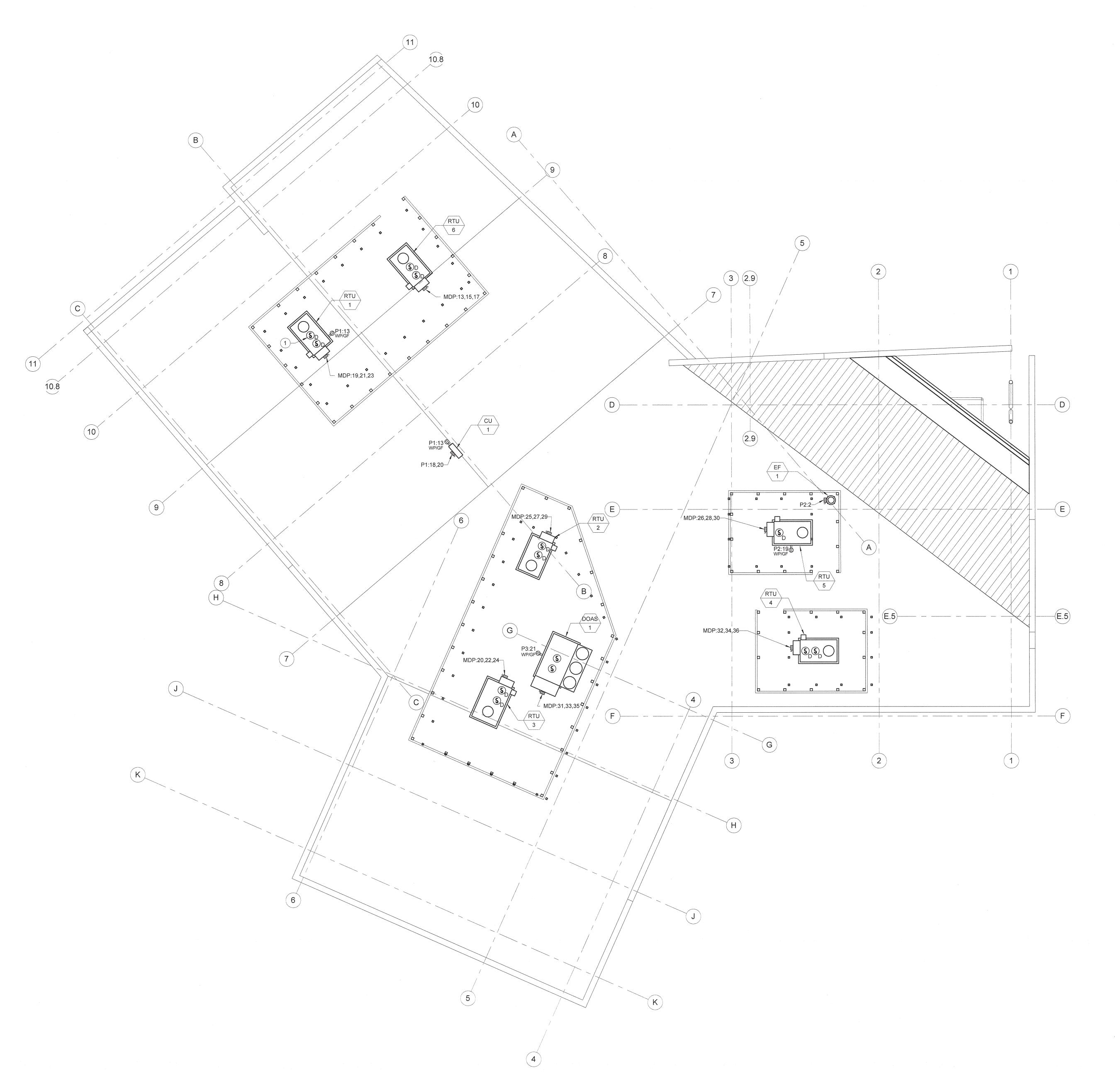
DRAWING NUMBER

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

E201B

ELECTRICAL POWER & TELECOMMUNICATIONS PLAN - FIRST FLOOR (ALTERNATE #2)

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



- 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.

KEYED NOTES:

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



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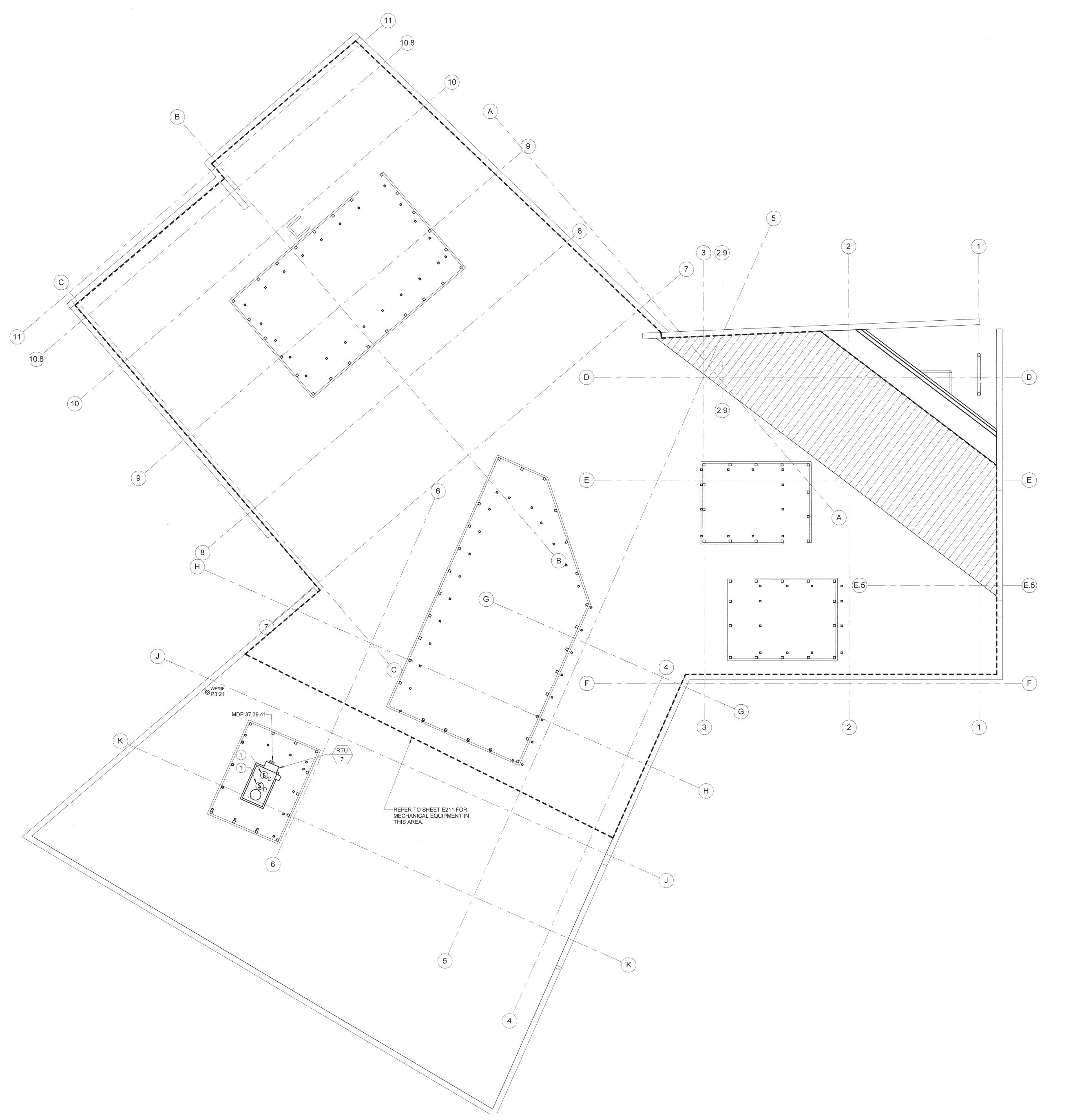
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DRAWING TITLE ROOF PLAN -POWER

DRAWING NUMBER

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



- 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

KEYED NOTES:

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



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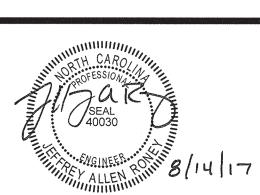
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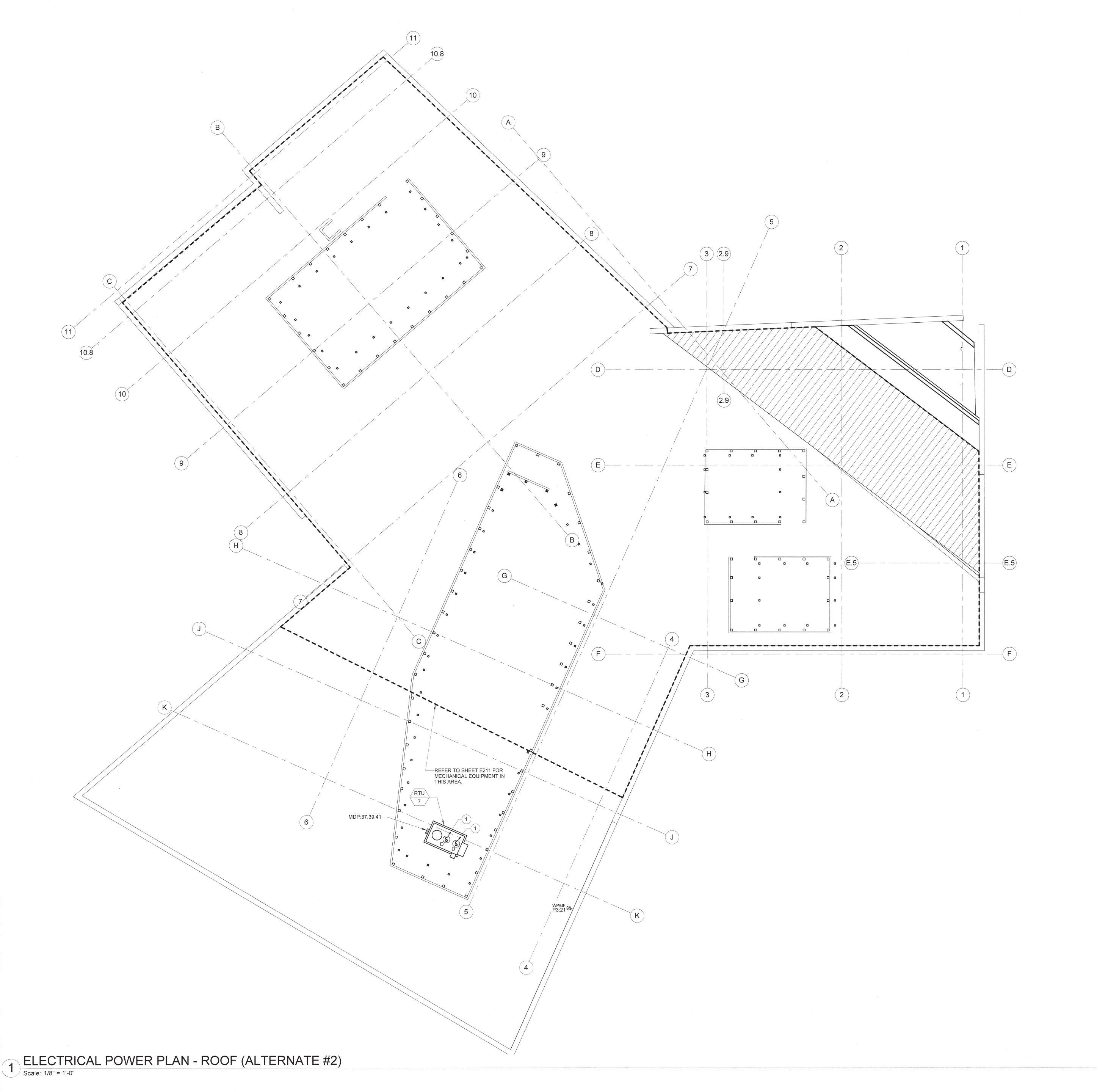
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AUGUST 14, 2017 PROJECT PINE VALLEY BRANCH DEI PROJECT# SCO ID#

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

DRAWING NUMBER

E211A



- 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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SCO ID# -

ROOF PLAN POWER
(ALTERNATE #2)

DRAWING NUMBER

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

E211B

		E VALLE OAD SL				
RE H\ LA MI	GHTING ECEPTACLES /AC .RGEST MOTOR SC. EQUIPMENT ATER HEATER		2 4 11 4	ECTED 0.4 KVA 9.2 KVA 4.5 KVA 6.5 KVA 3.7 KVA 4.5 KVA	DEMAND 23.7 KVA 29.6 KVA 114.5 KVA 58.1 KVA 23.7 KVA 5.6 KVA	
BL	OTAL ON PANELBO	URRENT -	7 <i>′</i>	58.8 KVA 13 AMPS @ 9.3%	257.0 KVA 208Y/120V	

FEEDER TAG	AMPACITY (AMP)	COPPER FEEDER SIZE									
SINGLE PHA	ASE (NO NEUTRAL) &	GROUND (S)									
30S	30	2#10, 1#10G IN 3/4"C									
THREE PHA	ASE, NEUTRAL, & EQI	UIPMENT GROUND (Y)									
100Y	100	3#3, 1#3N, 1#8G IN 1-1/4"C									
225Y	230	3#4/0, 1#4/0N, 1#4G IN 2-1/2"C									
THREE PHA	SE & GROUNDED NE	UTRAL (SE)									
800SE	800	3 SETS OF 3-300KCMIL, 1-300KCMIL GN IN 2-1/2"C EACH SET									
ARE ENCOUN	TERED CONTRACTO	EC TABLE 310.15(B)(16) AND THE 75°C RATING COLUMN UNLESS LIMITED BY OR SHALL RESIZE PHASE CONDUCTOR AND EQUIPMENT GROUND ACCORDINGLY. CTOR PER NEC TABLE 250.122. IF TERMINALS OR SPLICES RATED LESS THAN 75°C									
		REASED ABOVE SIZE LISTED FOR ANY REASON, THE EQUIPMENT GROUNDING ED PROPORTIONALLY BASED ON CIRCULAR MIL AREA PER NEC 250.122(B).									

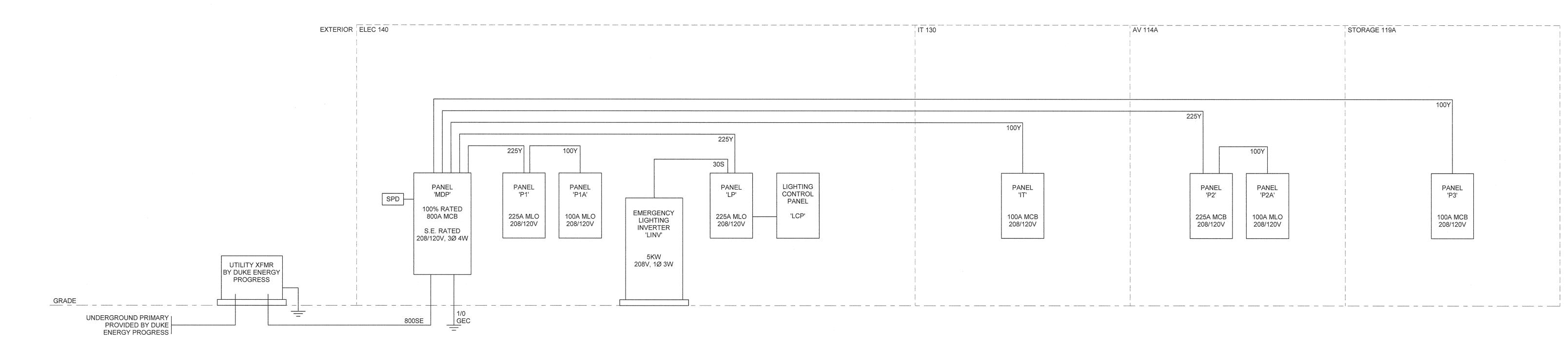
EQUIPMENT TAG	HP	VOLTAGE	POLES	SWITCH SIZE	FUSE	STARTER	ENCLOSURE	CIRCUIT SIZE	NOTES
RTU-1	40A	208	3	60	60	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-2	39A	208	3	60	50	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-3	52A	208	3	100	80	N/A	NEMA 4	3#6,#10G IN 3/4"C	SN-1
RTU-4	40A	208	3	60	60	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-5	39A	208	3	60	50	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-6	39A	208	3	60	50	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-7 (ALT. 1)	40A	208	3	60	60	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
RTU-7 (ALT. 2)	40A	208	3	60	60	N/A	NEMA 4	3#8,#10G IN 3/4"C	SN-1
DOAS-1	129A	208	3	200	175	N/A	NEMA 4	3#1/0,#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	3#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

- A. SCHEDULE INCLUDES DISCONNECTS FOR DIVISION 22, 23, & 25 EQUIPMENT. DISCONNECTS PROVIDED BY DIVISION 26 SIZED ON PLANS.
- B. COORDINATE ALL DISCONNECT, FUSE, AND STARTER SIZES WITH ACTUAL EQUIPMENT TO BE INSTALLED.
- C. WHERE STARTER SIZE IS INDICATED IN SCHEDULE, PROVIDE COMBINATION MAGNETIC STARTER AND DISCONNECT.

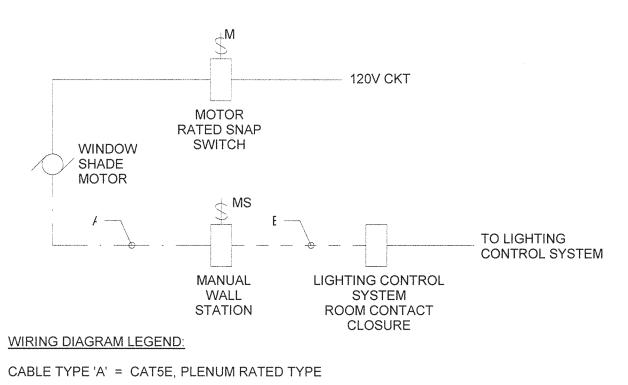
SCHEDULE NOTES:

SN-1: DISCONNECT INTEGRAL TO EQUIPMENT CONTROL PANEL.

SN-2: PROVIDE 20A/1P SNAP SWITCH.



ELECTRICAL RISER DIAGRAM Scale: NOT TO SCALE



CABLE TYPE 'A' = CAT5E, PLENUM RATED TYPE CABLE TYPE 'B' = 3C#18, PLENUM RATED TYPE

- 120V CKT MOTOR RATED SNAP SWITCH WINDOW SHADE MOTOR (TYP.)— TO LIGHTING CONTROL SYSTEM MODULAR MANUAL LIGHTING CONTROL SYSTEM ROOM CONTACT CLOSURE WALL STATION WIRING DIAGRAM LEGEND: CABLE TYPE 'A' = CAT5E, PLENUM RATED TYPE CABLE TYPE 'B' = 3C#18, PLENUM RATED TYPE

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

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

ARCHITECT OF RECORD

VINES ARCHITECTURE, INC. 530 HILLSBOROUGH STREET RALEIGH, NC 27603 T: 919 755 1975 F: 888 800 5946 www.vinesarc.com

Dewberry Engineers Inc. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929

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BELVILLE, NC 28451 T: 910 383 1044 WWW.CAPEFEARENGINEERING.COM STEWART ENGINEERING, INC.

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LIGHT DEFINES FORM 610 PEMBROKE ROAD SUITE 4465 GREENSBORO, NC 27408 T: 336 230 1990 WWW.LIGHTDEFINESFORM.COM

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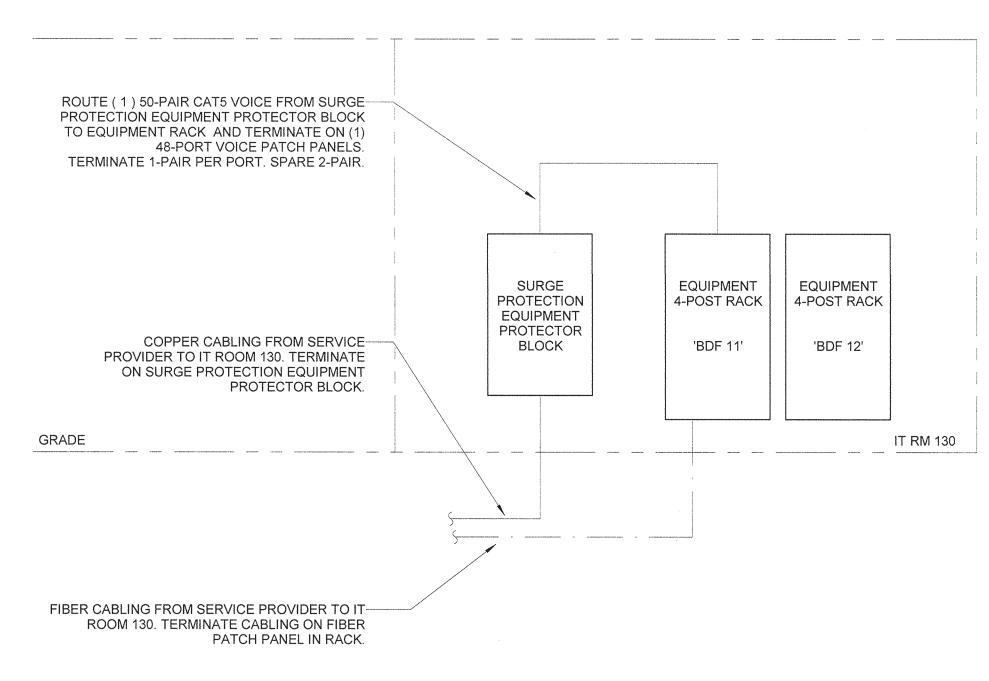
AUGUST 14, 2017 PROJECT PINE VALLEY BRANCH DEI PROJECT#

DRAWING TITLE

SCO ID#

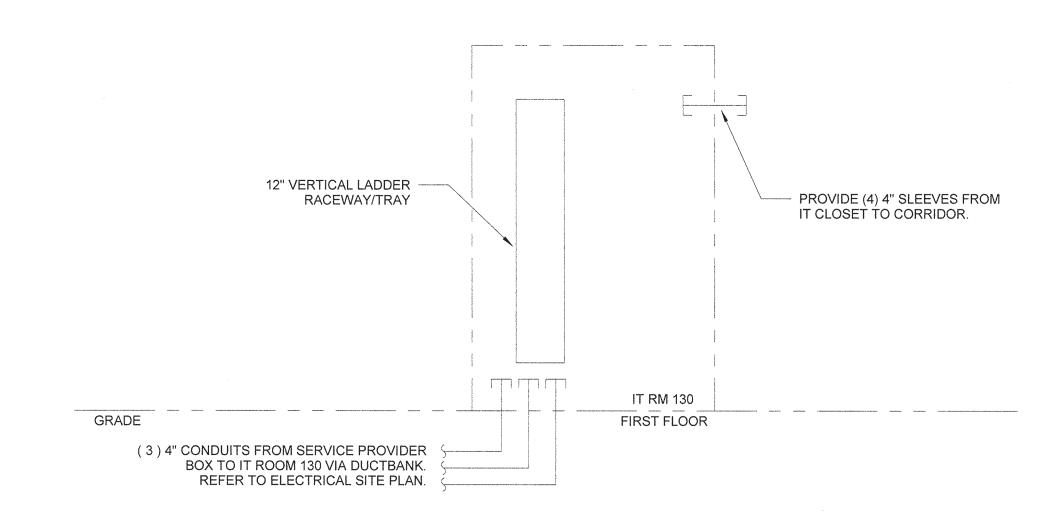
ELECTRICAL RISER DIAGRAM

DRAWING NUMBER



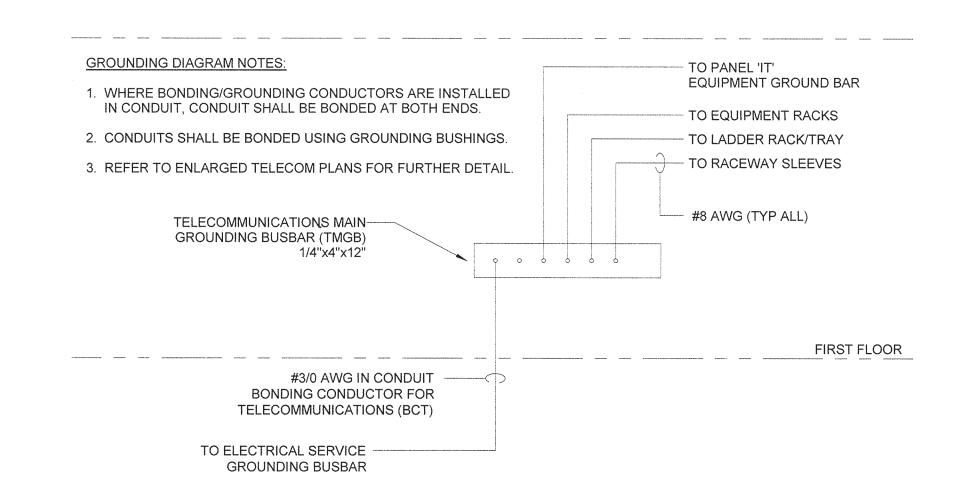
VOICE/DATA CABLE INFRASTRUCTURE RISER DIAGRAM

Scale: NOT TO SCALE



VOICE/DATA RACEWAY INFRASTRUCTURE RISER DIAGRAM

Scale: NOT TO SCALE



VOICE/DATA GROUNDING INFRASTRUCTURE DIAGRAM

Scale: NOT TO SCALE



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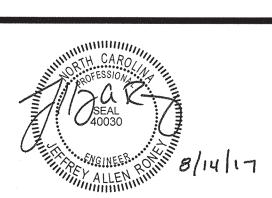
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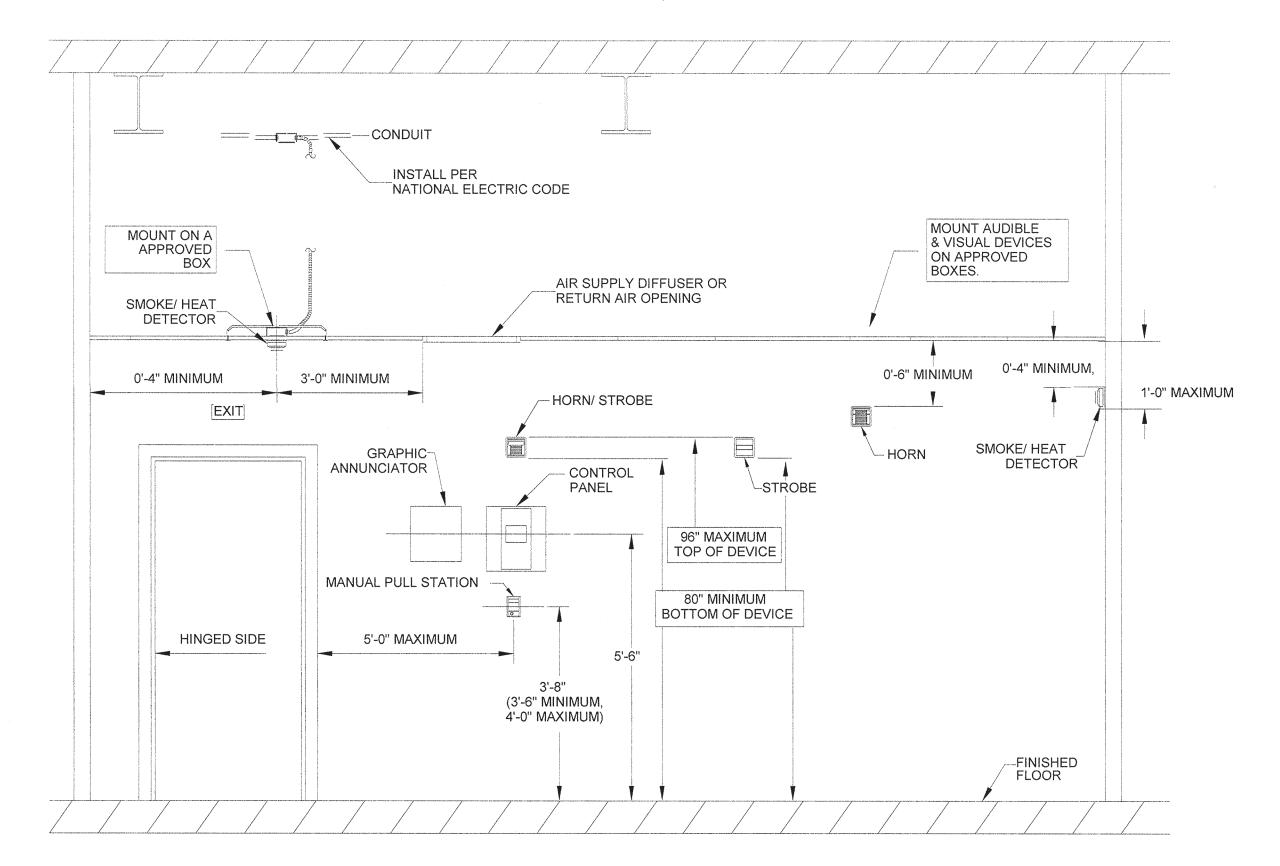
DRAWING TITLE

DEI PROJECT#

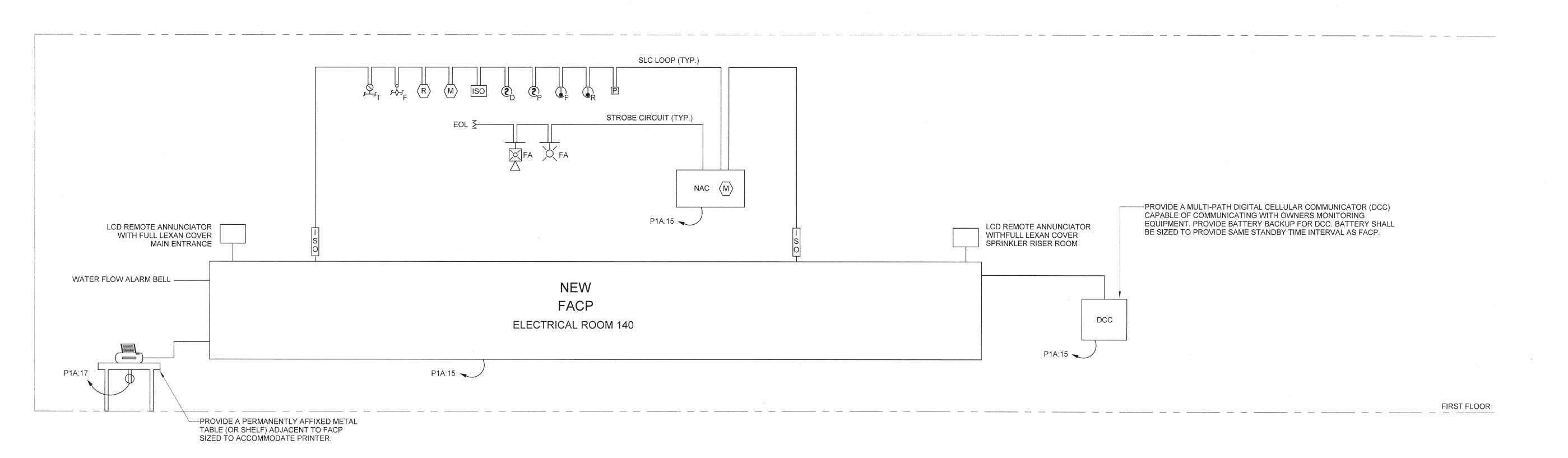
TELECOM RISER DIAGRAM

DRAWING NUMBER

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



2 FIRE ALARM MOUNTING DIAGRAM
Scale: NOT TO SCALE



SYSTEM INPUTS

2 SMOKE DETECTORS

3 HEAT DETECTORS

12 OPEN CIRCUIT

13 GROUND FAULT

1 MANUAL FIRE ALARM BOXES

8 DUCT DETECTORS FIRST FLOOR

10 FIRE ALARM AC POWER FAILURE
11 FIRE ALARM SYSTEM LOW BATTERY

14 NOTIFICATION APPLIANCE CIRCUIT SHORT

4 FLOWSWITCH - ZONE CONTROL ASSEMBLY

6 TAMPER SWITCH - BACKFLOW PREVENTER

5 TAMPER SWITCH - ZONE CONTROL ASSEMBLIES

7 TAMPER SWITCH - POST INDICATOR VALVE (EXT.)

9 AHU SHUTDOWN AND SMOKE DAMPER OVERRIDE SWITCH

1 FIRE ALARM RISER DIAGRAM
Scale: NOT TO SCALE



ARCHITECT OF RECORD

VINES ARCHITECTURE, INC. 530 HILLSBOROUGH STREET RALEIGH, NC 27603 T: 919 755 1975 F: 888 800 5946 www.vinesarc.com

SYSTEM OUTPUTS

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ABCDEFGHIJKLMNOP

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• •

0 0

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Dewberry

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DEI PROJECT# 50090277
SCO ID# -

DRAWING TIT

FIRE ALARM RISER DIAGRAM

DRAWING NUMBER

PANE	LOCATION: IT 130 SUPPLY FROM: MDP MOUNTING: SURFA ENCLOSURE: NEMA				V	# OF # O	RATING: PHASES: F WIRES: E RATED:	3 4	Vye		IV	-	BREAKI BI NEUTR	BREAKER: YES ER RATING: 100 A US RATING: 100 A AL RATING: 100% IMUM KAIC: 10	
скт	LOAD SERVED	СВ	Р	N			В		С		N	Р	СВ	LOAD SERVED	CK.
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	 	SPARE	4
5	REC: IT 130	20 A	1				2.618.62.5		180	0		1		SPARE	6
7	SPARE	20 A	1		0	0						1	1	SPARE	8
9	SPARE	20 A	1				0	0				1		SPARE	1(
11	SPARE	20 A	1						0	0		2		SPARE	12
13	UPS REC: IT 130	20 A	2		1000	0									14
15	A 10-						1000	0				2	20 A	SPARE	16
17	UPS REC: IT 130	20 A	2						1000	0	100 Car				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					tin tile	1	20 A	SPARE	26
	SPARE	20 A	1				0	0				1	20 A	SPARE	28
29	SPARE	20 A	1						0	0		1	20 A	SPARE	30
	SPARE	20 A	1		0	0						1	20 A	SPARE	32
	SPACE						0	0			***		***	SPACE	34
	SPACE								0	0				SPACE	36
	SPACE				0	0				3353333333				SPACE	38
~~~	SPACE						0	0						SPACE	40
41	SPACE								0	0			***	SPACE	42
				LOAD:	2680		1180		1180						
***************************************	JIT BREAKER NOTES (N):	T	OTAL	AMPS:	22	A	10	Α	· 10 A	۹					

***************************************	PANEL DE LOCATION: ELECTRIC		ATIC	ON:	V	LP OLTAGE	RATING:	120/208 \			N	IAIN (	CIRCUIT	BREAKER: N/A	
	SUPPLY FROM: MDP Mounting: Surface Enclosure: Nema 1				# OF PHASES: 3 # OF WIRES: 4 SE RATED: NO BREAKER RATING: MLO BUS RATING: 225 A NEUTRAL RATING: 100% MINIMUM KAIC: 22										
ANE	L NOTES:												IVIIN	IMUM KAIC: 22	
IGH	TING INVERTER LOADS HAVE BEE	N ACCOL	JNTEI	D FOR	IN NORM	AL OPER	RATION CI	RCUITING	. REFER	TO INVER	TER S	CHE	DULE 'LI	NV' FOR LOAD ON EQUIPMENT.	
KT	LOAD SERVED	СВ	Р	N	PHASE	A (VA)	PHASE	B (VA)	PHASE	IASE C (VA)		P CI	СВ	LOAD SERVED	СКТ
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
1	LTG: CORRIDOR 105	20 A	1						996	408		1	20 A	LTG: QUIET AREA 121	12
	LTG: JANITOR 107	20 A	1		1324	480						1	20 A	LTG: PATIO LIGHTS	14
	LTG: GENERAL STORAGE	20 A	1				916	1254				1	20 A	LTG: BUILDING LIGHTS	16
	LTG: READING 117	20 A	1						787	280		1	20 A	LTG: CHILDREN'S 118	18
	LTG: CHILDREN'S 118	20 A	1		727	366						1	20 A	LTG: CHILDREN'S 118	20
	LTG: CHILDREN'S 118	20 A	1				150	611			1	1	20 A	LTG: CHILDREN'S 118 (ALT. 1)	22
	LTG: CHILDREN'S 118	20 A	1						150	1178	1	1	20 A	LTG: CHILDREN'S 118 (ALT. 1)	24
	LTG: CHILDREN'S 118	20 A	1		150	811					2	1	20 A	LTG: CHILDREN'S 118 (ALT. 2)	26
	LTG: CHILDREN'S 118	20 A	1				150	1217			2	1	20 A	LTG: CHILDREN'S 118 (ALT. 2)	28
~	LTG: STOR. 133, MEET. 122,	20 A	1						371	0		1	20 A	SPARE	30
	LTG: EXTERIOR POLE LIGHTS	20 A	1		620	0						1	20 A	SPARE	32
	LTG: EXTERIOR POLE LIGHTS	20 A	1				640	0				1	20 A	SPARE	34
	SPARE	20 A	1						0	0	~ ~	1	20 A	SPARE	36
	SPARE	20 A	1		0	0						1	20 A	SPARE	38
39	SPARE	20 A	1				0	0				2	30 A	LIGHTING INVERTER 'LINV'	40
1	SPARE	20 A	1						0	0					42
		T	OTAL	LOAD:	643	2 VA	815	5 VA	580	3 VA					***************************************
		TO	OTAL	AMPS:	54	1 A	69	Α	48	B A					
	<b>UIT BREAKER NOTES (N):</b> RCUIT BREAKER SHALL BECOME A	SPARE	IF AL	ΓERNA ⁻	TE 1 IS N	OT ACCE	PTED.								
OAL	CLASSIFICATION			CON	NECTED	LOAD	EST	IMATED	DEMAND					PANEL TOTALS	
			$\neg \uparrow \neg$		20393 V			25491				***************************************	TC	TAL LOAD: 20393 VA	
													DEMAN	ID FACTOR: 125,00%	/
ighti					······································		Control							ID FACTOR: 125.00% AND LOAD: 25491 VA	·

LOCATION: ELECTRICAL 140 SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: NEMA 1  PANEL NOTES: PROVIDE A 800A 100% RATED MAIN CIR						# OF # OI SE	RATING: PHASES: F WIRES: E RATED:	4	Vye		MAIN CIRCUIT BREAKER: YES BREAKER RATING: 800 A BUS RATING: 800 A NEUTRAL RATING: 100% MINIMUM KAIC: 22					
		JRGE PROTECTIVE DEVICE PER MANUF			S RECON	MENDAT	a para de la casa de l						00	LOAD OFFINE		
			Р	N		4		3	C	•	N	Р	СВ	LOAD SERVED	CKT	
	'ANEL 'LP'	225 A	3		6432	12596						3	225 A	PANEL 'P1'	2	
3		<b>Je 14</b>					8155	9350	5000	0050	200 000				4	
5		100 4			2000	40000			5808	9253				PANEL IDOI	6	ARCHITE
/ P	'ANEL 'IT'	100 A	3	-	2680	12023	1100	0504				3	<del> </del>	PANEL 'P2'	8	•
1		***					1180	8584	4400	10700					10	VINES A
	OOF TOP UNIT (RTU-6)	50 A	3		4683	5789			1180	12788	***		100 4	DANEL IDSI	12	530 HILLS RALEIGH,
5		50 A			4003	5/69	4683	7480				3	<del> </del>	PANEL 'P3'	14	T: 919 755
7							4003	7400	4683	5270					16	F: 888 800
	OOF TOP UNIT (RTU-1)	60 A	3		4803	6244			4003	3210		3	80.4	ROOF TOP UNIT (RTU-3)	18	www.vines
1			<u> </u>		4000	0244	4803	6244					<del> </del>	ROOF FOR UNIT (RTU-3)	20	
3							4003	0244	4803	6244	**	***			22	
	OOF TOP UNIT (RTU-2)	50 A	3		4683	4683			4000	U <b>∠</b> 44		3	50 A	ROOF TOP UNIT (RTU-5)	26	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7					<del>-</del> 000	7000	4683	4683		arandan Ne. Markitana			50 A		28	.40°a.
9							1000	1000	4683	4683			MA 404		30	Dewberr
	ED. OUTDOOR AIR UNIT	175 A	3		15491	4803			1.000			3		ROOF TOP UNIT (RTU-4)	32	2610 WYCL
3							15491	4803							34	SUITE 410
5	•							la compa	15491	4803				-	36	RALEIGH,
7 R	OOF TOP UNIT (RTU-7)	20 A	3	1	4803	0		\$ 180,880				3	0 A	SURGE PROTECTIVE DEVICE	38	PHONE: 9
9	·	ann 100					4803	0							40	FAX: 919.8 NCBELS#
1		***							4803	0					42	
		T	L	LOAD:	8970	2 VA	8494	O VA	8448				1	1		This drawing
				AMPS:		8 A	ļ	8 A	704							Vines Archit
RCUI PROV	T BREAKER NOTES (N): VIDE CIRCUIT IF ALTERNATE I	S ACCEPTE	ED, EL	SE TH	IS IS A SF	PARE CIR	CUIT BRE	AKER.								Vines Archit which they v drawing with Architecture
	CLASSIFICATION			CON	NECTED	LOAD	ES'	TIMATED	DEMAND					PANEL TOTALS		00110111
	quipment				23742 V			23742					ТО	<b>TAL LOAD:</b> 259132 VA		CONSUL
AC			114481 V			114481					DEMAN	D FACTOR: 99.25%		SURFAC		
hting			20393 V			25491					DEM	AND LOAD: 257186 VA		215 MORF		
cepta					49564 VA			29782					DEM	AND AMPS: 714 A		SUITE 150
ter H		***************************************		~~~~	4500 VA			5625 \								DURHAM,
aest i	Motor		1		46473 VA	7		58091	۱/Δ	1					į.	T: 919 419

	PANEL DES	SIGNA	ATIC	N:		P1								-		
DANE	LOCATION: ELECTRICA SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1	AL 140			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					
AINE	EL NOTES.															
СКТ	LOAD SERVED	СВ	Р	N	PHASE	A (VA)	PHASE	B (VA)	PHASE	C (VA)	N	Р	СВ	LOAD SERVED	скт	
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	<del> </del>	REC: ROOM 125, 124, 123, 121	4	
5	REC: EXTERIOR	20 A	1						720	557	***************************************	1	<del> </del>	EXHAUST FAN (EF-1)	6	
7	REC: SM. PROG. 125	20 A	1		540	500						3	<del></del>	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	
	REC: ROOF SERVICE	20 A	1	and the same	360	900						1	20 A	REC: MEETING 122	14	
	REC: QUIET AREA 121	20 A	1				360	540			****	1	20 A	REC: MEETING 122	16	
	REC: STUDY 125	20 A	1						1080	1976		2	25 A	CONDENSING UNIT (CU-1)	18	
	FAAP: SPRINKLER 141	20 A	1		500	1976								A 100 TO	20	
	REC: MEETING 122	20 A	1				360	540				1	20 A	REC: MEETING 122	22	
	SPARE	20 A	1						0	1000		2	30 A	WELL PUMP	24	
	SPARE	20 A	1		0	1000									26	
	SPARE	20 A	1				0	500				1	20 A	REC: STAFF ENTRY 135	28	
	SPARE	20 A	1						0	1000		2	30 A	GRINDER PUMP STATION	30	
~~~~	SPARE	20 A	1		0	1000									32	
	SPARE	20 A	1				0	1260				1	20 A	REC: QUIET AREA 121	34	
	SPARE	20 A	1						0	0			No has	SPACE	36	
	PANEL 'P1A'	20 A	3		4320	0							A4 40-	SPACE	38	
~~							2740	0						SPACE	40	
41									1700	0				SPACE	42	
				LOAD:	1259		·	0 VA	9253							
2100:	UIT DDEAKED NOTES (A)	TO	OTAL A	AMPS:	105	5 A	78	3 A	77	Α			· · · · · · · · · · · · · · · · · · ·			
	UIT BREAKER NOTES (N): OVIDE GFI CIRCUIT BREAKER															
OAD	CLASSIFICATION CONN				NECTED	LOAD	ES	TIMATED	DEMAND					PANEL TOTALS		
	Equipment				7250 VA			7250 \	VA					PTAL LOAD: 31198 VA		
1VAC		***************************************			7008 VA			7008 \						D FACTOR: 88.88%		
Recep	otacle				16940 VA	Ą		13470	VA		DEMAND LOAD: 27728 VA					
									***************************************					AND AMPS: 77 A		

	PANEL DE		ATIO	N:		P1A									
PANEL NO	LOCATION: ELECTRIC SUPPLY FROM: P1 MOUNTING: SURFACE ENCLOSURE: NEMA 1		Mary Andrew Control of		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				*******************************
СКТ	LOAD SERVED	СВ	P	N	PHASE	A (\/A)	PHASE	D (\/A)	PHASE	C (\(\(\(\(\) \) \)	N	Р	СВ	LOAD SERVED	CV
			•	IN.			PHASE	D (VA)	PHASE	C (VA)	IN	P		LOAD SERVED	CH
	C: OFFICE 138	20 A	1	**************************************	540	300						3	20 A	REC: STAFF WORK AREA 131	2
	C: STAFF WORK AREA 131	20 A	1	T			540	300							4
	C: STAFF WORK AREA 132	20 A	1						180	300					(
	C: STAFF WORK AREA 131	20 A	1	***************************************	720	180						1	20 A	PRINTER/COPIER: COPY 128A	3
	C: TOILET 128	20 A	1				540	360				1	20 A	REC: ROOM 136, 134, 138, 153	1
	D: VOL. 139	20 A	1						540	180		1		REC: SPACE 178	1
	RIGERATOR: BREAK 139	20 A	1	1	180	900						1	20 A	REC: FRIENDS 137	1
	E ALARM CONTROL PANEL	20 A	1				500	0				1	20 A	SPARE	1
	E ALARM PRINTER	20 A	1						500	0		1	20 A	SPARE	1
	ROWAVE: BREAK 139	20 A	1	1	1500	0						1	20 A	SPARE	2
	E ALARM SPRINKLER BELL	20 A	1				500	0				1	20 A	SPARE	2
23 SPA		20 A	1	***					0	0		1	20 A	SPARE	24
25 SPA		20 A	1		0	0						1	20 A	SPARE	2
27 SPA		20 A	1	***			0	0				1	20 A	SPARE	2
29 SPA		20 A	1	***					0	0		1	20 A	SPARE	3
31 SPA					0	0	XIII							SPACE	3:
33 SPA							0	0						SPACE	3,
35 SPA				90.00					0	0				SPACE	30
37 SPA	ACE			904 909	0	0								SPACE	3
39 SPA	ACE						0	0						SPACE	4(
41 SPA	ACE .			***					0	0	***			SPACE	42
		T	OTAL L	_OAD:	4320) VA	2740) VA	1700	VA		***************************************			
		TO	A JATC	AMPS:	37	Α	24	Α	14	Α					
	BREAKER NOTES (N): DE GFI CIRCUIT BREAKER														
						LOAD	EST	ESTIMATED DEMAND				PANEL TOTALS			
Иisc. Equi					2500 VA			2500 \			TOTAL LOAD: 8760 VA				
Dooontoolo	eceptacle				6260 VA 6260 VA				1	DEMAND FACTOR: 100.00%					

PANEL DES					2		100/000	1.4.7							STEWART ENGINEERING, 421 FAYETTEVILLE STREET
LOCATION: AV 114A SUPPLY FROM: MDP				VOL		RATING: PHASES:	120/208	Wye		"			BREAKER: YES		SUITE 400
MOUNTING: SURFACE						WIRES:							ER RATING: 225 A US RATING: 225 A		RALIEGH, NC 27601 T: 919 866 4715
ENCLOSURE: NEMA 1						RATED:							AL RATING: 225 A		WWW.STEWART-ENG.COM
ENOCOOKE. NEW/		GE KATED. NO									IMUM KAIC: 10		**************************************		
NEL NOTES:												DEWBERRY			
															2610 WYCLIFF ROAD
	·	***************************************													SUITE 410 RALEIGH, NC 27607
KT LOAD SERVED	СВ	Р	N	Α		E	3	1	С	N	Р	СВ	LOAD SERVED	СКТ	T: 919.881.9939
1 REC: INFO 116	20 A	1		540	696						1	20 A	EXHAUST FAN (EF-1)	2	WWW.DEWBERRY.COM
REC: LARGE PROG. A 115	20 A	1			65.00	720	360				1	20 A	REC: WOMEN 108	4	
REC: 9TH SPACE 112	20 A	1						360	264		1	20 A	RECIRCULATING PUMP JANITOR	6	LIGHT DEFINES FORM
REC: VESTIBULE 101	20 A	1		500	1500						1	20 A	REC: CORRIDOR 128	8	610 PEMBROKE ROAD SUITE 4465
REC: CATER. 105	20 A	1				180	720				1	20 A	REC: MAKER / PROGRAM 126	10	GREENSBORO, NC 27408
1 REC: ROOM 145, 109, 158, 106	20 A	1						1080	2250		2	30 A	WATER HEATER JANITOR 107	12	T: 336 230 1990
3 REC: CORRIDOR 106	20 A	1		180 2	2250								40.00	14	WWW.LIGHTDEFINESFORM
5 REC: AV 110	20 A	1				720	540				1	20 A	REC: CIRC DESK 103	16	
7 REC: 9TH SPACE 113	20 A	1						720	900		1	20 A	REC: TEEN 127	18	
9 REC: ROOF SERVICE	20 A	1		180	180						1	20 A	REC: CORRIDOR 104	20	
1 REC: 9TH SPACE 113	20 A	1				360	1000			1	1	20 A	VENDING: CORRIDOR 105	22	REVISIONS
REC: LOBBY 102	20 A	1						1000	1000		2	20 A	AV RACK: AV 114A	24	
5 TERMINAL UNIT (TU-2) (TU-4)	20 A	1		1501 1	1000					***		Was 440		26	
7 HAND DRYER: WOMEN 108	20 A	1				1464	540				1	20 A	REC: INFO 116	28	
9 HAND DRYER: MEN 109	20 A	1						1464	1500	1	1	20 A	MICROWAVE: CATER. 113A	30	-
1 VENDING: CORRIDOR 105	20 A	1	1	1000	0						1		SPARE	32	
REC: WALLBOX CORRIDOR 104	20 A	1				360	0				1		SPARE	34	
5 SPARE	20 A	1		3.00				0	0		1		SPARE	36	
7 SPARE	20 A	1		0 2	2496						3	100 A	PANEL 'P2A'	38	
9 SPARE	20 A	1				0	1620						46 90	40	
1 SPARE	20 A	1						0	2250					42	
	TC	DTAL L	.OAD:	12023 V	Ά	8584	4 VA	1278	38 VA						

	PANEL DE	ESIGNA	ATIC	N:		P2A									
PANE	LOCATION: AV 114A SUPPLY FROM: P2 MOUNTING: Surface ENCLOSURE: NEMA 1	· V	# OF # O	RATING: PHASES: F WIRES: E RATED:	3 4	Vye		MAIN CIRCUIT BREAKER: MLO BREAKER RATING: N/A BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 10							
СКТ	LOAD SERVED	СВ	Р	N	PHASE	A (VA)	PHASE	B (VA)	PHASE	C (VA)	N	Р	СВ	LOAD SERVED	CK
	REC: AV 114A	20 A	1		360	0					*********************				
	REC: AV 114A	20 A	1		300	U .	180	0				1		SPARE SPARE	2
	STACK POWER: ADULT 115	20 A	1				100		450	0		1		SPARE	6
	MOTORIZED PROJECTOR	20 A	1		1056	0			3,44			1		SPARE	8
	REC: LARGE PROG. B 113	20 A	1				720	0				1		SPARE	10
	REC: LARGE PROG. B 113	20 A	1	-					720	0	~~~	1		SPARE	12
13	REC: LARGE PROG. A 115	20 A	1		720	0						1	<u> </u>	SPARE	14
15	REC: LARGE PROG. A 115	20 A	1				720	0			***	1		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
	SPARE	20 A	1				0	0				1	20 A	SPARE	22
	SPARE	20 A	1						0	0		1	20 A	SPARE	24
	SPARE	20 A	1		0	0						1		SPARE	26
	SPARE	20 A	1				0	0				1		SPARE	28
	SPARE	20 A	1		_				0	0		1		SPARE	30
	SPARE SPACE	20 A	1		0	0					***	1		SPARE	32
	SPACE	***					0	0	0	0			***	SPACE	34
	SPACE				0	0			0	0	***			SPACE	36
	SPACE	***			U	U		^						SPACE	38
							U	U	^				1		40
71	OI ACE		OTAL		2406	\/Δ	1620	1//						SPACE	42
	TOTAL LOAI TOTAL AMPS				<u> </u>		4								
41 CIRCU	SPACE JIT BREAKER NOTES (N): CLASSIFICATION			AMPS:	2496 22	A	1620 14	A	0 2250 20 DEMAND					SPACE SPACE PANEL TOTALS	
	Equipment		_		450 VA			450 V							
************				***************************************	5916 VA			5916 \			TOTAL LOAD: 6366 VA DEMAND FACTOR: 100.00%				
1	ceptacle 59				0010 VA		2910 VA				DEMAND LOAD: 6366 VA				

	PANEL DES	SIGNA	ATIC	ON:		P3									
	LOCATION: STORAGE SUPPLY FROM: MDP MOUNTING: SURFACE ENCLOSURE: NEMA 1	119A			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				
PANE	L NOTES:														
СКТ	LOAD SERVED	СВ	Р	N		A	E	3		C	N	Р	СВ	LOAD SERVED	СК
1	REC: SPACE 152	20 A	1		360	80				News Note 1	2	1	20 A	EXHAUST FAN (EF-4)	2
3	REC: ADULT / NEW RELEASES	20 A	1		000		360	360			-	1	20 A	REC: CHILDREN'S PROGRAM 119	4
	REC: CHILDREN'S 118	20 A	1						720	180	<u> </u>	1	20 A	PRINTER/COPIER: CHILDREN'S	6
7	DRYER: STORAGE 119A	20 A	2		1000	528						1	20 A	PROJECTOR SCREEN: ROOM 119	-
9							1000	900			2	1	20 A	REC: ADULT/NEW RELEASES (A	10
11	REC: ROOM 150, 144, 149	20 A	1						1080	900	2	1	20 A	REC: ADULT/ NEW RELEASES	12
13	REC: CHILDREN'S PROGRAM 144	20 A	1		1080	720					2	1		REC: CHILDREN'S 118 (ALT #1)	14
15	REC: ROOM 144, 152	20 A	1				1260	540			2	1	20 A	REC: ROOM 118, 115 (ALT #1)	16
17	STACK POWER: CHILD. PROG	20 A	1						750	0		1	20 A	SPARE	18
19	REC: SPACE 159	20 A	1		720	0	74.5.44		1992			1	20 A	SPARE	20
21	REC: ROOF SERVICE	20 A	1				540	0				1	20 A	SPARE	22
23	WASHER: STORAGE 119A	20 A	1	1					180	0		1	20 A	SPARE	24
25	REC: ADULT / NEW RELEASES	20 A	1		720	0						1	20 A	SPARE	26
27	REC: EXTERIOR RECEPTACLES	20 A	1				720	0				1	20 A	SPARE	28
	TERMINAL UNIT (TU-3)	20 A	1						500	0		1	20 A	SPARE	30
31	EXHAUST FAN (EF-3)	20 A	1		80	0						1	20 A	SPARE	32
	REC: CHILDREN'S 118	20 A	1				900	0				1	20 A	SPARE	34
35	REC: CHILDREN'S 118 (ALT #1)	20 A	1	2					600	0				SPACE	36
	TERMINAL UNIT (TU-7) (ALT #1)	20 A	1	2	500	0								SPACE	38
	REC: (ALT #1)	20 A	1	2			900	0						SPACE	40
41	REC: (ALT #1)	20 A	1	2					360	0				SPACE	42
				LOAD:	5789		7480) VA	The second secon				
		TO	OTAL	AMPS:	49	A	63	A	44	- A					
. PR	JIT BREAKER NOTES (N): DVIDE GFI CIRCUIT BREAKER. BID IS ACCEPTED, CIRCUIT SHALL			······································			okonomia o en								2. IF
OAD	DAD CLASSIFICATION COM		CON	NECTED	LOAD	EST	IMATED	DEMAND					PANEL TOTALS		
Misc.	Equipment			e e e e e e e e e e e e e e e e e e e	3350 VA			3350 \					TC	OTAL LOAD: 18540 VA	***************************************
HVAC					1162 VA			1162 \						D FACTOR: 89.14%	
Recep	tacle				14028 V	4		12014						AND LOAD: 16526 VA	
										************************		DEM	AND AMPS: 46 A		

	Inverter: LIN	1 V								
	Location: ELEC Supply From: Mounting: FLOC Enclosure: NEM	DR .	Phas	olts: 1: ses: 3 res: 4		Vye		A.I.C. Rating: 10 B Mains Type: MC Mains Rating: 30 A	В	
Note: EMER	s: RGENCY LIGHTING LOADS SH WN ARE FOR SIZING OF LIGH	HOWN HAVE BEEN ACC TING INVERTER EQUIP	COUNTEI PMENT A	D FOR ND AS	IN ELEC	CTRICA ED CIR	_ SERVICE CUITS.	CALCULATIONS	VIA PANEL 'LP	'. LOADS
СКТ	Circuit D	escription	`	Trip	Frame	Poles	А	В	С	Total
1	INTERIOR EMERGENCY LIGI	· · · · · · · · · · · · · · · · · · ·		20		1	1244			TOTAL
2	EXTERIOR EMERGENCY LIG	· · · · · · · · · · · · · · · · · · ·		20		1		860		
3	EXTERIOR EMERGENCY LIG	HTING		20		1			840	
4	INTERIOR EMERGENCY ONL		20		1	400				
	SPARE			20		1		0		**
6	SPARE			20		1			0	
7	SPARE	TO THE REPORT OF THE STATE OF T		20		1	0			
8	SPARE	,		20		1		0		***
9										
10										
11										
12										
						l Load:	1644	860	840	
			L	**********************	Total	Amps:	14	7	7	
l Oad	Classification	Connected Load	Demar	nd Fac	tor =	Stimate	od .	Danz	l Totale	
Spare		3344 VA		5.00%	COI E	4180 V		rane	el Totals	
								Total Conn. Load	I: 3344 VA	
								Total Est. Demand		



ARCHITECT OF RECORD VINES ARCHITECTURE, INC. 530 HILLSBOROUGH STREET RALEIGH, NC 27603 T: 919 755 1975 F: 888 800 5946

Dewberry Engineers Inc. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929

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CONSULTANTS

SURFACE 678, PA 215 MORRIS STREET SUITE 150 DURHAM, NC 27701 T: 919 419 1199 WWW.SURFACE678.COM

CAPE FEAR ENGINEERING 151 POOLE ROAD

SUITE 100 BELVILLE, NC 28451 T: 910 383 1044 WWW.CAPEFEARENGINEERING.COM

STEWART ENGINEERING, INC.

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
Misc. Equipment	2500 VA	2500 VA	TOTAL LOAD: 8760 VA
Receptacle	6260 VA	6260 VA	DEMAND FACTOR: 100.00%
			DEMAND LOAD: 8760 VA
			DEMAND AMPS: 24 A

PROVIDE GFCI CIRCUIT BREAKER. LOAD CLASSIFICATION
Misc. Equipment PANEL TOTALS
TOTAL LOAD: 33395 VA
DEMAND FACTOR: 92.06% ESTIMATED DEMAND CONNECTED LOAD 9142 VA 9142 VA 2197 VA 2197 VA DEMAND LOAD: 30742 VA
DEMAND AMPS: 85 A 17556 VA 13778 VA Receptacle 4500 VA Water Heater 5625 VA

PINE VALLEY **BRANCH** LIBRARY

NEW HANOVER COUNTY

PHASE CONSTRUCTION DOCUMENTS

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

PANEL SCHEDULES

DRAWING NUMBER

			-		LIGHT	FIXTURE SCHEDULE		
ГҮРЕ	DESCRIPTION	LIGHT SOURCE	LUMEN OUTPUT	LOAD	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL / SERIES	APPROVED EQUIVALENT MANUFACTURERS	NOTES
DP2A	DECORATIVE DIRECT/INDIRECT LED PENDANT - 4' DIAMETER	INTEGRAL LED 3000K	8600 lm	163 VA	DELRAY	UDC4-S-W30-SR-BDIM-W1	LITHONIA, PRUDENTIAL, FOCAL POINT	SUPPLY WITH REMOTE, DIMMABLE DRIVERS IN CONCEALED, ACCESSIBLE LOCATION
	DECORATIVE DIRECT/INDIRECT LED PENDANT - 5' DIAMETER	INTEGRAL LED 3000K	10800 lm	204 VA	DELRAY	UDC5-S-W30-SR-BDIM-W1	LITHONIA, PRUDENTIAL, FOCAL POINT	SUPPLY WITH REMOTE, DIMMABLE DRIVERS IN CONCEALED, ACCESSIBLE LOCATION
	EDGE-LIT LED EXIT SIGN, CEILING MOUNTED, SINGLE FACED, GREEN LETTERS ON MIRROR	LED		10 VA	LITHONIA	LRP-1-GMR	THE EXIT LIGHT COMPANY, PHILIPS, COOPER INDUSTRIES	
E2	EDGE-LIT LED EXIT SIGN, CEILING MOUNTED, DOUBLE FACED, GREEN	LED		10 VA	LITHONIA	LRP-2-GMR	THE EXIT LIGHT COMPANY, PHILIPS, COOPER INDUSTRIES	
1EM	LETTERS ON MIRROR RECESSED LED DOWNLIGHT /	INTEGRAL LED 3000K	1453 lm	14 VA	PHILIPS LIGHTOLIER	C4L10DL30KCCLWVB-C4L10NUVBZ10V	EDISON PRICE, KURT VERSEN, COOPER	
12	WALLWASH- 1000lm, 3000K RECESSED 4" APERTURE LED	INTEGRAL LED 3000K	1000 lm	11 VA	PHILIPS LIGHTOLIER	C4L10NUVBZ10-C4L10WW30KCCLPVB	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
2^	DOWNLIGHT / WALLWASH RECESSED 4" APERTURE LED	INTEGRAL LED 3000K	1000 lm	11 VA	PHILIPS LIGHTOLIER	C4L10NUVBZ10-C4L10CW30KCCLPVB	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
2B	DOWNLIGHT / CORNER WALLWASH RECESSED 4" APERTURE LED	INTEGRAL LED 3000K	1000 lm	11 VA	PHILIPS LIGHTOLIER	C4L10NUVBZ10-C4L10DW30KCCLPVB	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
	DOWNLIGHT / DOUBLE WALLWASH RECESSED 4" APERTURE LED	INTEGRAL LED 3000K	1000 lm	11 VA	PHILIPS LIGHTOLIER	C4L10NUVBZ10-C4L10WW30KCCLPVB	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
	DOWNLIGHT / WALLWASH RECESSED SQUARE APERTURE LED	INTEGRAL LED 3000K	1000 lm	18 VA	PHILIPS LIGHTOLIER	LLAVRM11H1277-LLAVRMBK1130H1-LLAV11RNF-LLAV11AHBK-LS	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
	ADJUSTABLE OBJECT LIGHT RECESSED SQUARE APERTURE LED ADJUSTABLE OBJECT LIGHT	INTEGRAL LED 3000K	1000 lm	18 VA	PHILIPS LIGHTOLIER	LLAVRM11H1277-LLAVRMBK1130H1-LLAV11RNF-LLAV11AHBK-LS	PORTFOLIO, USAI EDISON PRICE, KURT VERSEN, COOPER	
L4	TRACK MOUNTED LED OBJECT LIGHT	INTEGRAL LED 3000K	2600 lm	150 VA	PHILIPS LIGHTOLIER	LLAV1130BK-LLAV11RNF	PORTFOLIO, USAI EDISION PRICE, LIGHTING SERVICES INC.	SUPPLY WITH MATCHING TRACK SYSTEM WITH ACCESSORIE AND FEEDS AS REQUIRED TO MOUNT ON VERTICAL FACE OF
5-06'	RECESSED LINEAR LED 4" SLOT TROFFER - 6' FIXED LENGTH ACT	INTEGRAL LED 3000K	4050 lm	42 VA	PRUDENTIAL	P43-LED3MO-6'-TMW-SAL-D1-SC-UNV-[MOUNTING]-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK,	CEILING JOISTS AS SHOWN IN LIGHTING DETAILS
06'EM	RECESSED LINEAR LED 4" SLOT TROFFER - 6' FIXED LENGTH ACT	INTEGRAL LED 3000K	4050 lm	42 VA	PRUDENTIAL	P43-LED3MO-6'-TMW-SAL-D1-SC-UNV-[MOUNTING]-DM10	COOPER NEORAY, PHILIPS AXIS, FOCAL POINT, LITECONTROL, MARK,	
5-06P	RECESSED LINEAR LED 4" SLOT TROFFER - NOMINAL 6' WALL-TO-WALL PERIMETER	INTEGRAL LED 3000K	3600 lm	42 VA	PRUDENTIAL	P43-PSTD-REG3-LED3-MO-[VIF]-TMW-AWL-D1R-WTW-SC-[MOUNTING]-UNV-LDE1	COOPER NEORAY, PHILIPS AXIS, FOCAL POINT, LITECONTROL, MARK,	
	MOUNT RECESSED LINEAR LED 4" SLOT TROFFER						COOPER NEORAY, PHILIPS AXIS, FOCAL POINT, LITECONTROL, MARK,	
5-08P	- NOMINAL 8' WALL-TO-WALL PERIMETER MOUNT RECESSED LINEAR LED 4" SLOT TROFFER	INTEGRAL LED 3000K	4800 lm	56 VA	PRUDENTIAL	P43-PSTD-REG3-LED3-MO-[VIF]-TMW-AWL-D1R-WTW-SC-[MOUNTING]-UNV-DM10	COOPER NEORAY, PHILIPS	
-09P	- NOMINAL 9' WALL-TO-WALL PERIMETER MOUNT	INTEGRAL LED 3000K	5400 lm	63 VA	PRUDENTIAL	P43-PSTD-REG3-LED3-MO-[VIF]-TMW-AWL-D1R-WTW-SC-[MOUNTING]-UNV-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
.6A	RECESSED LED OPAL LENSED CIRCULAR TROFFER - 1' DIAMETER WOOD CEILING	INTEGRAL LED 3000K	1100 lm	28 VA	PRUDENTIAL	P9012-LED3SO-FWA-FINISH-SC-UNV-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
AEM	RECESSED LED OPAL LENSED CIRCULAR TROFFER - 1' DIAMETER WOOD CEILING	INTEGRAL LED 3000K	1100 lm	28 VA	PRUDENTIAL	P9012-LED3SO-FWA-FINISH-SC-UNV-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
_6B	RECESSED LED OPAL LENSED CIRCULAR TROFFER - 2' DIAMETER WOOD CEILING	INTEGRAL LED 3000K	3900 lm	67 VA	PRUDENTIAL	P9020-LED3SO-FWA-FINISH-SC-UNV-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
	WALL MOUNTED LINEAR LED DIRECT/INDIRECT SLOT TROFFER - 4' LENGTH	INTEGRAL LED 3000K	3000 lm	· 33 VA	FOCAL POINT	FSM4BW-FLFL-375DN-375UP-30K-1C-UNV-LD1-WM-TS-04'	AXIS, LITECONTROL, MARK, COOPER NEORAY, PHILIPS, PRUDENTIAL	
-06'EM	WALL MOUNTED LINEAR LED DIRECT/INDIRECT SLOT TROFFER - 6'	INTEGRAL LED 3000K	4500 lm	50 VA	FOCAL POINT	FSM4BW-FLFL-375DN-375UP-30K-1C-UNV-LD1-WM-TS-06'	AXIS, LITECONTROL, MARK, COOPER NEORAY, PHILIPS, PRUDENTIAL	
	WALL MOUNTED LINEAR LED DIRECT/INDIRECT SLOT TROFFER - 16'	INTEGRAL LED 3000K	12000 lm	132 VA	FOCAL POINT	FSM4BW-FLFL-375DN-375UP-30K-1C-UNV-LD1-WM-TS-16'	AXIS, LITECONTROL, MARK, COOPER NEORAY,	
	LENGTH CABLE MOUNTED LED O						PHILIPS, PRUDENTIAL AXIS, FOCAL POINT, LITECONTROL, MARK,	
	DIRECT/INDIRECT PENDANT - O SHAPED - 4' DIAMETER SURFACE MOUNTED LED LENSED	INTEGRAL LED 3000K	7600 lm	136 VA	PRUDENTIAL	O-40-LED3SO-FWA-[FINISH]-D9-SC-UNV-SSC-X3-DM10	COOPER NEORAY, PHILIPS	
_10	DOWNLIGHT - CIRCLE SHAPED - 4' DIAMETER	INTEGRAL LED 3000K	11500 lm	110 VA	PRUDENTIAL	P4040-LED3MO0FWA-[FINISH]-D1-SC-UNV-SUR-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
1-08	CABLE MOUNTED LED NARROW "STICK" SLOT - 8' LENGTH	INTEGRAL LED 3000K	6400 lm	72 VA	PRUDENTIAL	HSS-LED3SO-8'-SAL-[FINISH]-SC-UNV-CA48"-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
-U0 IVI	CABLE MOUNTED LED NARROW "STICK" SLOT - 8' LENGTH	INTEGRAL LED 3000K	6400 lm	72 VA	PRUDENTIAL	HSS-LED3SO-8'-SAL-[FINISH]-SC-UNV-CA48"-X3-DM10	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
12A	RECESSED LINEAR LED 1' X 4' TROFFER - LOW OUTPUT RECESSED LINEAR LED 1' X 4' TROFFER -	INTEGRAL LED 3000K	2205 lm	21 VA	LITHONIA	TL4-20L-FW-SWL-[DRIVER]-LP830	COOPER, HUBBELL, PHILIPS	
AEIVI	LOW OUTPUT	INTEGRAL LED 3000K	2205 lm	21 VA	LITHONIA	TL4-20L-FW-SWL-[DRIVER]-LP830	COOPER, HUBBELL, PHILIPS	
12C	RECESSED LINEAR LED 1' X 4' TROFFER RECESSED LINEAR LED 1' X 4' TROFFER	INTEGRAL LED 3000K INTEGRAL LED 3000K	3991 lm 5426 lm	30 VA 55 VA	LITHONIA LITHONIA	TL4-40L-FW-SWL-[DRIVER]-LP830 TL4-60L-FW-SWL-[DRIVER]-LP830	COOPER, HUBBELL, PHILIPS COOPER, HUBBELL, PHILIPS	
	RECESSED LINEAR LED 1' X 4' TROFFER CHAIN MOUNTED LINEAR LED INDUSTRIAL	INTEGRAL LED 3000K INTEGRAL LED 3000K	5426 lm 5800 lm	55 VA 25 VA	LITHONIA LITHONIA	TL4-60L-FW-SWL-[DRIVER]-LP830 WL4-30L-EZ1-LP830	COOPER, HUBBELL, PHILIPS COOPER, HUBBELL, PHILIPS	
	CHAIN MOUNTED LINEAR LED INDUSTRIAL SURFACE MOUNTED OPAL LENSED	INTEGRAL LED 3000K	5800 lm	25 VA	LITHONIA	WL4-30L-EZ1-LP830	COOPER, HUBBELL, PHILIPS	WIRE TO ILLUMINATE IN EMERGENECY CONDITIONS ONLY
4-12'	DIRECT VIEW LED TAPELIGHT COORDINATED WITH CEILING JOISTS	INTEGRAL LED 3000K	1800 lm	40 VA	ACCLAIM	FTU-125-[LENGTH]ABN-FTSELC[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
-18.5'	SURFACE MOUNTED OPAL LENSED DIRECT VIEW LED TAPELIGHT COORDINATED WITH CEILING JOISTS	INTEGRAL LED 3000K	3164 lm	61 VA	ACCLAIM	FTU-125-[LENGTH]ABN-FTSELC[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
4-20'	SURFACE MOUNTED OPAL LENSED DIRECT VIEW LED TAPELIGHT	INTEGRAL LED 3000K	3000 lm	66 VA	ACCLAIM	FTU-125-[LENGTH]ABN-FTSELC[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
	COORDINATED WITH CEILING JOISTS SURFACE MOUNTED IP68 RATED LED TAPELIGHT COORDINATED WITH	INTEGRAL LED 3000K	2331 lm	27 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
101	STOREFRONT SURFACE MOUNTED LED UPLIGHT	INTEGRAL LED 3000K	3108 lm	36 VA				ALLONA E MATTO DED EGGT FOR LA CITATION
	COORDINATED WITH STOREFRONT SURFACE MOUNTED IP68 RATED LED TAPELIGHT COORDINATED WITH	INTEGRAL LED 3000K	3108 lm 3885 lm	36 VA 	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	ALLOW 5 WATTS PER FOOT FOR L9 SERIES
	STOREFRONT SURFACE MOUNTED IP68 RATED LED				ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
	TAPELIGHT COORDINATED WITH STOREFRONT SURFACE MOUNTED IP68 RATED LED	INTEGRAL LED 3000K	5180 lm	60 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
5-24'	TAPELIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	6216 lm	72 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
5-27'	SURFACE MOUNTED IP68 RATED LED TAPELIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	1380 lm	81 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
5-30'	SURFACE MOUNTED LED UPLIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	1380 lm	90 VA	A-LIGHT	Accolade D4 Series	ACCLAIM, JESCO, LED LINEAR, WAC	
5-33'	SURFACE MOUNTED IP68 RATED LED TAPELIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	8547 lm	99 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
E 26!	SURFACE MOUNTED LED UPLIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	1380 lm	0 VA	A-LIGHT	Accolade D4 Series	ACCLAIM, JESCO, LED LINEAR, WAC	
	SURFACE MOUNTED LED UPLIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	10360 lm	120 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
5 <i>15</i> '	SURFACE MOUNTED LED UPLIGHT COORDINATED WITH STOREFRONT	INTEGRAL LED 3000K	11655 lm	135 VA	ACOLYTE	RB-68-24-3.0-30-[LENGTH]	ACCLAIM, JESCO, LED LINEAR, WAC	
.16	RECESSED OPAL LENSED CONTINOUS DIRECT LED SLOT - CUSTOM LENGTH AND	INTEGRAL LED 3000K	3000 lm	140 VA	PRUDENTIAL	SEEM2 LED	AXIS, FOCAL POINT, LITECONTROL, MARK, COOPER NEORAY, PHILIPS	
22	EXTERIOR POLE WITH MULITPLE	INTEGRAL LED 3000K		80 VA	BK LIGHTING	(4) DE-LED-X62-WFL-[FINISH]-13-B	OUGH EN INCORAL, FRIEIPO	
	SPOTLIGHT HEADS - 14' ALUMINUM EXTERIOR LED FLOODLIGHT HEAD	INTEGRAL LED 3000K		20 VA	BK LIGHTING	DE-LED-X62-WFL-[FINISH]-13-B		
.23	EXTERIOR I PRO A PEA LIGHT MANTE							
	EXTERIOR LED AREA LIGHT WITH BACKLIGHT SHIELD SUPPLIED BY UTILITY - 30' POLE	LED	1380 lm	205 VA	DUKE ENERGY - PROGRESS	SHOEBOX LED 205W		



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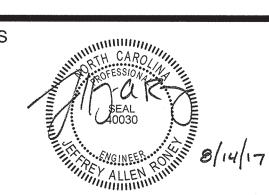
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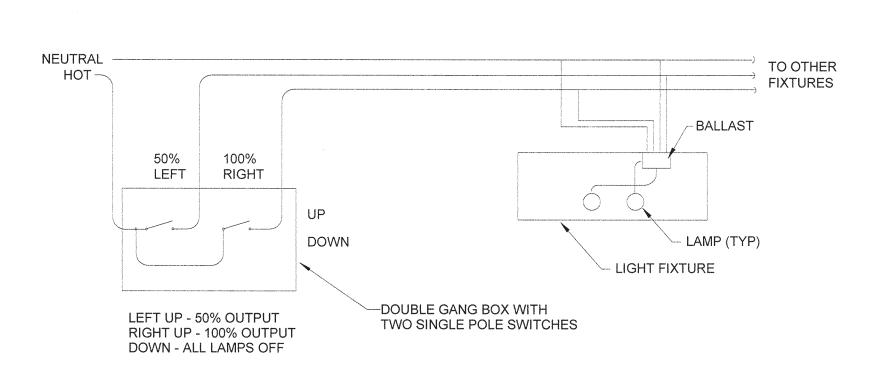
PHASE CONSTRUCTION DOCUMENTS

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

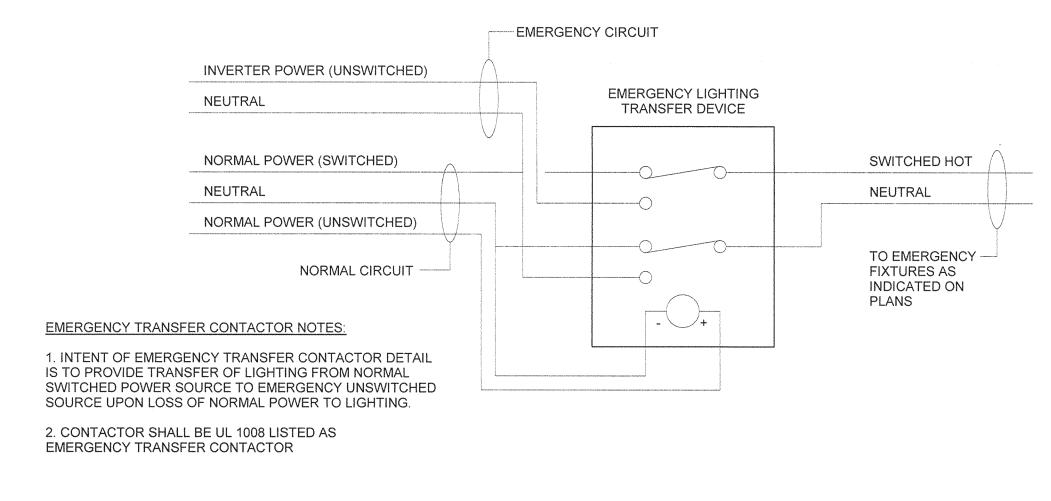
DRAWING TITLE

LIGHTING FIXTURE SCHEDULE

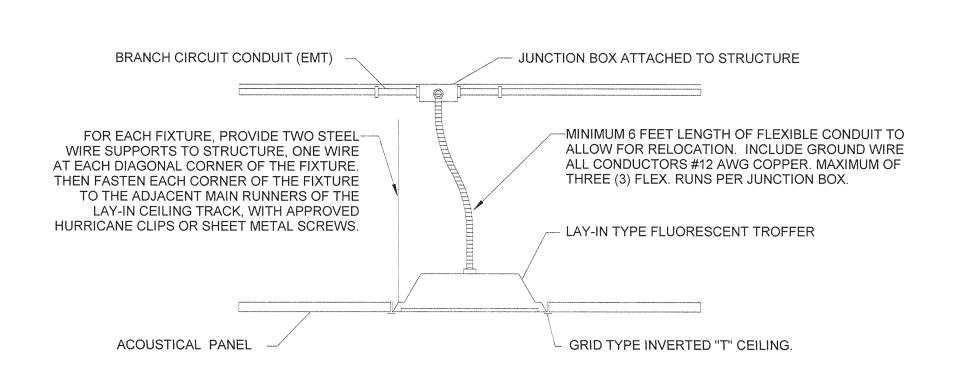
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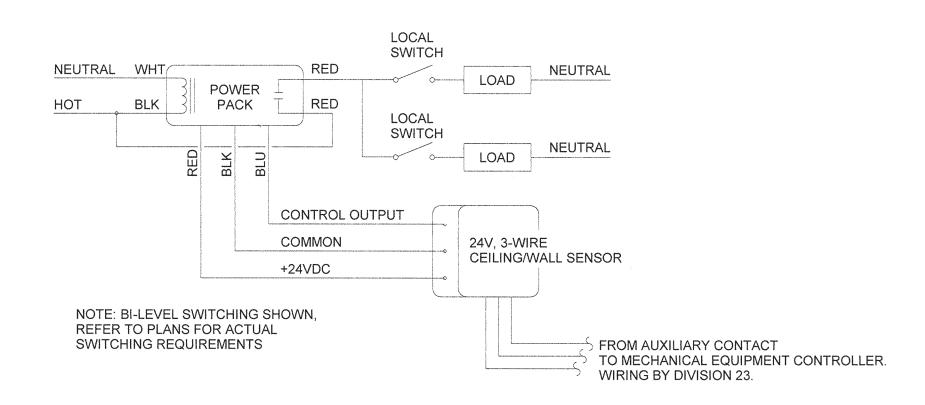
BI-LEVEL LIGHTING CONTROL DIAGRAM



2 EMERGENCY LIGHTING TRANSFER DEVICE WIRING DETAIL
Scale: NOT TO SCALE

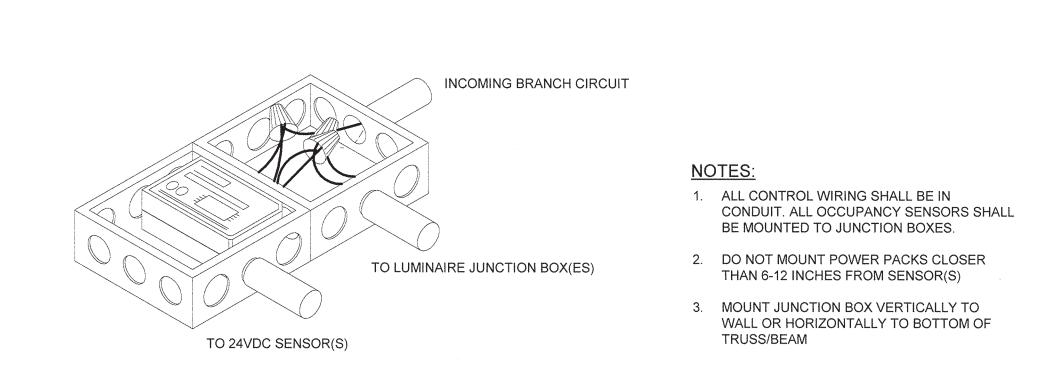


3 LIGHTING FIXTURE MOUNTING DETAIL
Scale: NOT TO SCALE



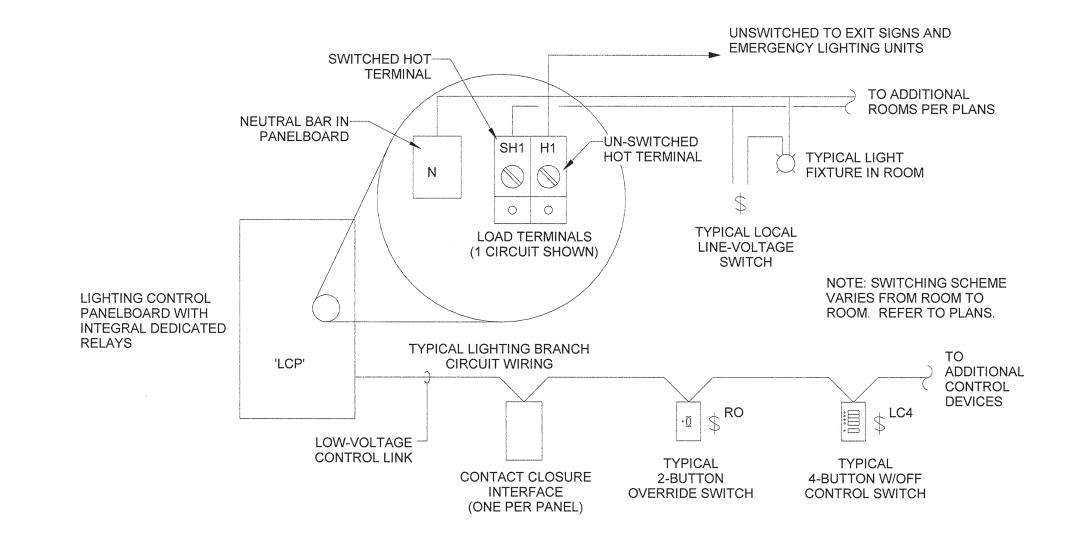
OCCUPANCY SENSOR CONTROL WIRING DIAGRAMS

Scale: NOT TO SCALE

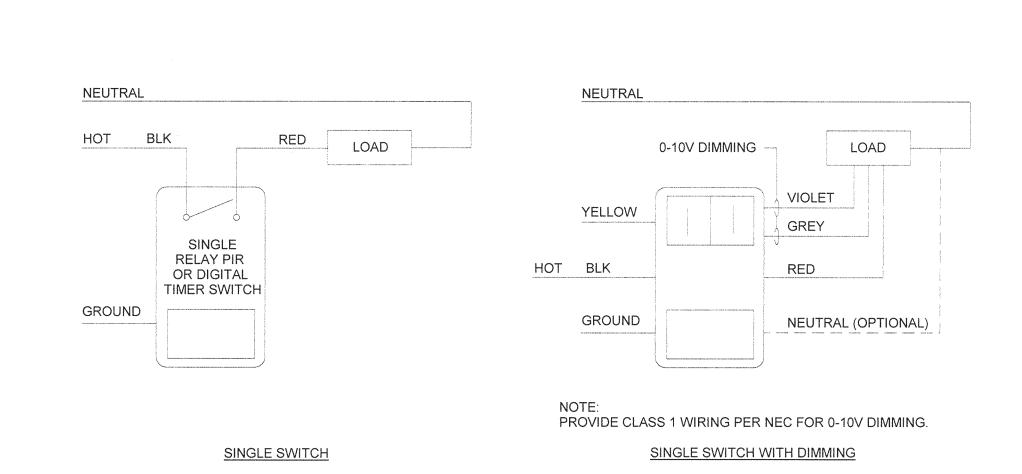


POWER PACK JUNCTION BOX INSTALLATION DETAIL

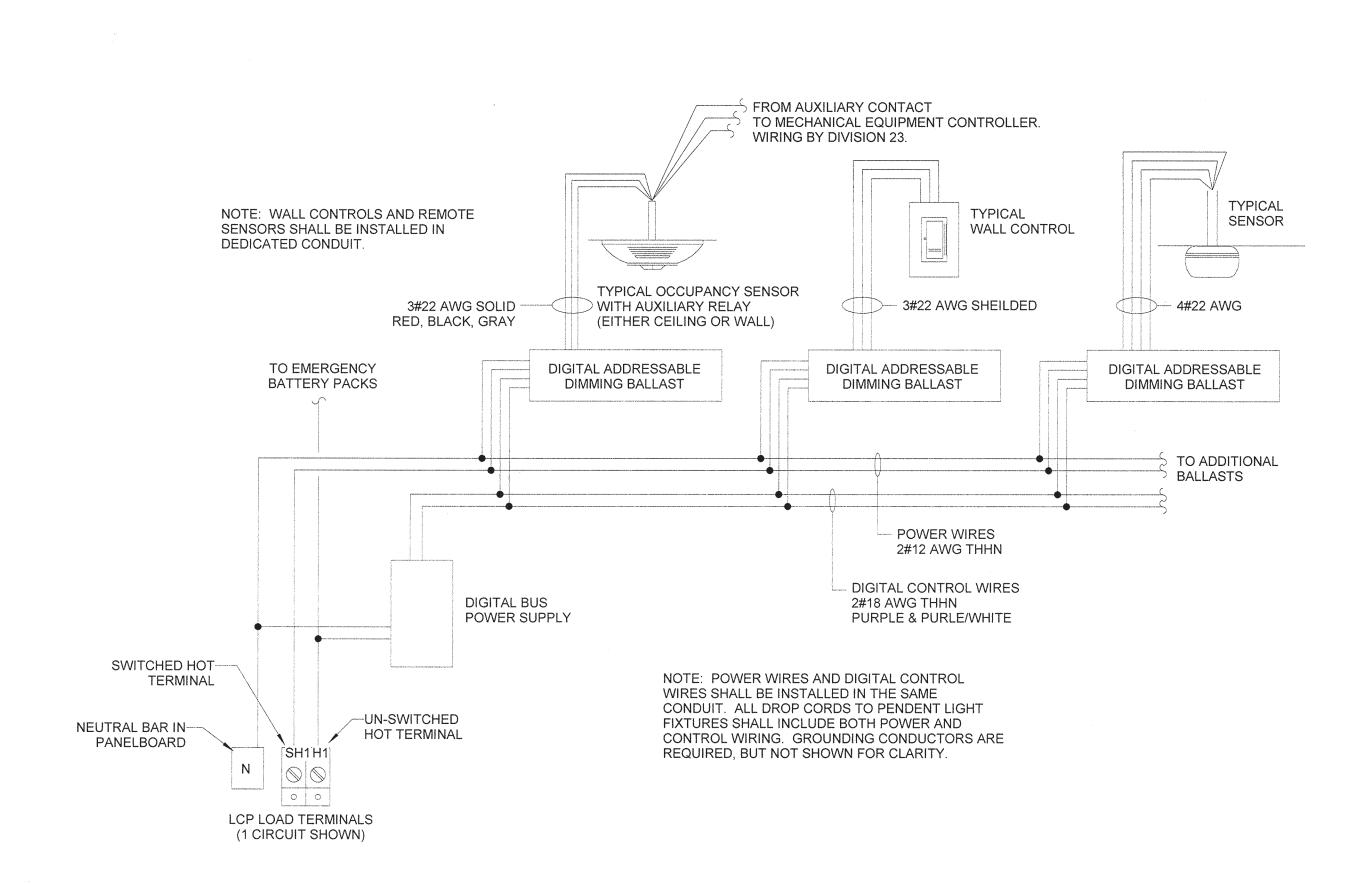
Scale: NOT TO SCALE



6 RELAY LIGHTING CONTROL SYSTEM TYPICAL WIRING DIAGRAM
Scale: NOT TO SCALE



7 WALL SWITCH OCCUPANCY SENSOR WIRING DIAGRAM
Scale: NOT TO SCALE



8 ADDRESSABLE DIMMING LIGHTING CONTROL SYSTEM TYPICAL WIRING DIAGRAM
Scale: NOT TO SCALE



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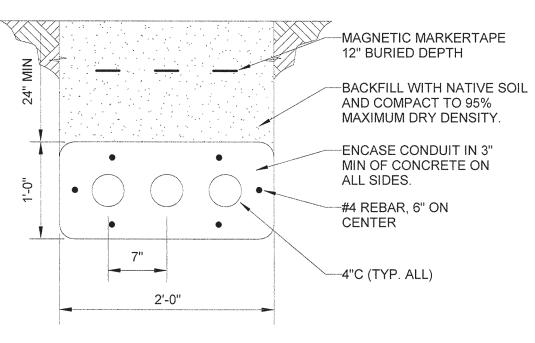
PHASE CONSTRUCTION DOCUMENTS

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

SCO ID #
DRAWING TITLE

ELECTRICAL DETAILS

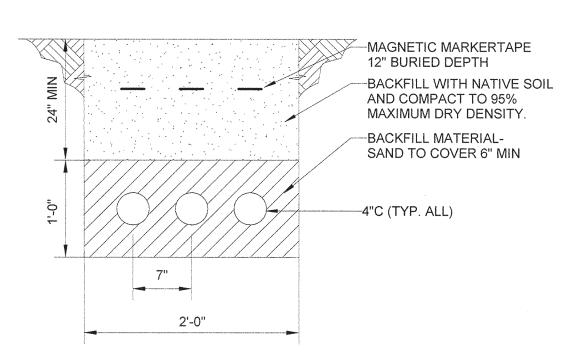
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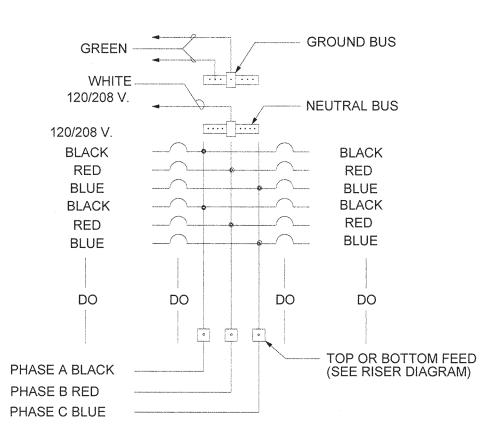
DUCT BANK NOTE:

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.

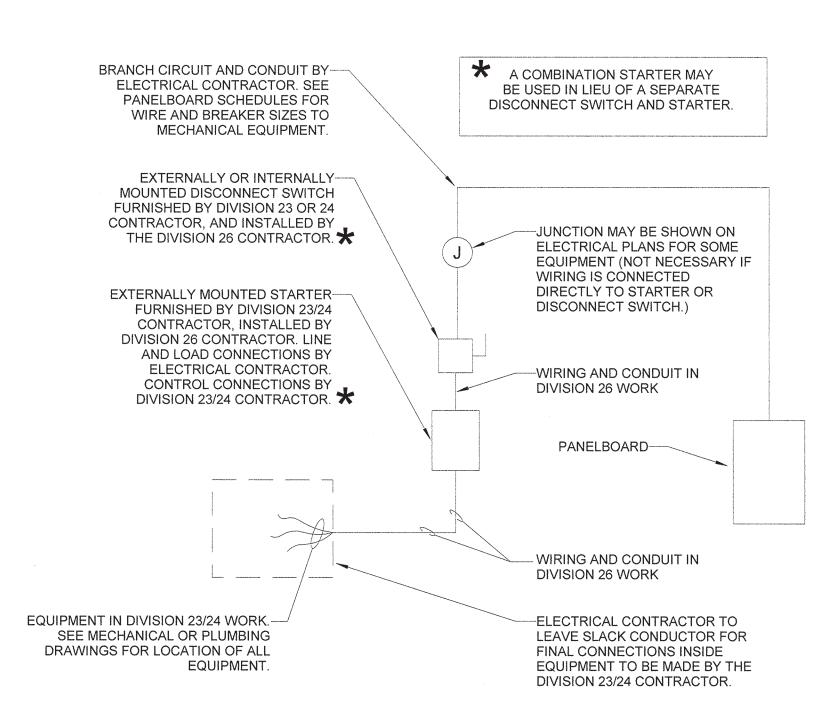
DUCT BANK 'A-A' DETAIL



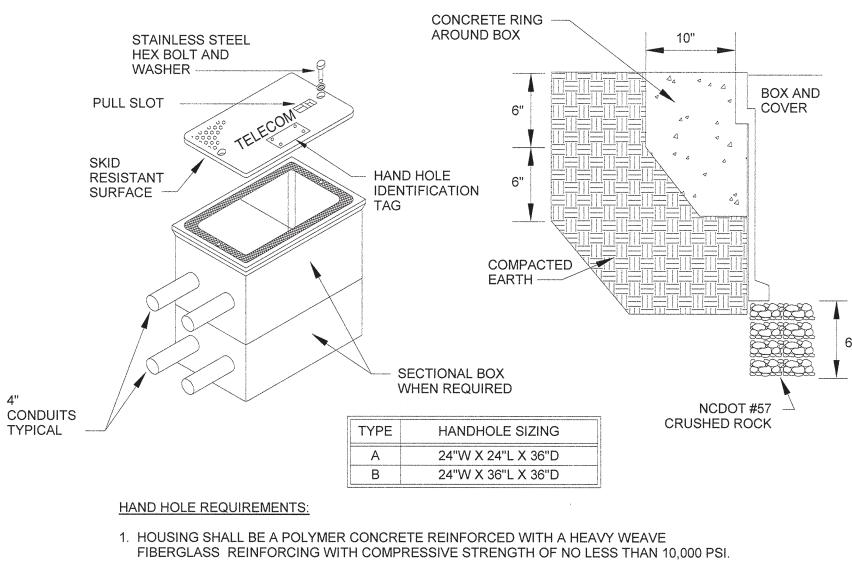
2 DUCT BANK 'B-B' DETAIL
Scale: NOT TO SCALE



WIRING COLOR CODING



6 ELECTRICAL CONNECTIONS TO MECH-PLUMB EQUIPMENT



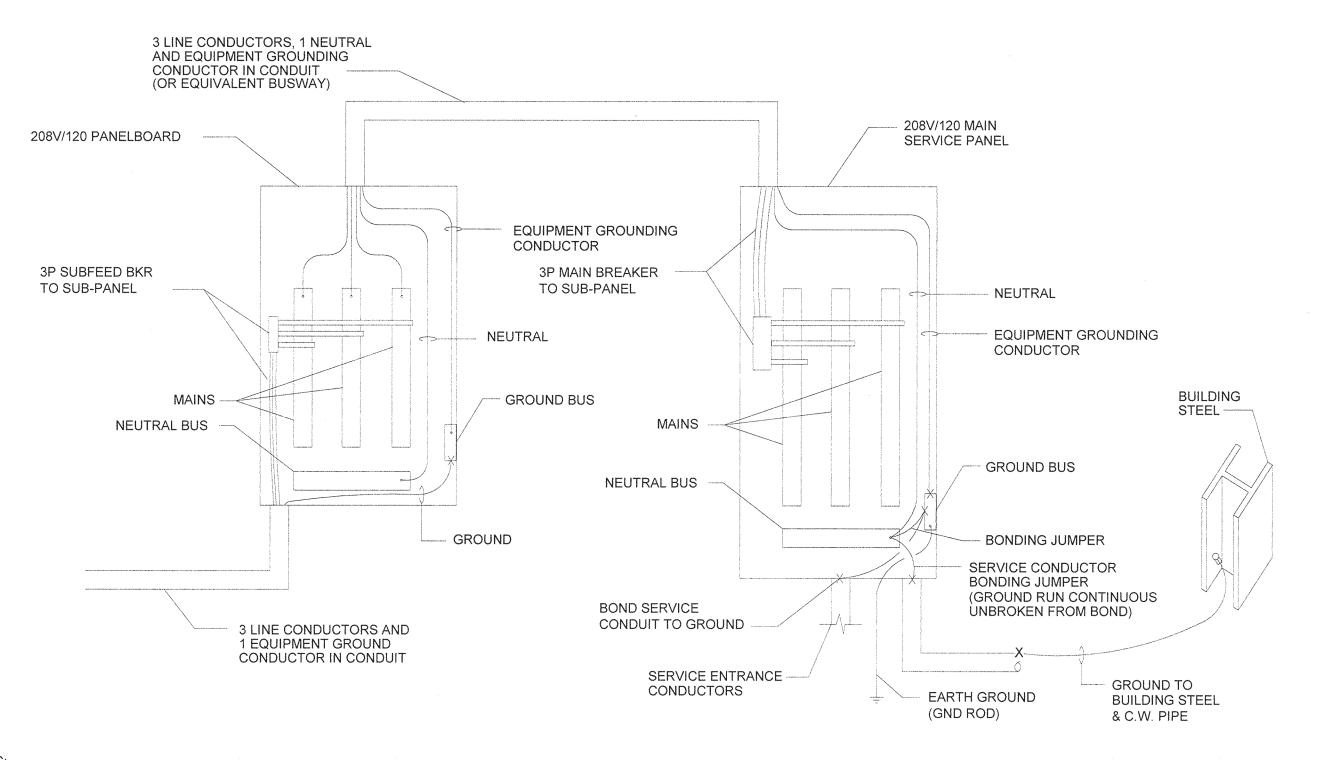
2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA.

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.

HAND HOLE DETAIL

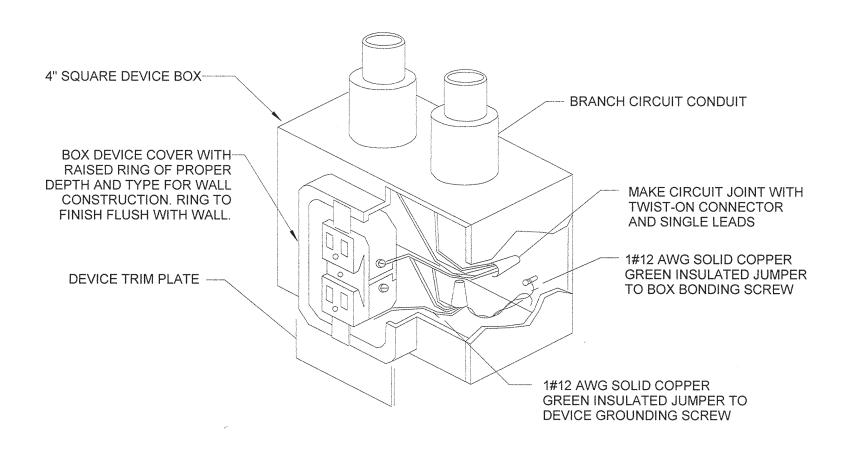


NOTES:

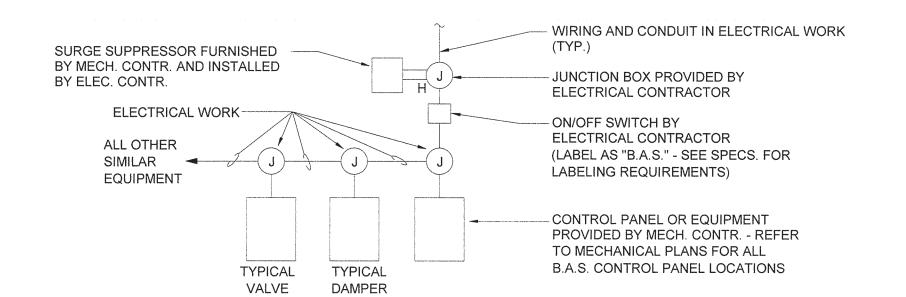
1. ALL CONDUCTORS, NEUTRALS, GROUNDS AND CONDUITS AS SIZED ON RISER AND PANEL SCHEDULES.

9 TYPICAL BONDING AND GROUNDING DIAGRAM
Scale: NOT TO SCALE Scale: NOT TO SCALE

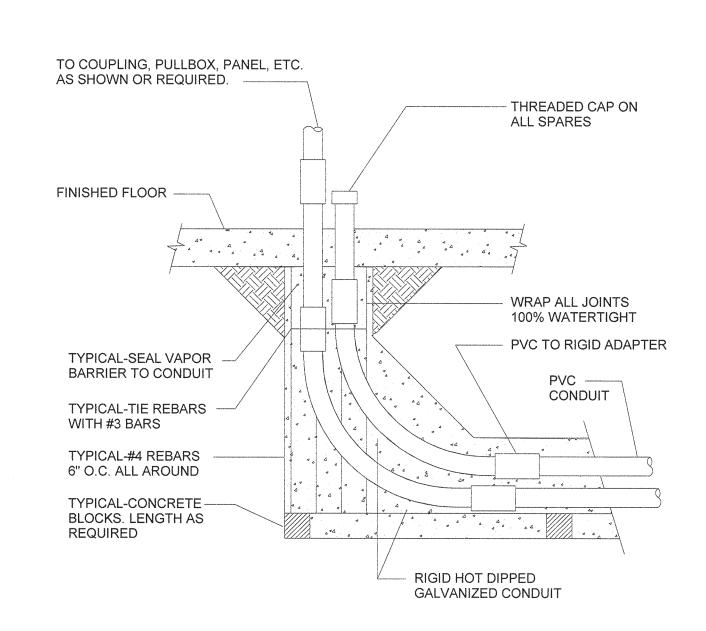
2. SYSTEM GROUND CONDUCTOR SHALL BE CONTINUOUS (UNBROKEN) AND SHALL BE RUN DIRECTLY FROM CONNECTION.



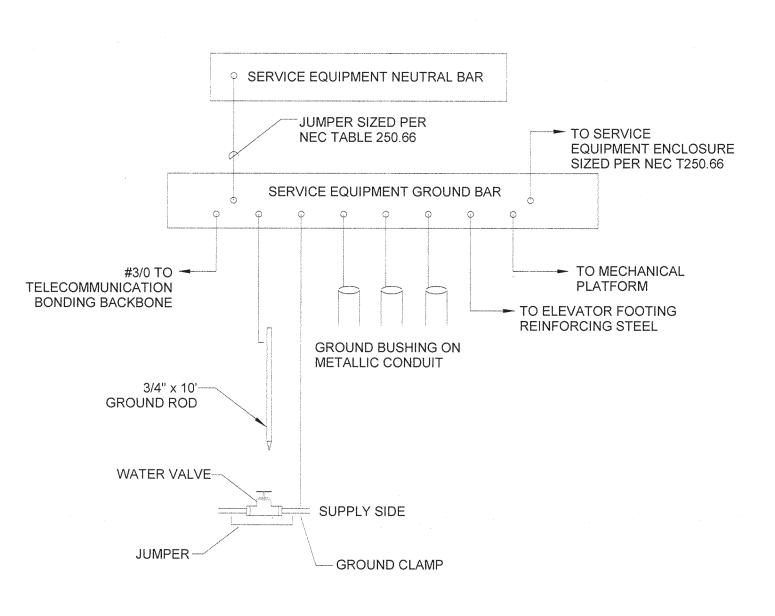
RECEPTACLE GROUNDING DETAIL



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



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



SERVICE BONDING DETAIL



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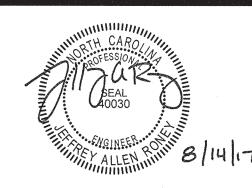
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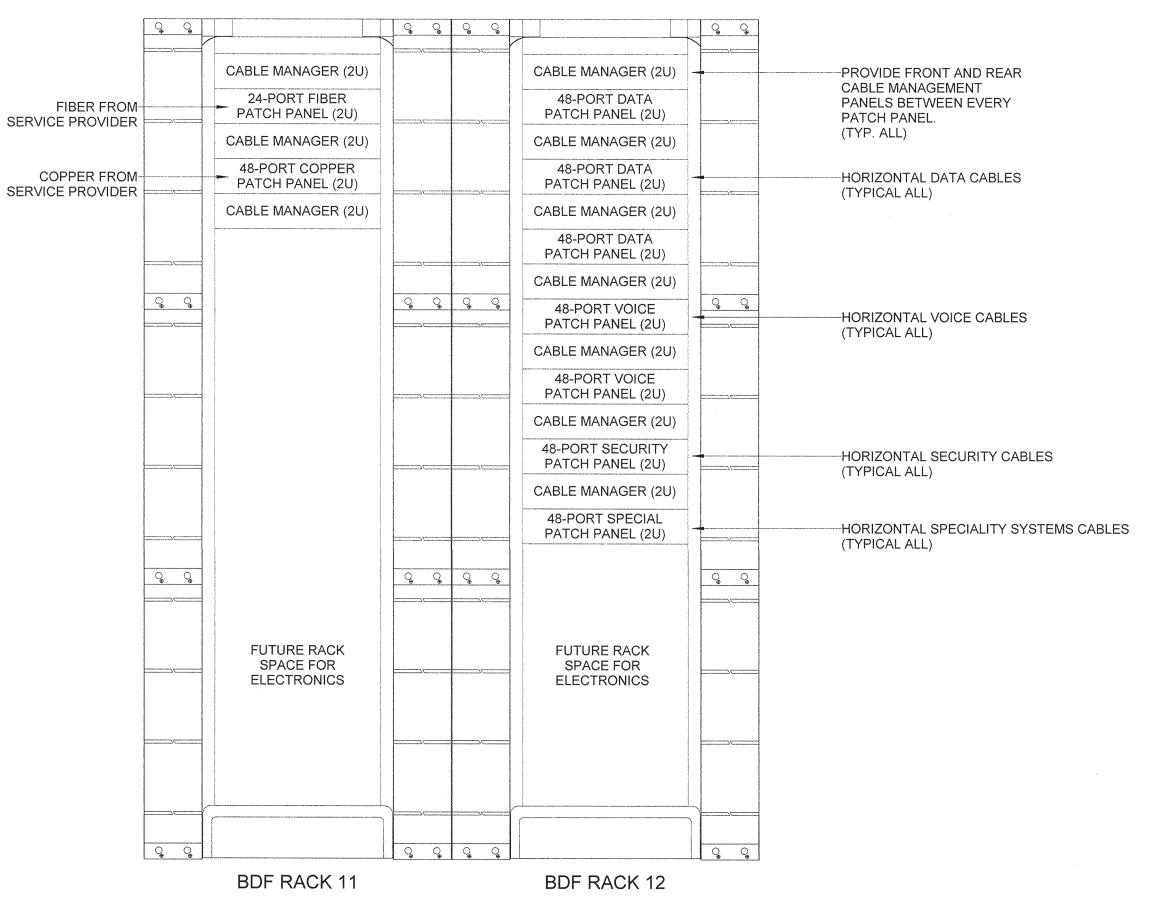
PHASE CONSTRUCTION DOCUMENTS

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

DRAWING TITLE

ELECTRICAL DETAILS

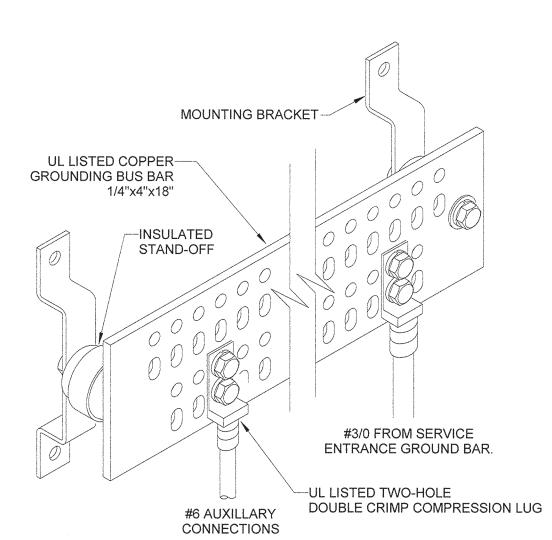
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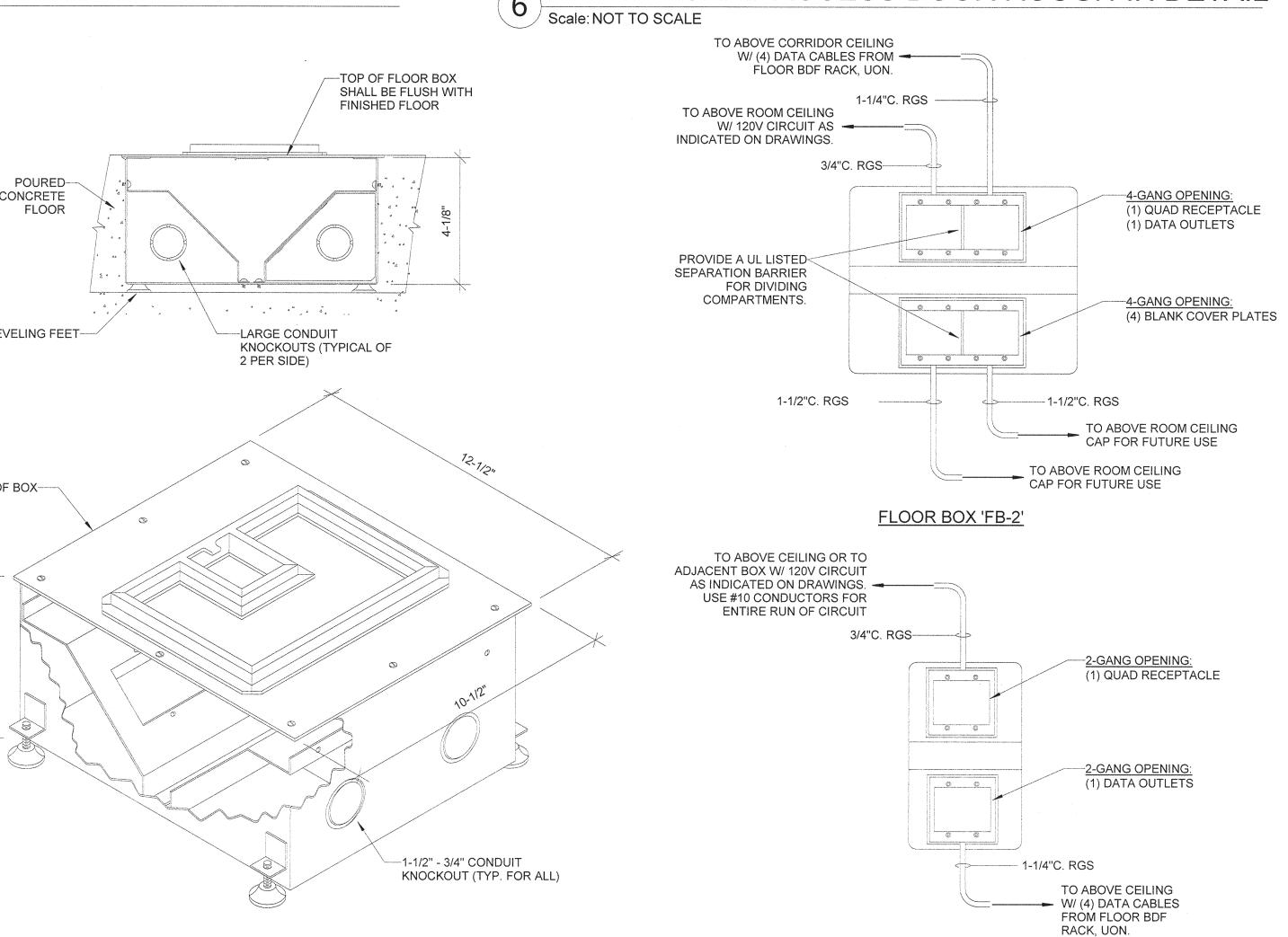
MDF 4-POST EQUIPMENT RACK NOTES:

- 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.
- 3. 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 MULTIPE 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
- OWNER ITS TO SUPPLY AND INSTALL ELECTRONIC EQUIPMENT.
- 10. COORDINATE WITH OWNER ITS FOR FINAL LAYOUT OF RACK EQUIPMENT PRIOR TO BEGINNING WORK.

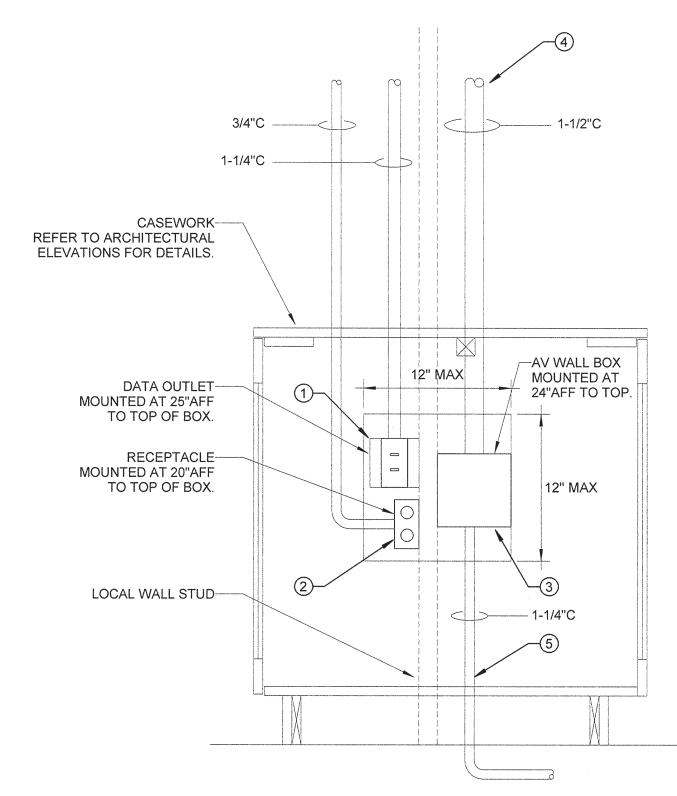




TELECOM GROUNDING BUSBAR DETAIL Scale: NOT TO SCALE



TELECOM EQUIPMENT RACK ELEVATIONS - IT ROOM 130



DEVICE MOUNTING NOTES:

- 1. LOCATION OF ELECTRICAL DEVICES IN CASEWORK SHALL BE COORDINATED WITH NEAREST WALL STUD. COORDINATE WITH ARCHITECTURAL DRAWINGS ON LOCATION AND DIMENSIONS.
- 2. MOUNTING HEIGHTS AND LOCATIONS OF DEVICES IN CASEWORK SHALL BE COORDINATED WITH ENGINEER PRIOR TO ROUGH-IN OF DEVICES.
- 3. ALL VERTICAL WALL CONDUITS IN WALLS SHOWN IN ELEVATION SHALL BE ROUTED TO ABOVE THE LAY-IN CEILING IN THE SPACE, UON. 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 RACK.

- TELECOM OUTLET LOCATED IN BACK WALL OF CASEWORK. REFER TO POWER FLOOR PLANS FOR LOCATIONS. PROVIDE OUTLET WITH (2) DATA CABLES FROM
- (2) 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.

TYPICAL CARD ACCESS DOOR ROUGH-IN DETAIL

1 1/4" EMT STUB-UP-

-STANDARD 4" SQUARE 2 1/8"

SINGLE-GANG 4-PORT-

DATA JACK

DATA JACK

TYPICAL TELECOM OUTLET FACEPLATE DETAILS

--MIN 1/2"C EMT

(CONCEALED)

GANG BOX

ABOVE DOOR

FLOOR BOX 'FB-1'

-RECESSED SINGLE

NOTE: MOUNT RTE BOX

UNOBSTRUCTED BY EXIT

FLOORBOX PLATE

DEEP BACKBOX

TELECOM OUTLET BOX DETAIL

UNLESS NOTED OTHERWISE

SINGLE-GANG 2-PORT-

DATA JACK

DATA JACK

Scale: NOT TO SCALE

DOOR CONTROLLER-

POWER CONNECTION

MIN 1/2"C EMT-

(CONCEALED)

RECESSED SINGLE-

GANG BOX

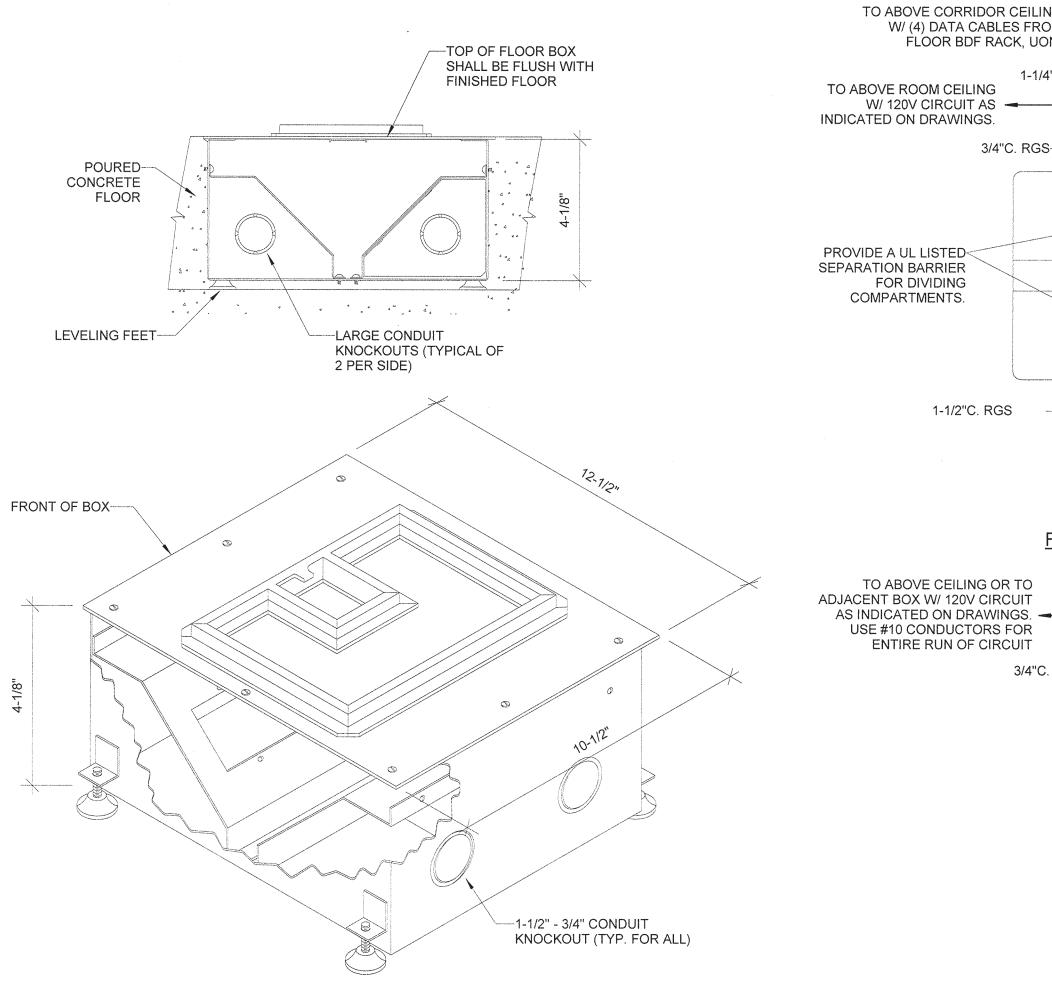
ACCESSIBLE CEILING

WALL PLATE

----4" SQUARE TWO-DEVICE OR SINGLE

FACEPLATE DETAIL

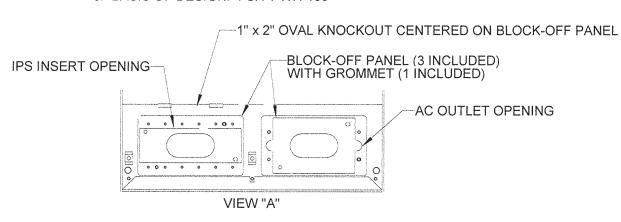
DEVICE COVER/PLASTER RING PER

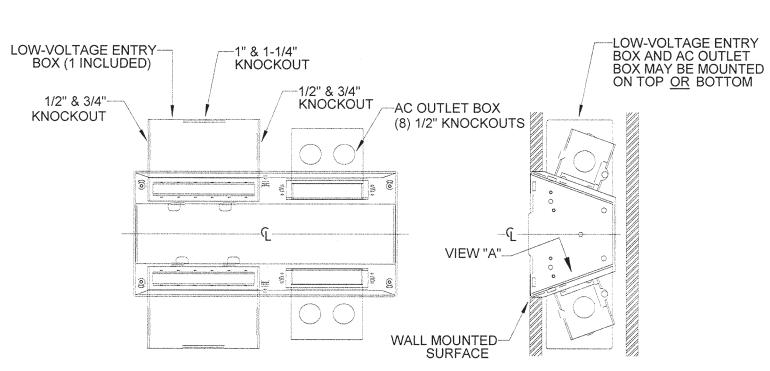


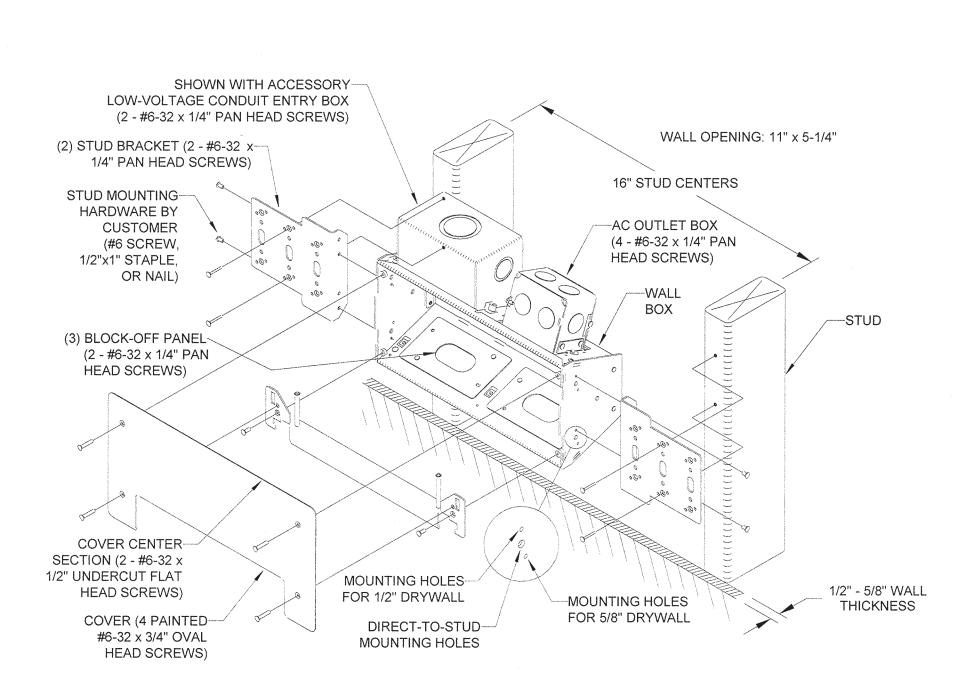
AUDIOVISUAL WALL BOX DETAIL

FLAT DISPLAY WALL BOX NOTES:

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







8 FLAT PANEL DISPLAY WALL BOX

9 STANDARD FLOOR BOX DETAILS Scale: NOT TO SCALE



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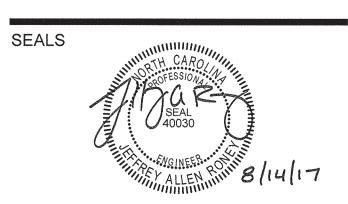
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AUGUST 14, 2017 PROJECT PINE VALLEY BRANCH DEI PROJECT # 50090277 SCO ID#

DRAWING TITLE

ELECTRICAL DETAILS

DRAWING NUMBER E703

AUDIOVISUAL LEGEND:

<u>FLOOR</u> MOUNTED	WALL MOUNTED	<u>CEILING</u> <u>MOUNTED</u>	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.
⊕ ⊲ _{FB}			RECESSED FLOOR BOX PROVIDED BY GENERAL CONTRACTOR. REFER TO AUDIOVISUAL FLOOR BOX SCHEDULE, SHEET TA601.
			PROJECTOR SCREEN
			CONTROL PANEL / CABLE CUBBY
		S	PROGRAM SPEAKER RECESSED IN CEILING. REFER TO SPECIFICATION SECTION 267413, AUDIOVISUAL SYSTEM.
		@	EQUIPMENT CONNECTION
	\$ _M		SWITCH FOR MOTORIZED PROJECTOR SCREEN
		CX	CABLE TAG REFER TO AUDIOVISUAL CABLE SCHEDULE, SHEET TA601.

AUDIOVISUAL ABBREVIATIONS:

AUDIOVISUAL SYSTEMS SCHEDULE **ROOM NUMBER ROOM DESCRIPTION** SYSTEM DESCRIPTION DRAWING NUMBER A/V RACK TYPE NOTES 101 VESTIBULE MESSAGE TA501 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 TOUCH SCREEN SN-2 119 CHILDREN'S PROGRAM PROJECTION TA505 RACK 3 122 MEETING CONFERENCE TA506 RACK 1 SN-4 123 STUDY STUDY TA507 SN-2 124 STUDY STUDY TA507 N/A SN-2 125 STUDY STUDY TA507 SN-2 127 TEEN TEEN COLLABORATION TA508 RACK 2 SN-5 126 MAKER/PROGRAM MAKER COLLABORATION TA509 RACK 5 SN-5 **GENERAL NOTES:** REFER TO SPECIFICATION 267413, PARAGRAPH 1.9 FOR AUDIOVISUAL SYSTEM DESCRIPTIONS. SCHEDULE NOTES: 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. EQUIOPMENT FOR THIS SPACE SHALL LOCATED IN COMMON RACK IN THE CASEWORK OF TEEN ROOM 127. REFER TO RACK ELEVATIONS AND PLANS.

AUDIOVISUAL NOTES:

GENERAL:

- G1: 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.
- G2: DO NOT COVER UP CONSTRUCTION UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER AND THE ELECTRICAL INSPECTOR.
- G3: 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.
- G4: 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.
- G5: 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.
- G6: 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.
- G7: 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.
- G8: 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.
- G9: COORDINATE LOCATIONS OF ALL RATED WALL ASSEMBLIES WITH THE ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.

AUDIOVISUAL:

TA601

TA701

TA702

- AV1: 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.
- AV2: CABLING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.
- AV3: ETHERNET CABLING SHALL NOT EXCEED 295 FEET IN LENGTH AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- AV4: REFER TO ALL RISER DIAGRAMS FOR ADDITIONAL CONDUIT AND CABLE REQUIREMENTS. FURNISH AND INSTALL ALL CABLE AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.
- AV5: ALL CABLE KNOCKOUTS AND CABLE PASS THROUGHS ARE TO BE EQUIPPED WITH GROMMETS FOR PROTECTION OF CABLE. TYPICAL OF METAL CABINETS, EQUIPMENT RACKS, PRESENTATION CONSOLES, AND COUNTER TOPS.
- AV6: ALL CABLE SHALL BE CONTINUOUS FROM HEAD END ELECTRONICS TO FIELD DEVICE.
- AV7: 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.
- AV8: CLEAN ALL EQUIPMENT TO PRESENT A "NEW" CONDITION AT PROJECT COMPLETION.
 VACUUM CLEAN INTERNAL AREAS OF EQUIPMENT RACKS AND ENCLOSURES
- AV9: ALL CABLE FASTENING AND BUNDLING SHALL USE VELCRO FASTENERS TO PREVENT DAMAGES TO CABLE. CABLE TIES SHALL NOT BE ACCEPTED.
- AV10: ALL CABLING SHALL BE PLENUM RATED, UON.

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 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

AUDIOVISUAL SCHEDULES

AUDIOVISUAL DETAILS

AUDIOVISUAL DETAILS

DRAWING LIST - AUDIOVISUAL



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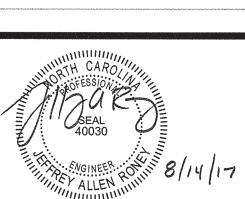
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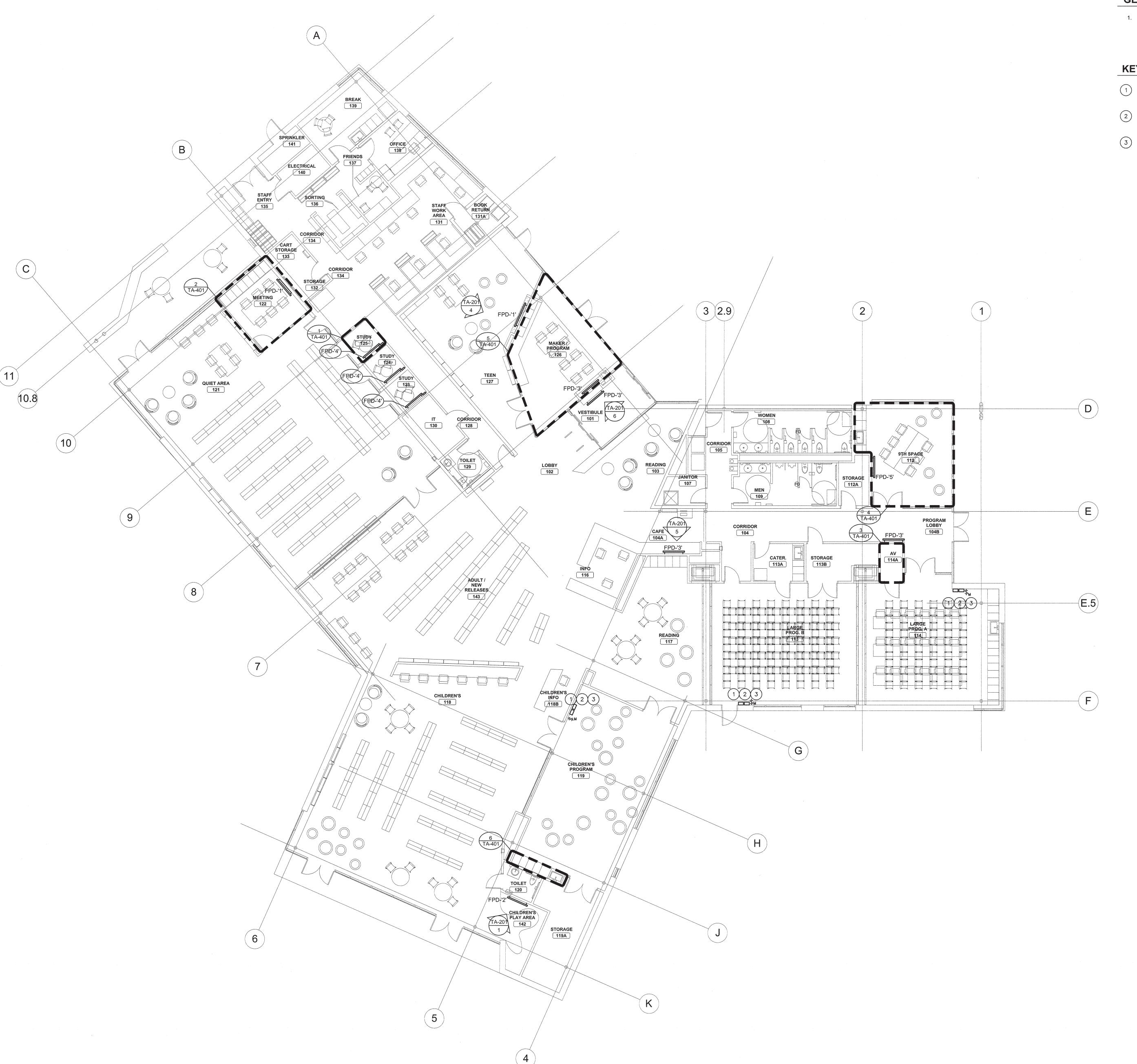
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DATE AUGUST 14, 2017
PROJECT PINE VALLEY BRANCH
DEI PROJECT # 5009027
SCO ID # -

DRAWING TITLE

AUDIOVISUAL NOTES, LEGEND, & ABBREVIATIONS

DRAWING NUMBER



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

KEY NOTES:

- 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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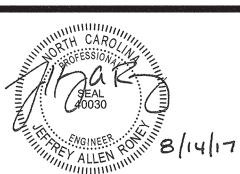
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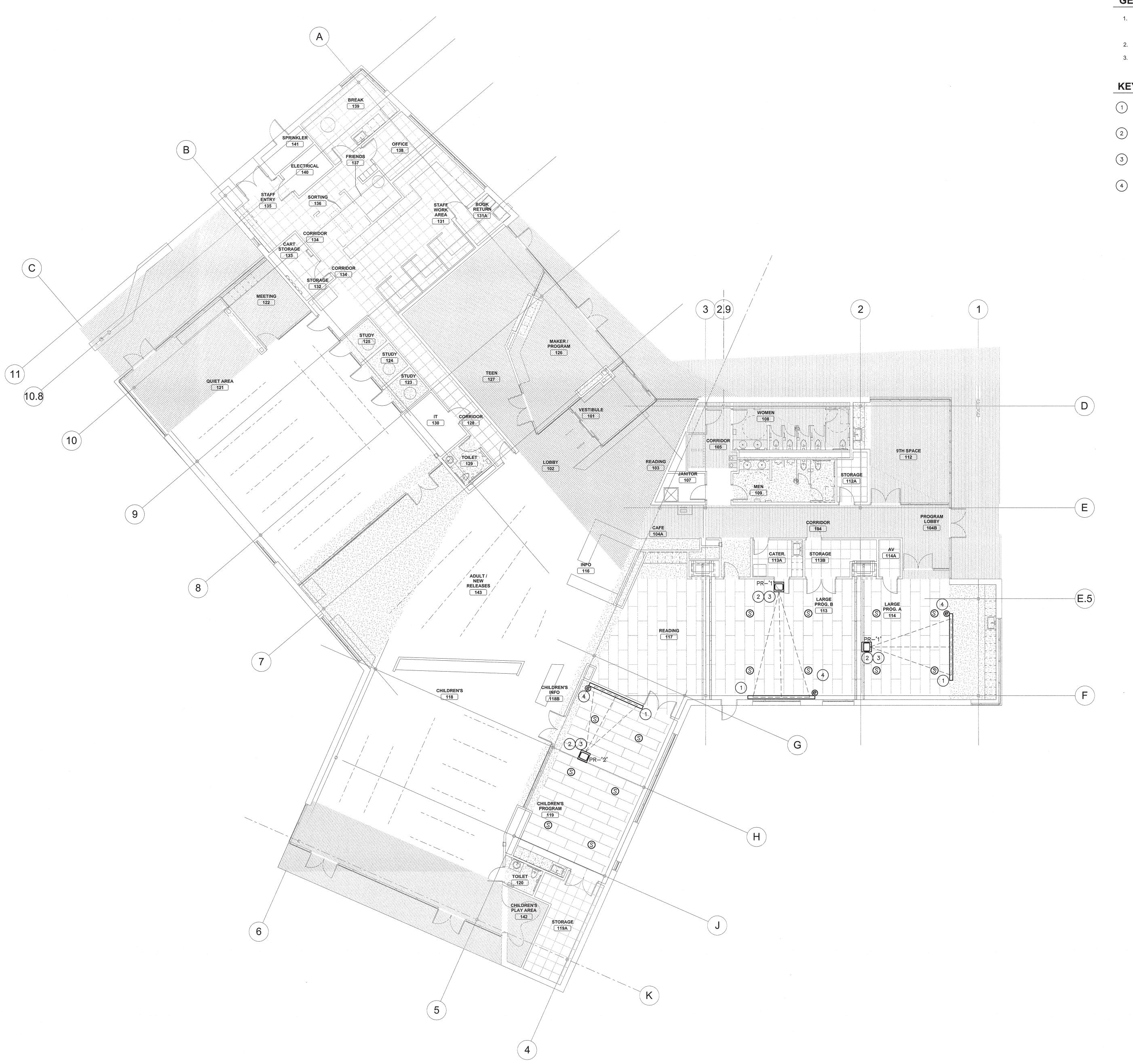
DRAWING TITLE

FIRST FLOOR PLAN -AUDIOVISUAL

50090277

DRAWING NUMBER

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



FIRST FLOOR PLAN - TECHNOLOGY

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

GENERAL NOTES:

- 1. REFER TO DIVISIBLE PROJECTION BLOCK DIAGRAM FOR CONNECTION OF EQUIPMENT AND CABLING INFORMATION, SHEET
- 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
- 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
- PROVIDE CONTROL CABLING FROM AUDIOVISUAL SYSTEM TO MOTOR CONTROLLED PROJECTION SCREEN. REFER TO BLOCK DIAGRAMS.



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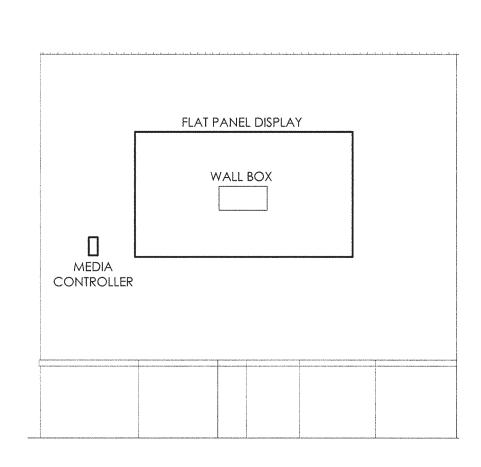
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DRAWING TITLE FIRST FLOOR RCP -AUDIOVISUAL

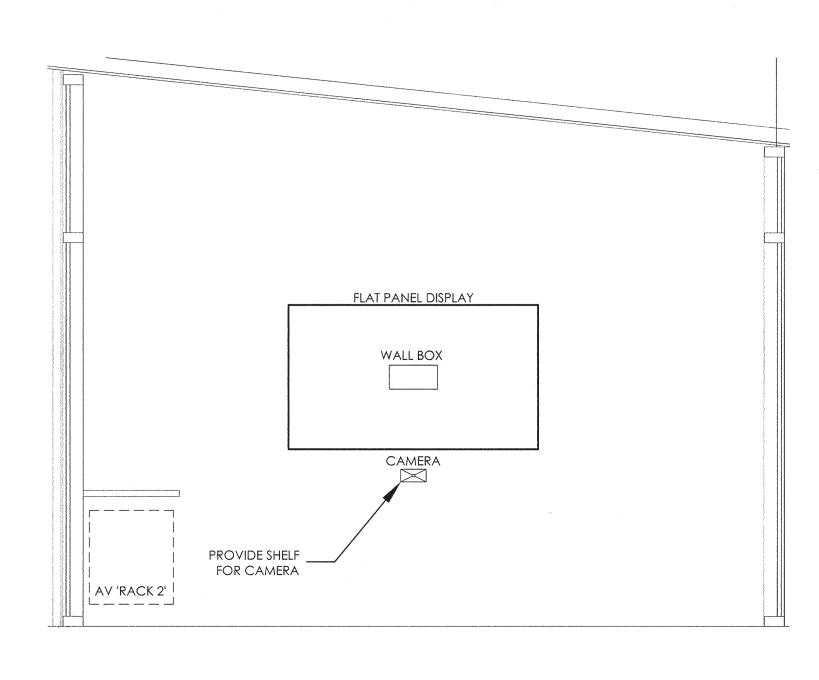
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DRAWING NUMBER

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

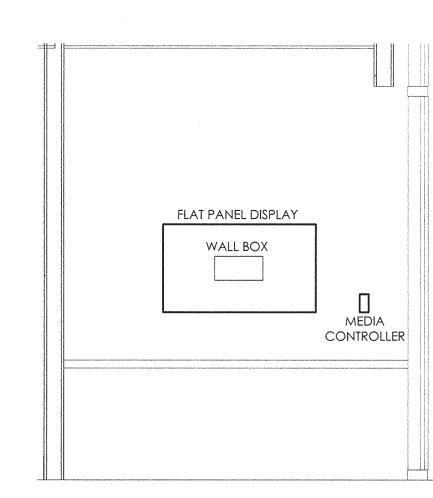


1 CHILDREN'S WALL ELEVATION
Scale: 1/2" = 1'-0"

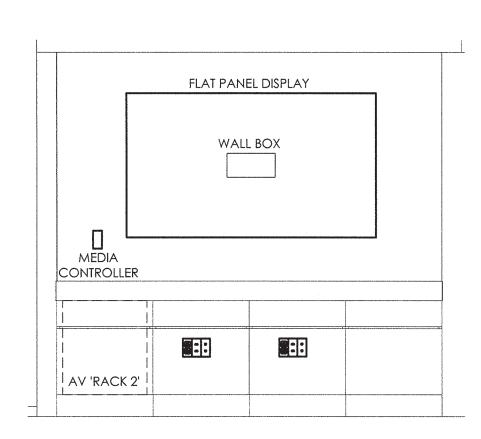


MEETING ROOM WALL ELEVATION

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

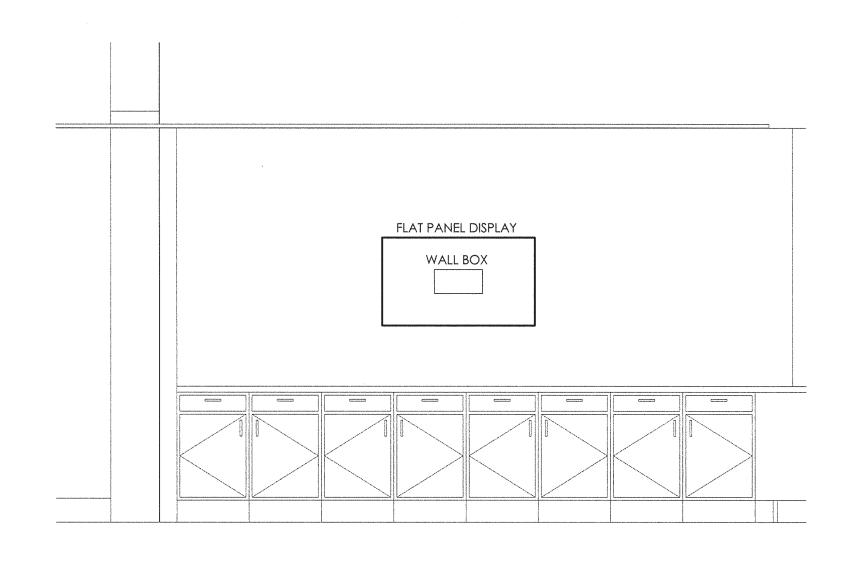


3 TYPICAL STUDY ROOM WALL ELEVATION
Scale: 1/2" = 1'-0"



TEEN ROOM WALL ELEVATION

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

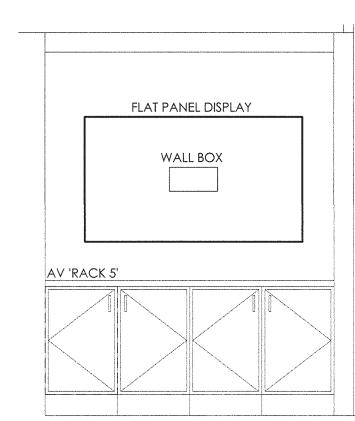


5 CAFE WALL ELEVATION
Scale: 1/2" = 1'-0"



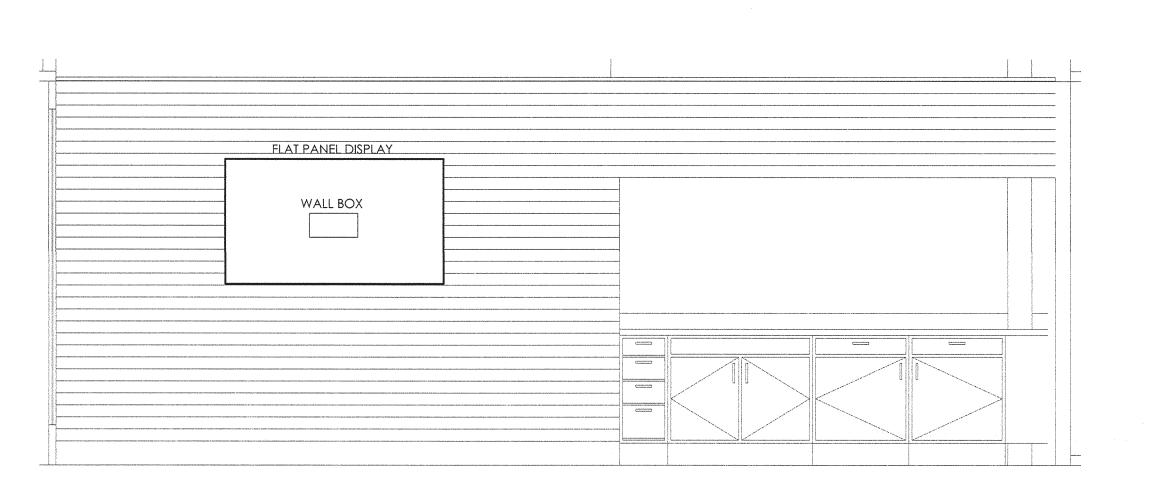
6 VESTIBULE WALL ELEVATION

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

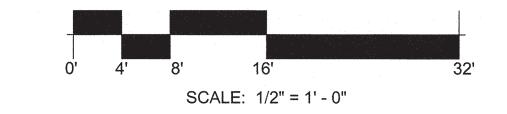


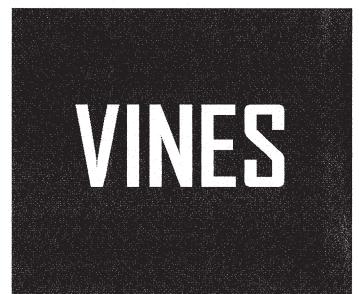
7 MAKER/PROGRAM ROOM WALL ELEVATION

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



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





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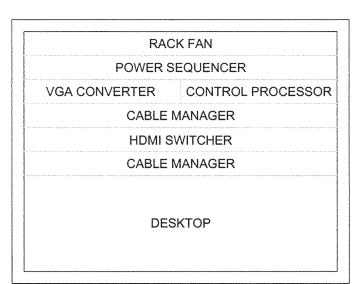
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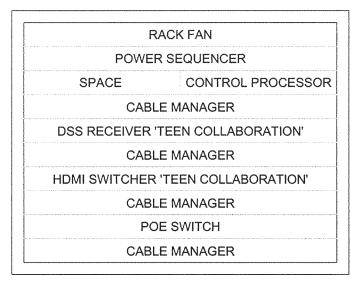
DRAWING TITLE

ROOM ELEVATIONS

DRAWING NUMBER



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



	SPACE
	RACK FAN
POWI	ER SEQUENCER
CAE	BLE MANAGER
ME	DIA SWITCHER
CAE	BLE MANAGER
Р	OE SWITCH
CAE	BLE MANAGER
AMP	CONTROL PROCESSOR
CAE	BLE MANAGER

CABLE MANAGER VGA CONVERTER CONTROL PROCESSOR CABLE MANAGER HDMI SWITCHER CABLE MANAGER POE SWITCH CABLE MANAGER MATRIX SWITCHER CABLE MANAGER BLUERAY PLAYER 'A' CABLE MANAGER DSS RECEIVER 'A' CABLE MANAGER BLUERAY PLAYER 'B' CABLE MANAGER DSS RECEIVER 'B' CABLE MANAGER AUDIO MANAGER CABLE MANAGER MIC RECEIVER CABLE MANAGER SPACE AMPLIFIER CABLE MANAGER POWER SEQUENCER POWER SEQUENCER SPACE

4 AV 'RACK 4' ELEVATION
Scale: NOT TO SCALE

RACK FAN POWER SEQUENCER POE SWITCH CABLE MANAGER VGA CONVERTER CONTROL PROCESSOR CABLE MANAGER HDMI SWITCHER 'MAKER LAB' CABLE MANAGER DSS RECEIVER 'MAKER LAB' CABLE MANAGER

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
- 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.

AND INFORMATION ON A/V RACK TO BE PROVIDED.



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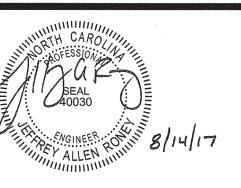
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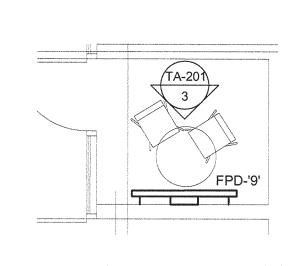
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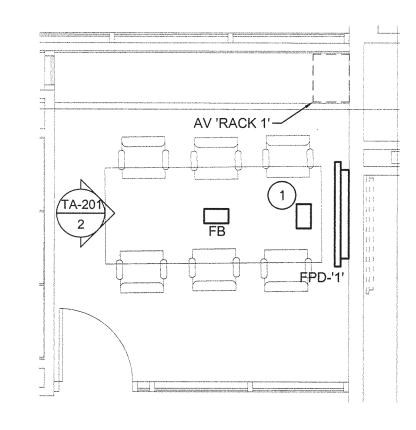
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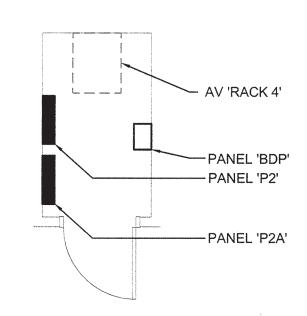
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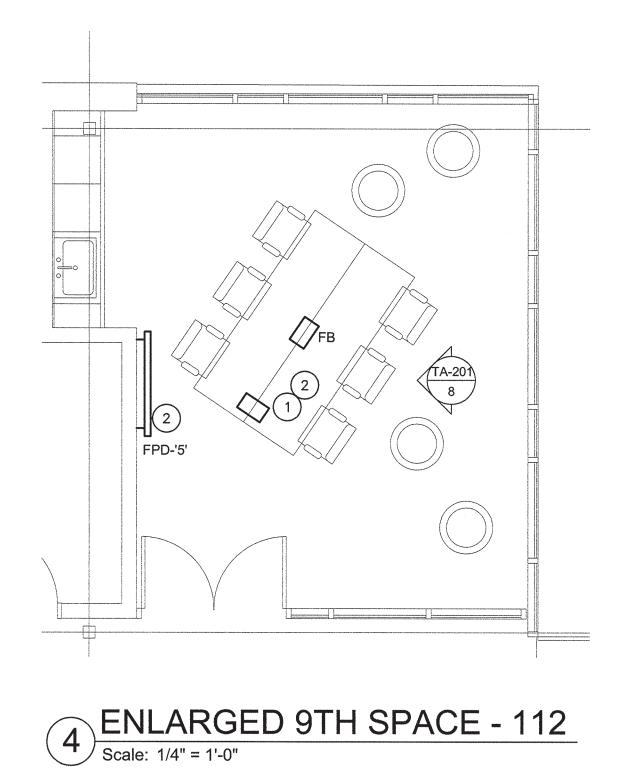
1 ENLARGED STUDY ROOM (TYPICAL)
Scale: 1/4" = 1'-0"

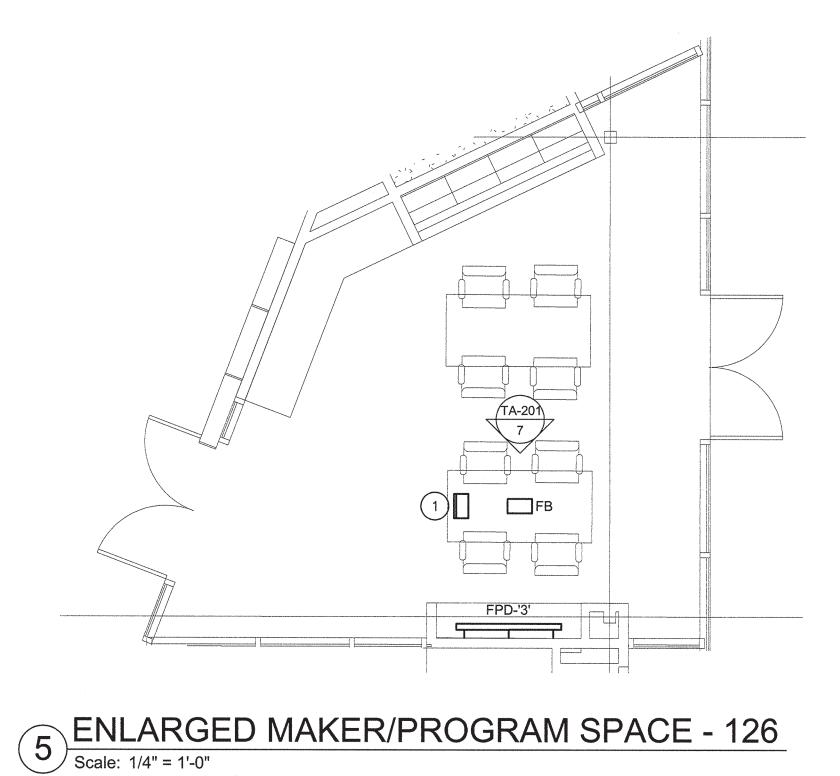


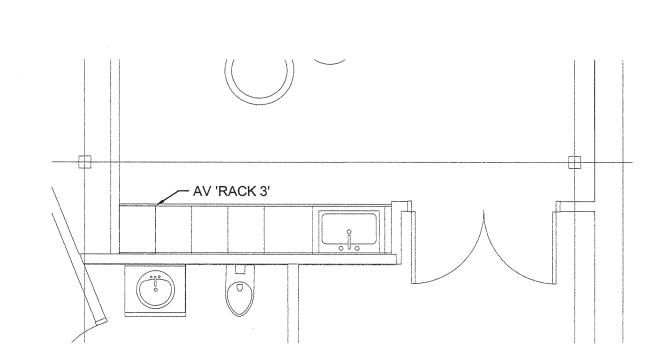
2 ENLARGED MEETING ROOM - 122
| Scale: 1/4" = 1'-0"



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







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

GENERAL NOTES:

INFORMATION.

- 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
- 4. REFERENCE CABLE CUBBY AND FLOOR BOX DETAILS, SHEET TA-501.

KEY NOTES:

- 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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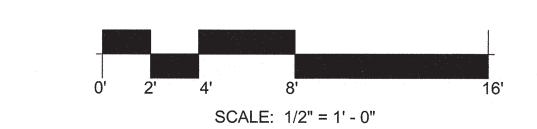
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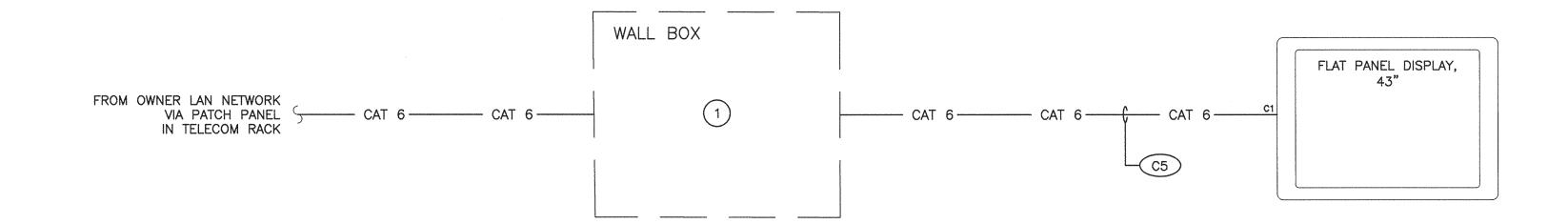
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DRAWING TITLE FIRST FLOOR PLAN -ENLARGED PLANS

50090277



DRAWING NUMBER



CABLE LEGEND:

----- CAT 6 ----- ETHERNET

- 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.

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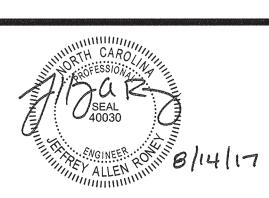
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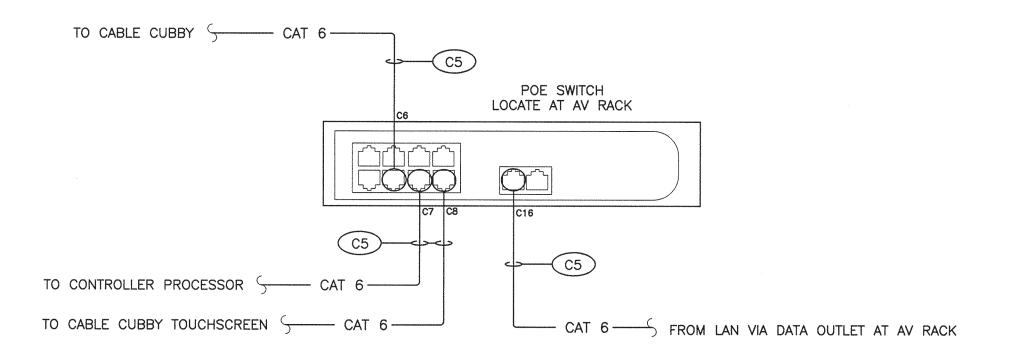
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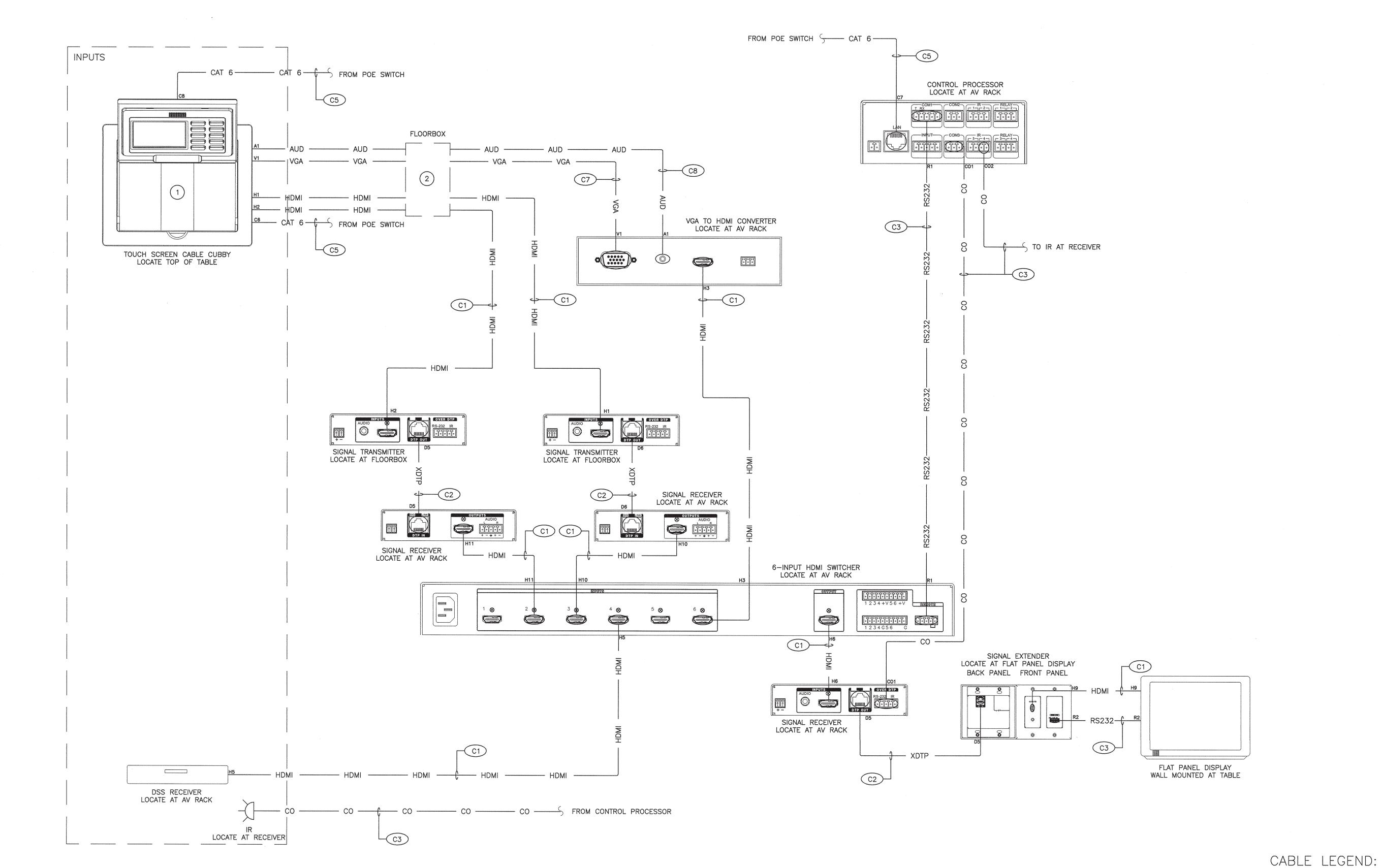
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DRAWING TITLE

MESSAGE **BLOCK DIAGRAM**

DRAWING NUMBER





- 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:
- NETWORK CONNECTION IN CABLE CUBBY TO PORT 2
 CONTROL PROCESSOR TO PORT 3
- CONTROL PROCESSOR TO PORT 3
 TOUCH SCREEN IN CABLE CUBBY TO PORT 4
 LAN TO PORT 16

----- CAT 6 ----- ETHERNET

KEY NOTES

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



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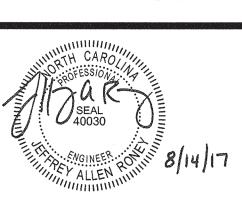
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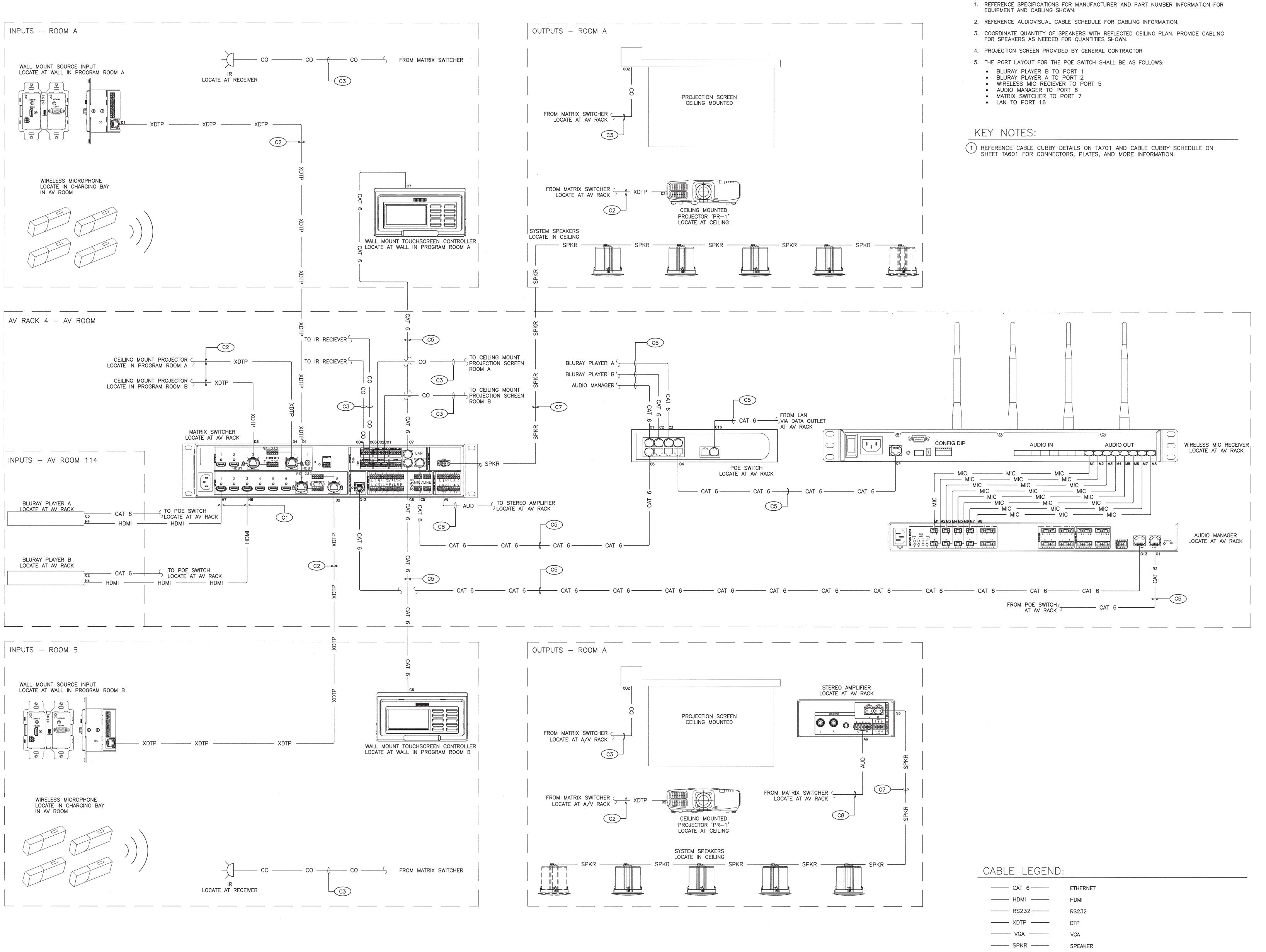
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PROJECT PINE VALLEY BRANCH
DEI PROJECT# 50090277
SCO ID# -

DRAWING TITLE

COLLABORATION BLOCK DIAGRAM

DRAWING NUMBER





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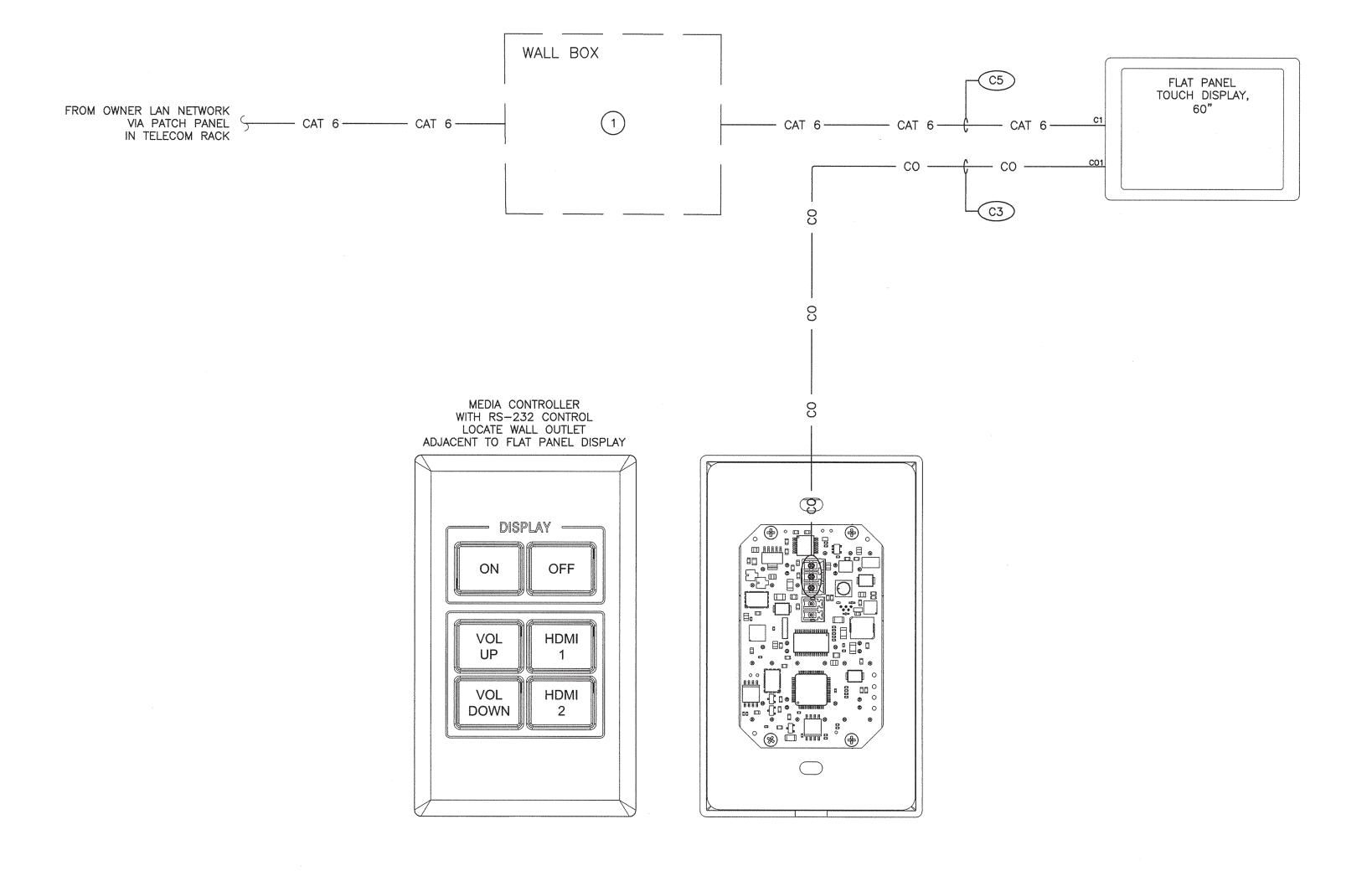
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- 1. REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
- 2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.

KEY NOTES:

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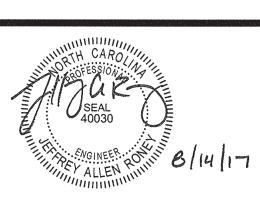
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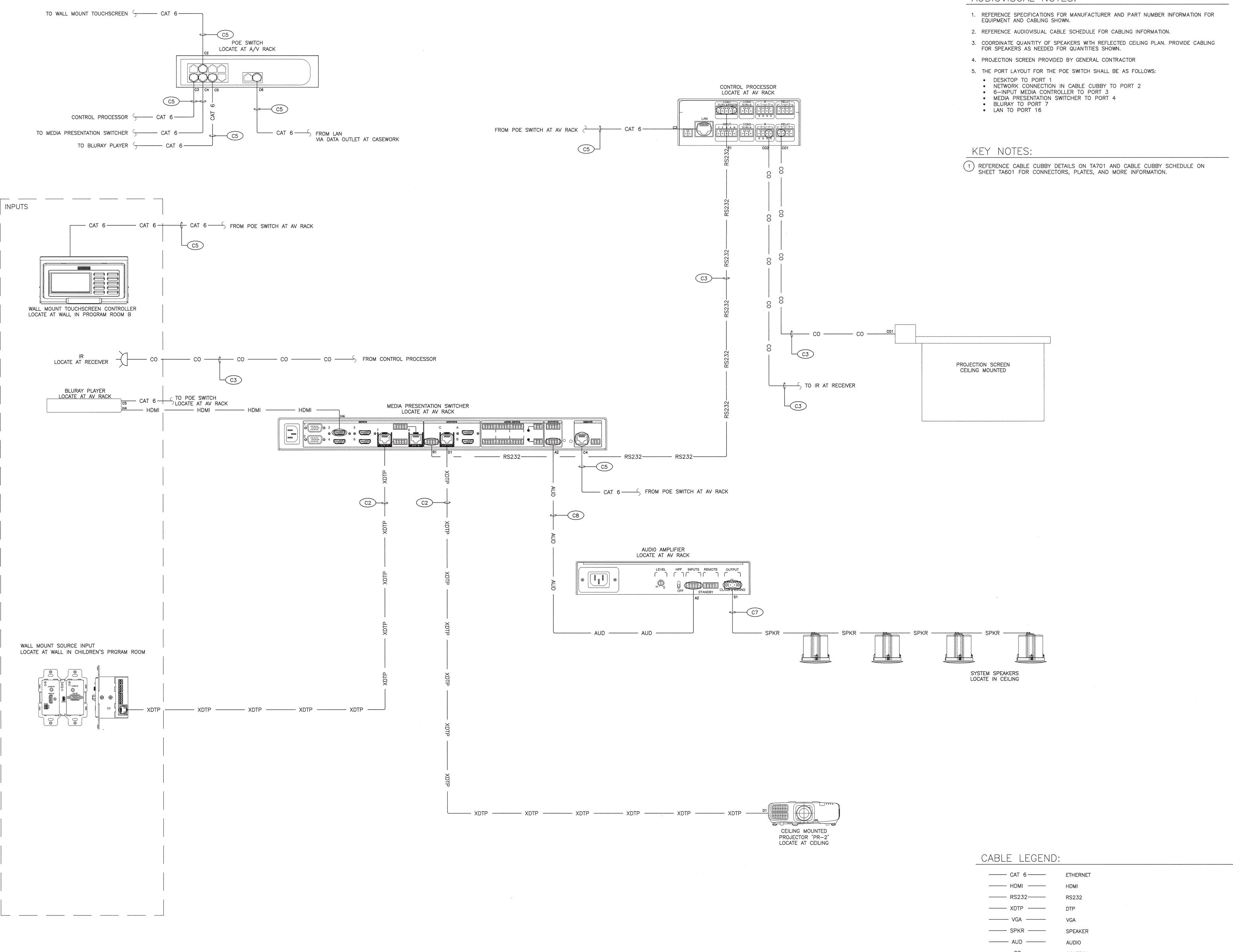
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> SCO ID# DRAWING TITLE

TOUCH SCREEN **BLOCK DIAGRAM**

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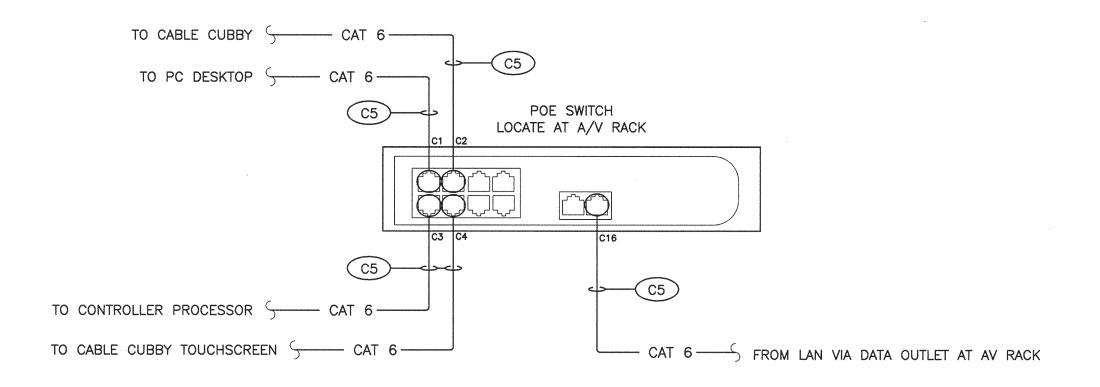
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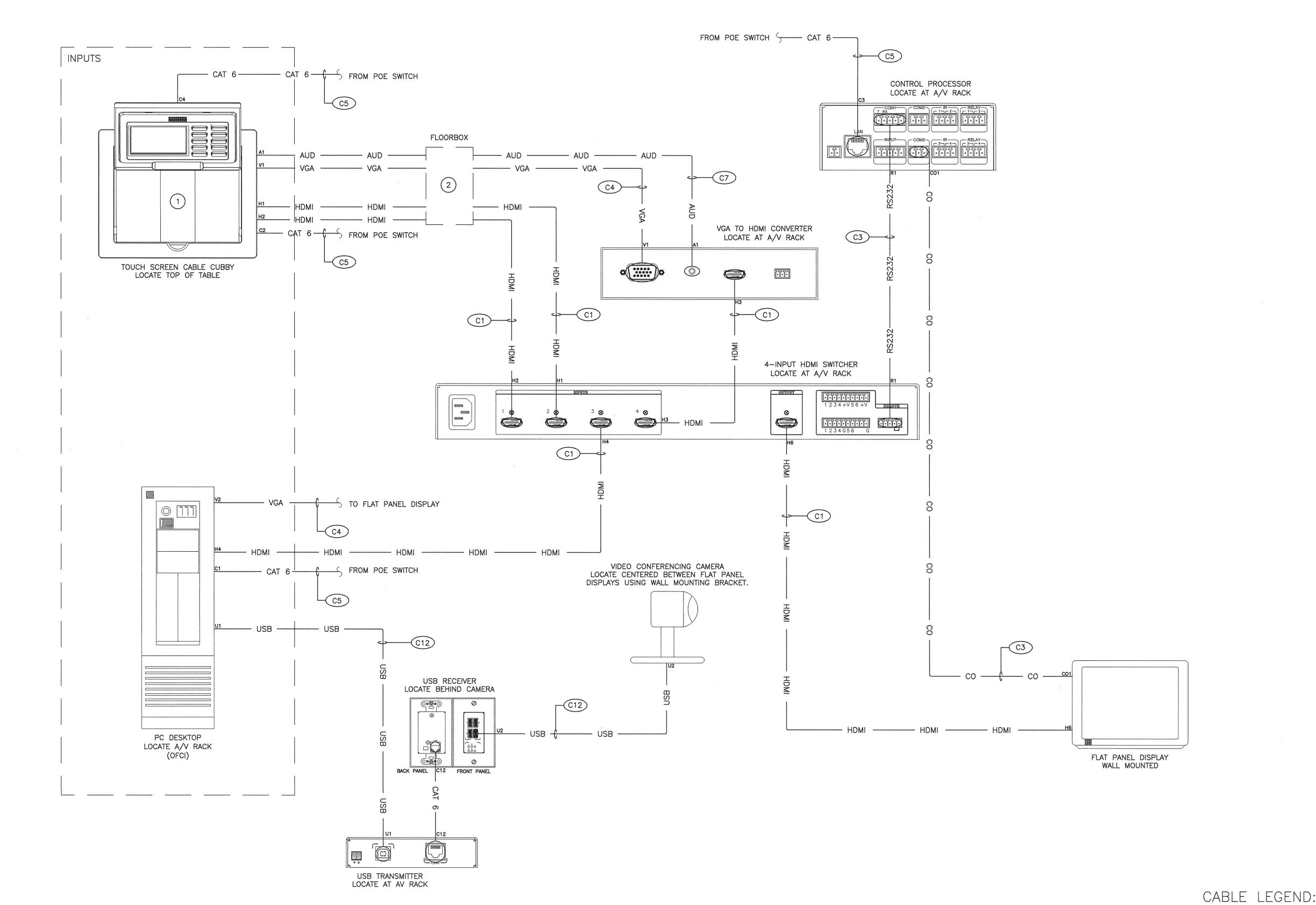
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- REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.
- 2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.
- COORDINATE QUANTITY OF SPEAKERS WITH REFLECTED CEILING PLAN. PROVIDE CABLING 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:
- NETWORK CONNECTION IN CABLE CUBBY TO PORT 2
 CONTROL PROCESSOR TO PORT 3
- 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.



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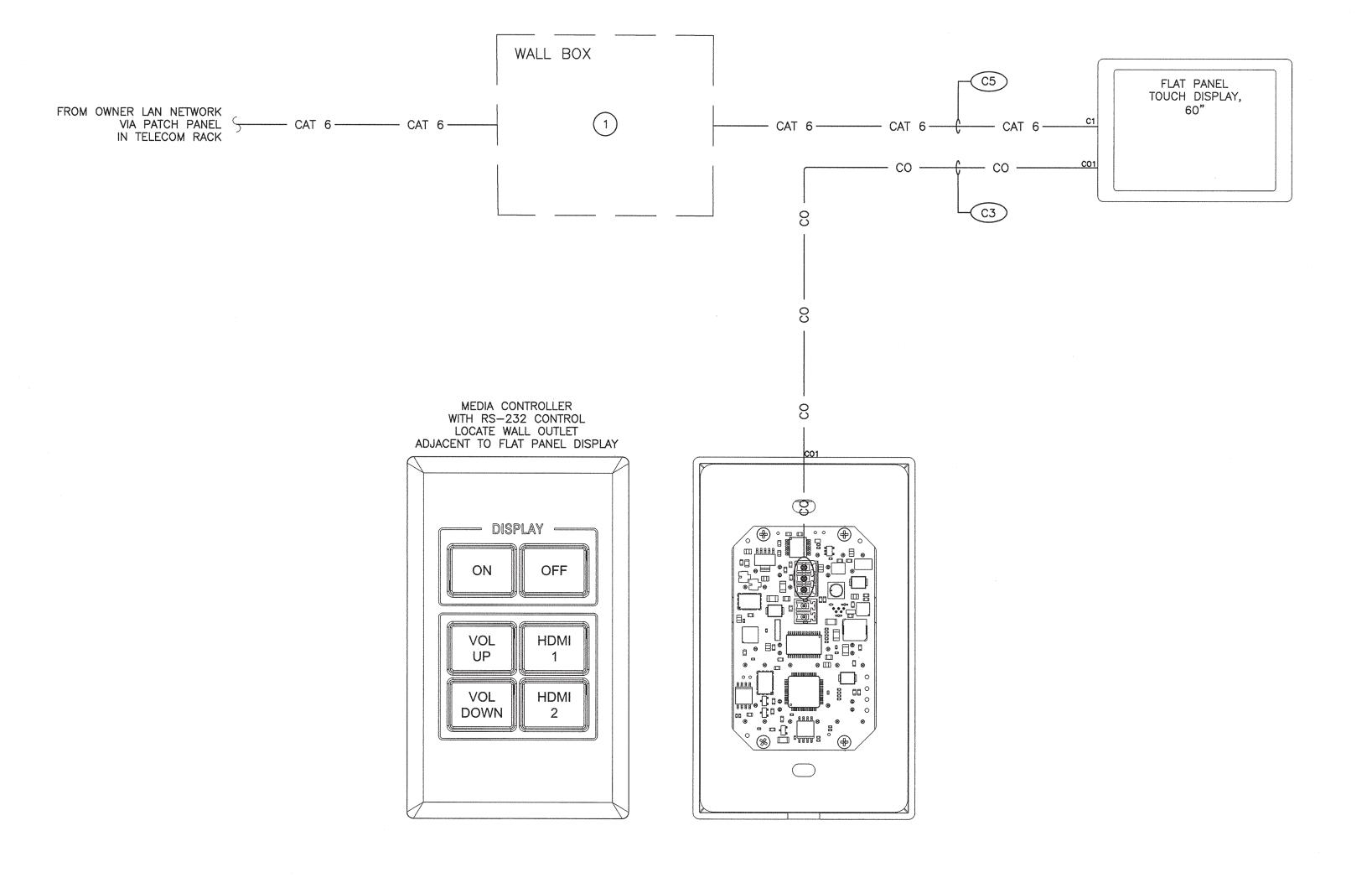
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DEI PROJECT# 50090277

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SCO ID#

CONFERENCE BLOCK DIAGRAM

DRAWING NUMBER



CABLE LEGEND:

----- HDMI -----

----- CAT 6 ----- ETHERNET

REFERENCE SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER INFORMATION FOR EQUIPMENT AND CABLING SHOWN.

2. REFERENCE AUDIOVISUAL CABLE SCHEDULE FOR CABLING INFORMATION.

KEY NOTES:

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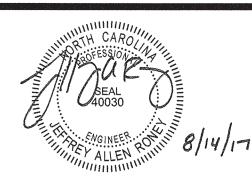
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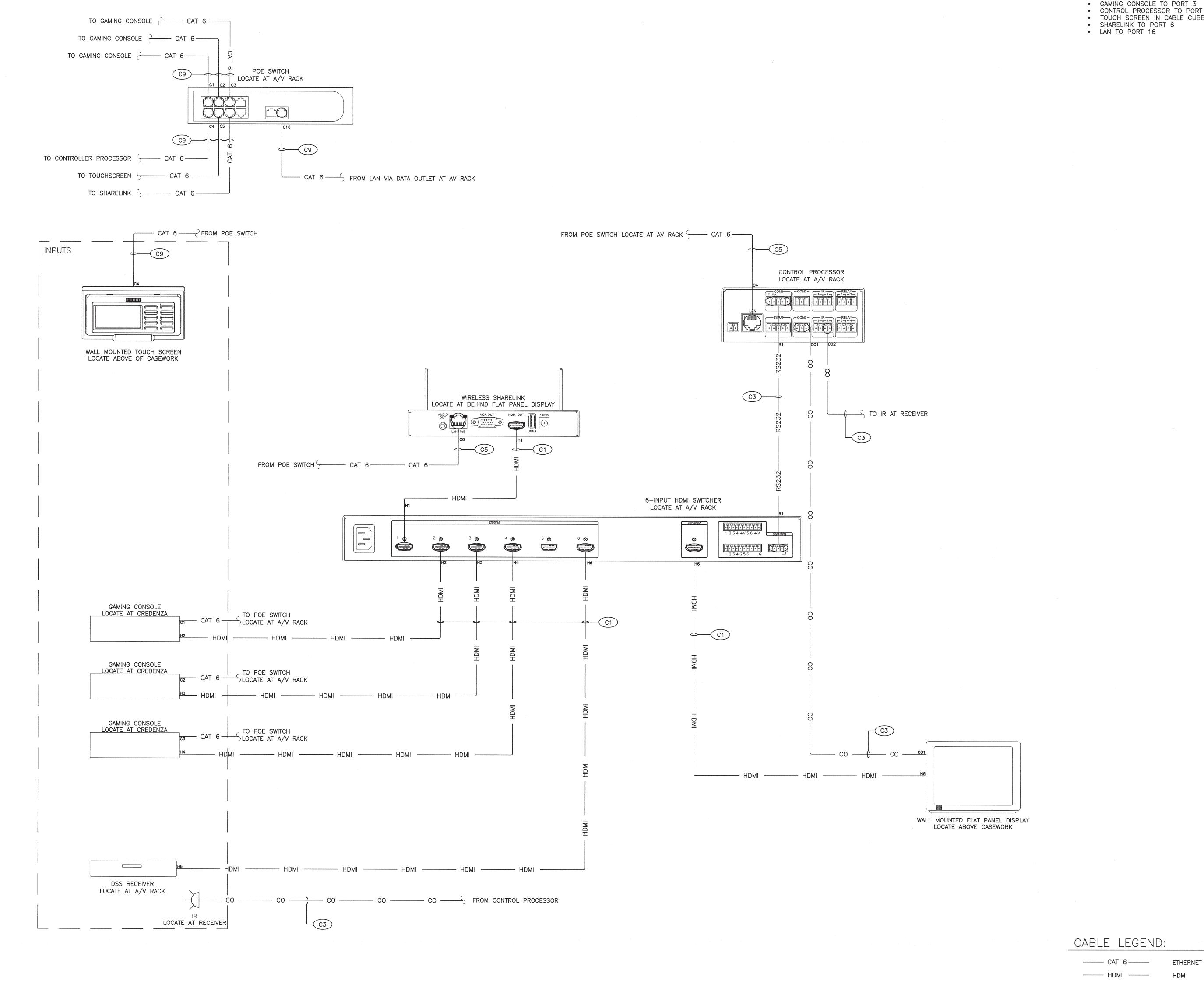
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DATE AUGUST 14, 2017 PROJECT PINE VALLEY BRANCH DEI PROJECT# SCO ID#

DRAWING TITLE

STUDY **BLOCK DIAGRAM**



- 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 6LAN TO PORT 16



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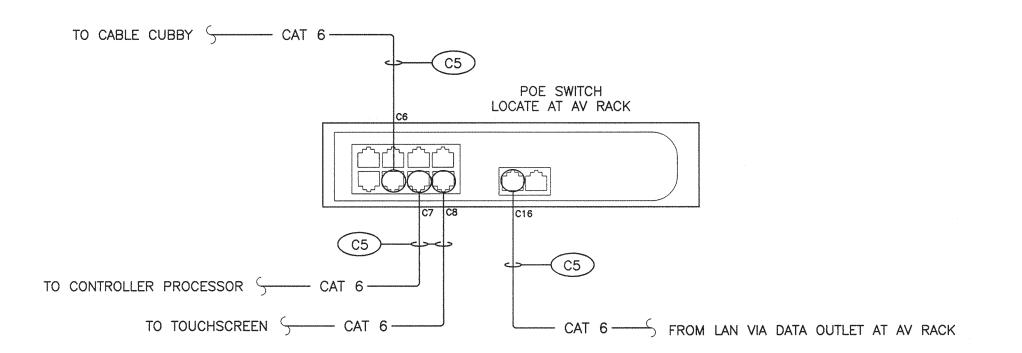
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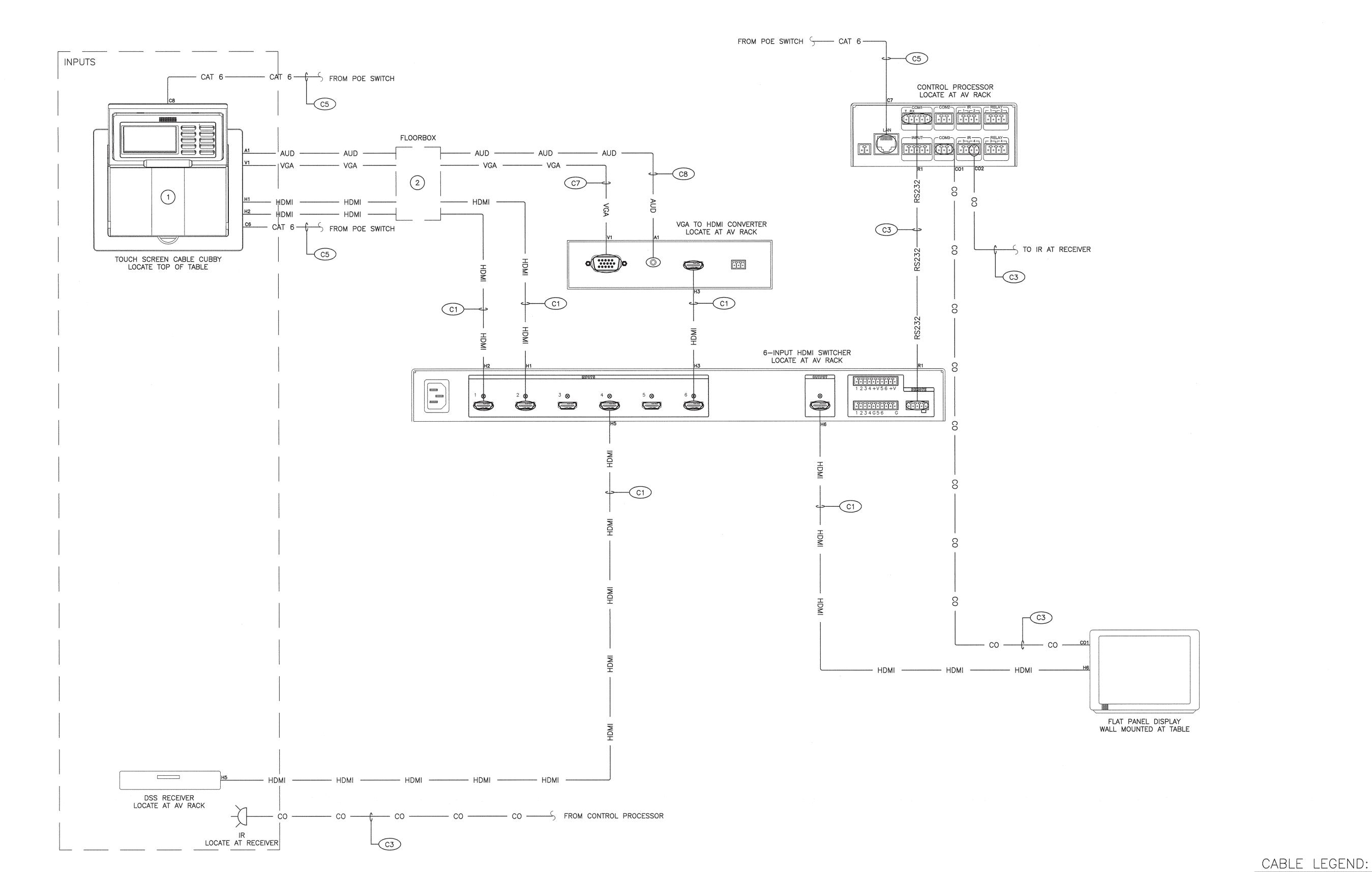
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DRAWING TITLE

TEEN COLLABORATION **BLOCK DIAGRAM**

DRAWING NUMBER





- 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:
- 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

----- CAT 6 ----- ETHERNET

KEY NOTES:

1) REFERENCE CABLE CUBBY DETAILS ON SHEET TA701 AND CABLE CUBBY SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND PANEL GROUPINGS.

2 REFERENCE FLOOR BOX DETAILS ON SHEET TA701 AND FLOOR BOX SCHEDULE ON SHEET TA601 FOR CONNECTORS, PLATES, AND AV OUTLET BOXES.



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COLLABORATION
BLOCK DIAGRAM

DRAWING NUMBER

AUDIOVISUAL PROJECTION SCHEDULE PROJECTION SCREEN PROJECTOR IMAGE SIZE CASE SIZE ROOM PROJECTOR DISTANCE ADJUSTMENT MOUNTING MOUNTING DISTANCE BLACK | SCREEN QUANTITY | INSTALLATION ROOM DESCRIPTION MODEL MODEL QUANTITY INSTALLATION OPERATION NOTES NUMBER TAG PLATE DROP GAIN SUPPORT FROM CEILING FROM SCREEN MARGIN HEIGHT WIDTH WIDTH DEPTH HEIGHT DIAGONAL 113 LARGE PROGRAM B PR-1 EPSON PRO-LITE G6070W CEILING CHIEF CMS-445 CHIEF CMS-012W 1'-0" 1'-6" DRAPER ACCESS V 165" 87-1/2" 7-3/4" MOTORIZED SN-1, SN-2, SN-3 20' 1 140" 168" 7-3/4" 1'-0" 1.0 CEILING 114 LARGE PROGRAM A PR-1 EPSON PRO-LITE G6070W CEILING CHIEF CMS-445 CHIEF CMS-012W 1'-0" 16' 1'-6" DRAPER ACCESS V 165" 87-1/2" 140" 7-3/4" 168" 7-3/4" 1'-0" 1.0 CEILING MOTORIZED SN-1, SN-2, SN-3 119 CHILDREN'S PROGRAM PR-2 EPSON PRO-LITE G6070W CEILING CHIEF CMS-445 CHIEF CMS-012W 1'-0" 13-1 1/2" DRAPER ACCESS V 137" 72-1/2" 7-3/4" MOTORIZED 1'-6" 116" 7-3/4" 143" 1'-0" CEILING SN-1, SN-2, SN-3 1.0 SCHEDULE NOTES: SN-1 REFER TO SPECIFICATIONS FOR MANUFACTURER AND PART NUMBER.

					AUD	IOVISUAL D	ISPLAY SCH	HEDULE							
ROOM	ROOM DESCRIPTION	DISPLAY	MODEL	QUANTITY	INSTALLATION	MOUNTING	DISTANCE		IMAGE SIZE			CASE SIZE		WEIGHT	NOTES
NUMBER	ROOM DESCRIPTION	TAG	WODEL	QUANTIT	INSTALLATION	BRACKET	FROM FLOOR	DIAGONAL	HEIGHT	WIDTH	HEIGHT	WIDTH	DEPTH		
122	MEETING	FPD-1	SHARP PN-E703	1	WALL	CHIEF LSM1U	5'-0"	69-1/2"	34-9/16"	60-11/16"	36-1/16"	62-1/8"	1-9/16"	94.8 LBS	SN-1
127	TEEN	FPD-1	SHARP PN-E703	1	WALL	CHIEF LSM1U	5'-0"	69-1/2"	34-9/16"	60-11/16"	36-1/16"	62-1/8"	1-9/16"	94.8 LBS	SN-1
126	MAKER/PROGRAM	FPD-2	SHARP PN-E603	1	WALL	CHIEF LSM1U	5'-0"	60-1/16"	29-3/4"	52-3/4"	31-1/4"	54-1/4"	1-9/16"	70.5 LBS	SN-1
101	VESTIBULE	FPD-3	SHARP PN-Y436	1	WALL	CHIEF LSM1U	5'-0"	42-1/2"	20-13/16"	37-1/16"	22"	38"	1-13/16"	23.1 LBS	SN-1
112	9TH SPACE	FPD-2	SHARP PN-E603	1	WALL	CHIEF TS525TU	5'-0"	60-1/16"	29-3/4"	52-3/4"	31-1/4"	54-1/4"	1-9/16"	70.5 LBS	SN-1
118	CHILDREN'S	FPD-2	SHARP PN-L603W	1	WALL	CHIEF LSM1U	5'-0"	60-1/16"	29-7/16"	52-5/16"	35-1/16"	56-9/16"	3-11/16"	105.9 LBS	SN-1
123	COLLABORATORY	FPD-4	SHARP PN-Y426	1	WALL	CHIEF LSM1U	5'-0"	41-1/2"	20-9/16"	36-9/16"	21-3/8"	37-3/8"	2-1/4"	34.2 LBS	SN-1
124	COLLABORATORY	FPD-4	SHARP PN-Y426	1	WALL	CHIEF LSM1U	5'-0"	41-1/2"	20-9/16"	36-9/16"	21-3/8"	37-3/8"	2-1/4"	34.2 LBS	SN-1
125	COLLABORATORY	FPD-4	SHARP PN-Y426	1	WALL	CHIEF LSM1U	5'-0"	41-1/2"	20-9/16"	36-9/16"	21-3/8"	37-3/8"	2-1/4"	34.2 LBS	SN-1
104B	PROGRAM LOBBY	FPD-3	SHARP PN-Y436	1	WALL	CHIEF LSM1U	5'-0"	42-1/2"	20-13/16"	37-1/16"	22"	38"	1-13/16"	23.1 LBS	SN-1
104A	CAFE	FPD-3	SHARP PN-Y436	1	WALL	CHIEF LSM1U	5'-0"	42-1/2"	20-13/16"	37-1/16"	22"	38"	1-13/16"	23.1 LBS	SN-1

				AUDIOVISUAL FLOOR BOX SCHEDULE		
ROOM NUMBER	ROOM DESCRIPTION	TAG	QUANTITY	A/V OUTLET BOX #1	A/V OUTLET BOX #2	NOTES
122	MEETING	FB	1	LEFT AND RIGHT PULLTHROUGH PLATE W/ 2 XTP DTP, 1 1-1/4" STEREO	1 DOUBLE BLANK AAP	SN-1, SN-2, SN-3
126	MAKER/PROGRAM	FB	1	LEFT AND RIGHT PULLTHROUGH PLATE W/ 2 XTP DTP, 1 1-1/4" STEREO	1 DOUBLE BLANK AAP	SN-1, SN-2, SN-3
112	9TH SPACE	FB	1	LEFT AND RIGHT PULLTHROUGH PLATE W/ 2 XTP DTP, 1 1-1/4" STEREO	1 DOUBLE BLANK AAP	SN-1, SN-2, SN-3

i	V	· -	•		<u>'</u>	
SCHEDULE NO	OTES:					
SN-1	REFER TO SPECIFICATIONS	FOR MANUFAC	TURER AND PAR	T NUMBER OF AV PLATES.		
SN-2	FLOORBOX PROVIDED BY E	LECTRICAL CON	NTRACTOR			
SN-3	REFER TO DETAILS ON PAGE	E TA701 FOR IN	STALLATION			

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.

CABLE TAG	CABLE TYPE	CABLE DESCRIPTION	CONNECTOR 1	CONNECTOR 2	NOTES
C1	HDMI	HDMI	HDMI	HDMI	SN-1
C2	DTP	AV AND CONTROL	DTP	DTP	SN-1
C3	RS-232	CONTROL	RS-232	RS-232	SN-1
C4	VGA	COMPONENT VIDEO	VGA	VGA	SN-1
C5	CAT-6	ETHERNET	CAT6	CAT6	SN-1
C6	SPEAKER	GENERAL PURPOSE SPEAKER	SPEAKER	SPEAKER	SN-1
C7	SPEAKER	25/70V RATED SPEAKER	SPEAKER	SPEAKER	SN-1
C8	AUDIO	DIGITAL READY	AUDIO	AUDIO	SN-1
C9	AUDIO	3.5MM MALE TO MALE STEREO	AUDIO	AUDIO	SN-1
C10	MIC	MIC/LINE	MIC	MIC	SN-1
C11	MIC	MIC/LINE	MIC	MIC	SN-1
C12	USB	USB LINE	USB	USB	SN-1
C13	HDMI	HDMI (DIFFERENT CONNECTORS)	HDMI	MINI DISPLAY PORT	SN-1
C14	HDMI	HDMI (DIFFERENT CONNECTORS)	HDMI	DISPLAY PORT	SN-1
C15	DISPLAY PORT	DISPLAY PORT	DISPLAY PORT	DISPLAY PORT	SN-1

AUDIOVISUAL CABLE CUBBY SCHEDULE									
ROOM NUMBER	ROOM DESCRIPTION	TAG	MODEL	QUANTITY	PANEL GROUP #1	PANEL GROUP #2	PANEL GROUP #3	NOTES	
122	MEETING	CC-1	EXTRON TLP PRO 320C	1	1 AAP W/ 2 AC POWER OUTLETS, SINGLE BLANK AAP	1 COMPLETE PULL THROUGH SET W/ 2 HDMI, 2 VGA, 2 AUDIO, 2 MDP, 1 3.5MM STEREO	LEFT AND RIGHT PULL THROUGH PLATE W/ 3 CAT6 CABLES	SN-1, SN-2	
126	MAKER/PROGRAM	CC-1	EXTRON TLP PRO 320C	1	1 AAP W/ 2 AC POWER OUTLETS, SINGLE BLANK AAP	1 COMPLETE PULL THROUGH SET W/ 2 HDMI, 2 VGA, 2 AUDIO, 2 MDP, 1 3.5MM STEREO	LEFT AND RIGHT PULL THROUGH PLATE W/ 3 CAT6 CABLES	SN-1, SN-2	
112	9TH SPACE	CC-1	EXTRON TLP PRO 320C	1	1 AAP W/ 2 AC POWER OUTLETS, SINGLE BLANK AAP	1 COMPLETE PULL THROUGH SET W/ 2 HDMI, 2 VGA, 2 AUDIO, 2 MDP, 1 3.5MM STEREO	LEFT AND RIGHT PULL THROUGH PLATE W/ 3 CAT6 CABLES	SN-1, SN-2	
SCHEDULE NOTES:									
SN-1	REFER TO SPECIFICATIONS FOR MANUFA	CTURER AND PA	ART NUMBER OF AV PLATES.					**************************************	
SN-2	REFER TO CABLE CUBBY DETAILS, SHEET	TA701.							



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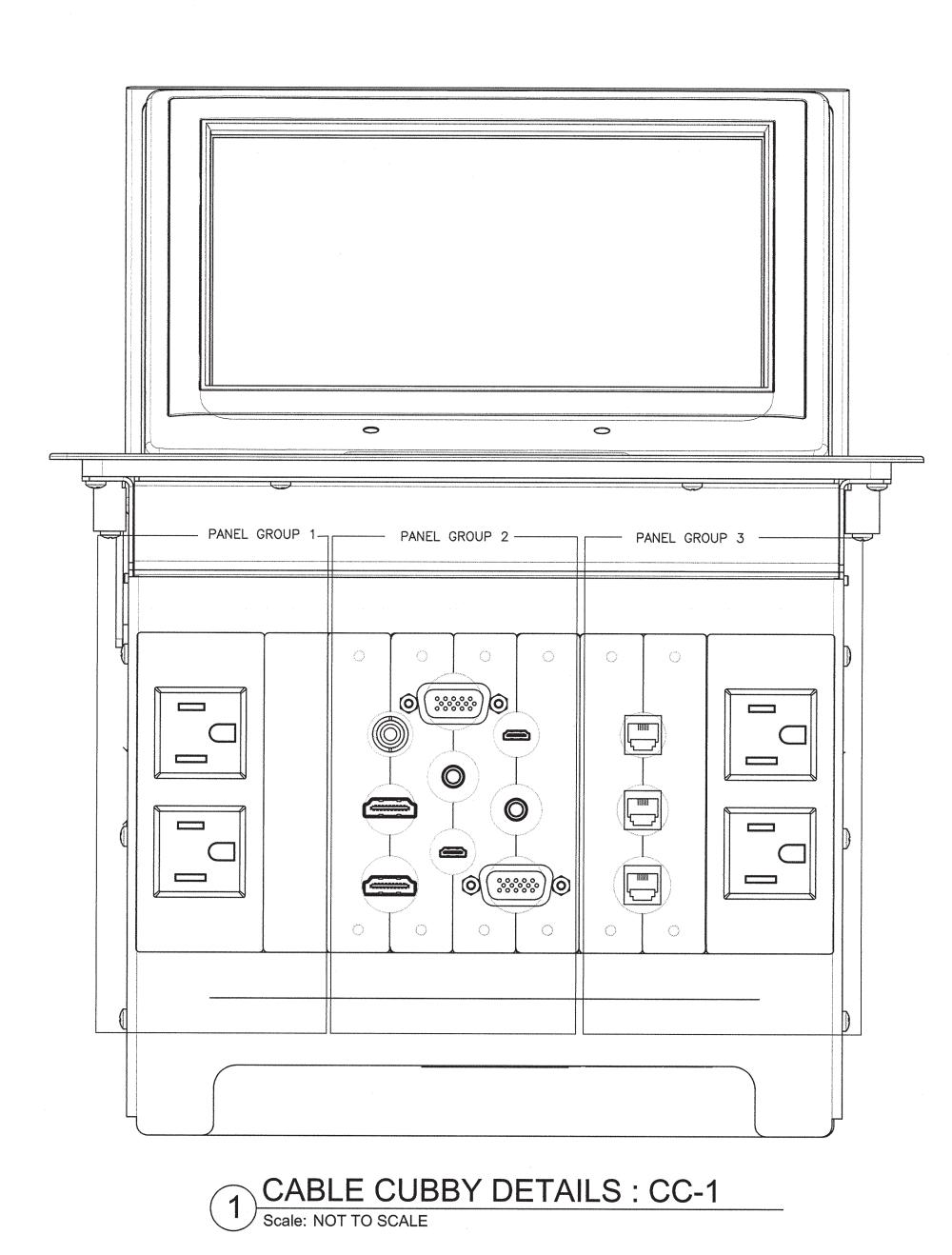
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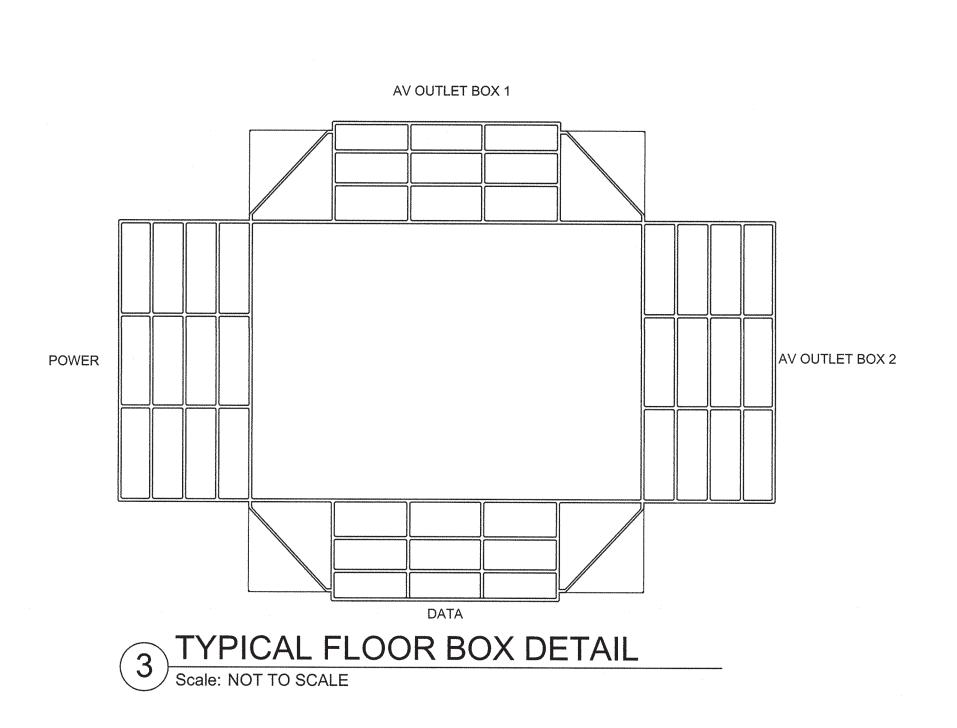
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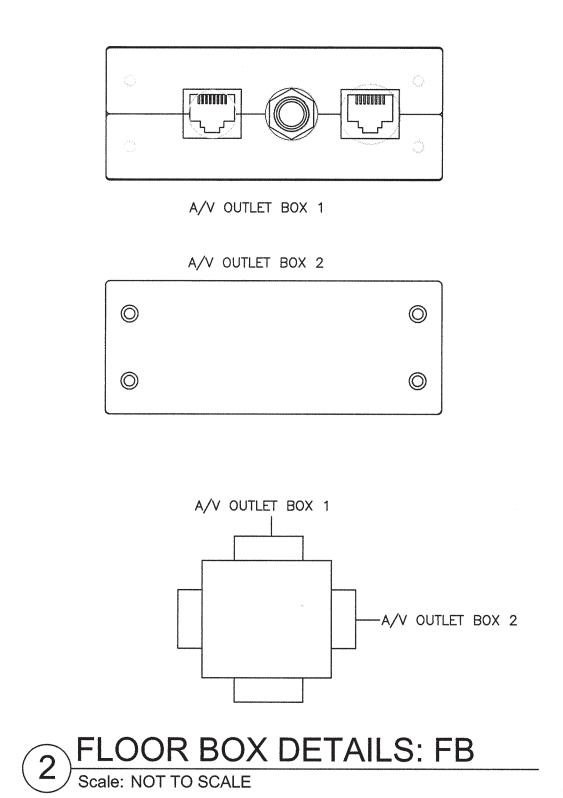
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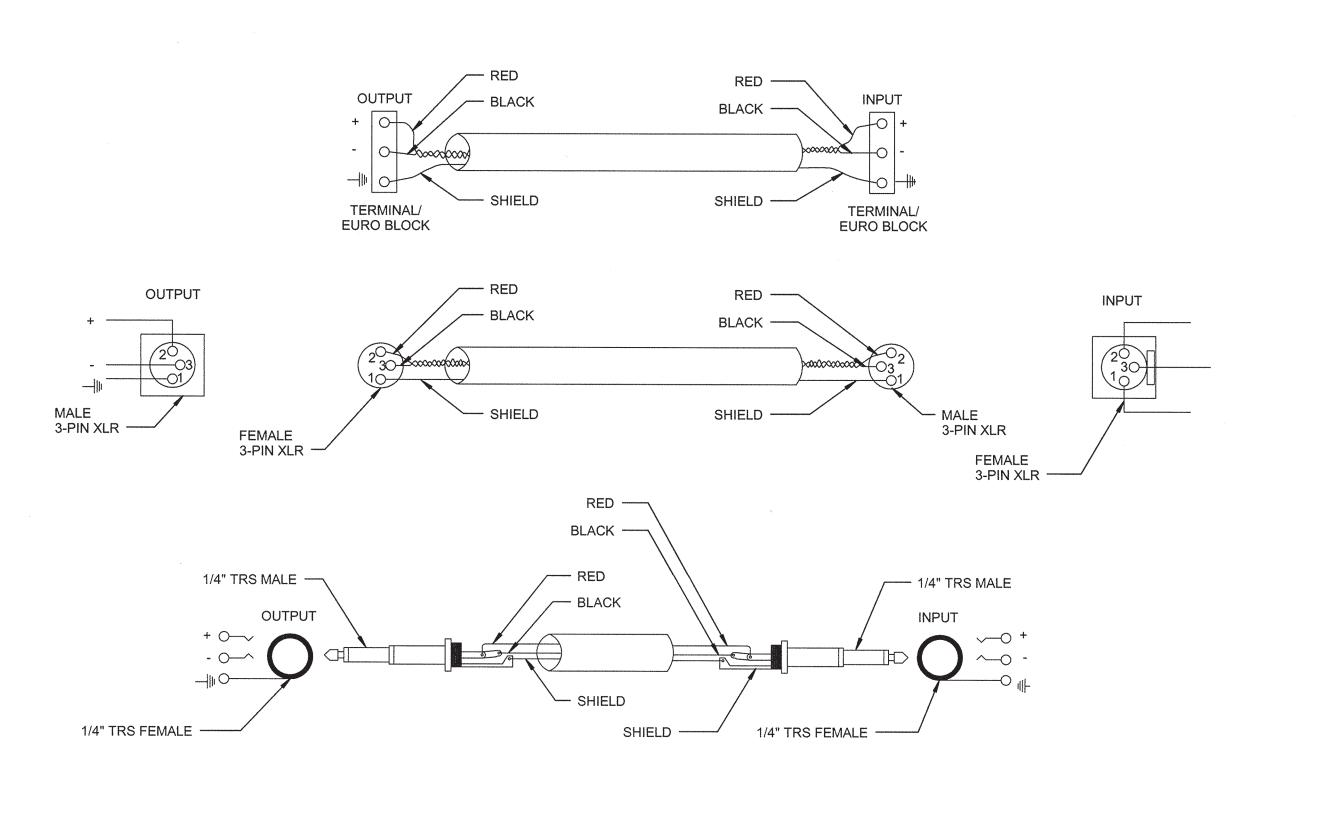
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4 TYPICAL BALANCED LINE LEVEL TERMINATION
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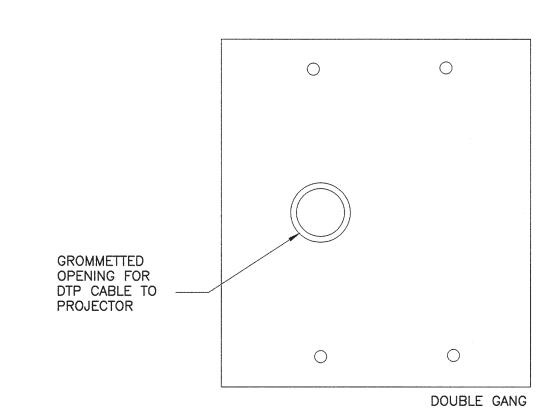
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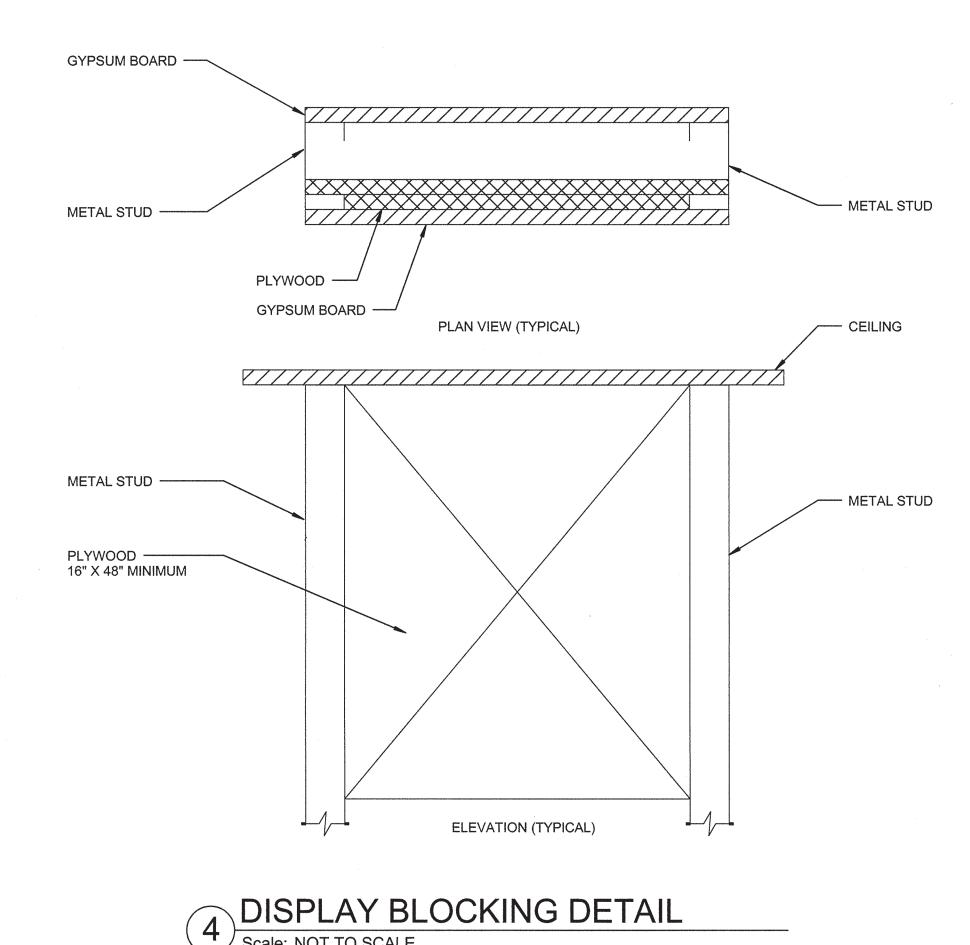
AUDIOVISUAL

DETAILS

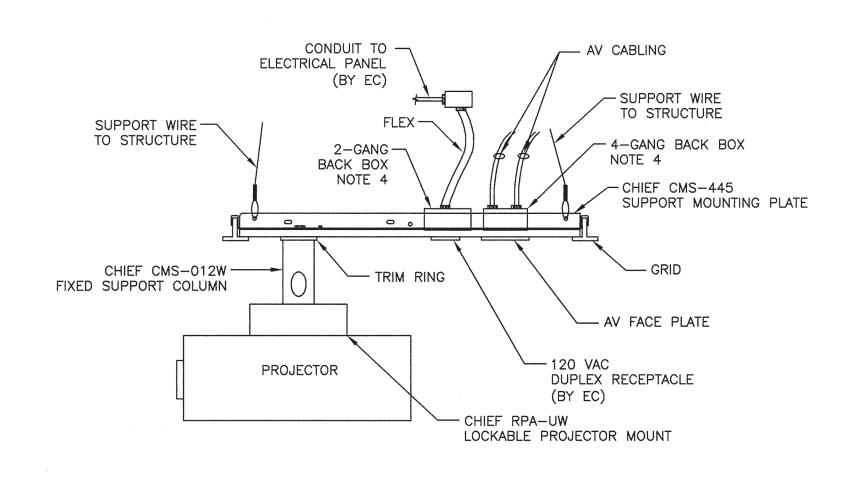
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1 A/V FACEPLATE DETAIL - PROJECTOR Scale: NOT TO SCALE



Scale: NOT TO SCALE

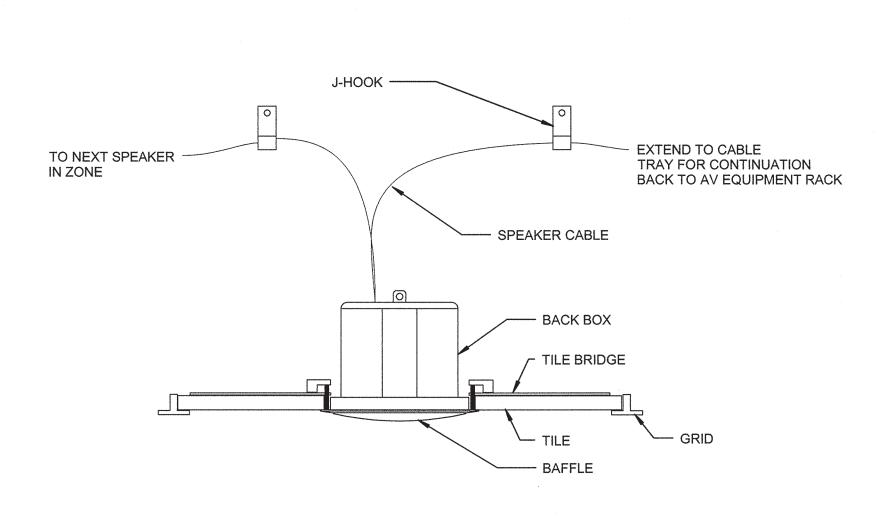


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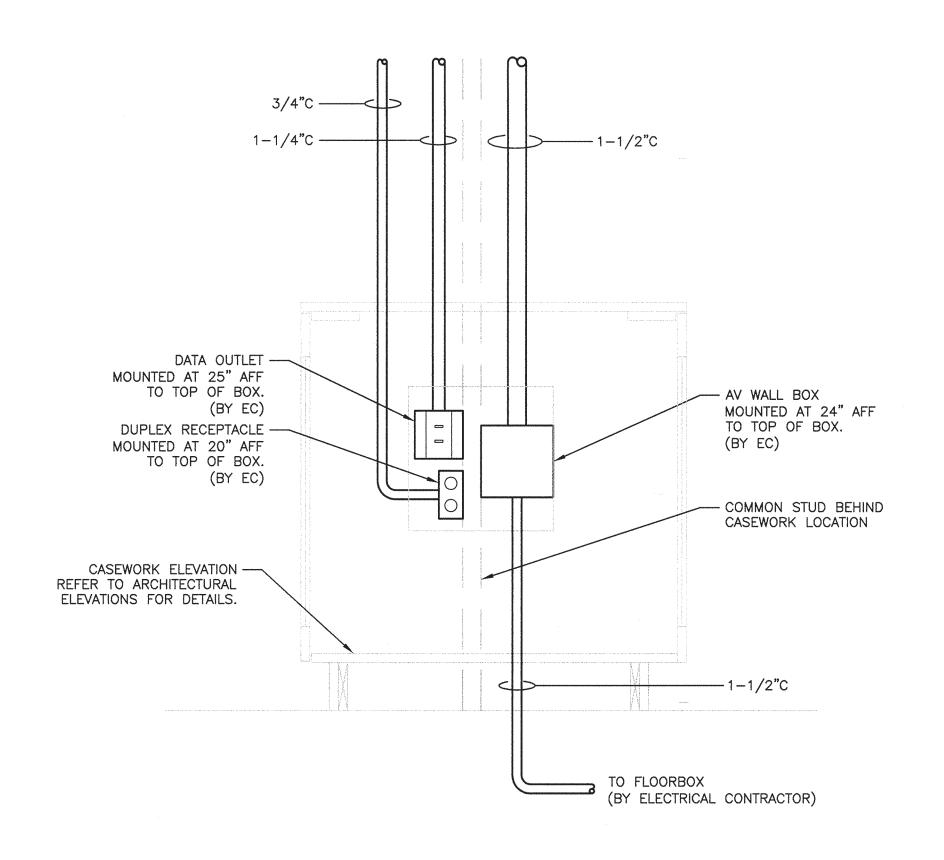
- 1. AV CONTRACTOR SHALL PROVIDE ALL ADDITIONAL/MISCEALLANEOUS HARDWARE FOR INSTALLATION OF MOUNTING PLATE.
- 2. GENERAL CONTRACTOR SHALL PROVIDE STRUCTURAL SKETCHES FOR A TYPICAL INSTALLATION OF SUPPORTING SYSTEM ABOVE CEILING FOR MOUNTING PLATE. STRUCTURAL SKETCHES SHALL BE SUBMITTED TO ENGINEER AND 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.

PROJECTOR FIXED MOUNTING DETAIL

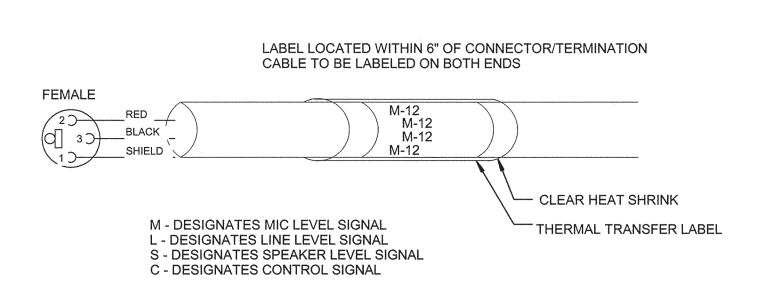
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SPEAKER MOUNTING DETAIL



3 AUDIOVISUAL INFRASTRUCTURE BOX ELEVATION Scale: NOT TO SCALE



6 CABLE LABELING DETAIL
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