

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUOR MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		GROUND ROD WITH INSPECTION PIT
	FLUOR MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		THERMOSTAT 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	SURFACE MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		ELECTRIC UNIT HEATER
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC BASEBOARD HEATER 'X' DENOTES TYPE, REFER TO BASEBOARD HEATER SCHEDULE
	DISCONNECT		GROUND BAR
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		HAND DRYER HAND WIRED CONNECTION
	COMBINATION STARTER WITH INTEGRAL DISCONNECT		METER
	DIRECT CONNECTION		RELAY
	DIRECT CONNECTION C/W DISCONNECT		PULL BOX
	MOTOR AND DISCONNECT		GROUND BUS
	MOTOR AND RELAY DISCONNECT		DENOTES RECEPTACLE TYPE, REFER TO RECEPTACLE SCHEDULE
	MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT		UTILITY METERING CABINET
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, MOTOR, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION		TIME SWITCH
	VARIABLE FREQUENCY DRIVE, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, LOAD SIDE WIRING OF VFD TO BE VFD CABLE, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION		CLOCK WALL MOUNTED
	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE) LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR		CLOCK CEILING MOUNTED
			PUSH BUTTON
			MOTOR

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

10 POWER LEGEND 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION TRANSFORMER - DELTA WYE UNLESS OTHERWISE NOTED		GROUND FAULT ALARM RELAY
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA WYE UNLESS OTHERWISE NOTED		ENERGY METER
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN		EMERGENCY GENERATOR
	LOW VOLTAGE DRAIN-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN		GROUND CONNECTION POINT
	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
	FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN		GROUND LOOP
	FUSE		HIGH RESISTANCE GROUND FAULT SYSTEM
	INSULATED CASE CIRCUIT BREAKER		LIGHTNING SURGE ARRESTER
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		LOAD BANK
	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT)
	LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)
	AUTOMATIC TRANSFER SWITCH WITH BYPASS		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)
	AUTOMATIC TRANSFER SWITCH WITHOUT BYPASS		METERING SOCKET
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS)		METERING CABINET
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH		DIGITAL ELECTRONIC METER
	AMMETER		SURGE PROTECTION DEVICE
	AUTO TRANSFORMER		
	BATTERY		
	CONTACTOR		
	CURRENT TRANSFORMER		
	CURRENT TRANSFORMER (2:5 - DENOTES ZERO SEQUENCE)		

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1 SINGLE LINE DIAGRAM 1 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POTENTIAL TRANSFORMER		KEY INTERLOCK SYSTEM - ONE KEY
	ZERO SEQUENCE CURRENT TRANSFORMER		KEY INTERLOCK SYSTEM - N LOCKS, N+1 LOCKS UNLESS NOTED OTHERWISE
	UPS DIODE		ELECTRONIC INTERLOCK SYSTEM - N LOCKS
	VOLTAGE INDICATOR		MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
	DENOTES CONNECT TO LOAD APPLIED TO DESIGNATED APPARATUS		ELECTRONIC TRANSFER TEMPERATURE RELAY
	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR 20-30 AMP CSA 5-15R, DEDICATED CIRCUIT, COMPLETE WITH TUNED RFLV FILTER, HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN		POWER METER
	RELAY FUNCTION NUMBER		DIGITAL TRIP UNIT WITH METERING FUNCTION
			SHUNT TRIP
			IP BASED GATEWAY FOR POWER MONITORING

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12 SINGLE LINE DIAGRAM 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		2 GANG - LINE VOLTAGE LIGHT SWITCH
	3 GANG - LINE VOLTAGE LIGHT SWITCH		3 WAY - LINE VOLTAGE LIGHT SWITCH
	4 WAY - LINE VOLTAGE LIGHT SWITCH		LOW VOLTAGE LIGHT SWITCH
	KEY OPERATED LINE VOLTAGE SWITCH		
	MASTER SWITCH		
	ALL-OFF SWITCH		
	SINGLE POLE 347V SWITCH		
	DIMMER TYPE TO SUIT LOAD		
	CEILING MOUNTED PHOTO CELL SWITCH		
	WALL MOUNTED PHOTO CELL SWITCH		
	DAY LIGHT PHOTO SENSOR		
	TIME SWITCH		
	CEILING MOUNTED OCCUPANCY SENSOR, TYPE DENOTED BY 'X', REFER TO OCCUPANCY SENSOR SCHEDULE		
	WALL MOUNTED OCCUPANCY SENSOR, TYPE DENOTED BY 'X', REFER TO OCCUPANCY SENSOR SCHEDULE		
	LIGHTING CONTROL MODULE		
	MULTI-ZONE LIGHTING CONTROL PANEL		
	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON		
	PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL		

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14 LIGHTING LEGEND 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS INTERCOM
	WALL MOUNTED VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		SERVICE POLE MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		RACKWAY MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		COAXIAL CATV OUTLET
	FLOOR MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS BOX
	FURNITURE MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		POWER ZONE BOX
	FURNITURE MOUNTED VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		TELEPHONE ZONE BOX
	FURNITURE MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 DATA AND COMMUNICATIONS N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		FLOOR OR CEILING MOUNTED (AS SHOWN) COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (1-SLOT)		FLOOR POKE THROUGH (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL)
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (1-SLOT)		FLOOR POKE THROUGH AS ABOVE WITH AUDIOVISUAL REQUIREMENT, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
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	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		FLOOR MOUNTED (COMBINATION COMMUNICATION

[illegible]

10 NEW PANEL 006-NLP-05-02-BA
TE-24 N.T.S.

[illegible]

11 NEW PANEL 006-ELP-05-02-BA
TE-24 N.T.S.

[illegible]

7 NEW PANEL 006-NDP-05-02-CA
TE-04 N.T.S.

BLDG #				008-001-25-02-CA				DATE #000000# 02/20/21			
PANEL TAG		BLDG #		DESCRIPTION (From Room Number)		DATE #000000#		PANEL TAG		BLDG #	
CONNECTED LOAD (W)	REMARK FACTOR	TOTAL DEMAND	DESCRIPTION	TYPE	UNIT	PHASE	DESCRIPTION	TYPE	UNIT	PHASE	TOTAL DEMAND
0	0.00	0	REC-5001	15	1	2P	HAND DRIVER 5001 WMMH#1	0	0.00	0	0
0	0.00	0	REC-5001	15	1	2P		0	0.00	0	0
0	0.00	0	STAR 50445 HEATER BLOWER A3	15	0	2P	HAND DRIVER 5001 WMMH#1	0	0.00	0	0
0	0.00	0	XEROX MACHINE	30	2	4P		0	0.00	0	0
900	0.60	540	GEGD-LAB 501 WORKSTATIONS	15	1	2P	SPARE	900	0.60	540	0
900	0.60	540	GEGD-LAB 501 WORKSTATIONS	15	1	2P	SPARE	900	0.60	540	0
0	0.00	0	GEGD-LAB 501 WORKSTATIONS	15	1	2P	REC-5006-5005A	0	0.00	0	0
0	0.00	0	GEGD-LAB 501 WORKSTATIONS	15	1	2P	DOOR OPERATOR 501-5022	0	0.00	0	0
800	0.60	360	DIGITAL LOUNGE 504 SCREEN/REC	15	1	1P	SPARE	800	0.60	360	0
0	0.00	0	GEGD-LAB 501 WORKSTATIONS	15	1	2P	GEGD-LAB 501 WORKSTATIONS	900	0.60	540	0
0	0.00	0	GEGD-LAB 501 WORKSTATIONS	15	1	2P	GEGD-LAB 501 WORKSTATIONS	900	0.60	540	0
0	0.00	0	REC-5001 REC-5002	30	2	4P	SPARE	0	0.00	0	0
0	0.00	0	REC-5001 REC-5002	30	2	4P	GEGD-LAB REC	0	0.00	0	0
0	0.00	0	REC-5001 REC-5002	30	2	4P	GEGD-LAB 501 WORKSTATIONS	900	0.60	540	0
300	0.70	210	SAT LOCK SYSTEM	15	1	2P	GEGD-LAB 501 WORKSTATIONS	900	0.60	540	0
0	0.00	0	SPARE	30	2	4P	GEGD-LAB 501 REC	900	0.60	360	0
0	0.00	0	SPARE	30	2	4P	SPARE	0	0.00	0	0
0	0.00	0	SPARE	30	2	4P	SPARE	0	0.00	0	0
0	0.00	0	SPARE	30	2	4P	SPARE	0	0.00	0	0
0	0.00	0	SPARE	30	2	4P	SPARE	0	0.00	0	0
0	0.00	0	SPARE	15	1	2P	SPARE	0	0.00	0	0
0	0.00	0	SPARE	15	1	2P	SPARE	0	0.00	0	0

8 NEW PANEL 006-NRP-05-02-CA
TE-0.4 N.T.S.

BLOK #		FANEL TAG		006 NRP-05-02-CB		DATE RECEIVED		7/20/21		
CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL LOAD	DESCRIPTION (ITEM, Room Number(s))	CT	TH	W	DESCRIPTION (ITEM, Room Number(s))	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL LOAD
0		0	REC. AND LIGHTS SHEDT ADJ-501A	15	12	15	SPARE	0		0
0		0	REC. 502A-300A	15	12	15	SPARE	0		0
800	0.60	360	COLLABORATION ROOMS REC.	15	12	15	SPARE	0		0
300	0.60	180	1747F REC ROOM/300A REC.	15	12	15	SPARE	0		0
800	0.60	360	GGSDATA LAB 501 REC/RECEPTALS	15	12	15	BUSZIN SYSTEM W/POWER 100A	0		0
200	0.80	120	GGSDATA LAB 501 REC/RECEPTALS	15	12	15	REC. ELW-600A	0		0
1250	0.80	750	5-20R GGSDATA LAB 501	20	12	14	FLOOR MOMENTS GLEET STUDY	0		0
800	0.60	360	GGSDATA LAB 501 SCREEN REC.	15	12	15	FLOOR MOMENTS GLEET STUDY	0		0
1250	0.80	750	5-20R GGSDATA LAB 501	20	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	15	12	15	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	21	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	21	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	21	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	21	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	SPACE	21	12	14	FLOOR MOMENTS GLEET STUDY	0		0
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	COLLABORATION ROOMS REC/RECEPTALS	800	0.60	360
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	GGSDATA LAB 501 REC/RECEPTALS	800	0.60	360
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	LS-30R GGSDATA LAB 501	2000	0.60	1500
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	CAPPED IN FLOOR BOX 5010K	0		0
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	CAPPED IN FLOOR BOX 5010K	0		0
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	CAPPED IN FLOOR BOX 5010K	0		0
0		0	CAPPED IN FLOOR BOX 5010K	15	12	15	CAPPED IN FLOOR BOX 5010K	0		0
BLOK #		FLOOR #		NEW TAG						
FELS		22A	12000V/10	3 PHASE	4 WIRE	8	SEWER			
FELS		FANEL TAG		BLOK #		ROOM #		SEWER SIZE		FEEDER SIZE

9 NEW PANEL 006-NRP-05-02-CB
TE-0.4 N.T.S.

[illegible]

4
E-0.4

EXISTING 006-NDP-05-02-BA
N.T.S.

BLOG		PANEL TAB		DC-99R-05-02-BA		DATE MODIFIED: 6/20/2024	
CONNECTED LOAD (W)	SEWING FACTOR	DESCRIPTION (Name, Room Number)	WATTAGE (W)	SEWING FACTOR	DESCRIPTION (Name, Room Number)	WATTAGE (W)	SEWING FACTOR
0	0	REC. INCLUDE TOP POWER 5041	15	15	REC. EXTENSION WALL	0	0
0	0	BULDER SYSTEM 5047-5048	15	15	STAR 5045-16T BLOWER 42	0	0
0	0	DATA STACH 5041	15	15	SPWAE	0	0
0	0	OLD PAGING SYSTEM 5041	15	15	SPWAE	0	0
0	0	SPWAE	15	15	CAPRED JUNCTION BOX CELING 5045	0	0
0	0	SPWAE	15	15	SECONDARY PAV. JUNCTION FOR BLOWZS	0	0
0	0	REC. 6040 AND 6042	15	15	FLORBOOR GENERAL STUDY 5055	500	0.60
600	0.60	360	15	15	FLORBOOR GENERAL STUDY 5055	500	0.60
0	0.60	360	15	15	FLORBOOR GENERAL STUDY 5055	500	0.60
0	0.60	360	15	15	FLORBOOR GENERAL STUDY 5055	500	0.60
360	0.60	540	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
540	0.60	540	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
540	0.60	540	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
0	0	SPWAE	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
0	0	SPWAE	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
0	0	SPWAE	15	15	PUNTURE FEED GENERAL STUDY 5055	500	0.60
0	0.60	360	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0.60	360	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0.60	360	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0.60	360	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0	SPWAE	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0	SPWAE	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60
0	0	SPWAE	15	15	DATA CONSIGL TOP DAT FURNITURE	500	0.60

5 NEW PANEL 006-NRP-05-02-BA
E-04 N.T.S.

BLOOR #				FANIL TAG				C06 BLR 05-02-BB				DATE MODIFIED: 06/20/24	
CONNECTIO LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s))	BMH (L)	CT	BMH (L)	DESCRIPTION (Item, Room Number(s))	CONNECTIO LOAD (W)	DEMAND FACTOR	TOTAL DEMAND			
0			REC WALL SOUTH-0405	15	1	2	2x REC. WEST 0405	0		0			
0			REC. EXTENSION WALL STAR 0205	15	14	2	2x REC. WEST 0405	0		0			
0			STAIR DOWN HEAT RECOVER	15	15	1	2x REC. WEST 0405	0		0			
0			EXPOSED UP WIRES (ONCE IT MOVED TO 2)	15	15	20	SPARE	0		0			
0			EXPOSED UP WIRES (ONCE IT MOVED TO 2)	15	15	15	OFFICE 3001 & 3400 REC.	900	0.80	540			
0			APEX TA CLOCK 0041	15	11	15	OFFICE 0404 REC.	400	0.80	270			
900	0.80	540	GENERAL STUDY DESK/FURNITURE FEED	15	13	14	MECHANICAL BRASS BOX	250	0.80	120			
600	0.80	360	GENERAL STUDY DESK/FURNITURE FEED	15	13	16	SPARE	0		0			
600	0.80	360	GENERAL STUDY DESK/FURNITURE FEED	15	13	15	SPARE	0		0			
600	0.80	360	GENERAL STUDY DESK/FURNITURE FEED	15	13	15	SPARE	0		0			
900	0.80	540	GENERAL STUDY DESK/FURNITURE FEED	15	16	15	SPARE	0		0			
600	0.80	360	GENERAL STUDY DESK/FURNITURE FEED	15	13	14	SPARE	0		0			
0			SPARE	15	25	16	SPARE	0		0			
0			SPARE	15	27	16	SPARE	0		0			
0			SPARE	15	26	13	SPARE	0		0			
0			SPARE	15	25	14	SPARE	0		0			
0			SPARE	15	26	14	SPACE	0		0			
0			STAIR	15	16	3	SPACE	0		0			
900	0.80	540	OFFICE 0004 REC.	15	17	30	SPACE	0		0			
900	0.80	540	OFFICE 0030 & 0032 REC.	15	28	45	SPACE	0		0			
900	0.80	540	OFFICE SHARED 0004 REC.	15	20	45	SPACE	0		0			
BLOOR #				FLOOR				NEW TAG					
RATINGS				255A	1000V9V	3 PHASE	4 WIRE	S.C.					
FSD		FANIL TAG		BLOOR #		ROOM #		HEADER SIZE		FEEDER SIZE			

6 NEW PANEL 006-NRP-05-02-BB
E-04 N.T.S.

BLDG #			PANEL TAG		005-NRP-05-02-AA		DATE MODIFIED		ECCOTID	
CONNECTED LOAD (W)	RENAME FACTOR	TOTAL CONNECT	DESCRIPTION (Bldg, Room Number(s))	WIRING (W)	CT	WIRING (W)	DESCRIPTION (Bldg, Room Number(s))	CONNECTED LOAD (W)	RENAME FACTOR	TOTAL CONNECT
3300	1.00	3300		60	1A	2	SPACE			0
3900			PANEL - 005-NRP-05-02-AA	2	3B	4	SPACE			0
3200	1.00	3200		300	15C	15	SPACE			0
3000	1.00	3000		60	2A	6	SPACE			0
1800	1.00	1800	PANEL - 005-NRP-05-02-AB	2	15	15	SPACE			0
3200	1.00	3200		330	15C	15	SPACE			0
0			SPACE	15	13A	14	SPACE			0
0			SPACE	15	13B	16	SPACE			0
0			SPACE	15	17C	16	SPACE			0
0			SPACE	15	17D	17	SPACE			0
0			SPACE	15	19A	20	SPACE			0
0			SPACE	15	19B	21	SPACE			0
0			SPACE	15	20C	20	SPACE			0
0			SPACE	15	20D	20	SPACE			0
0			SPACE	15	21A	25	SPACE			0
0			SPACE	15	21B	24	SPACE			0
0			SPACE	15	21C	24	SPACE			0
0			SPACE	15	21D	25	SPACE			0
0			SPACE	15	22A	26	SPACE			0
0			SPACE	15	22B	26	SPACE			0
0			SPACE	15	23A	30	SPACE			0
0			SPACE	15	23B	30	SPACE			0
0			SPACE	15	23C	30	SPACE			0
0			SPACE	15	23D	30	SPACE			0
0			SPACE	15	23E	30	SPACE			0
0			SPACE	15	23F	30	SPACE			0
0			SPACE	15	23G	30	SPACE			0
0			SPACE	15	23H	30	SPACE			0
0			SPACE	15	23I	30	SPACE			0
0			SPACE	15	23J	30	SPACE			0
0			SPACE	15	23K	30	SPACE			0
0			SPACE	15	23L	30	SPACE			0
0			SPACE	15	23M	30	SPACE			0
0			SPACE	15	23N	30	SPACE			0
0			SPACE	15	23O	30	SPACE			0
0			SPACE	15	23P	30	SPACE			0
0			SPACE	15	23Q	30	SPACE			0
0			SPACE	15	23R	30	SPACE			0
0			SPACE	15	23S	30	SPACE			0
0			SPACE	15	23T	30	SPACE			0
0			SPACE	15	23U	30	SPACE			0
0			SPACE	15	23V	30	SPACE			0
0			SPACE	15	23W	30	SPACE			0
0			SPACE	15	23X	30	SPACE			0
0			SPACE	15	23Y	30	SPACE			0
0			SPACE	15	23Z	30	SPACE			0
0			SPACE	15	24A	30	SPACE			0
0			SPACE	15	24B	30	SPACE			0
0			SPACE	15	24C	30	SPACE			0
0			SPACE	15	24D	30	SPACE			0
0			SPACE	15	24E	30	SPACE			0
0			SPACE	15	24F	30	SPACE			0
0			SPACE	15	24G	30	SPACE			0
0			SPACE	15	24H	30	SPACE			0
0			SPACE	15	24I	30	SPACE			0
0			SPACE	15	24J	30	SPACE			0
0			SPACE	15	24K	30	SPACE			0
0			SPACE	15	24L	30	SPACE			0
0			SPACE	15	24M	30	SPACE			0
0			SPACE	15	24N	30	SPACE			0
0			SPACE	15	24O	30	SPACE			0
0			SPACE	15	24P	30	SPACE			0
0			SPACE	15	24Q	30	SPACE			0
0			SPACE	15	24R	30	SPACE			0
0			SPACE	15	24S	30	SPACE			0
0			SPACE	15	24T	30	SPACE			0
0			SPACE	15	24U	30	SPACE			0
0			SPACE	15	24V	30	SPACE			0
0			SPACE	15	24W	30	SPACE			0
0			SPACE	15	24X	30	SPACE			0
0			SPACE	15	24Y	30	SPACE			0
0			SPACE	15	24Z	30	SPACE			0
0			SPACE	15	25A	30	SPACE			0
0			SPACE	15	25B	30	SPACE			0
0			SPACE	15	25C	30	SPACE			0
0			SPACE	15	25D	30	SPACE			0
0			SPACE	15	25E	30	SPACE			0
0			SPACE	15	25F	30	SPACE			0
0			SPACE	15	25G	30	SPACE			0
0			SPACE	15	25H	30	SPACE			0
0			SPACE	15	25I	30	SPACE			0
0			SPACE	15	25J	30	SPACE			0
0			SPACE	15	25K	30	SPACE			0
0			SPACE	15	25L	30	SPACE			0
0			SPACE	15	25M	30	SPACE			0
0			SPACE	15	25N	30	SPACE			0
0			SPACE	15	25O	30	SPACE			0
0			SPACE	15	25P	30	SPACE			0
0			SPACE	15	25Q	30	SPACE			0
0			SPACE	15	25R	30	SPACE			0
0			SPACE	15	25S	30	SPACE			0
0			SPACE	15	25T	30	SPACE			0
0			SPACE	15	25U	30	SPACE			0
0			SPACE	15	25V	30	SPACE			0
0			SPACE	15	25W	30	SPACE			0
0			SPACE	15	25X	30	SPACE			0
0			SPACE	15	25Y	30	SPACE			0
0			SPACE	15	25Z	30	SPACE			0
0			SPACE	15	26A	30	SPACE			0
0			SPACE	15	26B	30	SPACE			0
0			SPACE	15	26C	30	SPACE			0
0			SPACE	15	26D	30	SPACE			0
0			SPACE	15	26E	30	SPACE			0
0			SPACE	15	26F	30	SPACE			0
0			SPACE	15	26G	30	SPACE			0
0			SPACE	15	26H	30	SPACE			0
0			SPACE	15	26I	30	SPACE			0
0			SPACE	15	26J	30	SPACE			0
0			SPACE	15	26K	30	SPACE			0
0			SPACE	15	26L	30	SPACE			0
0			SPACE	15	26M	30	SPACE			0
0			SPACE	15	26N	30	SPACE			0
0			SPACE	15	26O	30	SPACE			0
0			SPACE	15	26P	30	SPACE			0
0			SPACE	15	26Q	30	SPACE			0
0			SPACE	15	26R	30	SPACE			0
0			SPACE	15	26S	30	SPACE			0
0			SPACE	15	26T	30	SPACE			0
0			SPACE	15	26U	30	SPACE			0
0			SPACE	15	26V	30	SPACE			0
0			SPACE	15	26W	30	SPACE			0
0			SPACE	15	26X	30	SPACE			0
0			SPACE	15	26Y	30	SPACE			0
0			SPACE	15	26Z	30	SPACE			0
0			SPACE	15	27A	30	SPACE			0
0			SPACE	15	27B	30	SPACE			0
0			SPACE	15	27C	30	SPACE			0
0			SPACE	15	27D	30	SPACE			0
0			SPACE	15	27E	30	SPACE			0
0			SPACE	15	27F	30	SPACE			0
0			SPACE	15	27G	30	SPACE			0
0			SPACE	15	27H	30	SPACE			0
0			SPACE	15	27I	30	SPACE			0
0			SPACE	15	27J	30	SPACE			0
0			SPACE	15	27K	30	SPACE			0
0			SPACE	15	27L	30	SPACE			0
0			SPACE	15	27M	30	SPACE			0
0			SPACE	15	27N	30	SPACE			0
0			SPACE	15	27O	30	SPACE			0
0			SPACE	15	27P	30	SPACE			0
0			SPACE	15	27Q	30	SPACE			0
0			SPACE	15	27R	30	SPACE			0
0			SPACE	15	27S	30	SPACE			0
0			SPACE	15	27T	30	SPACE			0
0			SPACE	15	27U	30	SPACE			0
0			SPACE	15	27V	30	SPACE			0
0			SPACE	15	27W	30	SPACE			0
0			SPACE	15	27X	30	SPACE			0
0			SPACE	15	27Y	30	SPACE			0
0			SPACE	15	27Z	30	SPACE			0
0			SPACE	15	28A	30	SPACE			0
0			SPACE	15	28B	30	SPACE			0
0			SPACE	15	28C	30	SPACE			0
0			SPACE	15	28D	30	SPACE			0
0			SPACE	15	28E	30	SPACE			0
0			SPACE	15	28F	30	SPACE			0
0			SPACE	15	28G	30	SPACE			0
0			SPACE	15	28H	30	SPACE			0
0			SPACE	15	28I	30	SPACE			0
0			SPACE	15	28J	30	SPACE			0
0			SPACE	15	28K	30	SPACE			0
0			SPACE	15	28L	30	SPACE			0
0			SPACE	15	28M	30	SPACE			0
0			SPACE	15	28N	30	SPACE			0
0			SPACE	15	28O	30	SPACE			0
0			SPACE	15	28P	30	SPACE			0
0			SPACE	15	28Q	30	SPACE			0
0			SPACE	15	28R	30	SPACE			0
0			SPACE	15	28S	30	SPACE			0
0			SPACE	15	28T	30	SPACE			0
0			SPACE	15	28U	30	SPACE			0
0			SPACE	15	28V	30	SPACE			0
0			SPACE	15	28W	30	SPACE			0
0			SPACE	15	28X	30	SPACE			0
0			SPACE	15	28Y	30	SPACE			0
0			SPACE	15	28Z	30	SPACE			0
0			SPACE	15	29A	30	SPACE			0
0			SPACE	15	29B	30	SPACE			0
0			SPACE	15	29C	30	SPACE			0
0			SPACE	15	29D	30	SPACE			0
0			SPACE	15	29E	30	SPACE			0
0			SPACE	15	29F	30	SPACE			0
0			SPACE	15	29G	30	SPACE			0
0			SPACE	15	29H	30				

1 EXISTING PANEL 006-NDP-05-02-AA
-44 N.T.S.

004MRP 05-25-24										DATE MODIFIED: 6/20/24					
BLDG #		PANEL TAG		BDR #		RDR #		DESCRIPTION (Name, Number, Date)		CONNECTED LOAD (W)		SEWING FACTOR		TOTAL DEMAND	
CONNECTED LOAD (W)	SEWING FACTOR	TOTAL DEMAND	BLDG #	PANEL TAG	3 PHASE	4 WIRE	S.C.	DESCRIPTION (Name, Number, Date)	CONNECTED LOAD (W)	SEWING FACTOR	TOTAL DEMAND				
0	0	0	REC. WALL 502N	REC. WALL 502N	15	15	0	CAPRED IN FLOOR BOX 502N	0	0	0				
0	0	0	REC. 505T	15	15	15	0	BLUZER SYSTEM FORMER 1004	0	0	0				
0	0	0	DEDICATED FREDGE. REC. 500T	15	15	15	0	ELIMREC 5024	0	0	0				
0	0	0	0 SPARE	15	15	15	0	REC. WALL 502N	0	0	0				
0	0	0	0 SPARE	15	15	15	0	REC. WALL 500N	0	0	0				
0	0	0	0 SPARE	15	15	15	0	REC. WALL 500S	0	0	0				
0	0	0	REC. WALL 502S	15	15	15	0	REC. WALL 502S	0	0	0				
0	0	0	0 SPARE	15	15	15	0	REC. WALL 502S, 503S	0	0	0				
0	0	0	REC. WALL 502N	15	15	15	0	REC. WALL 502S	0	0	0				
0	0	0	0 SPARE	15	15	15	0	SPACE	0	0	0				
0	0	0	0 SPARE	15	15	15	0	SPACE	0	0	0				
600	0.60	360	DIGITAL LOUNGE DAW WORKSTATION	15	15	15	0	SPACE	0	0	0				
600	0.60	360	DIGITAL LOUNGE DAW WORKSTATION	15	15	15	0	REC. WALL 502T & 502S	0	0	0				
600	0.60	360	DIGITAL LOUNGE DAW WORKSTATION	15	15	15	0	DIGITAL LOUNGE DAW WORKSTATION	600	0.60	360				
600	0.60	360	DIGITAL LOUNGE DAW WORKSTATION	15	15	15	0	DIGITAL LOUNGE DAW WORKSTATION	600	0.60	360				
900	0.90	540	802S STUB UP	15	15	20	0	DIGITAL LOUNGE DAW PRINTER	1200	0.90	720				
900	0.90	540	802S STUB UP	15	15	20	0	DIGITAL LOUNGE DAW SCANNER	1200	0.60	720				
900	0.90	540	802S STUB UP	15	15	20	0	SPACE	0	0	0				
600	0.60	360	CAPRED IN FLOOR BOX 502V	15	15	15	0	CAPRED IN FLOOR BOX 502V	0	0	0				
600	0.60	360	CAPRED IN FLOOR BOX 502V	15	15	15	0	CAPRED IN FLOOR BOX 502V	0	0	0				
600	0.60	360	CAPRED IN FLOOR BOX 502V	15	15	15	0	CAPRED IN FLOOR BOX 502V	0	0	0				
600	0.60	360	CAPRED IN FLOOR BOX 502V	15	15	15	0	CAPRED IN FLOOR BOX 502V	0	0	0				
BLDG #		PANEL TAG		BDR #		RDR #		NEW TAG							
REC. 505T		PANEL TAG		3 PHASE		4 WIRE		S.C.		FEEDER SIZE					
BLDG #		PANEL TAG		BDR #		RDR #		FEEDER SIZE		FEEDER SIZE					

2 NEW PANEL 006-NRP-05-02-AA
-44 N.T.S.

BLOCK #				PANEL TAG		006-NR-05-02-48		DATE MODIFIED: 8/20/24	
CONNECTED LOAD (VA)	DEMAND FACTOR	TOTAL RECUR	DESCRIPTION (Per Room Number(s))	WIRING (CT)	CT (WIRING)	DESCRIPTION (Per Room Number(s))	CONNECTED LOAD (VA)	DEMAND FACTOR	TOTAL RECUR
0		0	AREA TIME CLOCK SEN	15	14	REC EXTERIOR WALL COLLISION BBOX	0		0
750	0.80	450	JOYCE HUBER B08 BOX	15	14	REC COLLISION BBOX 000	0		0
750	0.80	450	DISTAL LOUNGE 004B REC	15	15	REC SUSPIT PAT FOSSEY REVERE FLOWER AS	0		0
750	0.80	450	OFFICE 004B & 004A REC	15	15	KONY CAPTIVE # FLOOR BOX	0		0
750	0.80	450	REFERENCE DESK 004B REC	15	15	KONY CAPTIVE # FLOOR BOX	0		0
750	0.80	450	REFERENCE DESK 004A REC	15	15	DIGITAL LOUNGE 004B REC	750	0.80	450
750	0.80	450	DISTAL LOUNGE 004B REC	15	14	OFFICE 004A & 004C REC	750	0.80	450
750	0.80	450	OFFICE 000A & 000 C REC	15	15	REFERENCE DESK 004B REC	300	0.80	180
200	0.80	120	MECHANICAL SPAND BOX	15	17	DIGITAL LOUNGE 004B REC	750	0.80	450
0		0	SPARE	15	15	OFFICE 004A & 004B REC	750	0.80	450
0		0	SPARE	15	15	SPARE	0		0
0		0	SPARE	15	23	SPARE	0		0
0		0	SPARE	15	24	SPARE	0		0
0		0	SPARE	15	25	SPARE	0		0
0		0	SPARE	15	27	SPARE	0		0
0		0	SPARE	15	28	SPARE	0		0
0		0	SPARE	15	29	SPARE	0		0
0		0	SPARE	15	30	SPARE	0		0
0		0	SPARE	15	31	SPARE	0		0
0		0	SPARE	15	32	SPARE	0		0
0		0	SPARE	15	33	SPARE	0		0
0		0	SPARE	15	34	SPARE	0		0
0		0	SPARE	15	35	SPARE	0		0
0		0	SPARE	15	36	SPARE	0		0
0		0	SPARE	15	37	SPARE	0		0
0		0	SPARE	15	38	SPARE	0		0
0		0	SPARE	15	39	SPARE	0		0
0		0	SPARE	15	40	SPARE	0		0
0		0	SPARE	15	41	SPARE	0		0
0		0	SPARE	15	42	SPARE	0		0
0		0	SPARE	15	43	SPARE	0		0
0		0	SPARE	15	44	SPARE	0		0
0		0	SPARE	15	45	SPARE	0		0
0		0	SPARE	15	46	SPARE	0		0
0		0	SPARE	15	47	SPARE	0		0
0		0	SPARE	15	48	SPARE	0		0
0		0	SPARE	15	49	SPARE	0		0
0		0	SPARE	15	50	SPARE	0		0
0		0	SPARE	15	51	SPARE	0		0
0		0	SPARE	15	52	SPARE	0		0
0		0	SPARE	15	53	SPARE	0		0
0		0	SPARE	15	54	SPARE	0		0
0		0	SPARE	15	55	SPARE	0		0
0		0	SPARE	15	56	SPARE	0		0
0		0	SPARE	15	57	SPARE	0		0
0		0	SPARE	15	58	SPARE	0		0
0		0	SPARE	15	59	SPARE	0		0
0		0	SPARE	15	60	SPARE	0		0
0		0	SPARE	15	61	SPARE	0		0
0		0	SPARE	15	62	SPARE	0		0
0		0	SPARE	15	63	SPARE	0		0
0		0	SPARE	15	64	SPARE	0		0
0		0	SPARE	15	65	SPARE	0		0
0		0	SPARE	15	66	SPARE	0		0
0		0	SPARE	15	67	SPARE	0		0
0		0	SPARE	15	68	SPARE	0		0
0		0	SPARE	15	69	SPARE	0		0
0		0	SPARE	15	70	SPARE	0		0
0		0	SPARE	15	71	SPARE	0		0
0		0	SPARE	15	72	SPARE	0		0
0		0	SPARE	15	73	SPARE	0		0
0		0	SPARE	15	74	SPARE	0		0
0		0	SPARE	15	75	SPARE	0		0
0		0	SPARE	15	76	SPARE	0		0
0		0	SPARE	15	77	SPARE	0		0
0		0	SPARE	15	78	SPARE	0		0
0		0	SPARE	15	79	SPARE	0		0
0		0	SPARE	15	80	SPARE	0		0
0		0	SPARE	15	81	SPARE	0		0
0		0	SPARE	15	82	SPARE	0		0
0		0	SPARE	15	83	SPARE	0		0
0		0	SPARE	15	84	SPARE	0		0
0		0	SPARE	15	85	SPARE	0		0
0		0	SPARE	15	86	SPARE	0		0
0		0	SPARE	15	87	SPARE	0		0
0		0	SPARE	15	88	SPARE	0		0
0		0	SPARE	15	89	SPARE	0		0
0		0	SPARE	15	90	SPARE	0		0
0		0	SPARE	15	91	SPARE	0		0
0		0	SPARE	15	92	SPARE	0		0
0		0	SPARE	15	93	SPARE	0		0
0		0	SPARE	15	94	SPARE	0		0
0		0	SPARE	15	95	SPARE	0		0
0		0	SPARE	15	96	SPARE	0		0
0		0	SPARE	15	97	SPARE	0		0
0		0	SPARE	15	98	SPARE	0		0
0		0	SPARE	15	99	SPARE	0		0
0		0	SPARE	15	100	SPARE	0		0
BLDG:			FLOOR:	NEW TAG:					
FED. ID:		PANEL TAG:		BLDG #:		ROOM #:		FEEDER SIZE:	
WGS-000000		371WSE		47WR		S.C.		FEEDER SIZE (S.C.)	

3 NEW PANEL 006-NRP-05-02-AB
5-8.4 N.T.S.

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Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk™

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4	2024-06-27	ISSUED FOR TENDER
3	2024-08-16	ISSUED FOR PERMITTENDER
2	2024-08-32	ISSUED FOR 100% CD
1	2024-04-29	ISSUED FOR 80% CD COSTING
No.	Date	Issue/Revision

No.	Date	Issue/Revision
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PROJECT CONTACT

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EMAIL: Greg.Zapp@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION
WITH ELECTRICAL SPECIFICATION SUBMITTED FOR
THIS PROJECT.


Smith + Andersen
1100 – 100 Sheppard Ave. East, Toronto, ON, M2N 6N5
416 487 8151 f 416 487 9104 sv@smithandandersen.com

No.	Date	Issue/Revision
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Robarts 5th Floor MDL
Renovation

Title:

Project No. 08086.009.MEAVD	Scale AS NOTED
Drawing No.	

TE-0.4

4



△ Q QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)

- | TOTAL CONTROL LINK LENGTH | WIRE GAUGE | AVAILABLE FROM LUTRON IN ONE CABLE: |
|---|---|--|
| LESS THAN 500ft
(152.4 m) | POWER (TERMINALS 1&2)
1 PAIR 18 AWG (1.0 mm ²) | GRX-GBL-3465 (NON-PLENUM) OR
GRX-PGBL-3465 (PLENUM) |
| | DATA (TERMINALS 3 &4)
1 PAIR 22 AWG (0.5 mm ²), TWISTED AND SHELDED* | |
| 500ft (152.4 m) TO
2,000ft (610 mm)* | POWER (TERMINALS 1&2)
1 PAIR 12 AWG (4.0 mm ²) | GRX-GBL-46L (NON-PLENUM) OR
GRX-PGBL-46L (PLENUM) |
| | DATA (TERMINALS 3 &4)
1 PAIR 22 AWG (0.5 mm ²), TWISTED AND SHELDED* | |

****TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).**

- CLEAR CONNECT - TYPE A
WIRELESS SIGNAL
- CLEAR CONNECT - TYPE A
2-WAY WIRELESS SIGNAL

- E**^T -- TEMPORARY ETHERNET CONNECTION -- CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS. 328 ft (100 m) MAXIMUM RUN.

ATHENA QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION.

- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LENGTHS.
- MAXIMUM OF 32 I/O CHANNELS (AS SHOWN, POWER SUPPLY UNIT REQUIREMENTS NEED TO BE CONSIDERED; SEE POWER DATA UNIT (PDU) SPECIFICATION SHEET).
- FOR 2-LINK EDC PROCESSORS (GPS-PLP AND GPS-PLP) PER LINK LIMITS ARE:
- MAXIMUM OF 256 I/O CHANNELS (DIMMED/SHUTTED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DATA CHANNEL, CANTALOUS OUTPUT, SHARED PANEL).
 - MAXIMUM OF 100 OCCUPANCY SENSORS, 20 NIGHT VISION, 50 DRILL WALLS.
 - MAXIMUM OF 100 ZONES (SHS OR QS AS DRAPERY DRIVE UNIT, EDGE PROCESSOR COUNTS AS 1 I/O CHANNEL).
 - MAXIMUM OF 100 ZONES (SHS OR QS AS SHADE / DRAPERY DRIVE UNIT, EDGE PROCESSOR COUNTS AS 1 I/O CHANNEL).
 - THE 10 OUTPUTS ON A GPS-10PLP CANNOT EXCEED A COMBINED LENGTH OF 2.000 M (6.561 FT).
- FOR 1-LINK EDC PROCESSORS (GPS-1LP AND GPS-1LP) PER LINK LIMITS ARE:
- MAXIMUM OF 256 OUTPUTS (DIMMED/SHUTTED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DATA CHANNEL, CANTALOUS OUTPUT, SHARED PANEL).
 - MAXIMUM OF 50 OCCUPANCY SENSORS, 20 NIGHT VISION, 50 DRILL WALLS.
 - MAXIMUM OF 100 ZONES (SHS OR QS AS DRAPERY DRIVE UNIT, EDGE PROCESSOR COUNTS AS 1 I/O CHANNEL).
 - MAXIMUM OF 100 ZONES (SHS OR QS AS SHADE / DRAPERY DRIVE UNIT, EDGE PROCESSOR COUNTS AS 1 I/O CHANNEL).
 - THE 10 OUTPUTS ON A GPS-10PLP CANNOT EXCEED A COMBINED LENGTH OF 2.000 M (6.561 FT).

CA75e OR BETTER ETHERNET CABLE TO BE RUN FOR SYSTEM ETHERNET LINK, TERMINATED WITH RJ45 CONNECTORS. SYSTEM ETHERNET LINK WIRING USES A STANDARD ETHERNET CONNECTION, ALL WIRING MUST COMPLY WITH IEEE 802.3 STANDARDS. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT, THIS APPLIES FOR INTERPROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X gateways. USE LUTRON'S Q-POE-PNL OR UNMANAGED ETHERNET SWITCHES FOR LONGER DISTANCES. LUTRON ATHENA CLEAR CONNECT - TYPE X gateways MUST BE CONNECTED TO A POE CAPABLE SWITCH THAT MEETS IEEE 802.3ab-2003 OR 802.3at-2009 REQUIREMENTS.

PROCESSORS CANNOT BE DAISY CHAINED. DO NOT DAISY CHAIN PROCESSORS USING THE SECOND ETHERNET PORT. THE SECOND ETHERNET CONNECTION IS USED FOR SERVICE DIAGNOSTICS ONLY. EACH PROCESSOR MUST BE CONNECTED TO AN ETHERNET SWITCH.

MAXIMUM OF (16) ATHENA EDGE PROCESSORS & CLEAR CONNECT - TYPE X GATEWAYS MAY BE CONNECTED AS A SINGLE ATHENA SYSTEM.

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT
INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND
QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE
LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL
SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN
ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW
SCHEDULES/DETAILS.

LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.

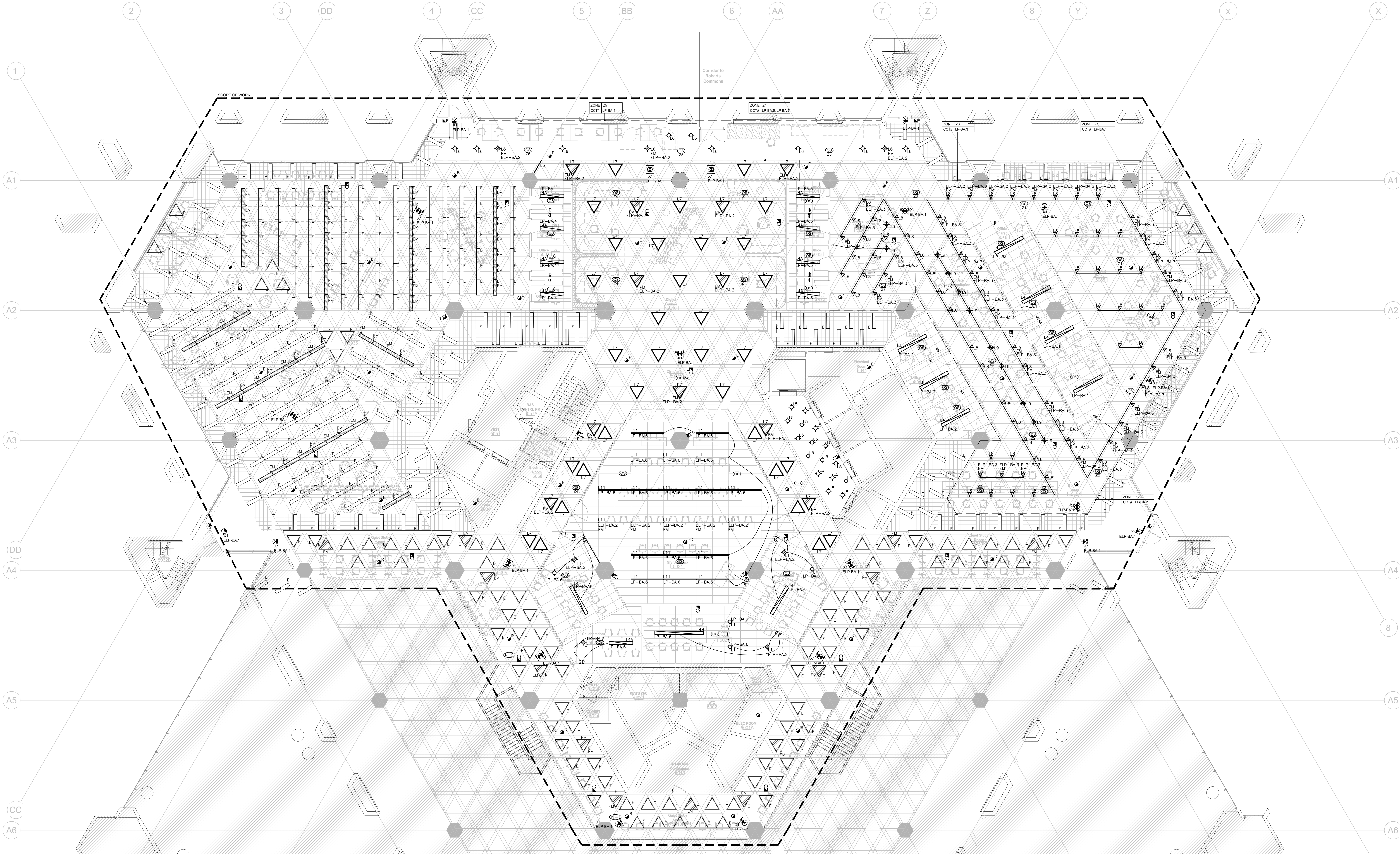
TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM-LED6 OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.

TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LEDs@LUTRON.COM.

LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON HI-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE HI-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. PRODUCTS FOLLOWING THE IEC STANDARD 60929 ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.

IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTMENTS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.



GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
- CIRCUITING IN PART IS DIAGNOSTIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
- PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILING. BX CABLEING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PANT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXITS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILING AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
- REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR REPAIRED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNUSED EXISTING LUMINAIRES TO LANDLORD AND TURN OVER ALL RELOCATED LUMINAIRES AT A PLACE DESIGNATED BY LANDLORD. DISPOSE OF ALL LUMINAIRES REJECTED BY LANDLORD.
- ALL NEW/RELOCATED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
- REPAIR EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.
- REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. M CABLE) TO FIRST EMERGENCY LIGHT FEED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
- MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
- PROVIDE NEW PICTORIAL (DRAWING HAND TYPE) EXIT SIGNS MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE EXISTING AVAILABLE SPARE EXIT LIGHTING CIRCUITS. DO NOT OVERLOAD THE CIRCUIT ALLOW FOR 5% (6) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABORS) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
- LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE

BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (HARDWARE, SOFTWARE INCLUDING ANY LABORS TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM BELLS ARE TO MATCH EXISTING AND BE CONNECTED TO THE NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUITS. CONNECT NEW BELLS TO EXISTING CIRCUITS WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO: ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 LATEST EDITION. PROVIDE FIRE ALARM MUSIC RELAY SHUT DOWN AS SUCH THAT MUSIC SYSTEM SHUTS DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE WITH MUSIC VENDOR AND GENERAL CONTRACTOR TO ENSURE MUSIC SYSTEM IS INSTALLED AND FULLY FUNCTIONAL AT THE TIME OF FIRE ALARM VERIFICATION. ALLOW FOR FIVE (5) ADDITIONAL BELLS AND FIRE ALARM VERIFICATION.

12. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.

13. NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH LANDLORD AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.

14. Tie-IN NEW 120V SPECIALTY LIGHTING FIXTURES INTO TENANT LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.

15. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.

16. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 8'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

LIGHTING SEQUENCE OF OPERATIONS:

- OFFICES/SHARED OFFICES: MANUAL ON VIA DIMMER. AUTO OFF AFTER 15 MIN OF VACANCY.
- COLLABORATION ROOMS: AUTO ON TO 100% UPON OCCUPANCY. MANUAL DIMMING CONTROL. AUTO OFF AFTER 15 MIN OF VACANCY.
- DATA LAB: AUTO ON TO 100% UPON OCCUPANCY. MANUAL DIMMING CONTROL. AUTO OFF AFTER 15 MIN OF VACANCY. LIGHTS TO BE ON AT 100% DURING STANDARD HOURS OF OPERATION FROM 7AM TO 5PM. DURING ALL OTHER HOURS OUTSIDE OF STANDARD OPERATING HOURS LIGHTS SHALL AUTO ON TO 100% UPON OCCUPANCY AND AUTO OFF AFTER 15 MIN OF VACANCY. MANUAL DIMMING CONTROL.
- DESK AREAS: AUTO ON TO 100% UPON OCCUPANCY WITHIN EACH INDIVIDUAL ZONE. AUTO OFF AFTER 30 MIN OF VACANCY IN EACH INDIVIDUAL ZONE.

1. NIGHT LIGHTS, EMERGENCY LIGHTS TO BE CONTROLLED NORMALLY WITH ASSOCIATED ZONES DURING STANDARD HOURS OF OPERATION FROM 7AM TO 5PM. DURING ALL OTHER HOURS OUTSIDE OF STANDARD OPERATING HOURS EMERGENCY LIGHTS SHALL SERVE AS NIGHT LIGHT AND BE LEFT ON AT 100% EMERGENCY LIGHTS SHALL REVERT TO 100% UPON LOSS OF POWER OR ACTIVATION OF FIRE ALARM.

DRAWING NOTES:

- ALL DEVICES NOTED AS 'R' TO BE RELOCATED FROM THEIR CURRENT LOCATION TO THEIR FINAL LOCATION AS SHOWN ON TE-5.1.
- CEILING MOUNTED BELLS TO BE MOUNTED ON THE VERTICAL FACE OF THE CEILING STRUCTURE.
- ALL OSMS TO BE LOCATED IN ACCESSIBLE CEILING SPACES OR ELECTRICAL ROOMS. OSMS SHALL NOT BE LOCATED IN OPEN CEILINGS. COORDINATE EXACT LOCATIONS ON SITE.

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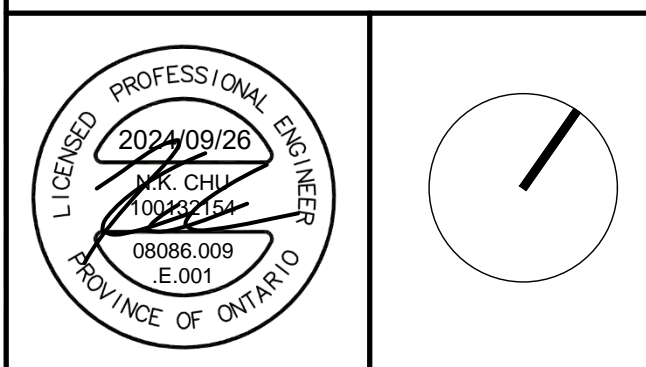
No.	Date	Issue/Revision
8	2024-08-27	ISSUED FOR TENDER
7	2024-08-16	ISSUED FOR PERMIT/TENDER
6	2024-08-02	ISSUED FOR 10% LO
5	2024-07-09	ISSUED FOR 10% CLOSING
4	2024-09-11	ISSUED FOR COORDINATION
3	2024-12-12	ISSUED FOR 0% REVIEW
2	2024-11-21	ISSUED FOR 0% REVIEW
1	2024-04-04	ISSUED FOR 0%

No. Date Issue/Revision

PROJECT CONTACT	
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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

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1109 - 100 Bessborough Ave. East, Toronto, Ont. M5H 4K5
416 497 8174 • 416 497 8176 smithandandersen.com
No. Date Issue/Revision

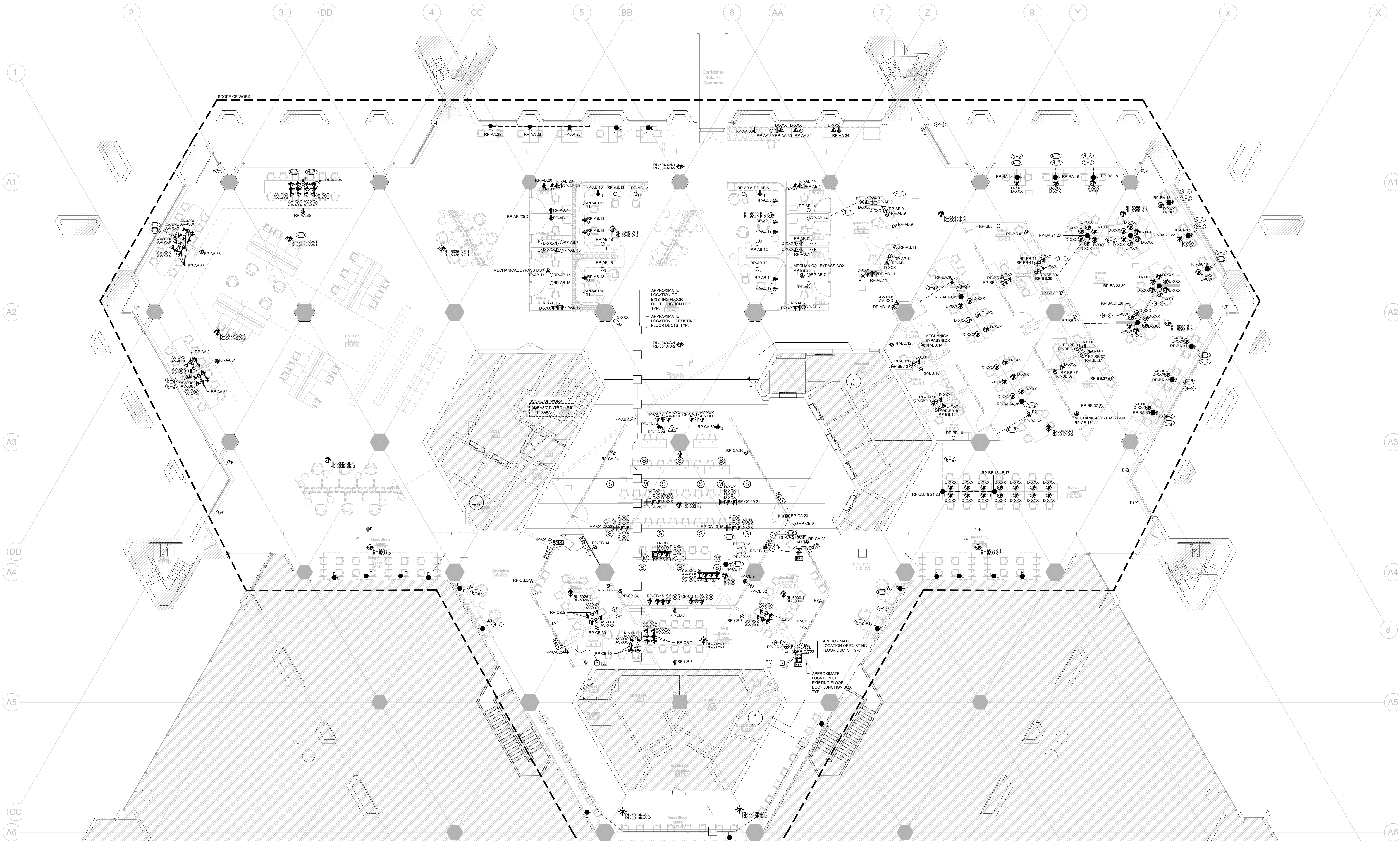


Robarts 5th Floor MDL Renovation

Title:
FIFTH FLOOR LIGHTING AND FIRE ALARM LAYOUT

Project: No.08086.009 MEAVD | Scale: 1:100
Drawing No.

TE-5.1



GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGNOSTIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILING. BY CABLEING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BY CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WIRMS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILING AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. REUSE CIRCUITS OBTAINED THROUGH DEMOLITION IS ACCEPTABLE.
5. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWARE CONNECTIONS FOR DIMMERS AND COPIERS ETC. IN USE OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
6. REFER TO INTERIOR DESIGN DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
7. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
8. PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
9. TRACE ALL EXISTING OUTLETS, NOTED AS EXISTING, AND IDENTIFY ON AS BUILT DRAWING AS PER SPECIFICATION.
10. ALLOW FOR THE REMOVAL AND RE-INSTALLATION OF SYSTEMS FURNITURE CONNECTIONS.
11. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
12. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
13. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL AV EQUIPMENT WITH AV DRAWINGS AND CONTRACTOR PRIOR TO ALL ROUGH-INS. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS. AV PACKAGE HAS BEEN ATTACHED WITH ELECTRICAL FOR REVIEW AND PRICING.
14. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL SECURITY EQUIPMENT WITH SECURITY DRAWINGS AND CONTRACTOR PRIOR TO ALL ROUGH-INS. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
15. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ALL ROUGH-INS. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.

DRAWINGS NOTES:

- (1) WHEN DIRECTLY OVER FLOOR DUCT UTILIZE FLOOR DUCT SYSTEM WITHOUT ANY ADDITIONAL TRENCHING.
- (2) APPROXIMATE LOCATION OF TRENCHING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (3) EXTEND TRENCH AND EXISTING POWER CONDUIT FROM TRENCH HEATER CAVITY TO NEW FURNITURE. PROVIDE ONE (1) NEW 27mm (1") CONDUIT FOR COMMUNICATIONS CABLEING BACK FROM ELECTRICAL ROOM 5041.
- (4) ALL MLLWORK RECEPTABLES TO BE LEGRAND ADOIRNE SERIES. TYP.
- (5) NEW RECEPTABLES MOUNTED IN MLLWORK. REUSE EXISTING CIRCUIT FROM FLOOR FEED.
- (6) PROVIDE 3/4" EMT CONDUIT C/W ONE (1) DATA CABLE FROM EACH HOT SPOT CONTROLLER TO BAS CONTROL ROOM AND TERMINATE IN U OF T NETWORK SWITCH. ALLOW FOR ALL ASSOCIATED COSTS.
- (7) ALL NEW CONDUIT RUNS AS A PART OF THIS SCOPE SHALL BE RUN ALONG THE VERTICES OF THE TRIANGULAR CEILING STRUCTURE. CONDUITS SHALL NOT CROSS TRIANGULAR BAYFLETS.
- (8) COLOUR CODING REQUIREMENTS FOR CABLES SHALL BE IN ACCORDANCE WITH UNIVERSITY OF TORONTO STANDARDS FOR COMMUNICATIONS AND ELECTRICAL INSTALLATIONS.
- (9) PROVIDE A 5/4" EMT CONDUIT FOR ALL WIRELESS ACCESS POINTS AND BRING BACK TO TYP. ELECTRICAL ROOM 5041.
- (10) REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE PHASING AROUND EXISTING HOARDING TYP. WALLS.
- (11) ALL BX TO BE NEATLY RUN AND PROPERLY SUPPORTED IN MLLWORK. REFER TO DETAIL 2 AND 3 ON DRAWING TE-5.2.

ITEMIZED PRICE:

- (1) CONTRACTOR PROVIDE ITEMIZED PRICE TO REWORK 100' OF 1" CONDUIT AND ASSOCIATED JUNCTION BOXES AND POWER WIRING IN MULTIPLE SECTIONS TO ALLOW WITH VERTICES OF TRIANGULAR CEILING STRUCTURE. ALLOW FOR ALL ASSOCIATED COST.
- (2) CONTRACTOR PROVIDE ITEMIZED PRICE TO REWORK 100' OF 2" CONDUIT AND ASSOCIATED JUNCTION BOXES AND POWER WIRING IN MULTIPLE SECTIONS TO ALLOW WITH VERTICES OF TRIANGULAR CEILING STRUCTURE. ALLOW FOR ALL ASSOCIATED COST.
- (3) CONTRACTOR PROVIDE ITEMIZED PRICE TO REWORK 100' OF 1" CONDUIT AND ASSOCIATED JUNCTION BOXES AND TWO (2) CAT 6 CABLES IN MULTIPLE SECTIONS TO ALLOW WITH VERTICES OF TRIANGULAR CEILING STRUCTURE. ALLOW FOR ALL ASSOCIATED COST.
- (4) CONTRACTOR PROVIDE ITEMIZED PRICE TO REWORK 100' OF 1" CONDUIT AND ASSOCIATED JUNCTION BOXES AND ASSOCIATED FIRE ALARM WIRING TO ALIGN WITH VERTICES OF TRIANGULAR CEILING STRUCTURE. ALLOW FOR ADDITIONAL VERIFICATION. ALLOW FOR ALL ASSOCIATED COST.

SEPARATE PRICE:

- (1) ALLOW FOR A SEPARATE PRICE FOR REMOVAL AND REINSTALLATION OF ALL EXISTING RECEPTABLES IN THE TENANT SPACE AS NECESSARY PER SITE CONDITIONS.

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No.	Date	Issue/Revision
1	2024-09-27	ISSUED FOR TENDER
2	2024-09-28	ISSUED FOR PERMIT/TENDER
3	2024-09-28	ISSUED FOR W/C COSTING
4	2024-09-28	ISSUED FOR W/C COSTING
5	2024-09-28	ISSUED FOR W/C COSTING
6	2024-09-28	ISSUED FOR W/C COSTING
7	2024-09-28	ISSUED FOR W/C COSTING
8	2024-09-28	ISSUED FOR W/C COSTING
9	2024-09-28	ISSUED FOR W/C COSTING
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15	2024-09-28	ISSUED FOR W/C COSTING
16	2024-09-28	ISSUED FOR W/C COSTING
17	2024-09-28	ISSUED FOR W/C COSTING
18	2024-09-28	ISSUED FOR W/C COSTING
19	2024-09-28	ISSUED FOR W/C COSTING
20	2024-09-28	ISSUED FOR W/C COSTING

PROJECT CONTACT

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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen

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No. Date Issue/Revision

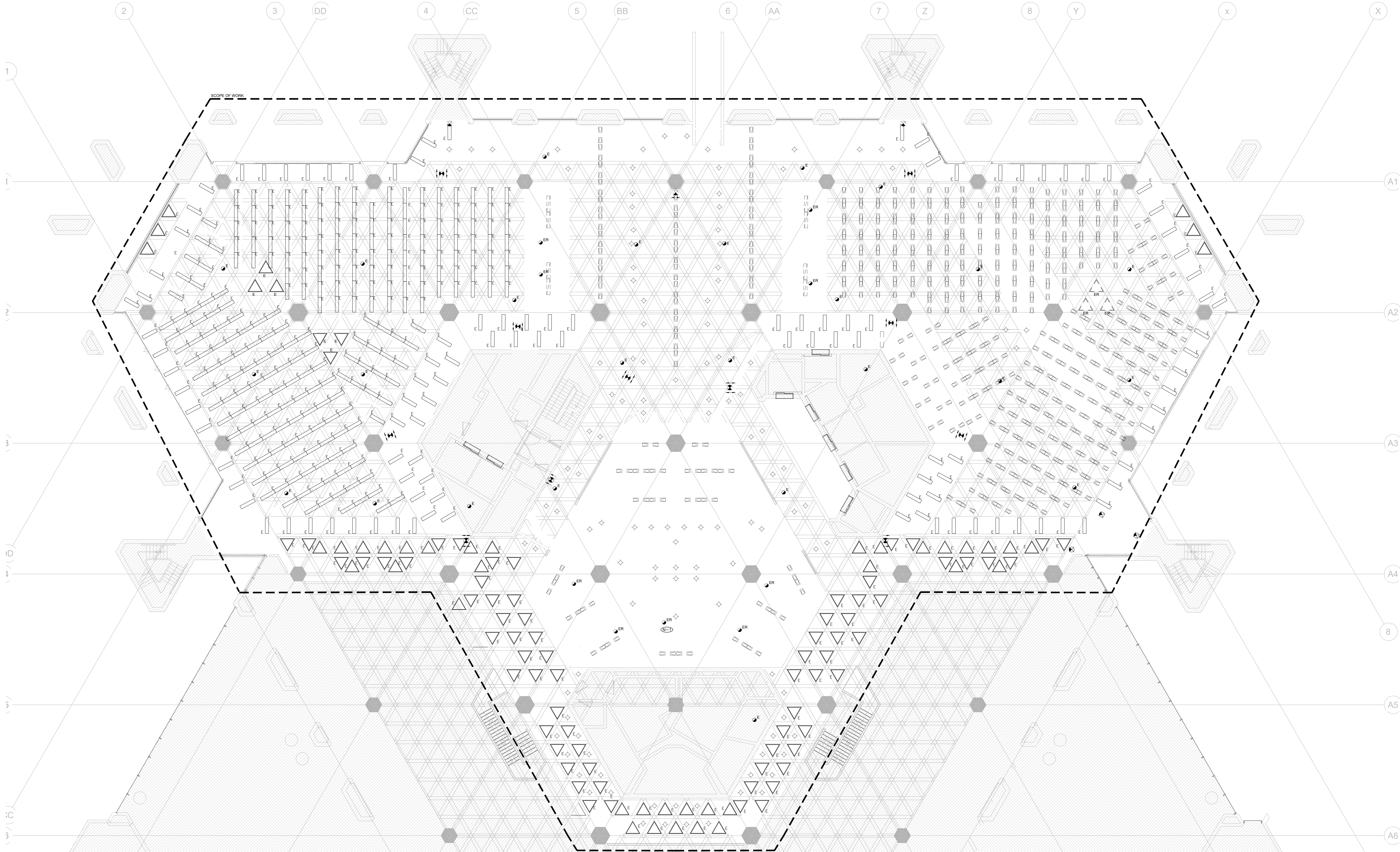


Robarts 5th Floor MDL Renovation

FIFTH FLOOR POWER AND SYSTEMS LAYOUT

Project No. 08068.000 MEAVD Scale 1:100
Drawing No.

TE-5.2



- GENERAL NOTES:
1. REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
 2. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
 3. EXISTING CONDITIONS SHOWN ARE BASED ON DRAWINGS, FIELD SURVEY AND INFORMATION PROVIDED BY LANDLORD. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN HERE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING.
 4. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
 5. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.
 6. EXISTING FIRE ALARM DEVICES SHALL BE COILED AND FULLY FUNCTIONAL THROUGHOUT DEMOLITION CONSTRUCTION. NEW FIRE ALARM DEVICES SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE. REFER TO PHASING SCHEDULE FOR CONSTRUCTION SCHEDULING.
 7. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY EMERGENCY LIGHTING FOR ENTIRE SPACE TO ACCOMMODATE DEMOLITION WORK AND FUTURE BUILD-OUT. ENSURE FIXTURES ARE CHAIN HUNG AND SUPPORTED FROM THE CEILING SLAB/STRUCTURE ABOVE.
 8. EXISTING EXIT SIGNS SHALL BE MAINTAINED THROUGHOUT DEMOLITION CONSTRUCTION. PROVIDE TEMPORARY SUPPORT FROM THE CEILING SLAB/STRUCTURE ABOVE. NEW EXIT SIGNS SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE.

DRAWING NOTES:

1. ALL DEVICES NOTED AS 'E' TO BE RELOCATED FROM THEIR CURRENT LOCATION TO THEIR FINAL LOCATION AS SHOWN ON TE-5.1.

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No.	Date	Issue/Revision
1	2024-09-27	ISSUED FOR TENDER
2	2024-09-28	ISSUED FOR PERMIT/TENDER
3	2024-09-28	ISSUED FOR WIN CO
4	2024-09-28	ISSUED FOR WIN CO COSTING
5	2024-12-12	ISSUED FOR O&M REVIEW
6	2024-12-12	ISSUED FOR O&M REVIEW
7	2024-12-12	ISSUED FOR O&M REVIEW
8	2024-12-12	ISSUED FOR O&M REVIEW

PROJECT CONTACT

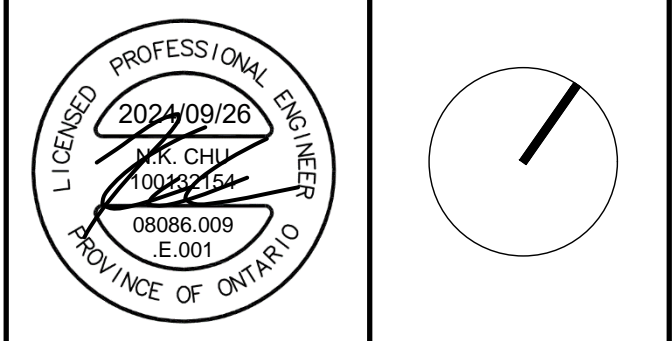
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THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

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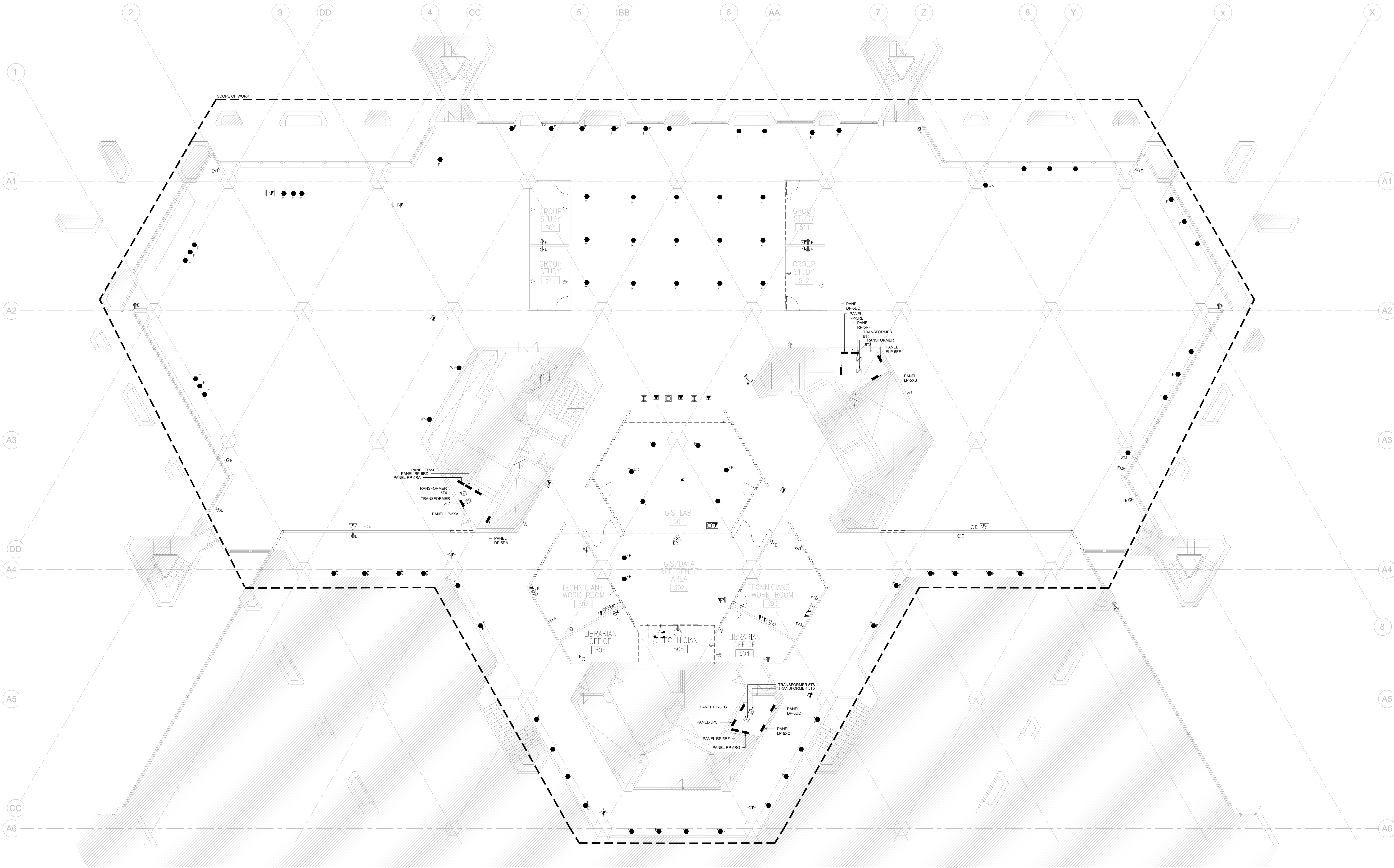


**Robarts 5th Floor MDL
Renovation**

Title:
**FIFTH FLOOR LIGHTING AND
FIRE ALARM DEMOLITION
LAYOUT**

Project: No.08086.009 MEAVD | Scale: 1:100
Drawing No.

TE-5.3



- GENERAL NOTES:
1. REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
 2. REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
 3. MAKE GOOD ALL CORE HOLES FROM ELECTRICAL EQUIPMENT AND DEVICES DISCONNECTED, RELOCATED AND OR REMOVED IN THIS PROJECT.
 4. REMOVE FLOOR MONUMENT(S) AND ALL ASSOCIATED CONDUIT(S) AND WIRE BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS TO COMPLY WITH CURRENT LOCAL APPLICABLE CODES.
 5. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, SHOWN HERE ARE NOT IN SCOPE. REMAIN LIVE, OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
 6. EXISTING CONDITIONS SHOWN ARE BASED ON DRAWINGS, FIELD SURVEY AND INFORMATION PROVIDED BY LANDLORD. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN HERE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING.
 7. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
 8. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.

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superkⁱⁱ

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No.	Date	Issue/Revision
1	2024-09-27	ISSUED FOR TENDER
2	2024-09-28	ISSUED FOR PERMIT/TENDER
3	2024-09-28	ISSUED FOR WIN/LO
4	2024-09-28	ISSUED FOR WIN/LO COSTING
5	2024-12-12	ISSUED FOR OR REVIEW
6	2024-12-12	ISSUED FOR OR REVIEW
7	2024-12-12	ISSUED FOR OR REVIEW
8	2024-12-12	ISSUED FOR OR REVIEW

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No. Date Issue/Revision

Robarts 5th Floor MDL Renovation
















Title:

FIFTH FLOOR POWER AND SYSTEMS DEMOLITION LAYOUT

Project: No.08086.009 MEAVD | Scale 1:100

Drawing No.

TE-5.4

AUDIOVISUAL				ELECTRICAL								COMMUNICATION	MECHANICAL	GENERAL
DEVICE DETAILS				REQUIREMENTS						RECEPTACLES		OWNER SUPPLIED NETWORK DROPS	HEAT LOAD [BTU]	NOTES
SYMBOL NAME	SYMBOL	ID	MOUNTING HEIGHT (TO CENTRE LINE)	AV BACKBOX/MIDRING SIZE	BACKBOX/MIDRING MOUNTING HEIGHT	VOLTAGE [V]	CURRENT [A]	UNIT POWER [W]	GROUND TYPE	TYPE	QUANTITY			
55" WALL MOUNT DIGITAL SIGNAGE DISPLAY (PORTRAIT)		DS1	1500mm (59") AFF	—	1935mm (76") AFF	120	2	240	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	818.88	POWER AND DATA ONLY
55" WALL MOUNT FLAT PANEL DISPLAY		FPD1	1575mm (62") AFF	(1)2 GANG AV MIDRING	1780mm (70") AFF	120	2	240	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	818.88	
75" WALL MOUNT FLAT PANEL DISPLAY		FPD2	1700mm (67") AFF	(1)2 GANG AV MIDRING	1955mm (77") AFF	120	4	480	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	1637.76	
110" WALL MOUNT FLAT PANEL DISPLAY		FPD3	1925mm (76") AFF	(1)2 GANG AV MIDRING	2355mm (93") AFF	120	5	600	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	2047.00	
43" WALL MOUNT FLAT PANEL DISPLAY		FPD4	1310mm (51.5") AFF	(1)2 GANG AV MIDRING	1500mm (59") AFF	120	1	120	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	409.44	
110" WALL MOUNT FLAT PANEL DISPLAY		FPD5	1925mm (76") AFF	(1)2 GANG AV MIDRING	2355mm (93") AFF	120	5	600	NORMAL	5~15R	(1)QUAD	(2)NETWORK DROPS	2047.00	
WALL MOUNT PTZ CAMERA		CAM1	2130mm (84") AFF	(1)2 GANG AV MIDRING	2130mm (84") AFF	—	—	—	—	—	—	—	—	
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
AV WALLPLATE AV INPUT		AV1	AT RECEPTACLE HEIGHT	(1)2 GANG AV MIDRING	AT RECEPTACLE HEIGHT	120	1	120	NORMAL	5~15R	(1)DUPLEX	(2)NETWORK DROPS	409.44	
AV WALLPLATE VIDEO INPUT		AV2	917mm (36") AFF	(1)1 GANG AV MIDRING	917mm (36") AFF	120	1	120	NORMAL	5~15R	(1)DUPLEX	(2)NETWORK DROPS	409.44	
CEILING RECESSED SPEAKERS		S1	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	—	—	—	—	—	—	—	—	
ASSISTIVE LISTENING SYSTEM ANTENNA		ANT2	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	—	—	—	—	—	—	—	—	
CEILING MICROPHONE		MC	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
CREDENZA RACK		RACK1	ON THE FLOOR	(1)2 GANG OPENING AT ELECTRICAL FLOORBOX	AT RECEPTACLE HEIGHT	120	10.00	1200	ISOLATED	5~20R	(2)DUPLEX	(4)NETWORK DROPS	3100	DEDICATED CIRCUITS REQUIRED. WITH ISOLATED GROUND. FIRE ALARM. LIGHTING INTERCONNECTION REQUIRED.

1 AV DEVICE MATRIX

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superk

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1. 2024.09.27 ISSUED FOR REFERENCE
No. Date Issue/Revision


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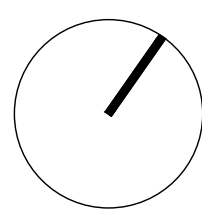
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No. Date Issue/Revision



Robarts 5th Floor MDL
Renovation

Title:
AV COORDINATION
MATRIX

Project: No.08086.000.MEAVD | Scale: AS NOTED
Drawing No.

AV001

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Project No.08086.009.MEAVD	Scale AS NOTED
Drawing No.	

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1. 2024-09-27 ISSUED FOR REFERENCE
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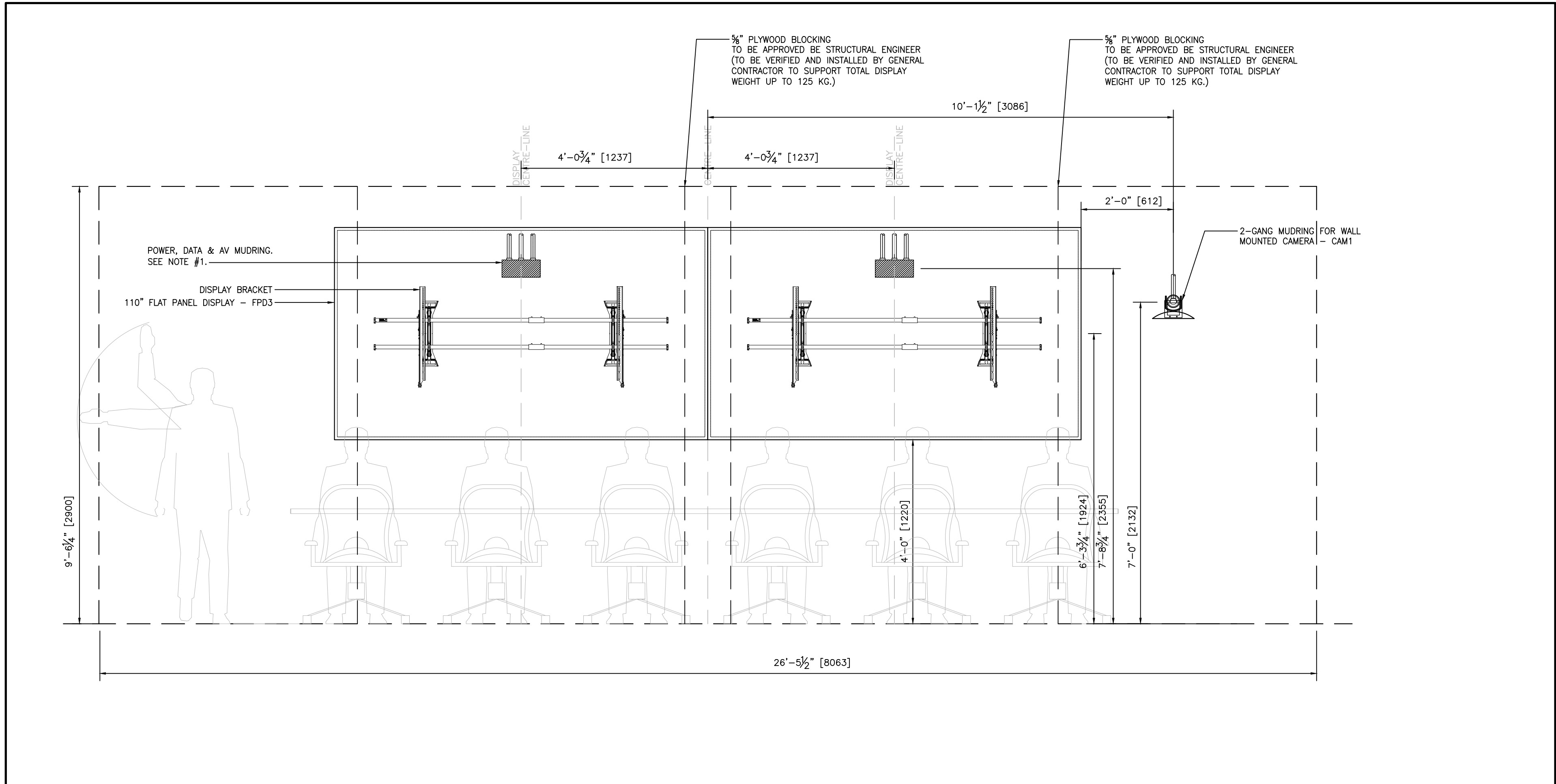
Robarts 5th Floor MDL Renovation

Title:
5th FLOOR AV DEVICE RCP

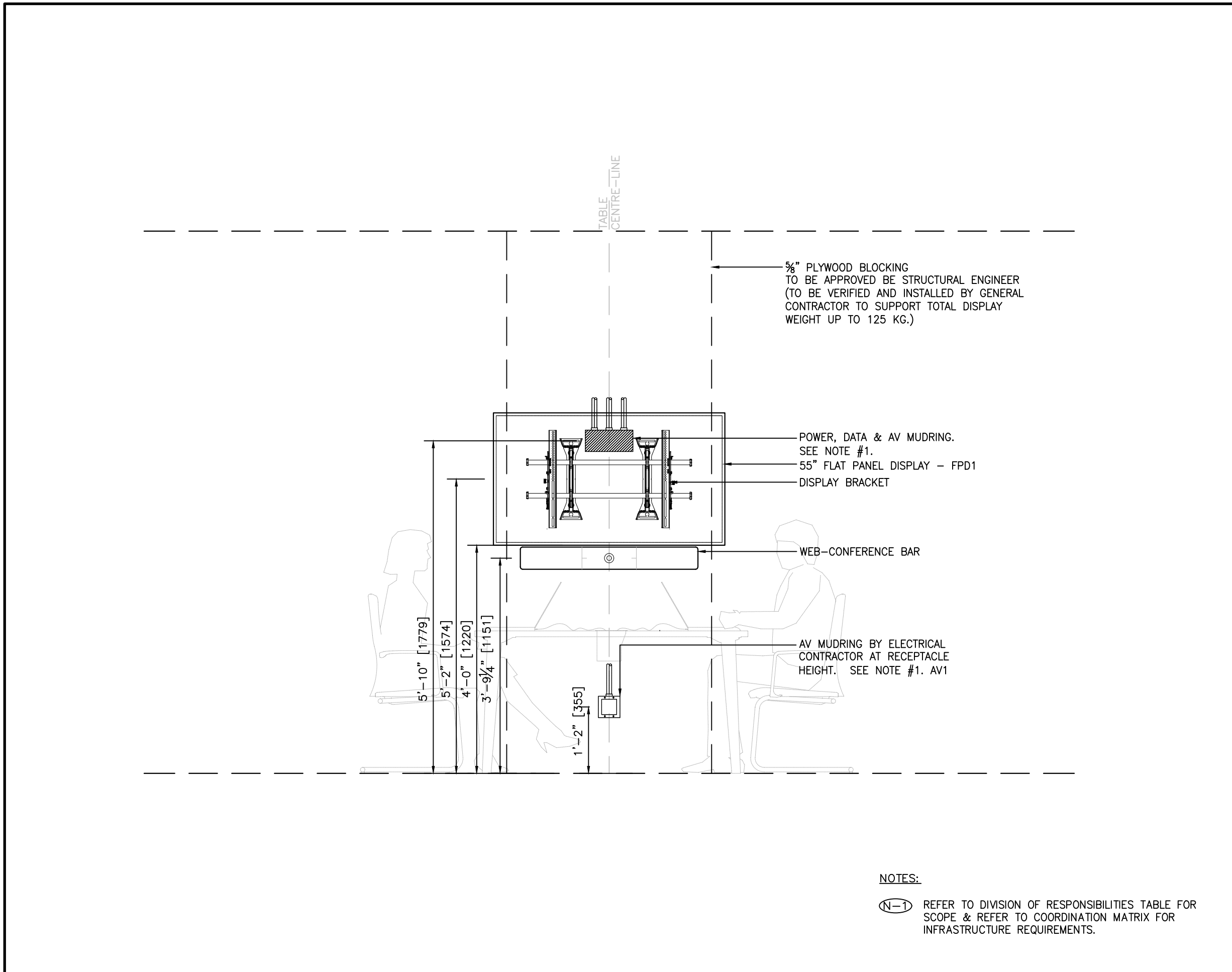
Project: No.08086.000 MEAVD | Scale: AS NOTED
Drawing No.

AV105B

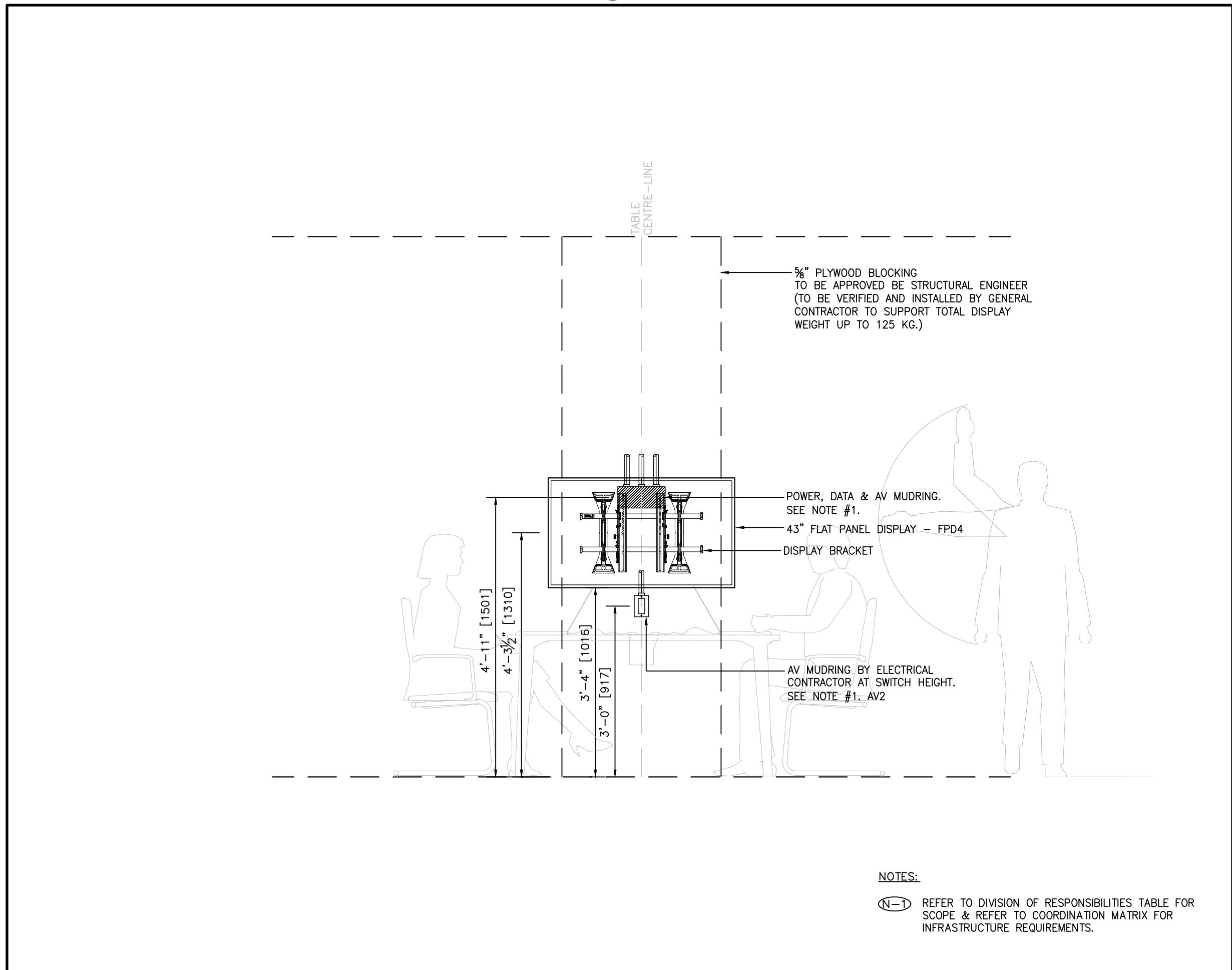
DRAWING SCALE: 3/8"=1'-0"



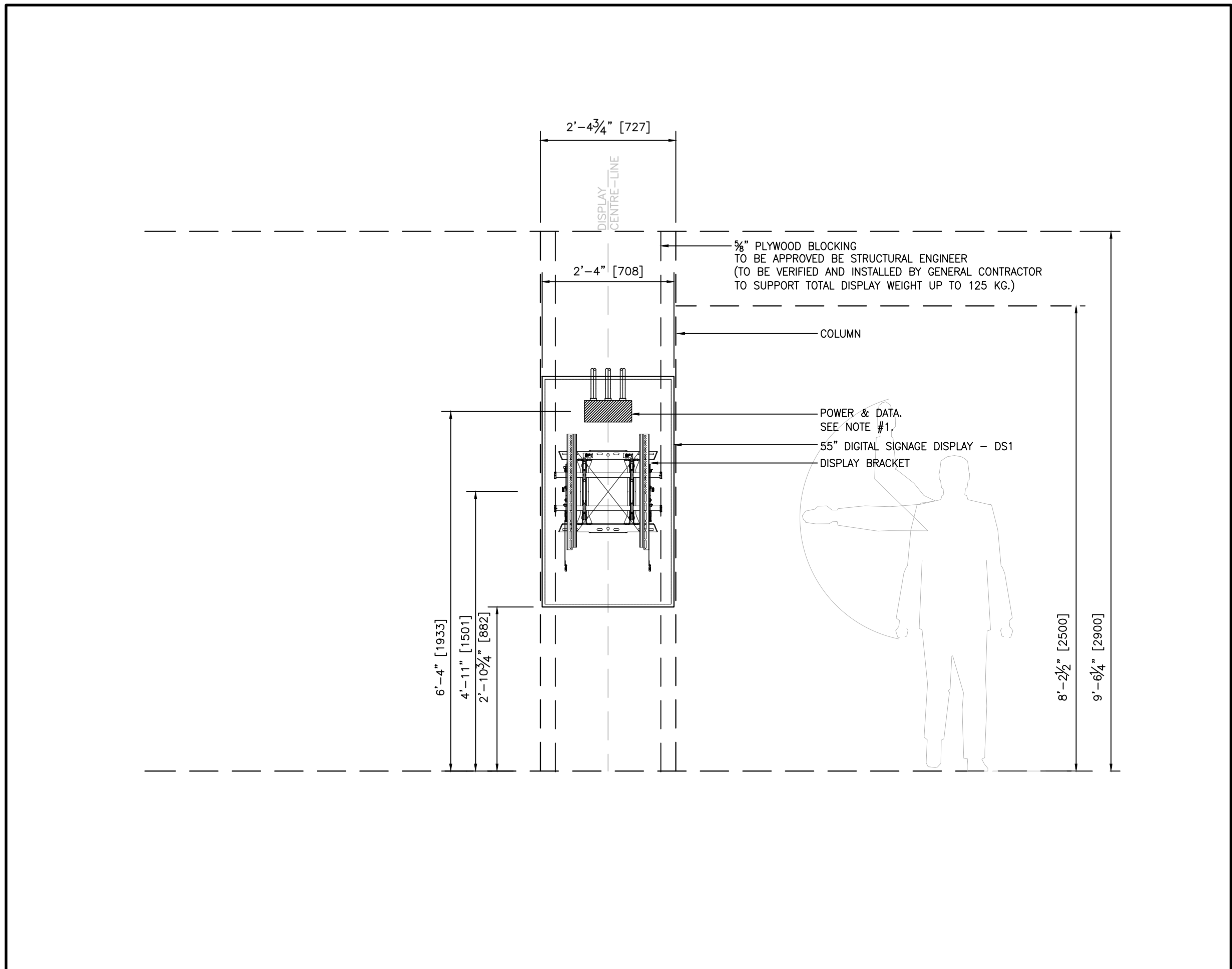
3
K030 TYPE 3 — TEACHING LAB
TYPICAL AV DEVICE ELEVATION



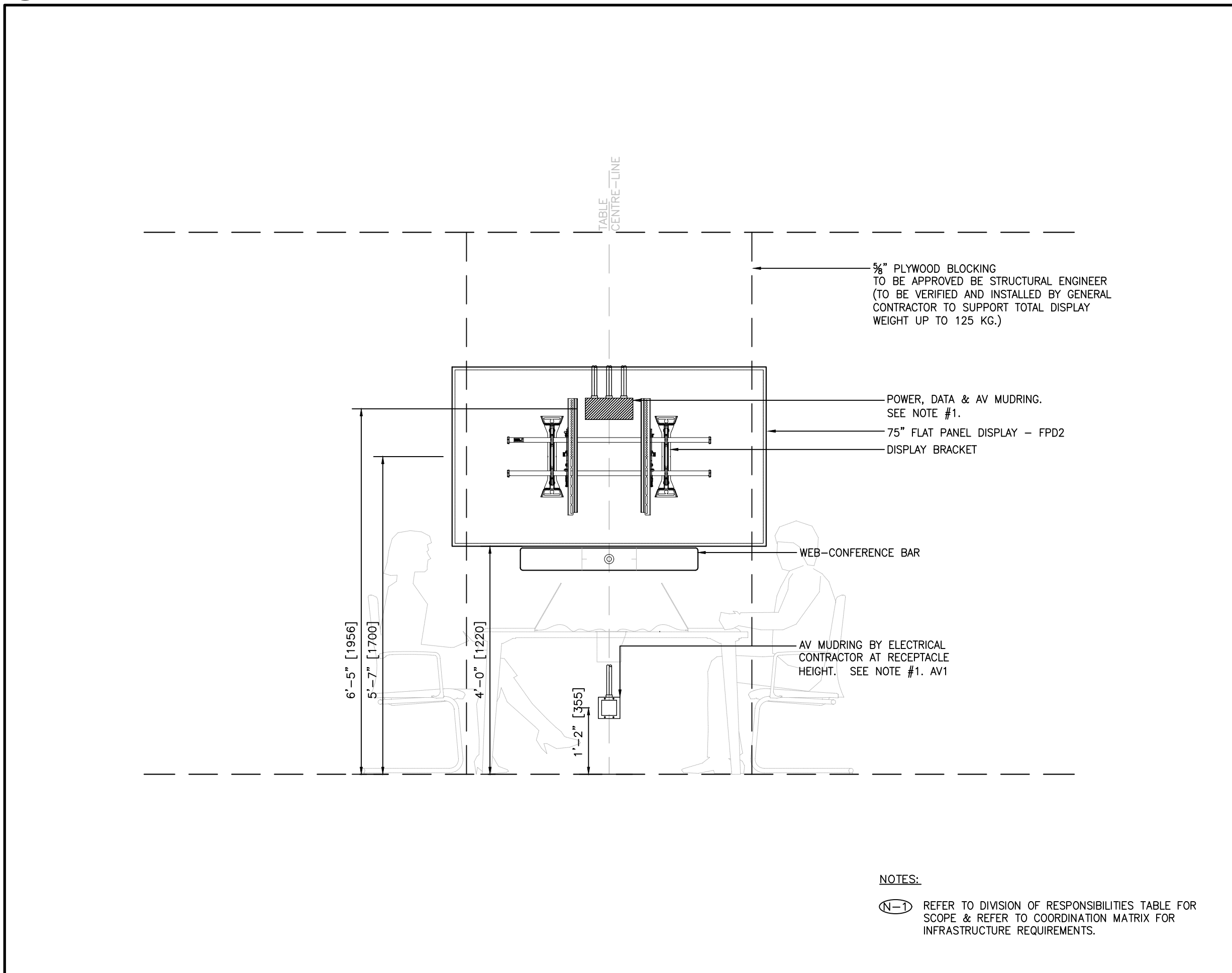
1
K030 TYPE 1A — COLLABORATION ROOM
TYPICAL AV DEVICE ELEVATION



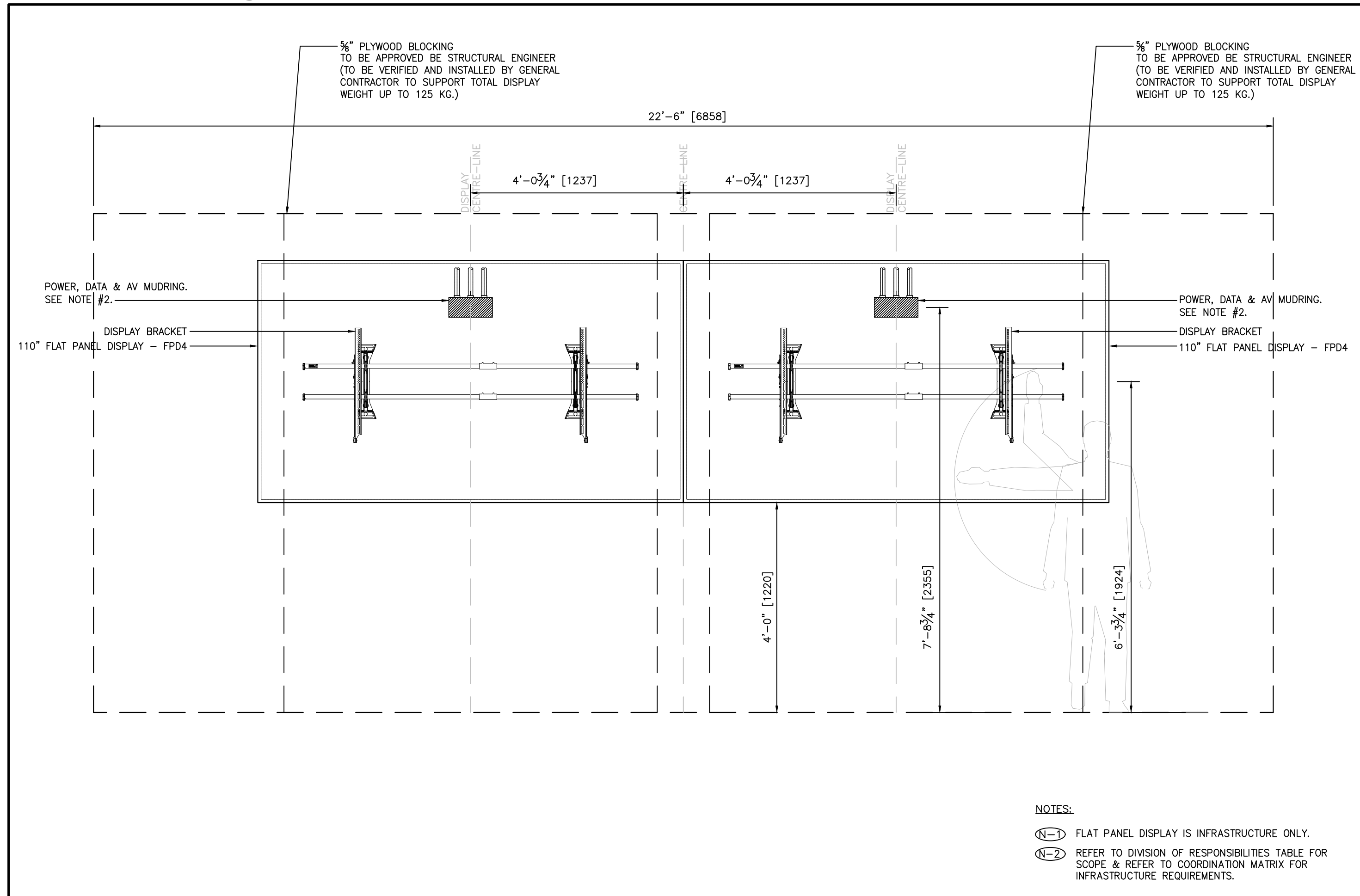
3
K030 TYPE 4 — OPEN COLLABORATION TABLES
TYPICAL AV DEVICE ELEVATION



4
K030 TYPE 5 — DIGITAL SIGNAGE
TYPICAL AV DEVICE ELEVATION



2
K030 TYPE 1B — COLLABORATION ROOM
TYPICAL AV DEVICE ELEVATION



4
K030 TYPE 2 — DIGITAL LOUNGE (110")
TYPICAL AV DEVICE ELEVATION

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No. Date Issue/Revision

Robarts 5th Floor MDL
Renovation

Title:

AV ELEVATIONS

Project: No.08086.000.MEAVD | Scale: AS NOTED
Drawing No.

AV200

AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

1. DO NOT RUN AV CONDUITS PARALLEL TO AC AND LIGHTING CONDUITS. WHERE RUNS ARE PARALLEL, ADHERE TO THE SEPARATION SHOWN BELOW:

LENGTH OF RUN PARALLEL TO HIGH VOLTAGE CONDUITS meters (feet)	MIN. SEPARATION OF AV CONDUITS FROM AC CONDUITS mm (inch)	MIN. SEPARATION OF AV CONDUITS FROM DIMMER CONDUITS mm (inch)
<= 1.8 (6)	150 (6)	228 (9)
1.8 (6) to 9.1 (30)	300 (12)	406 (16)
>= 9.1 (30)	600 (24)	812 (32)

2. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL, THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS:

AV CONDUITS

CONDUIT GROUPS

AUDIO

VIDEO AND CONTROL

SPEAKERS

ANTENNAS

HEAT SOURCES POWER

110-600V

110-600V

LIGHTING DIMMERS

110-600V

3. WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.

4. AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.

5. NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.

6. ALL DIMENSIONS ARE MINIMUM VALUES.

7. FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.

8. IF NOT PHYSICALLY POSSIBLE TO PROVIDE THE SEPARATION SPECIFIED FOR PARALLEL RUNS FOR DISTANCES OVER 75' WRAP THE EXTERIOR OF THE SIGNAL CONDUIT IN 1/32" THICK LEAD SHEET.

3

W300

AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

SCALE: NTS

Cable pathway shall not exceed 300 ft. Pathways that will exceed 300 ft must be coordinated with the Systems Designer and the AV Contractor.

4 RISER DIAGRAM DEFINITION

UNLESS NOTED ON RISER, PROVIDE THE FOLLOWING CONDUIT SIZES AND QUANTITY:

ALL BUTTON PANEL CONDUITS ARE (1) 1" [27mm]

ALL WALL PLATE CONDUITS ARE MINIMUM (1) 1.5" [41mm]

ALL SPEAKER CONDUITS ARE MINIMUM (1) 1" [27mm]

ALL ANTENNA CONDUITS ARE MINIMUM (1) 1.5" [41mm]

ALL FLOORBOX CONDUITS ARE MINIMUM (2) 1.5" [41mm]

ALL DISPLAY CONDUITS ARE MINIMUM (1) 1" [27mm]

ALL CONTROL PANELS ARE MINIMUM (1) 1" [27mm]

ALL PROJECTORS ARE MINIMUM (1) 1" [27mm]

ALL PROJECTION LIFTS ARE MINIMUM (1) 1.25" [35mm]

ALL PROJECTION SCREENS ARE MINIMUM (1) 0.75" [21mm]

5 CONDUIT SIZES

GENERAL

- SUPPLY AND INSTALL NETWORKS OF CONDUITS (INCLUDING PULLBOXES AND JUNCTION BOXES) AND BACKBOXES, READY FOR PULLING OF WIRE TO CAPTURE THE REQUIREMENTS SHOWN ON AV DRAWINGS.
- THE DESCRIPTION OF CONDUIT SYSTEMS AS SHOWN IN AV SCHEDULES AND RISERS IS SCHEMATIC ONLY AND IS INTENDED TO CONVEY THE REQUIREMENTS OF THE AV CONDUIT SYSTEM SUCH THAT THE AV SYSTEMS WILL FUNCTION CORRECTLY.

BACKBOXES

- THE TERM "BACKBOX" INCLUDES TERMINATION BOXES MOUNTED TO WALLS, CEILINGS AND IN FLOORS. ALL BACKBOXES TO BE SUPPLIED WITH UTILITY COVERS, FASTENED IN PLACE.
- THE DRAWINGS SHOW, APPROXIMATELY, WHERE BACKBOXES ARE TO BE LOCATED. FOR EXACT LOCATIONS, SEE ARCHITECTURAL DRAWINGS OR OBTAIN DIRECTION FROM THE ARCHITECT. THE LOCATIONS OF SOME PULL-BOXES AND JUNCTION BOXES ARE INDICATED FOR REFERENCE. THEIR EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD, SUBJECT TO THE REQUIREMENTS SHOWN HEREIN AND IN THE DRAWINGS.
- PROVIDE THAT THE STATED REQUIREMENTS ARE MET, THE ELECTRICAL CONTRACTOR MAY USE ITS DISCRETION TO ADJUST THE DESIGN OF THE CONDUIT NETWORK TO CONFORM TO SITE CONDITIONS AND REALIZE ECONOMIES IN MATERIALS AND/OR PHYSICAL SPACE. EXAMPLE OF SUCH CONDITIONS ARE AS FOLLOWS:
 - ROUTING OF CONDUIT FROM POINT TO POINT MAY BE CHANGED TO RUN VIA AVAILABLE BUILDING LINES AND ACCESSIBLE AREA
 - WITH SHARE GROUPS, MANY SMALLER CONDUITS MAY BE COMBINED INTO FEWER LARGER CONDUITS THAT THE STATED FILL RATIO IS OBSERVED AND NET CAPACITY IS NOT REDUCED.

NOMENCLATURE

- CONSULT AV DRAWINGS FOR DETAILS OF BACKBOX INSTALLATION REQUIREMENTS (SIZE, MOUNTING HEIGHT, ETC.).
- EACH BACKBOX IS IDENTIFIED BY SYSTEM CODE ACCORDING TO THE AV SYSTEM(S) CABLES THAT WILL BE TERMINATED THERE.

SIZE

- UNLESS NOTED OTHERWISE, SIZE CONDUIT ACCORDING TO REQUIREMENTS OF WIRES TO BE CONTAINED THEREIN. THE QUANTITY AND TYPES OF CABLES SHALL BE PROVIDED BY THE AV CONTRACTOR.
- THE FILL RATIO SHALL NOT EXCEED 40%.

MATERIALS

- ALL BACKBOXES TO BE MANUFACTURED OF STEEL.
- ALL BACKBOXES TO BE 75MM (3") DEEP OR GREATER, EXCEPT CEILING LOUDSPEAKER BACKBOXES, WHICH ARE SPECIFIED SEPARATELY.
- ALL SUSPENDED BACKBOXES SHALL INCLUDE AT LEAST ONE REDUNDANT CHAIN TO BE FASTENED TO THE CEILING SLAB OR OTHER STRUCTURAL MEMBER FOR SEISMIC AND FIRE SAFETY PURPOSES. TENSION WAVING OF CHAIN AND FASTENERS TO MEET CODE REQUIREMENTS.
- WHERE NOTED ON DRAWINGS, USE RIGID CONDUIT UP TO 2400MM (8'-0") ABOVE FINISHED FLOOR WHERE EXPOSED INDOORS AND SUBJECT TO DAMAGE. USE EPOXY COATED RIGID CONDUIT WHERE EXPOSED IN CORROSIVE AREAS INDOORS.
- UNLESS NOTED OTHERWISE, PVC CONDUIT, BUSHINGS AND CONNECTIONS ARE NOT ACCEPTABLE.
- ALL EXPOSED SURFACE-MOUNTED RIGID BACKBOXES (i.e. MOUNTED TO EXPOSED CONCRETE COLUMNS OR WALLS) SHALL BE SIMILAR TO WIREMOLD V5744-SERIES, ALLOWING FOR ALL COVER PLATES TO NOT OVERHANG BACKBOX. STANDARD METAL ELECTRICAL BACKBOXES ARE NOT ACCEPTABLE.

INSTALLATION

- COORDINATE BACKBOX LOCATIONS AS REQUIRED WITH ELECTRICAL POWER RECEPTABLES AND LIGHT SWITCHES TO PRESENT A UNIFORM APPEARANCE TO THE SATISFACTION OF THE ARCHITECT.
- MOUNT SURFACE OR RECESSED ACCORDING TO LOCAL FINISH REQUIREMENTS, AT THE DISCRETION OF THE ARCHITECT.
- MARK BACKBOXES IN THE FIELD CONSISTENT WITH THE DRAWINGS FOR IDENTIFICATION PURPOSES. USE PERMANENT MARKER TO MARK ID AND SYSTEM CODE ON THE FACING SURFACE OF THE BACKBOX.
- COORDINATE CEILING BACKBOXES WITH OTHER SERVICES IN CEILING SUCH THAT BACKBOXES ARE CLEAR OF INTERFERENCES AND DIRECTLY ACCESSIBLE FROM BELOW.
- IN OPEN CEILINGS, WHERE CHAIN OR STRUT IS THE PRIMARY HANGING SUPPORT, ENSURE THAT LOUDSPEAKER ARE SUSPENDED PLUMB AND LEVEL AT CONSISTENT HEIGHT ABOVE FINISHED FLOOR.
- WHERE LOUDSPEAKER BACKBOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULLSTRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE INSTALLATION OF WALL FINISHES AND OTHER PERMANENT BUILDING FEATURES.

CONDUIT ORGANIZATION

- UNLESS NOTED OTHERWISE, PROVIDE A SEPARATE NETWORK CONNECTING ALL BACKBOXES OF EACH SYSTEM, AS IDENTIFIED ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE, PROVIDE CONDUIT TO JOIN EVERY BACKBOX TO THE NETWORK(S), WHETHER OR NOT THE CONDUIT IS SPECIFICALLY DESCRIBED HEREIN.

BONDING

- ALL CONDUIT, PULL BOXES AND JUNCTION BOXES TO BE CONTINUOUSLY GROUNDED BY MEANS OF BONDING STRAPS LINKING EACH ELEMENT.
- LOW VOLTAGE CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY ISOLATED FROM SOUND SYSTEM EQUIPMENT RACKS AT RACKS. USE ISOLATED CONNECTION, SUCH AS PVC BUSHING, SUCH THAT CONDUIT REMAINS ISOLATED FROM THE RACK. CONNECT LOW VOLTAGE CONDUITS WITH HEAVY INSULATED GROUND WIRE TO THE NEAREST GROUND OF A UTILITY PANEL.

PROXIMITIES AND ROUTING

- AV CONDUITS AND AC CONDUITS RUN IN PARALLEL SHOULD BE SEPARATED BY A DISTANCE OF 24" FOR RUNS LESS THAN 75'. FOR PARALLEL RUNS GREATER THAN 75' DOUBLE ALL VALUES.
- DO NOT RUN WIRES, RACEWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSIBLES, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH RADATES EM.
- CROSS CONDUITS OF POWER SYSTEMS AT 90 DEGREES.
- UNUSUALLY HEAVY CURRENT DEMANDS IN ADJACENT CONDUIT OR LONG PARALLEL RUNS MAY DICTATE GREATER SEPARATION TO AVOID INTERFERENCE IN THE SOUND AND VIDEO. IDENTIFY SUCH INSTANCES ON SITE AND CONSULT WITH ELECTRICAL CONSULTANT FOR RESOLUTION PRIOR TO INSTALLATION OF CONDUITS.
- WHERE CONDUIT CROSSES ACUSTICAL JOINTS, PROVIDE ISOLATION METHODS AS SHOWN IN ARCHITECTURAL DETAIL.
- WHERE CONDUIT EXPANSION FITTINGS TO BE PROVIDED WHEN CROSSING BUILDING EXPANSION JOINTS, CROSSING TO BE DONE AT 90 DEGREES TO JOINT.
- ALL WALL-MOUNTED PAGING LOUDSPEAKER AND ATTENUATOR BACKBOXES ARE TO BE SERVED BY CONDUIT ROUTED INTO CEILING SPACE ABOVE.

INSTALLATION

- BEND RADIUS OF CONDUIT MUST BE NO LESS THAN 10 (TEN) TIMES THE CONDUIT DIAMETER. BEND CONDUIT WITHOUT HEATING, REPLACE CONDUIT IF CHINCKED OR FLATTENED MORE THAN 1/10 OF THE ORIGINAL DIAMETER.
- MINIMUM DISTANCE BETWEEN TWO PULL BOXES TO INCLUDE A MAXIMUM OF 2 (TWO) 90 DEGREES BENDS OR EQUIVALENT UP TO 180 DEGREES, OR 30M (100') OF CONDUIT, WHICHEVER IS LESS.
- MARK ALL CONDUITS IN THE FIELD FOR IDENTIFICATION PURPOSES. FOR RISERS, SHOW SHARE GROUP LETTER AT EVERY JUNCTION BOX. FOR HORIZONTAL RUNS, SHOW DEVICE LOCATION ID AND SHARE GROUP LETTER AT EVERY JUNCTION BOX.

PULL STRINGS

- FISH PULL-STRINGS THROUGH ALL NETWORKS. AT EACH END OF EACH PULL-STRING, LABEL STRING WITH ID OF OTHER END. SECURE BOTH ENDS OF STRING TO CONDUIT OUTSIDE BACKBOX TO PREVENT IT FROM RE-ENTERING CONDUIT.
- WHERE LOUDSPEAKER BACK BOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULL STRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- FASTEN UTILITY COVERS TO ALL BACKBOXES.

1 AV CONDUIT AND BACKBOX NETWORK

CONDUIT SIZES	
IMPERIAL	METRIC
1/2"	16MM
3/4"	21MM
1"	27MM
1-1/4"	35MM
1-1/2"	41MM
2"	53MM
2-1/2"	65MM
3"	78MM
4"	103MM

2 CONDUIT SIZES

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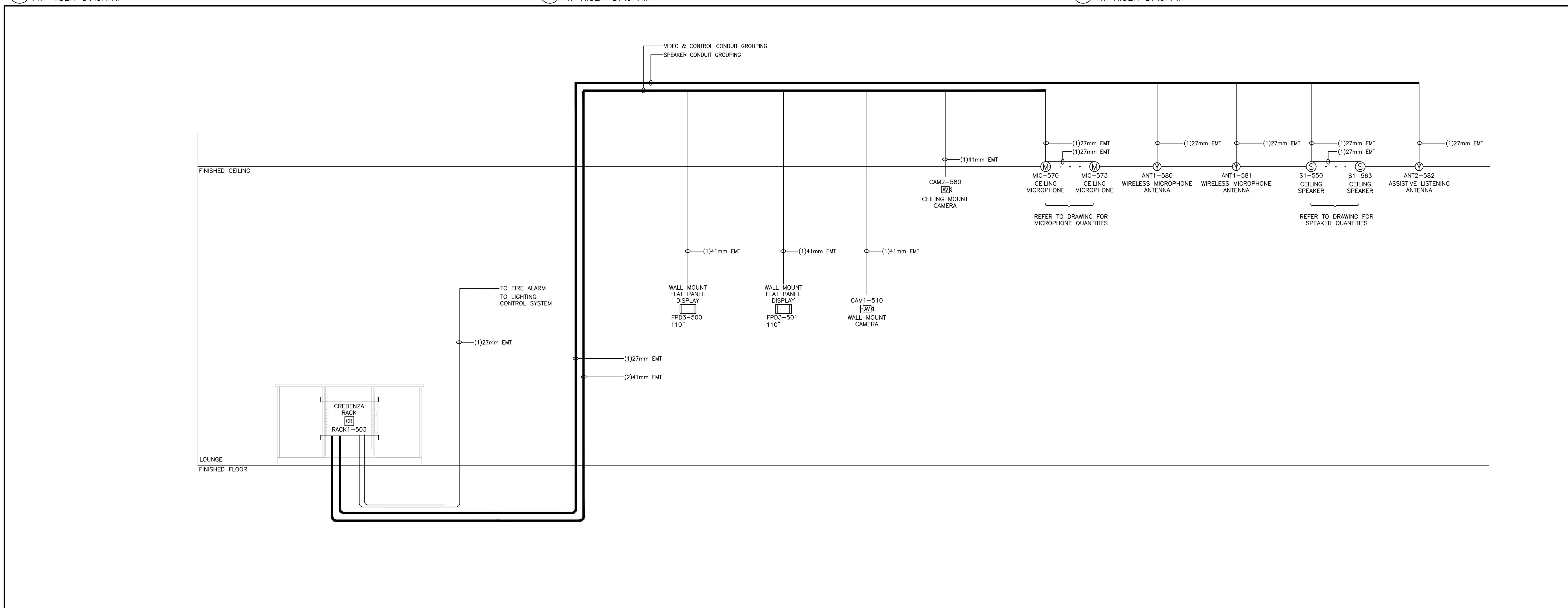
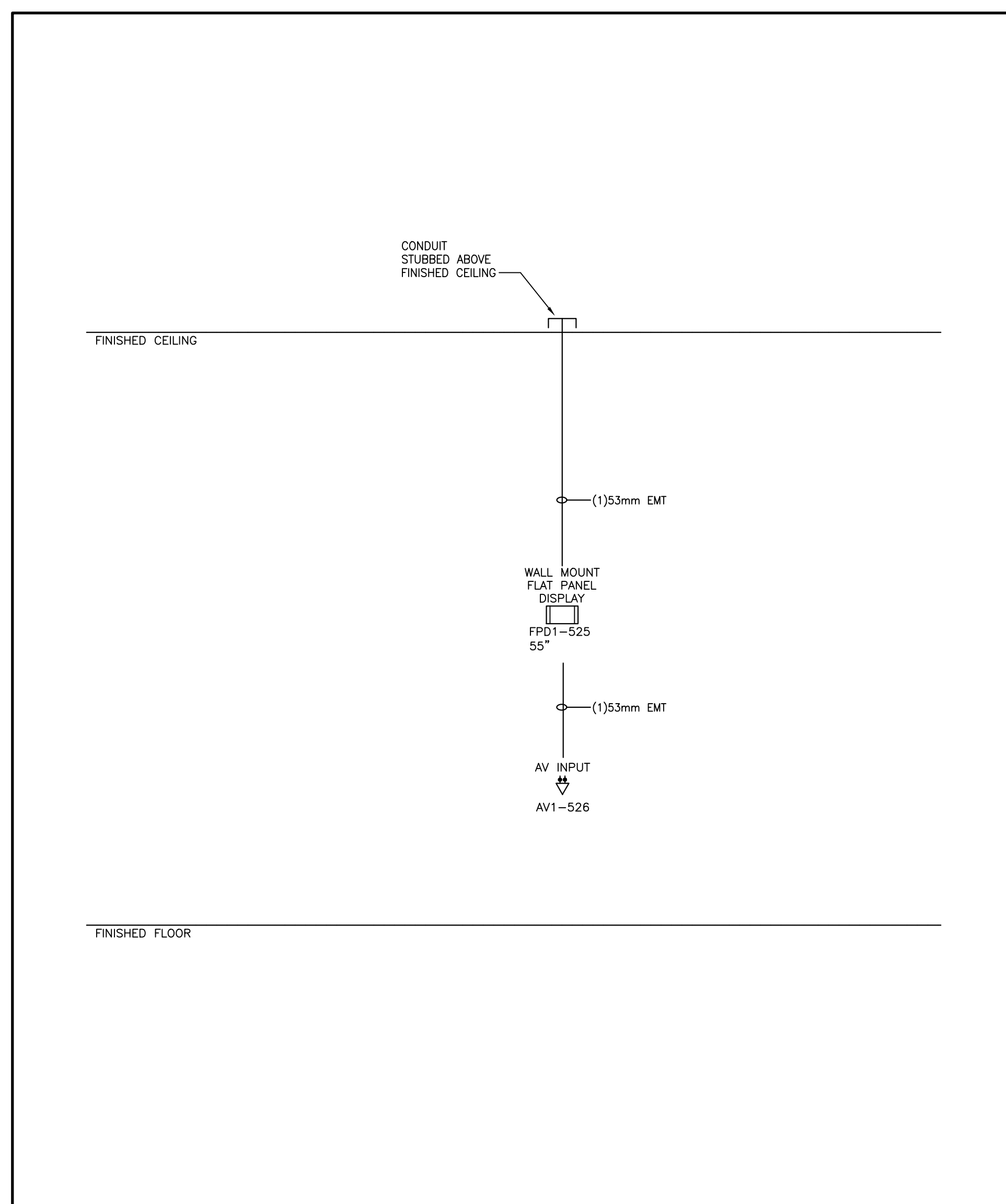
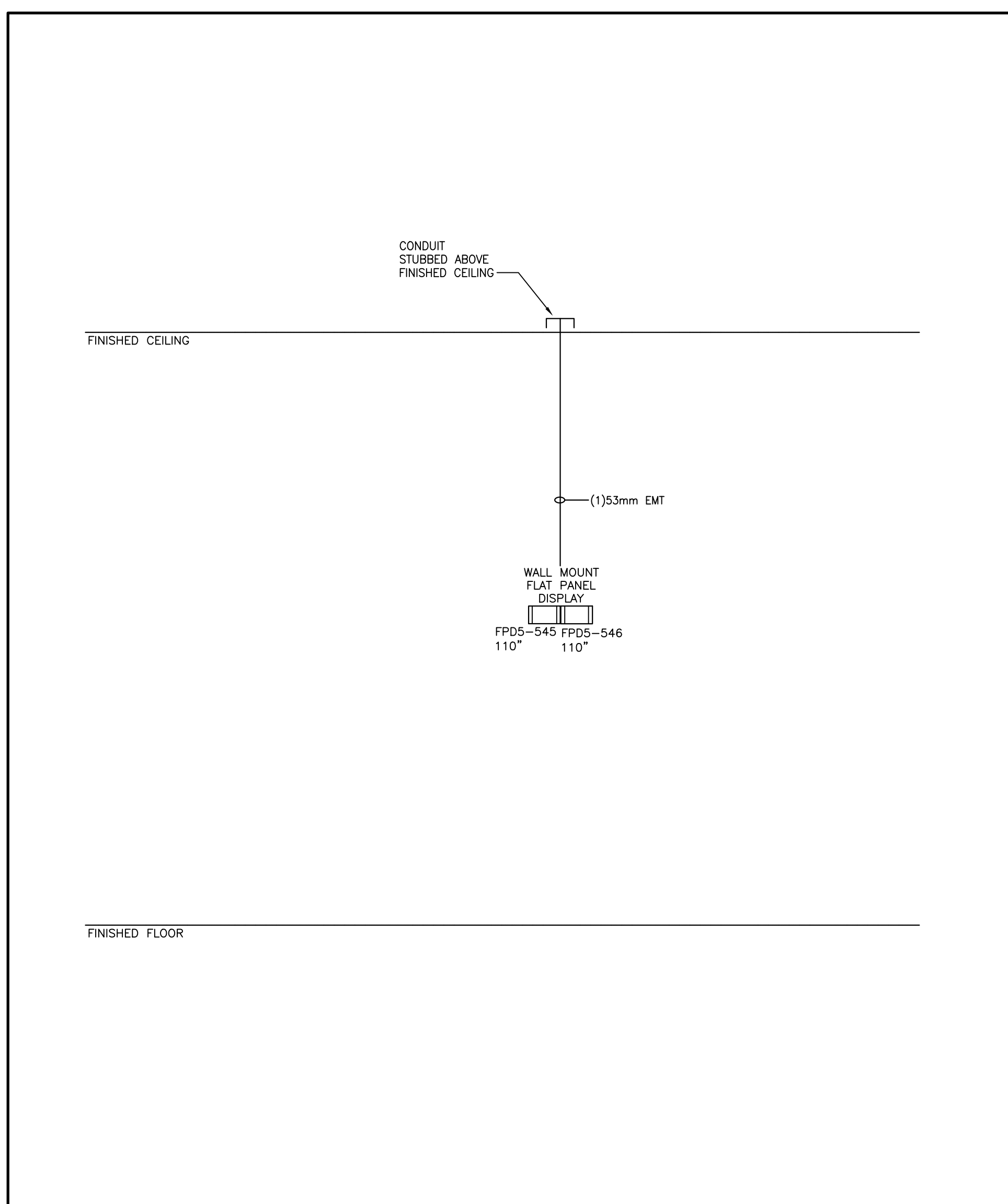
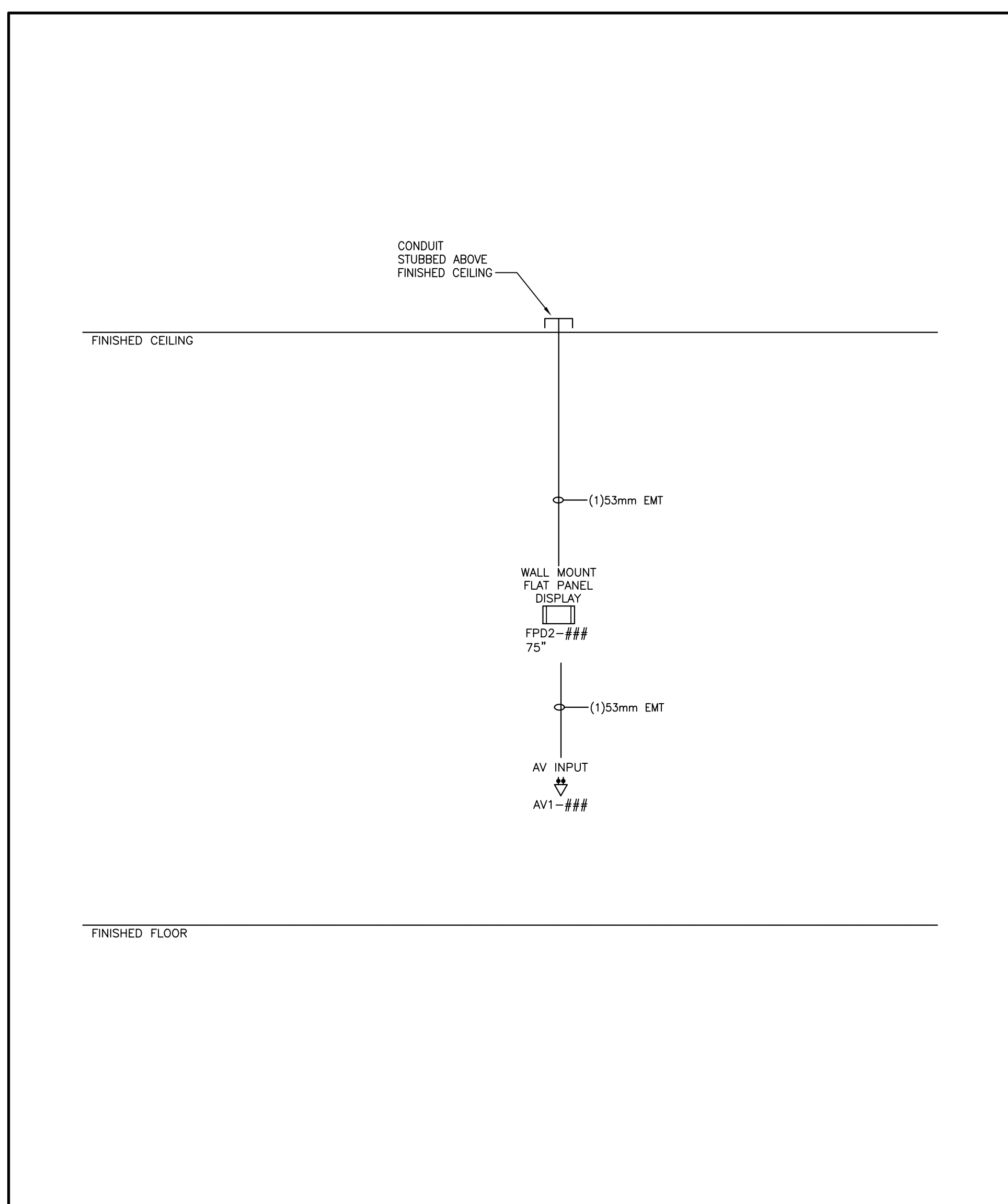
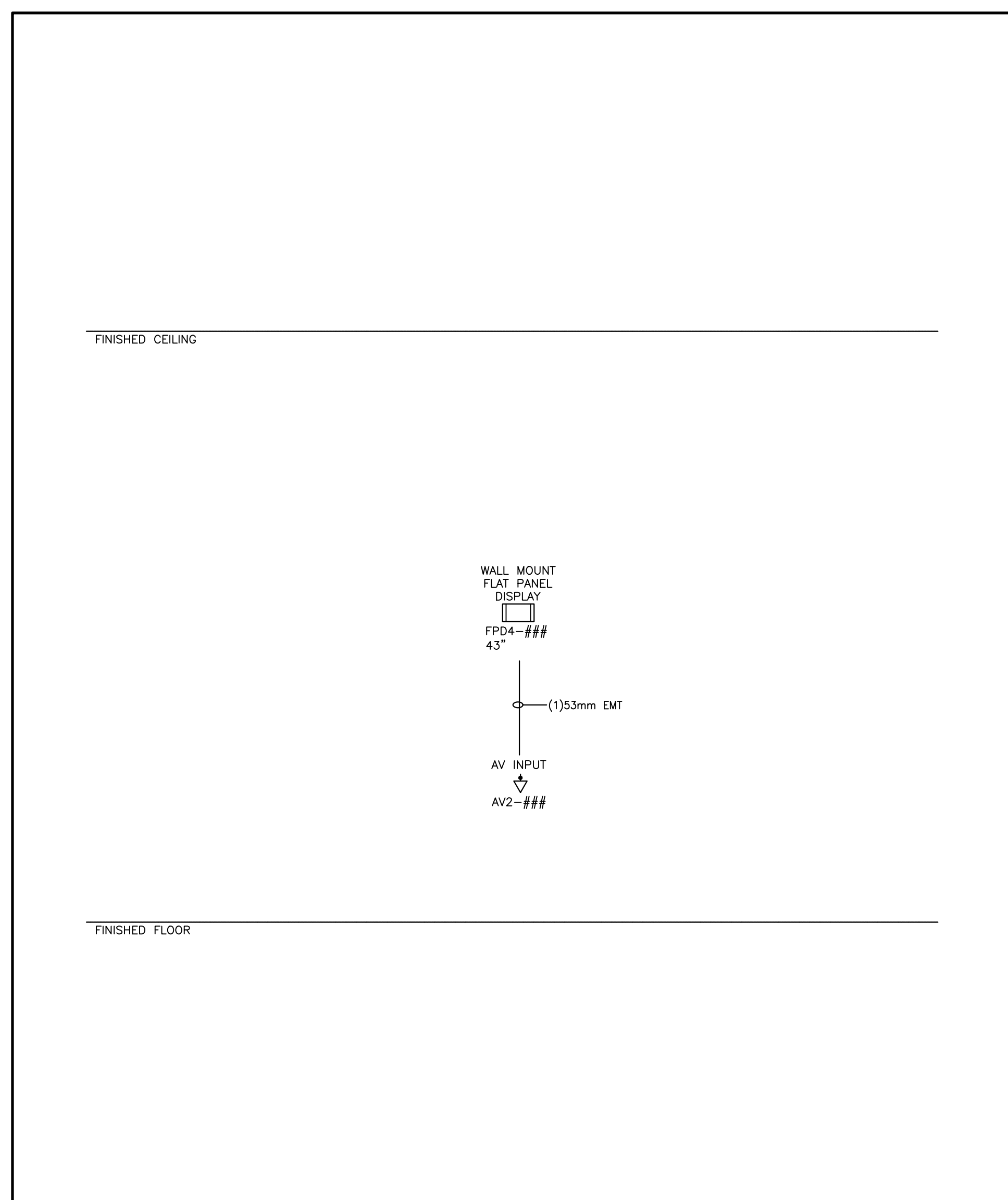
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AV CONDUIT NOTES

Project: No.08086.000.MEAVD Scale: AS NOTED

Drawing No.

AV300



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No.	Date	Issue/Revision


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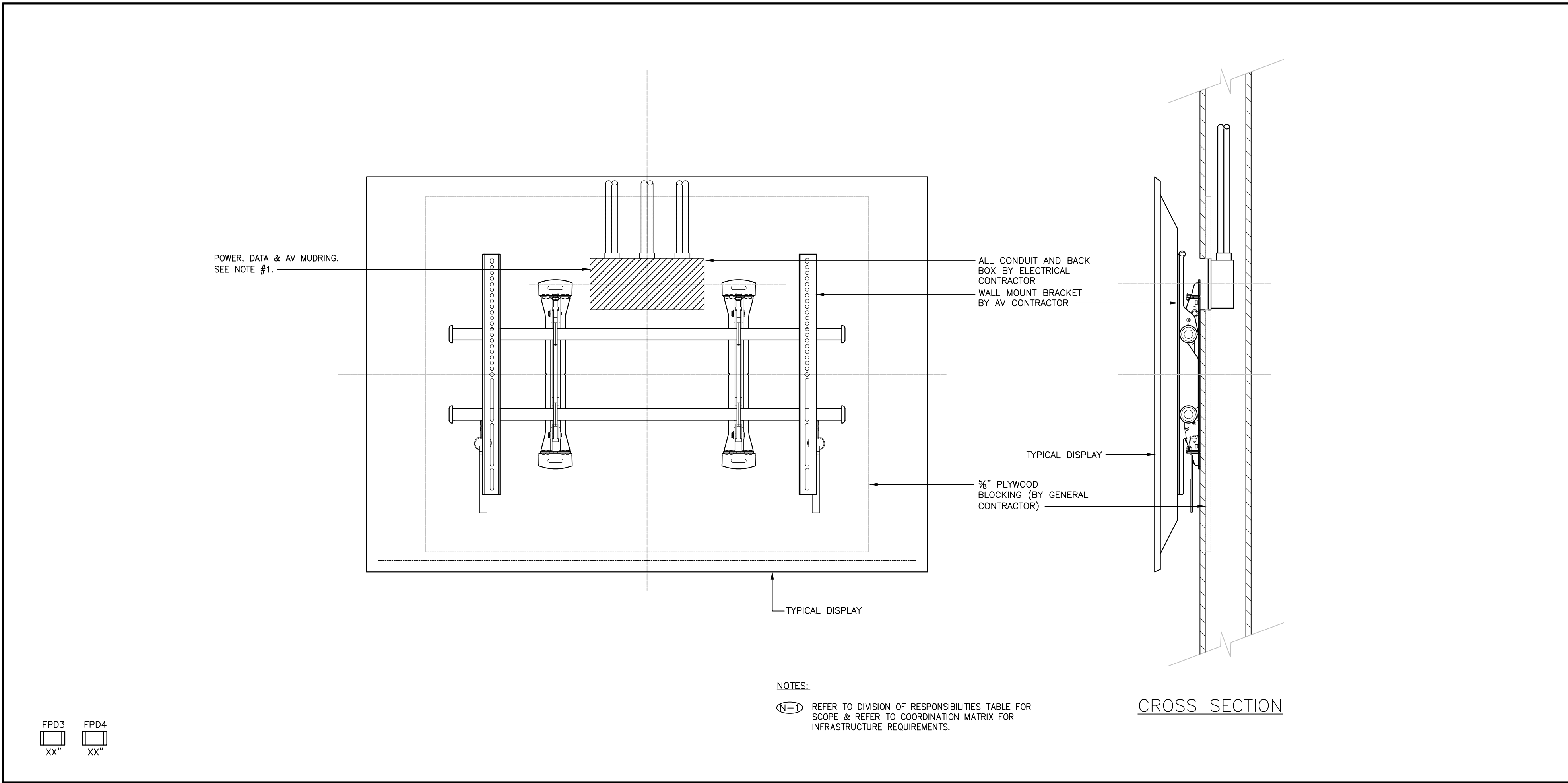
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Renovation

Title:

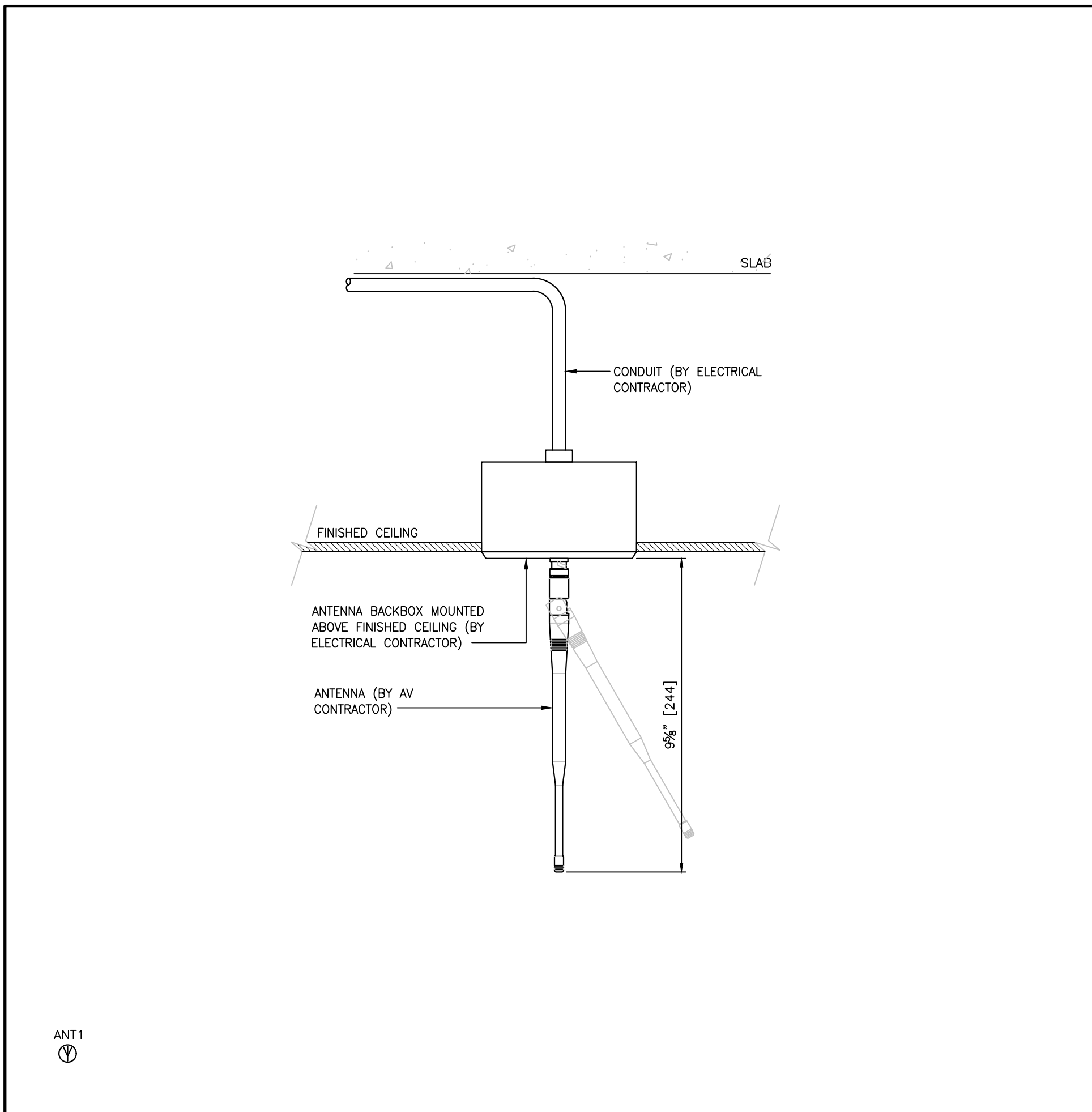
AV RISER DIAGRAMS

Project No.08086.009.MEAVD	Scale AS NOTED
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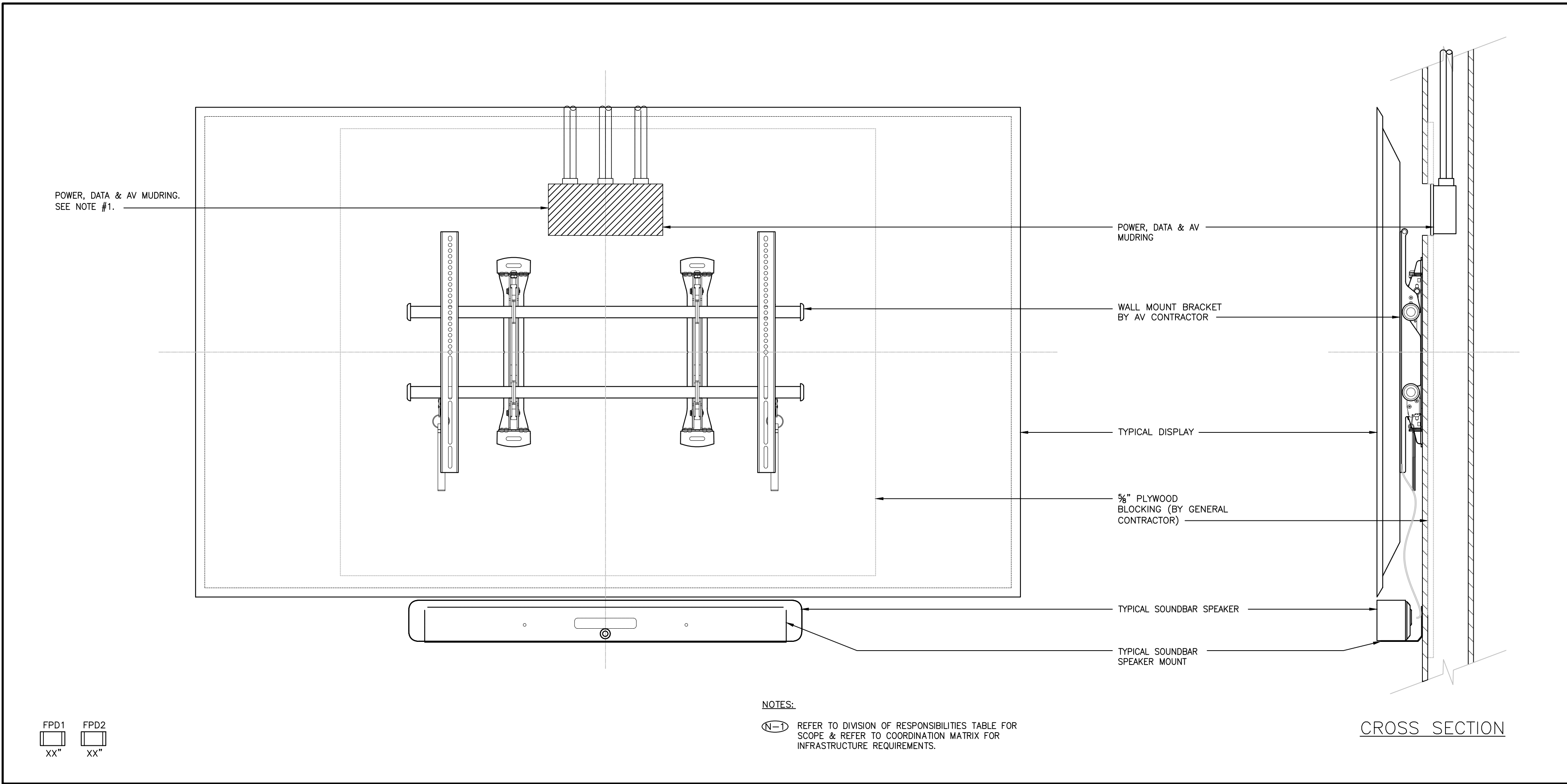
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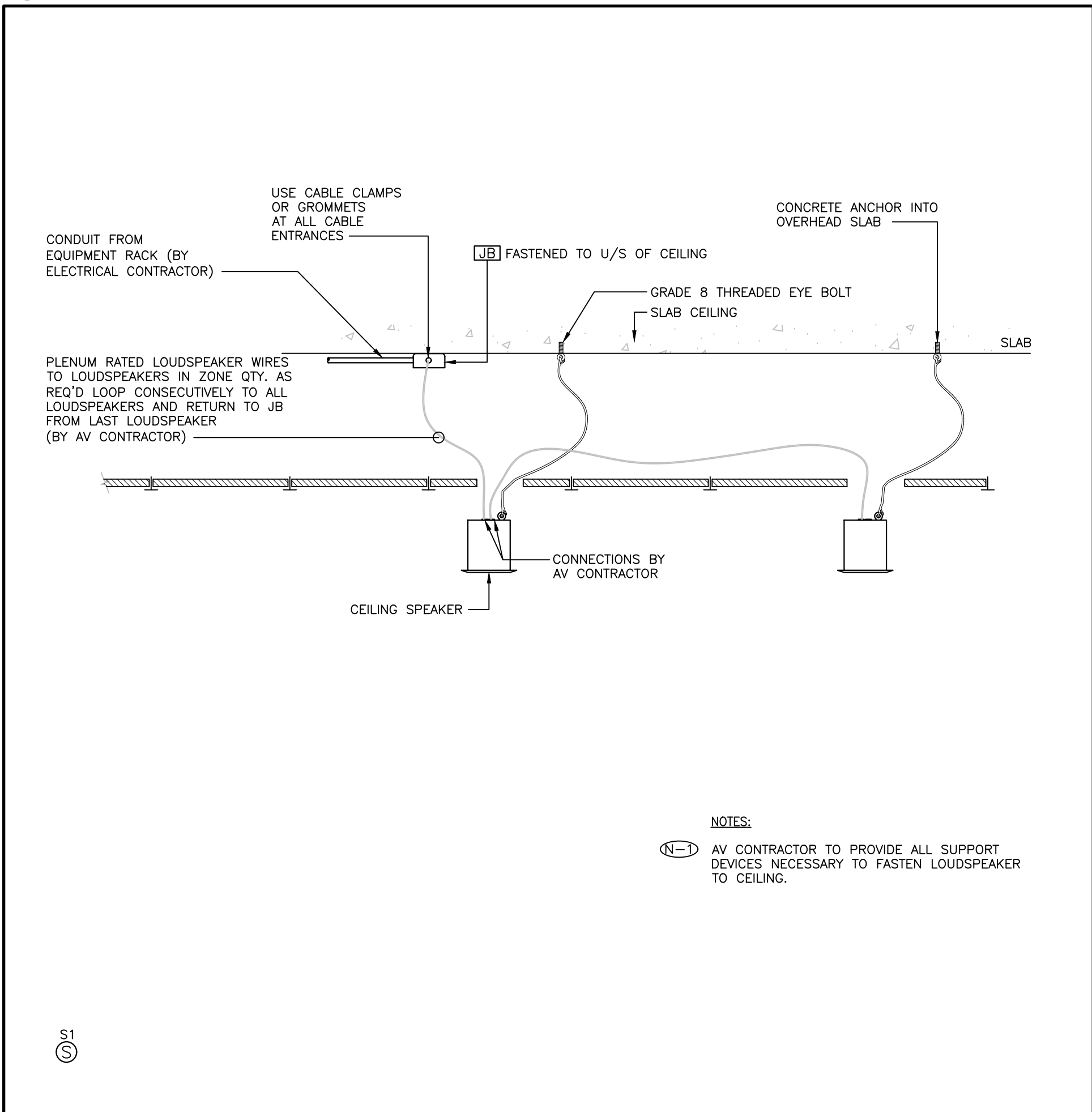
4 WALL MOUNT FLAT PANEL DISPLAY
SCALE: NTS



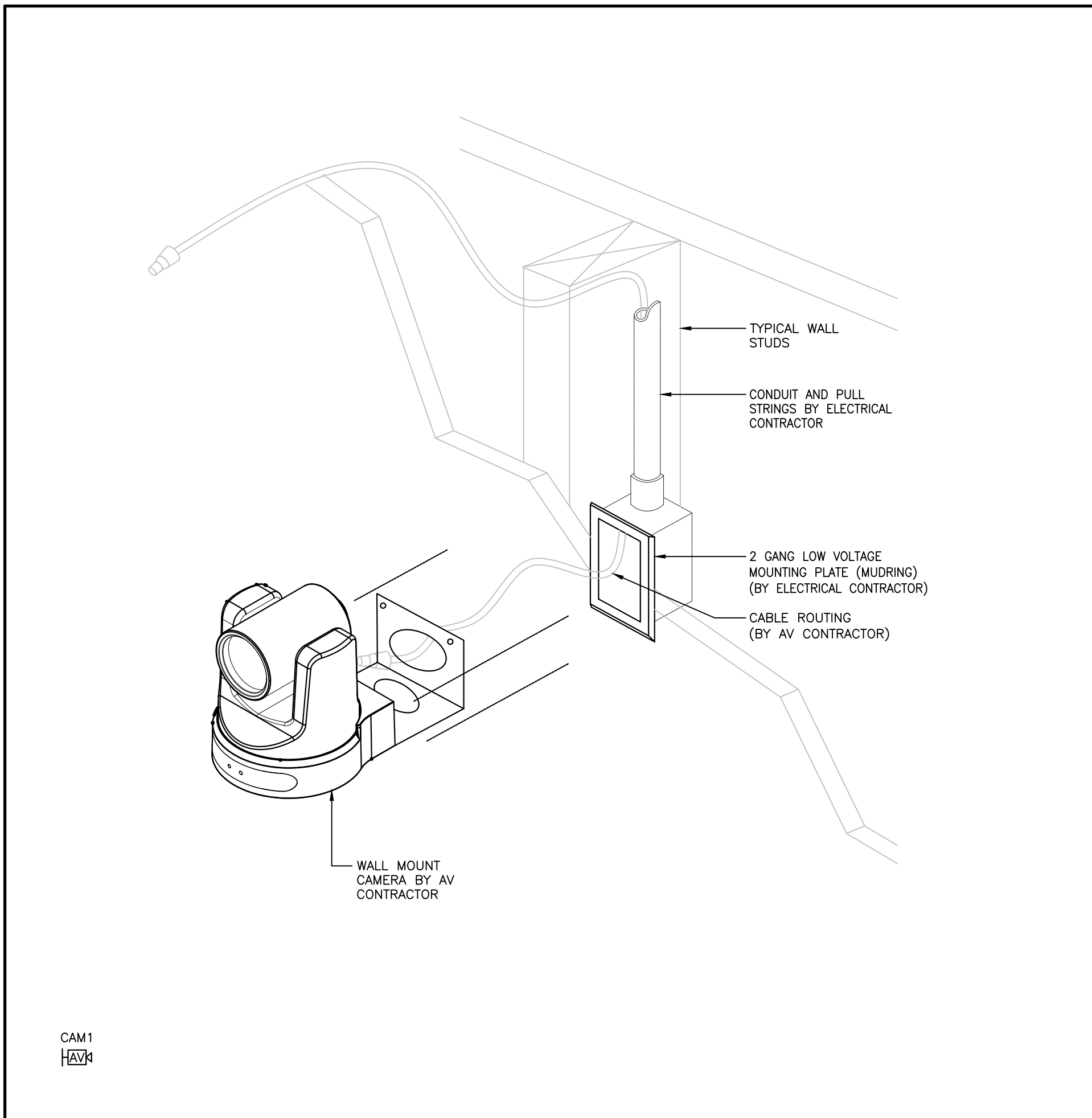
5 TYPICAL WIRELESS MICROPHONE ANTENNA
SCALE: NTS



6 WALL MOUNT DISPLAY W/ SOUND BAR
SCALE: NTS



7 TYPICAL CEILING SPEAKER INSTALLATION INTO TILE
SCALE: NTS



8 WALL MOUNT CAMERA
SCALE: NTS

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AV DETAILS

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