

AIR DISTRIBUTION

MARK	TYPE	MAKE & MODEL	REMARKS
CD-1	CEILING DIFFUSER	TITUS MCD	① ⑧
CD-2	CEILING DIFFUSER	TITUS MCD	② ⑨
HSS-1	HIGH SIDEWALL SUPPLY	TITUS S300FS	⑥
HSS-2	HIGH SIDEWALL SUPPLY	TITUS S300FS	① ⑩
LSL-1	LINEAR SLOT DIFFUSER	TITUS MLR-39	④
RG-1	RETURN GRILLE	TITUS 8R	① ⑧
RG-2	RETURN GRILLE	TITUS 8R	② ⑦
HSR-1	HIGH SIDEWALL RETURN	TITUS SF8	⑥
HSR-2	HIGH SIDEWALL RETURN	TITUS S300RL	① ⑩
LSR-1	LINEAR SLOT RETURN	TITUS MLR-39	⑤
EG-1	EXHAUST GRILLE	TITUS 8R	① ⑧
HSE-1	HIGH SIDEWALL EXHAUST	TITUS SF8	⑥
HSE-2	HIGH SIDEWALL EXHAUST	TITUS S300RL	① ⑪
HSE-3	HIGH SIDEWALL EXHAUST	TITUS S300RL	① ⑩
TG-1	TRANSFER GRILLE	TITUS 8R	① ⑧
TG-2	TRANSFER GRILLE	TITUS MCD	① ⑧
TG-3	TRANSFER GRILLE	TITUS S300RL	① ⑩
TG-4	TRANSFER GRILLE	TITUS SF8	⑥
TG-5	TRANSFER GRILLE	TITUS 8R	② ⑨
TG-6	TRANSFER GRILLE	TITUS MCD	② ⑨
TG-7	TRANSFER GRILLE	TITUS S300RL	① ⑩
DL-1	DOOR LOUVER	TITUS T-700L	③

- ① WITH BORDER TYPE 1 SURFACE MOUNT.
- ② WITH BORDER TYPE 3 LAY-IN.
- ③ WITH BORDER TYPE 1 SURFACE MOUNT AND AUXILIARY FRAME.
- ④ WITH TWO (2) 1" SLOTS AND BORDER TYPE 22.
- ⑤ WITH FOUR (4) 1" SLOTS AND BORDER TYPE 22.
- ⑥ FOR MOUNTING, SEE 3/M6.1.
- ⑦ FOR MOUNTING, SEE 6/M6.1.
- ⑧ FOR MOUNTING, SEE 15/M6.1.
- ⑨ FOR MOUNTING, SEE 13/M6.1.
- ⑩ FOR MOUNTING, SEE 16/M6.1.
- ⑪ FOR MOUNTING, SEE 13/M6.1.

SOUND ATTENUATORS

MARK	UNIT SERVED	SUPPLY RETURN EXHAUST	UNIT DIMENSIONS W" x H" x L"	CFM	VELOCITY	PD	DYNAMIC INSERTION LOSS OCTAVE BAND & HERTZ								MAKE & MODEL	REMARKS
							1	2	3	4	5	6	7	8		
SA-1	HP-1	SUPPLY	22" x 18" x 60"	1605	583 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-2	HP-1	RETURN	16" x 24" x 60"	1605	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-3	HP-2	SUPPLY	22" x 18" x 60"	1605	583 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-4	HP-2	RETURN	16" x 24" x 60"	1605	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-5	HP-3	SUPPLY	22" x 18" x 60"	1605	583 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-6	HP-3	RETURN	16" x 24" x 60"	1605	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-7	HP-4	SUPPLY	22" x 18" x 60"	1605	583 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-8	HP-4	RETURN	16" x 24" x 60"	1605	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-9	HP-7	SUPPLY	24" x 24" x 60"	4000	1000 FPM	0.09"	5	11	19	31	34	26	18	17	RUSKIN MLF-60	①
SA-10	HP-7	RETURN	24" x 24" x 60"	4000	1000 FPM	0.09"	5	11	19	31	34	26	18	17	RUSKIN MLF-60	①
SA-11	HP-10	SUPPLY	24" x 20" x 60"	1990	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-12	HP-10	RETURN	16" x 30" x 60"	1990	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-13	HP-11	SUPPLY	24" x 20" x 60"	1990	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-14	HP-11	RETURN	16" x 30" x 60"	1990	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-15	HP-12	SUPPLY	32" x 18" x 60"	2400	600 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-16	HP-12	RETURN	16" x 30" x 60"	2000	606 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-17	HP-14	SUPPLY	24" x 20" x 60"	1590	611 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-18	HP-14	RETURN	16" x 24" x 60"	1990	603 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-19	HP-15	SUPPLY	36" x 22" x 60"	3400	618 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-20	HP-15	RETURN	20" x 38" x 60"	3400	653 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-21	EF-5	EXHAUST	18" x 18" x 60"	1410	622 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-22	EF-6	EXHAUST	18" x 18" x 60"	1410	622 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②
SA-23	EF-7	EXHAUST	18" x 18" x 60"	1410	622 FPM	0.09"	5	14	21	31	32	28	25	21	RUSKIN ELBSPS	① ②

- ① DYNAMIC INSERTION LOSS AT 1000 FPM FORWARD FLOW FACE VELOCITY.
- ② CONFIGURATION: 2'-6" UP, 2'-6" DOWN.

HEAT PUMPS

MARK	COOL MBH TC	HEAT MBH SC	TH	CFM			FAN RPM	MOTOR BHP	V/PH	FLA	MCA	MOCP	WT LBS	EER	SEER	MAKE & MODEL	REMARKS
				TOTAL	ESP	OA											
HP-1	48.23	36.94	45.6	1605	0.5"	375	1901	0.74	460/3	12	13	20	1050	16.2	CARRIER 50GCM05A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-2	48.23	36.94	45.6	1605	0.5"	415	1901	0.74	460/3	12	13	20	1050	16.2	CARRIER 50GCM05A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-3	48.23	36.94	45.6	1605	0.5"	375	1901	0.74	460/3	12	13	20	1050	16.2	CARRIER 50GCM05A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-4	48.23	36.94	45.6	1605	0.5"	415	1901	0.74	460/3	12	13	20	1050	16.2	CARRIER 50GCM05A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-5	48.23	36.94	45.6	1600	0.5"	490	1901	0.74	460/3	12	13	20	1050	16.2	CARRIER 50GCM05A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-6	123.51	93.78	116.1	4000	0.5"	455 1245	722	1.95	460/3	48	49	50	2325	12.3	CARRIER 50HCQD12A2M6-2A4G0	① ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮	
HP-7	123.51	93.78	116.1	4000	0.5"	655 900	722	1.95	460/3	48	49	50	2325	12.3	CARRIER 50HCQD12A2M6-2A4G0	① ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮	
HP-8	35.89	27.31	34.3	1200	0.5"	230	1946	0.54	460/3	9	10	15	950	16.2	CARRIER 50GCM04A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-9	35.89	27.31	34.3	1200	0.5"	100	1946	0.54	460/3	9	10	15	950	16.2	CARRIER 50GCM04A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-10	49.81	42.26	47.20	1990	0.5"	700	2079	0.96	460/3	12	13	20	1050	16.2	CARRIER 50GCM06A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-11	49.81	42.26	47.20	1990	0.5"	570	2079	0.96	460/3	12	13	20	1050	16.2	CARRIER 50GCM06A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-12	73.01	56.37	68.9	2400	0.5"	575	804	1.61	460/3	26	27	30	1400	12.0	CARRIER 50HCQD07A2M6-2A4G0	① ③ ⑥ ⑦ ⑧ ⑨ ⑩ ⑭ ⑮	
HP-13	92.10	69.40	85.4	3000	0.5"	700	801	1.30	460/3	39	40	40	1650	12.2	CARRIER 50HCQD08A2M6-2A4G0	① ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑭ ⑮	
HP-14	49.81	42.26	47.20	1980	0.5"	570	2079	0.96	460/3	12	13	20	1050	16.2	CARRIER 50GCM06A2M6-2U4A0	① ② ③ ④ ⑩ ⑭	
HP-15	101.20	77.70	97.10	3400	0.5"	545 845	845	1.65	460/3	42	43	45	1750	12.9	CARRIER 50HCQD09A2M6-2A4G0	① ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑭ ⑮	

- ① WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
- ② WITH MEDIUM STATIC DRIVE, LOUVERED HALL GUARDS, TRU OPEN CONTROLLER, HINGED PANELS, UNPOWERED CONVENIENCE OUTLET, AND CRHEATER333A00 ELECTRIC HEATER.
- ③ WITH MICROMETL CRBV-SRT12GA-11 CURB.
- ④ WITH CARRIER TEMPERATURE ULTRA LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF.
- ⑤ WITH MEDIUM STATIC DRIVE, LOUVERED HALL GUARDS, TRU OPEN CONTROLLER, HINGED PANELS, 2-SPEED VFD CONTROLLER, CRHEATER16000 ELECTRIC HEATER, AND CRHSINGLE47A00 SINGLE POINT KIT.
- ⑥ WITH MICROMETL CRBV-SRT34GA-11 CURB.
- ⑦ WITH MICROMETL ECD-SRT34CA-00DB-4 ECONOMIZER.
- ⑧ WITH MEDIUM STATIC DRIVE, LOUVERED HALL GUARDS, TRU OPEN CONTROLLER, HINGED PANELS, 2-SPEED VFD CONTROLLER, CRHEATER265A00 ELECTRIC HEATER, AND CRHSINGLE42A00 SINGLE POINT KIT.
- ⑨ WITH DUCT MOUNTED SMOKE DETECTOR IN MAIN SUPPLY DUCT PER CMR 608. DETECTORS PROVIDED BY, WIRED TO FIRE ALARM, AND FOR POWER BY ELECTRICAL CONTRACTOR. DETECTORS INSTALLED BY AND CONNECTED TO UNIT CONTROLLER BY MECHANICAL CONTRACTOR.
- ⑩ WITH MICROMETL CRBV-SRT05GA-11 CURB.
- ⑪ WITH MEDIUM STATIC DRIVE, LOUVERED HALL GUARDS, TRU OPEN CONTROLLER, HINGED PANELS, 2-SPEED VFD CONTROLLER, CRHEATER292A00 ELECTRIC HEATER, AND CRHSINGLE47A00 SINGLE POINT KIT.
- ⑫ WITH MICROMETL CRBV-SRT05CA-00DB-4 ECONOMIZER.
- ⑬ WITH MICROMETL ECD-SRT05CA-00DB-4 ECONOMIZER.
- ⑭ FOR MOUNTING, SEE 4/M6.1.
- ⑮ WITH CARRIER STAGED AIR VOLUME SYSTEM.

ROOF HOODS

MARK	CFM	THROAT AREA SF	THROAT VELOCITY	THROAT SIZE	HOOD SIZE	CURB CAP SIZE	WT LBS	MAKE & MODEL	REMARKS
RH-1	-	0.82	- FPM	12"Ø	29"Ø	22" x 22"	35	GREENHECK GRSR-12	① ②
RH-2	-	0.82	- FPM	12"Ø	29"Ø	22" x 22"	35	GREENHECK GRSR-12	① ②

- ① WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
- ② WITH CURB SEAL AND GREENHECK GPI-22-G14

SPLIT SYSTEM AIR CONDITIONERS

MARK	COOL MBH	HEAT MBH	CFM	ESP	ELECTRICAL			WT LBS	EER	SEER	LINE SIZE		MAKE & MODEL	REMARKS
					V/PH	MCA	MOCP				GAS	LIQ		
CU-1	18	-	-	-	208/1	16	25	100	21.5	1/2"	1/4"	-	CARRIER 38MARBQ18AA3	③
FC-1	18	-	380	-	①	①	①	30	-	1/2"	1/4"	-	CARRIER 40MAHBQ18XA3	② ④
CU-2	18	-	-	-	208/1	16	25	100	21.5	1/2"	1/4"	-	CARRIER 38MARBQ18AA3	③
FC-2	18	-	380	-	①	①	①	30	-	1/2"	1/4"	-	CARRIER 40MAHBQ18XA3	② ④

- ① POWER FOR INDOOR UNIT PROVIDED BY OUTDOOR UNIT.
- ② WITH CARRIER KSACN081A0A WIRED REMOTE CONTROLLER.
- ③ FOR MOUNTING, SEE 11/M6.1.
- ④ FOR MOUNTING, SEE 12/M6.1.

FUME HOOD EXHAUST FANS

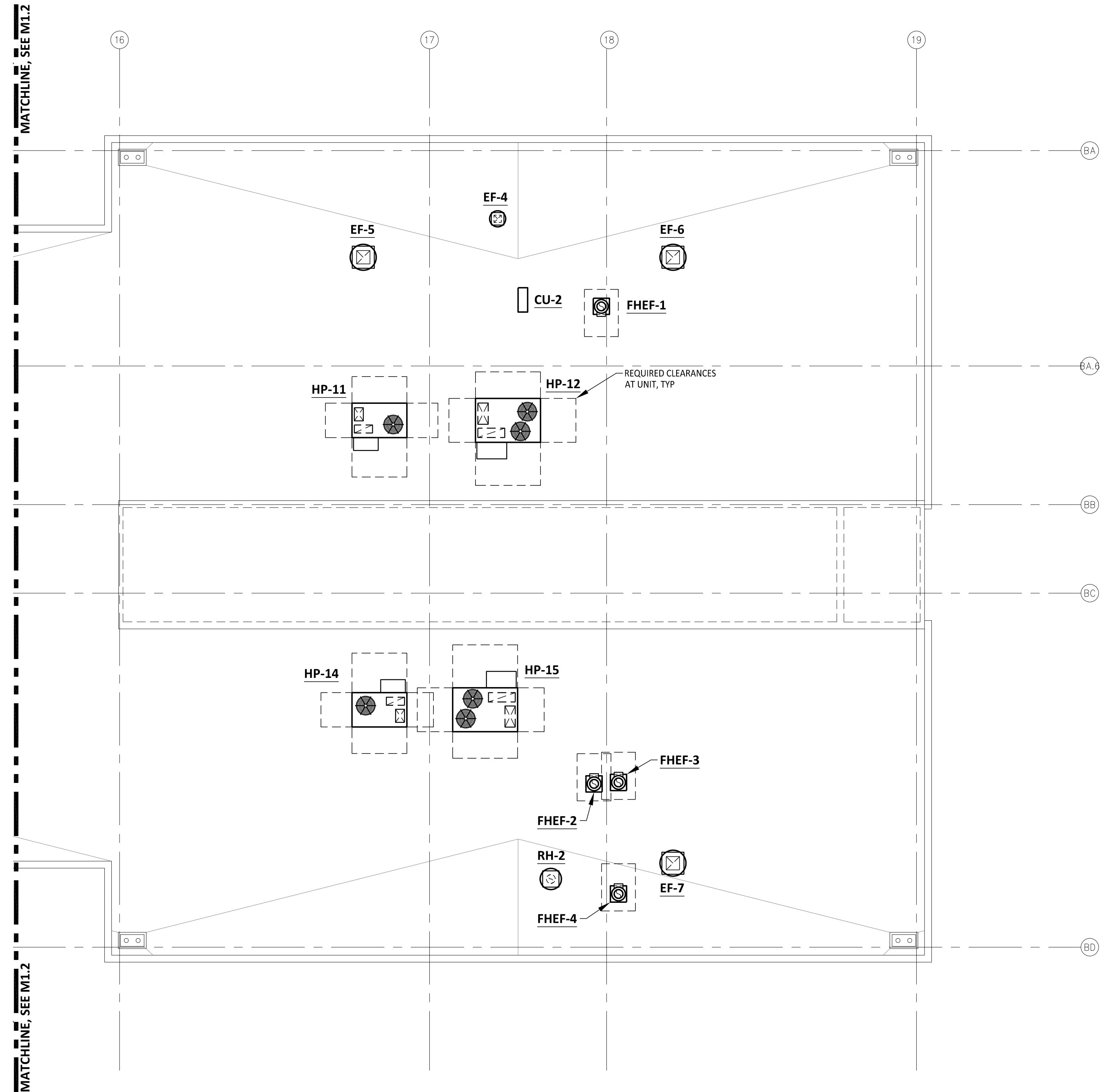
MARK	CFM	ESP	INLET ØBA	MOTOR		FAN RPM	WT LBS	MAKE & MODEL	REMARKS
				HP	V/PH				
FHEF-1	600	0.25"	67	1/2	460/3	2394	320	GREENHECK VEKTOR-H-10	① ② ③
FHEF-2	600	0.25"	67	1/2	460/3	2394	320	GREENHECK VEKTOR-H-10	① ② ③
FHEF-3	800	0.25"	67	1	460/3	2510	320	GREENHECK VEKTOR-H-10	① ② ③
FHEF-4	800	0.25"	67	1	460/3	2510	320	GREENHECK VEKTOR-H-10	① ② ③

- ① WEIGHT INCLUDES ALL OPTIONS AND ACCESSORIES.
- ② FOR MOUNTING, SEE 9/M6.1.
- ③ WITH NEMA-3R DISCONNECT SWITCH, GREENHECK EMV-11 DAMPER, SURE-AIR FLOW STATION (NO ELECTRONICS), AND GREENHECK GPHL 14" TALL ROOF CURB.

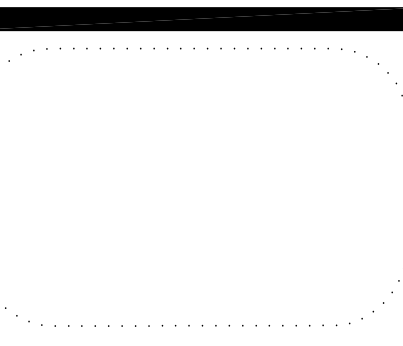
CEILING FANS

MARK	DIAMETER	V/PH	MAX RPM	WT LBS	MAKE & MODEL	REMARKS
CF-1	60"	110/1	170	35	BIG ASS FANS IG	① ②
CF-2	60"	110/1	170	35	BIG ASS FANS IG	① ②
CF-3	60"	1				

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SECTOR C ROOF PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"
NORTH



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DSA APP NO. 01-119906

ARCH PROJECT NO. 1897.00

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DSA SUBMITTAL

FEBRUARY 4, 2022

SHEET TITLE

SECTOR C
ROOF PLAN
MECHANICAL

SHEET NUMBER

M1.3



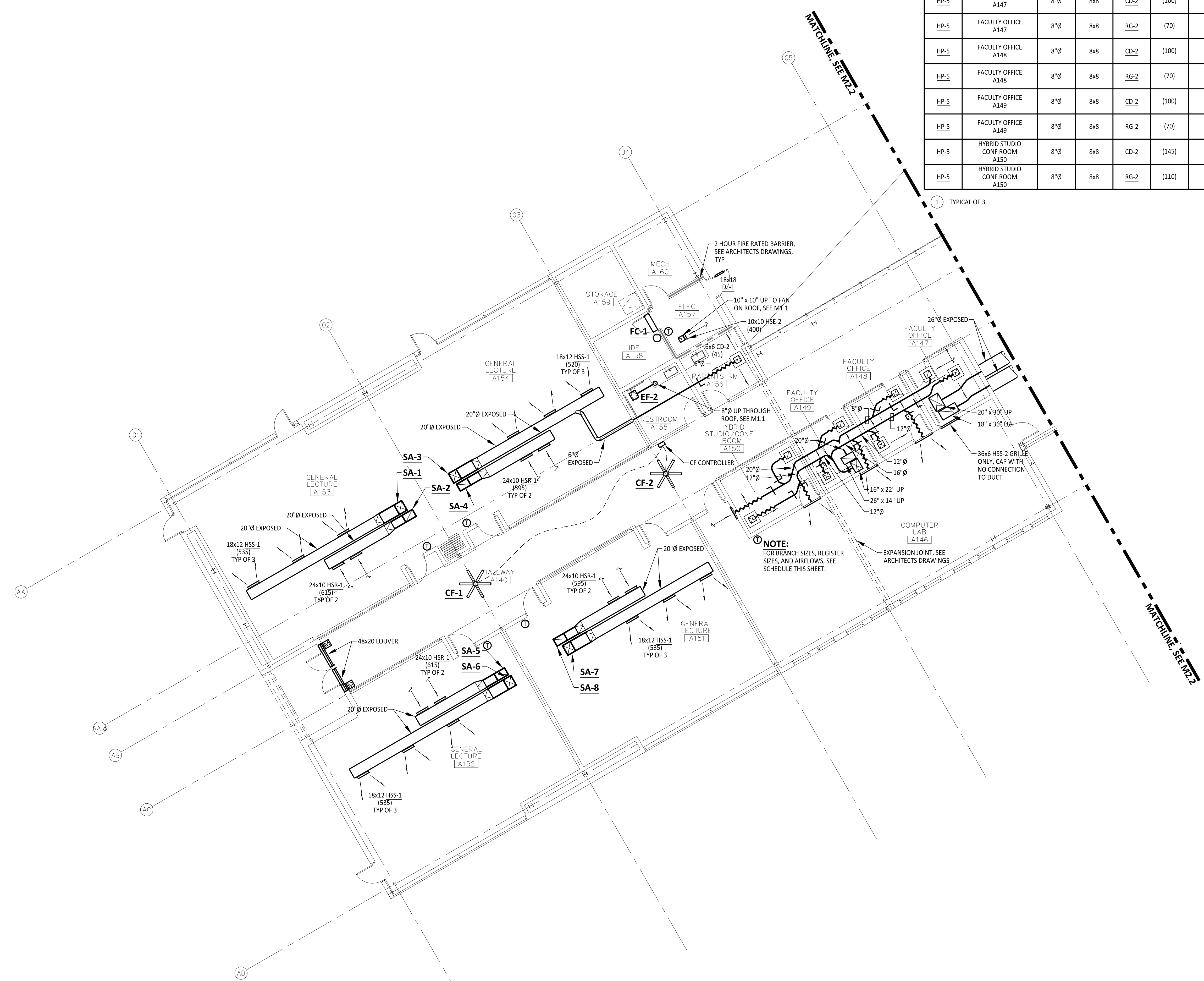
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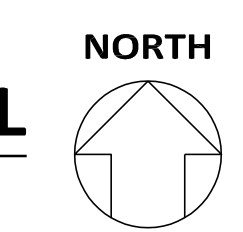


22 Lower Ridgeville Dr., Suite A
Morro Bay, California 93402-5788
AE Project #: 2021022

AIR DISTRIBUTION						
UNIT	ROOM NAME ROOM NUMBER	BRANCH SIZE	REGISTER SIZE	MARK	DESIGN CFM	REMARKS
HP-5	COMPUTER LAB A146	12"Ø	36x6	HSS-2	(385)	①
HP-5	COMPUTER LAB A146	20"Ø	24x14	HSS-2	(790)	
HP-5	FACULTY OFFICE A147	8"Ø	8x8	CD-2	(100)	
HP-5	FACULTY OFFICE A147	8"Ø	8x8	RG-2	(70)	
HP-5	FACULTY OFFICE A148	8"Ø	8x8	CD-2	(100)	
HP-5	FACULTY OFFICE A148	8"Ø	8x8	RG-2	(70)	
HP-5	FACULTY OFFICE A149	8"Ø	8x8	CD-2	(100)	
HP-5	FACULTY OFFICE A149	8"Ø	8x8	RG-2	(70)	
HP-5	HYBRID STUDIO CONF ROOM A150	8"Ø	8x8	CD-2	(145)	
HP-5	HYBRID STUDIO CONF ROOM A150	8"Ø	8x8	RG-2	(110)	



SECTOR A FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"



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SHEET TITLE

**SECTOR A
FLOOR PLAN
MECHANICAL**

SHEET NUMBER
M2.1

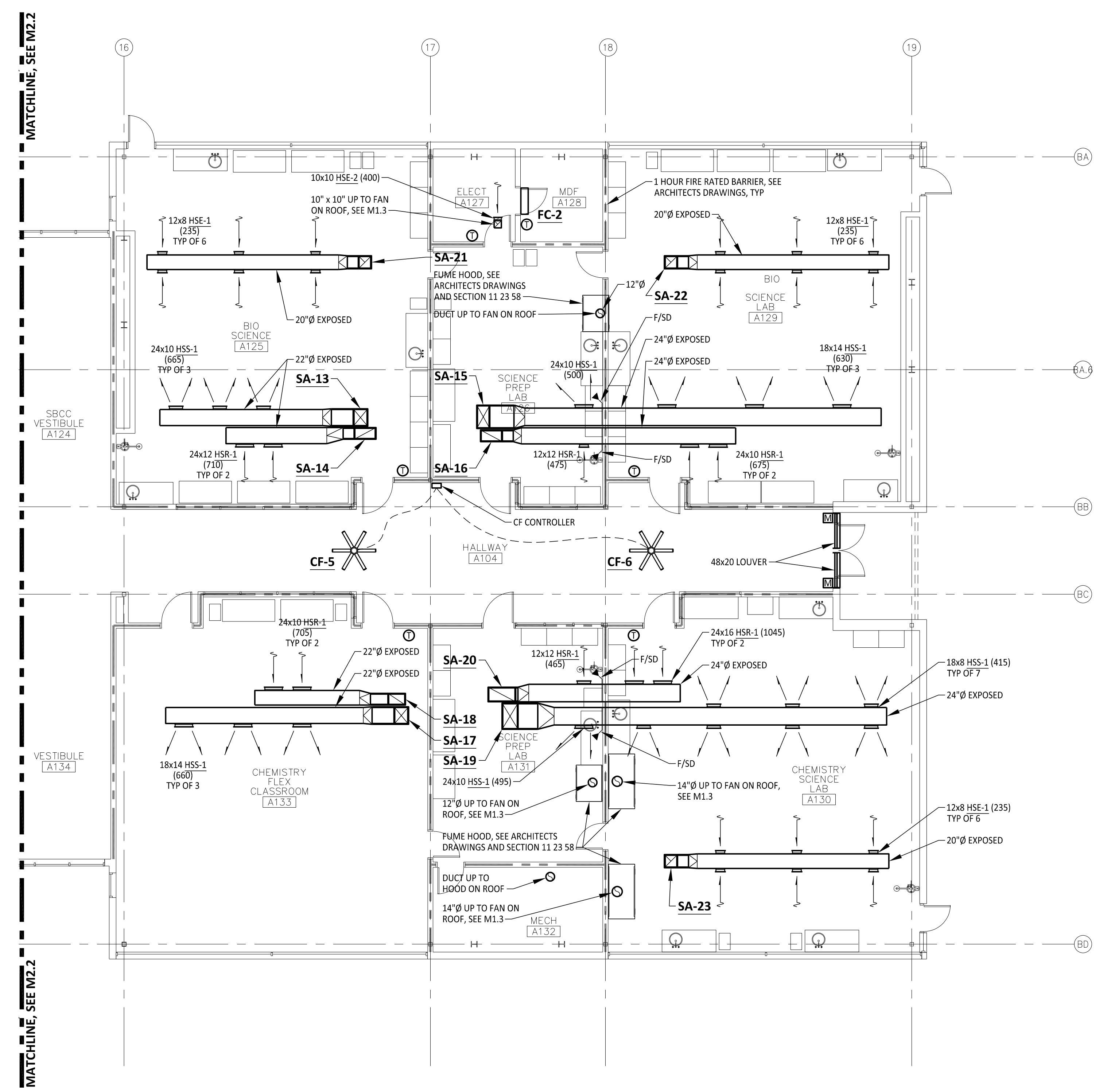


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 SHEET TITLE

SECTOR C FLOOR PLAN MECHANICAL
 SHEET NUMBER

M2.3

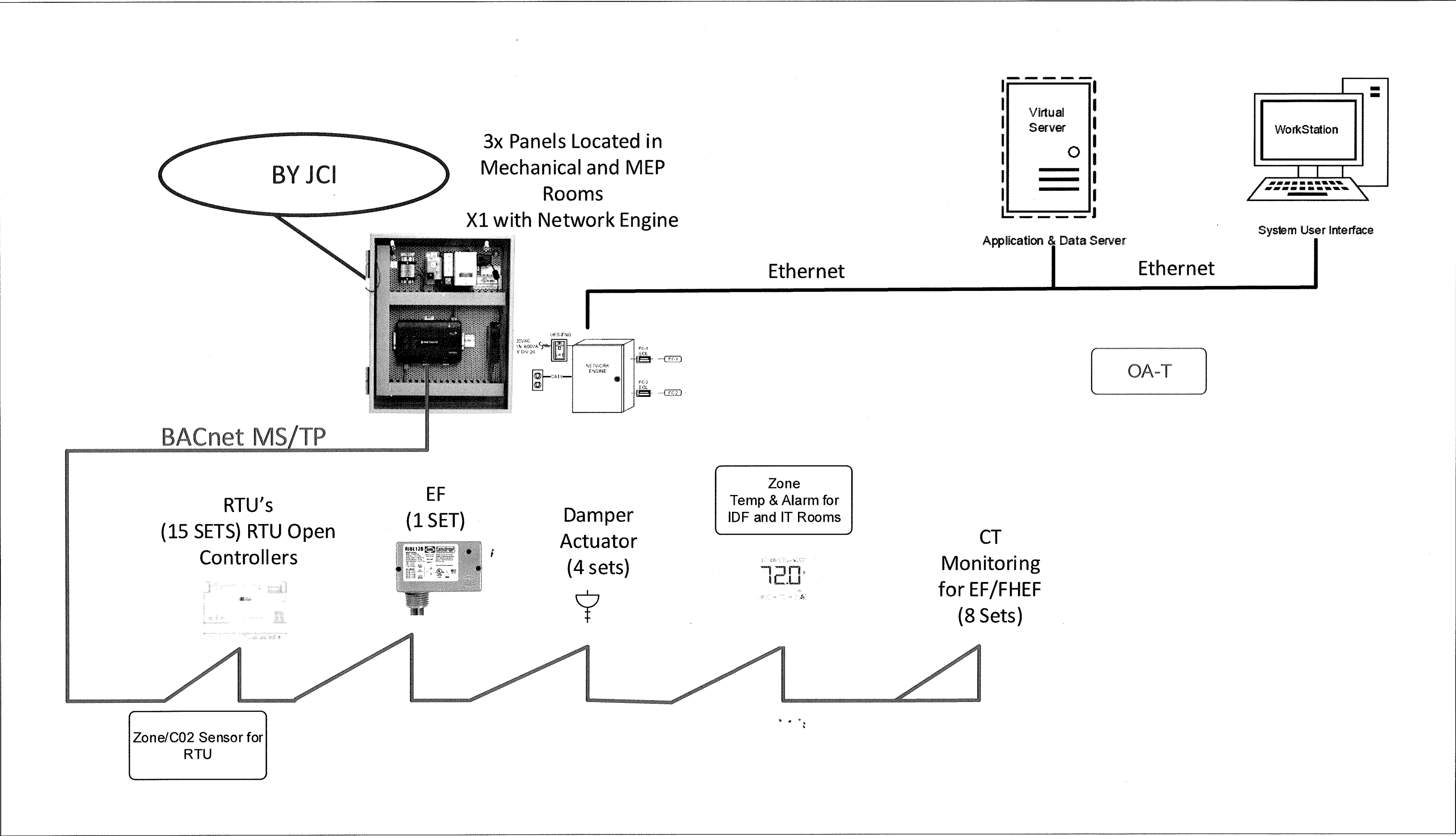
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 MECHANICAL
 STATE OF CALIFORNIA

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1
M5.1
SYSTEM ARCHITECTURE
 SCALE: NONE



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GAVILAN JOINT
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DSA APP NO. 01-119906
 ARCH PROJECT NO. 1897.00
 DRAWN BY: CAD
 DRAWING SCALE: AS NOTED
 PTN: 43-C4 FILE NO: N/A
DSA SUBMITTAL
FEBRUARY 4, 2022
 SHEET TITLE

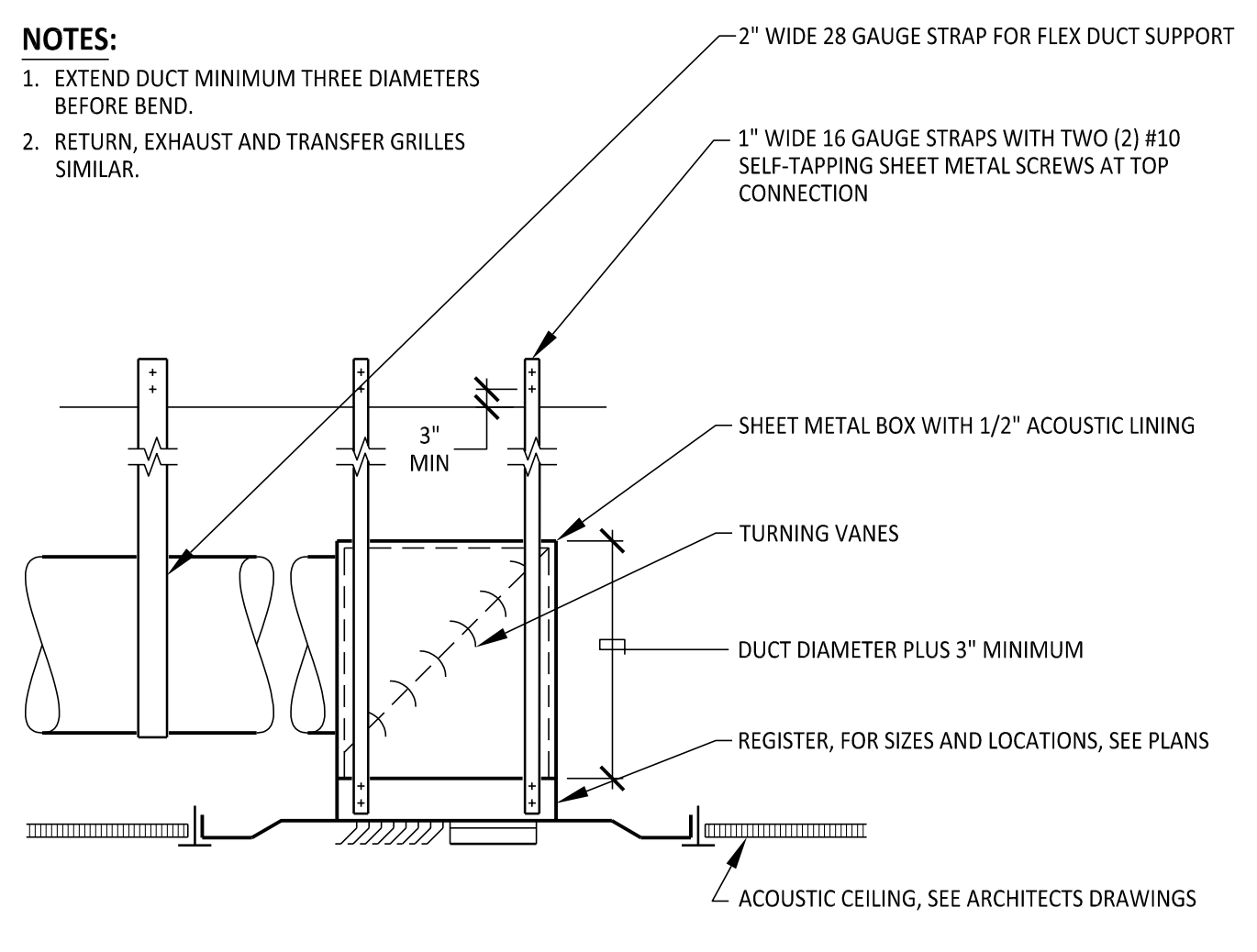
CONTROLS MECHANICAL

SHEET NUMBER
M5.1

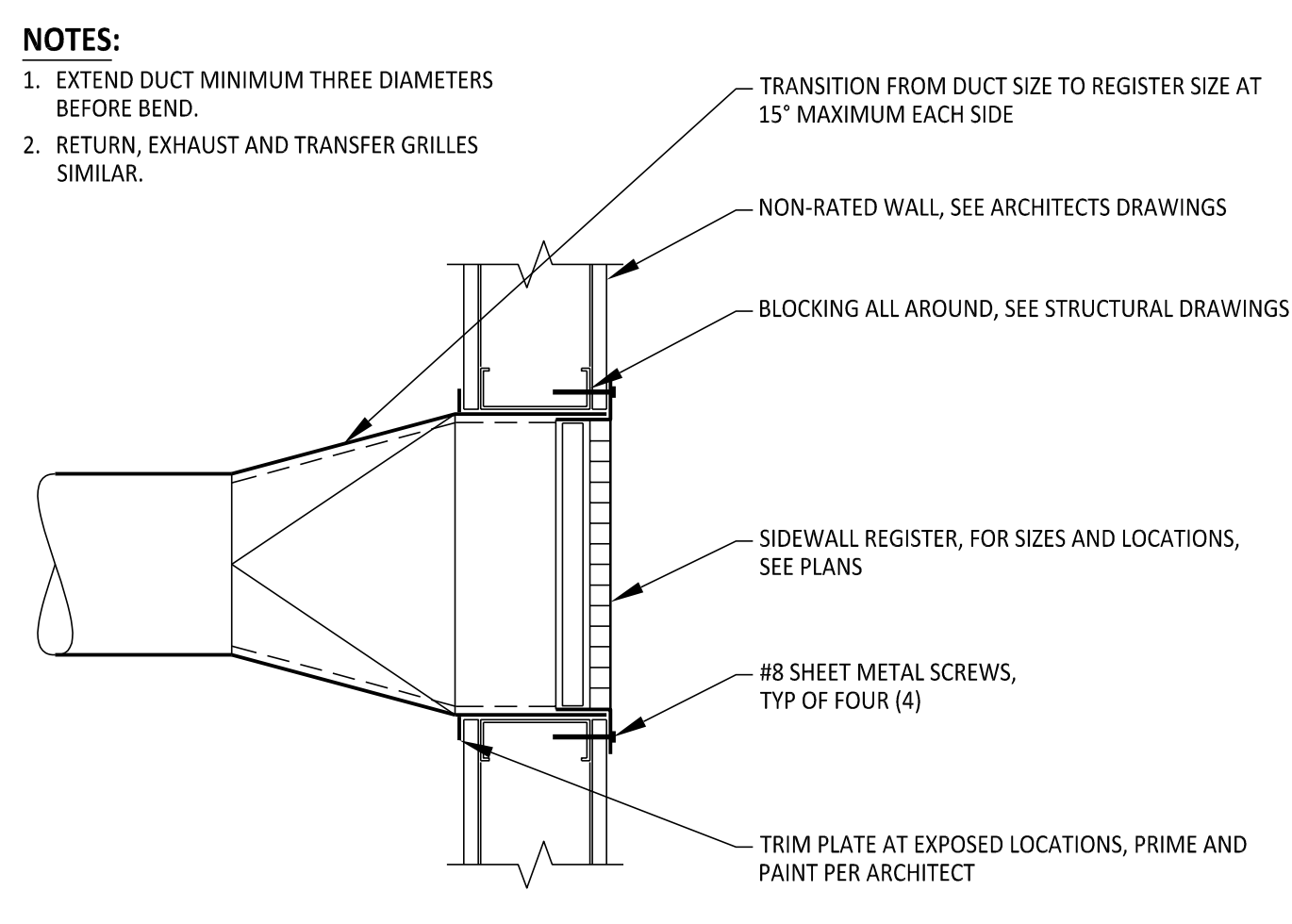


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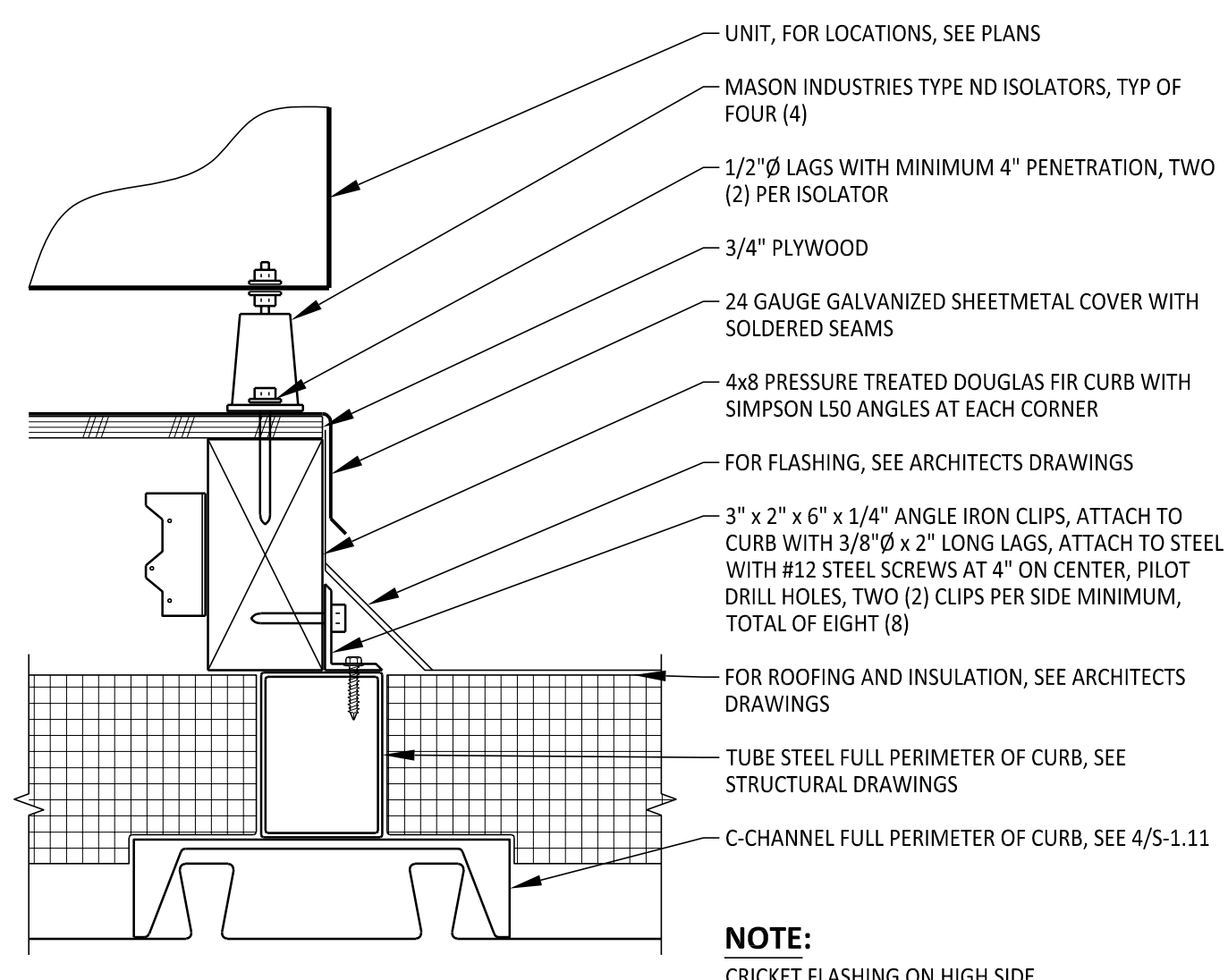
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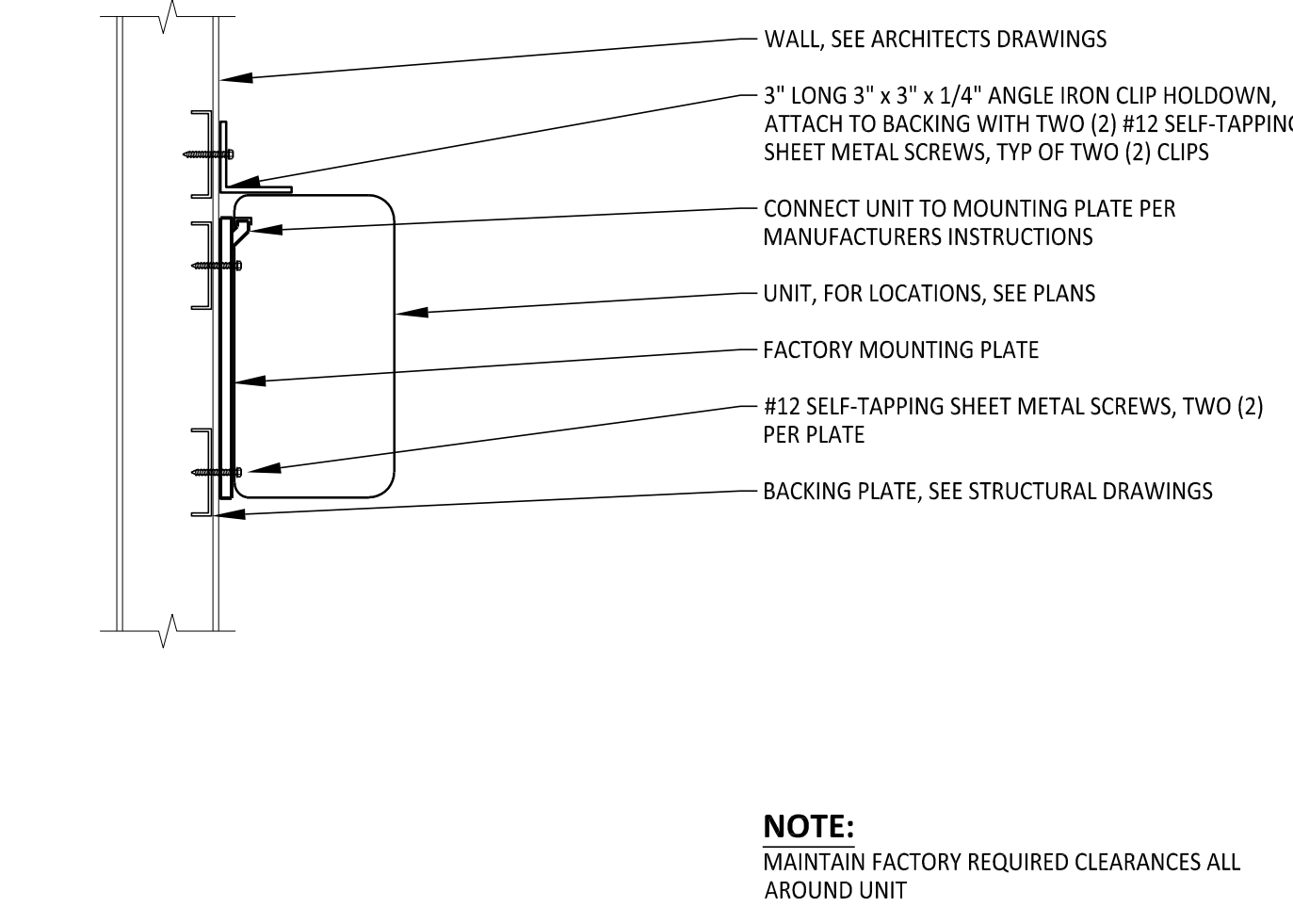
15
M6.1 NO SCALE
DIFFUSER MOUNTING T-BAR CEILING



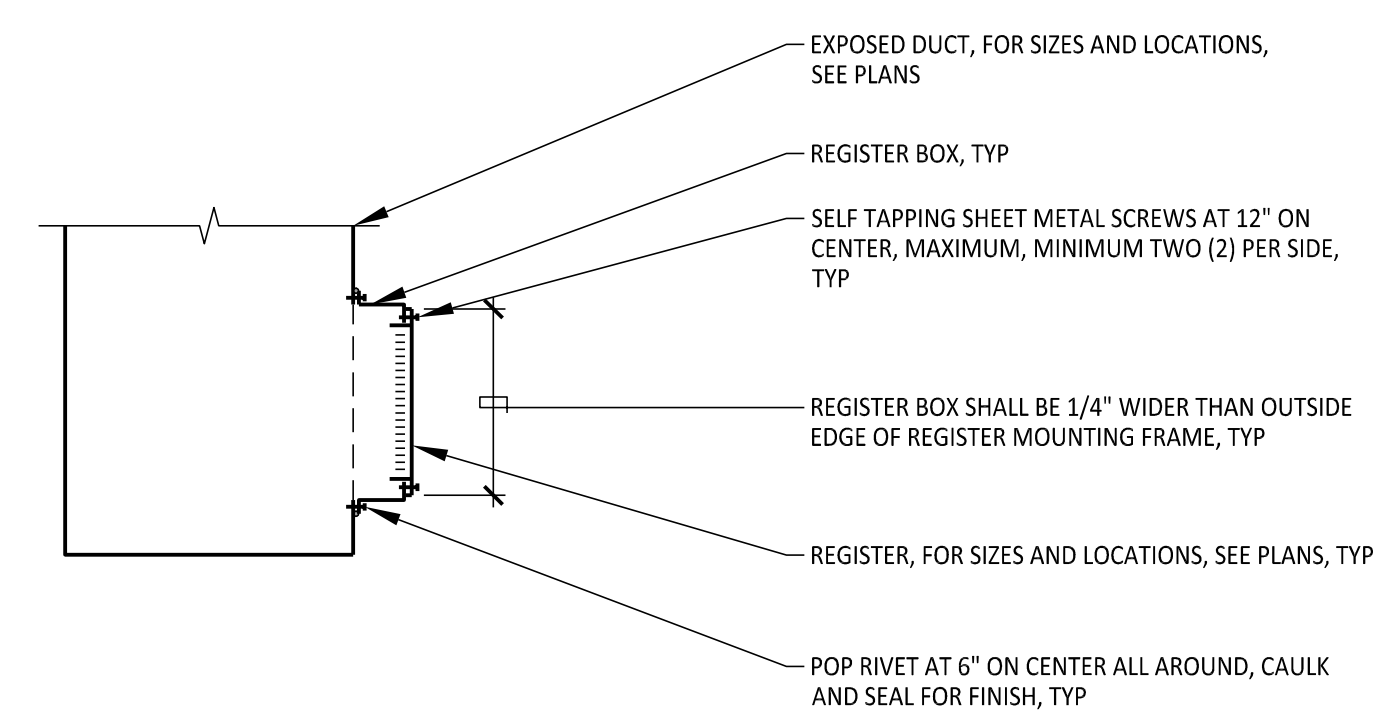
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M6.1 NO SCALE
SIDEWALL MOUNTING



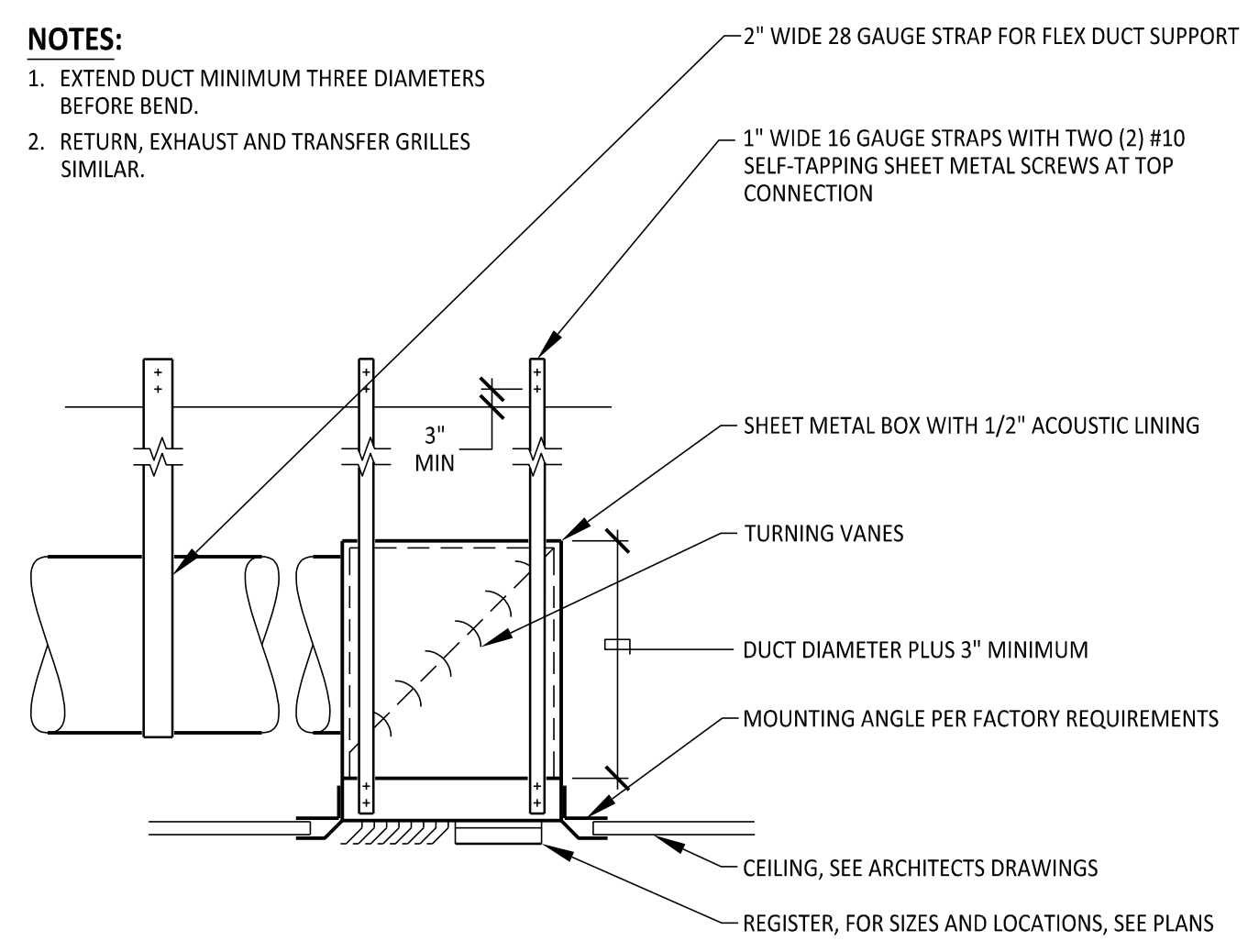
11
M6.1 NO SCALE
CONDENSING UNIT MOUNTING



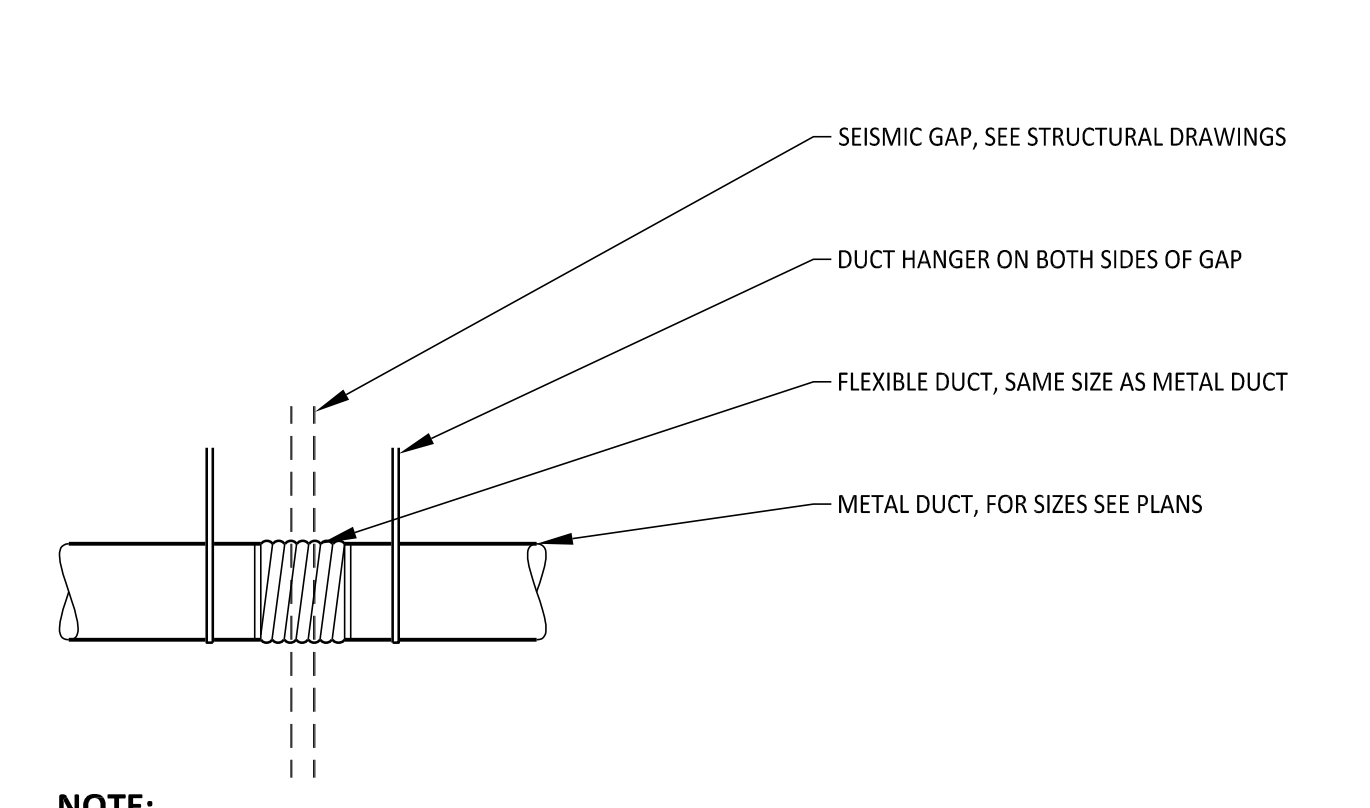
12
M6.1 NO SCALE
FAN COIL MOUNTING



13
M6.1 NO SCALE
DUCT MOUNTED REGISTER

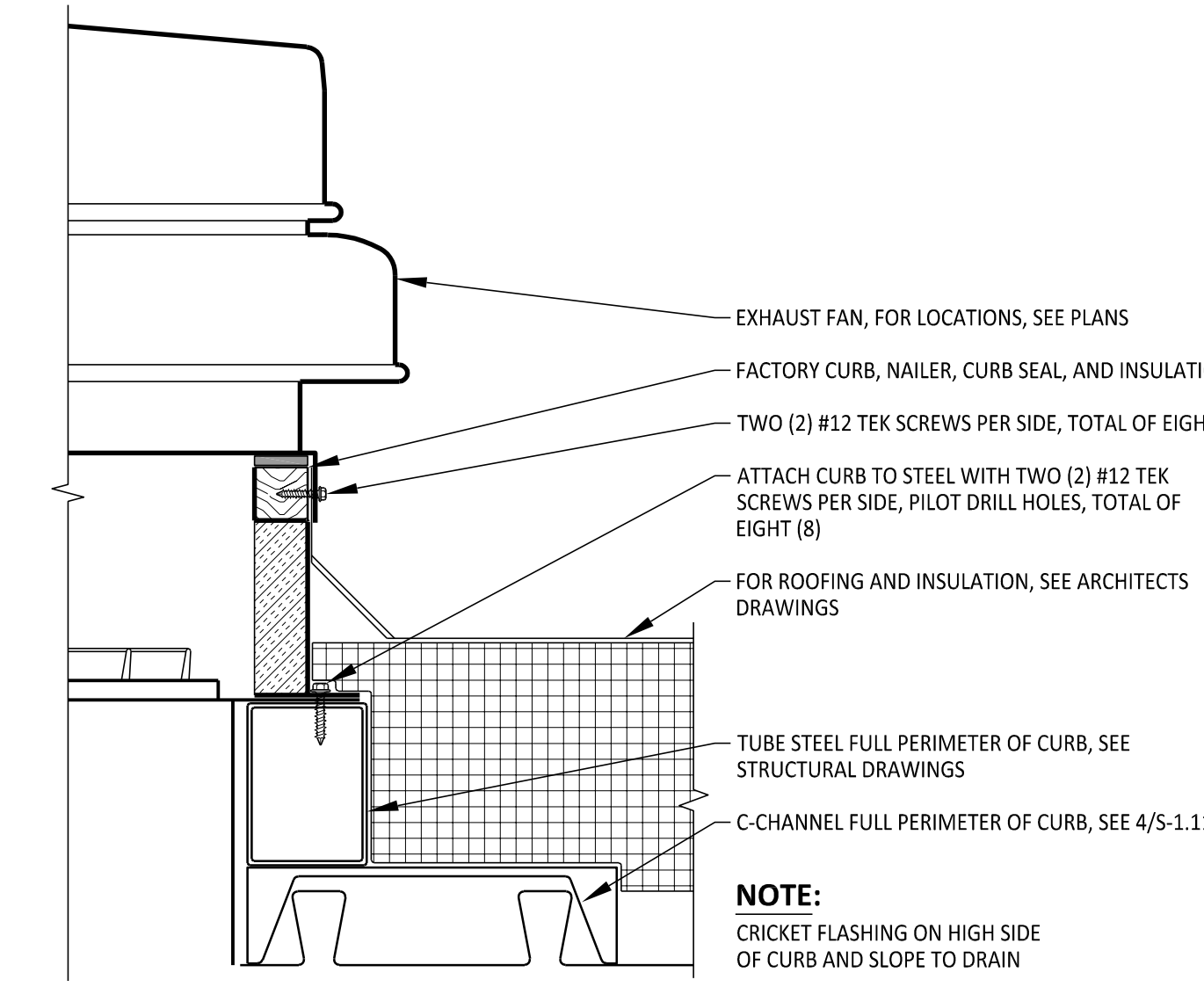


14
M6.1 NO SCALE
DIFFUSER MOUNTING HARD CEILING

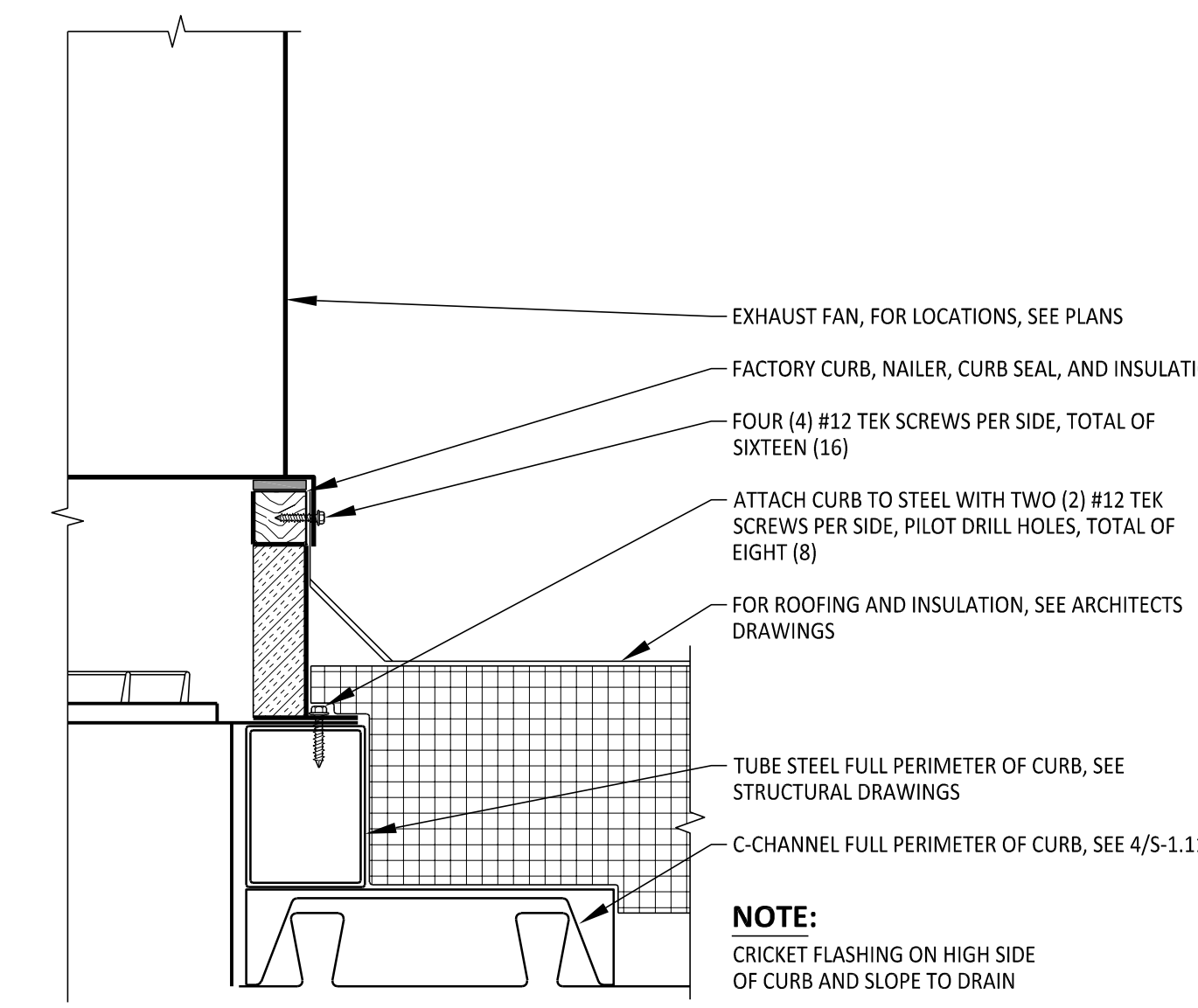


NOTE:
EXPANSION/CONTRACTION CAPABILITY SHALL BE PROVIDED IN DUCTS WHICH CROSS BUILDING EXPANSION (SEISMIC) GAPS. THE TOTAL RELATIVE MOVEMENT IN ANY HORIZONTAL DIRECTION ON EACH SIDE OF THE GAP CENTERLINE SHALL BE, AS A MINIMUM, EQUAL TO THE SIZE OF THE BUILDING EXPANSION GAP. FOR EXAMPLE, AT A 4\"/>

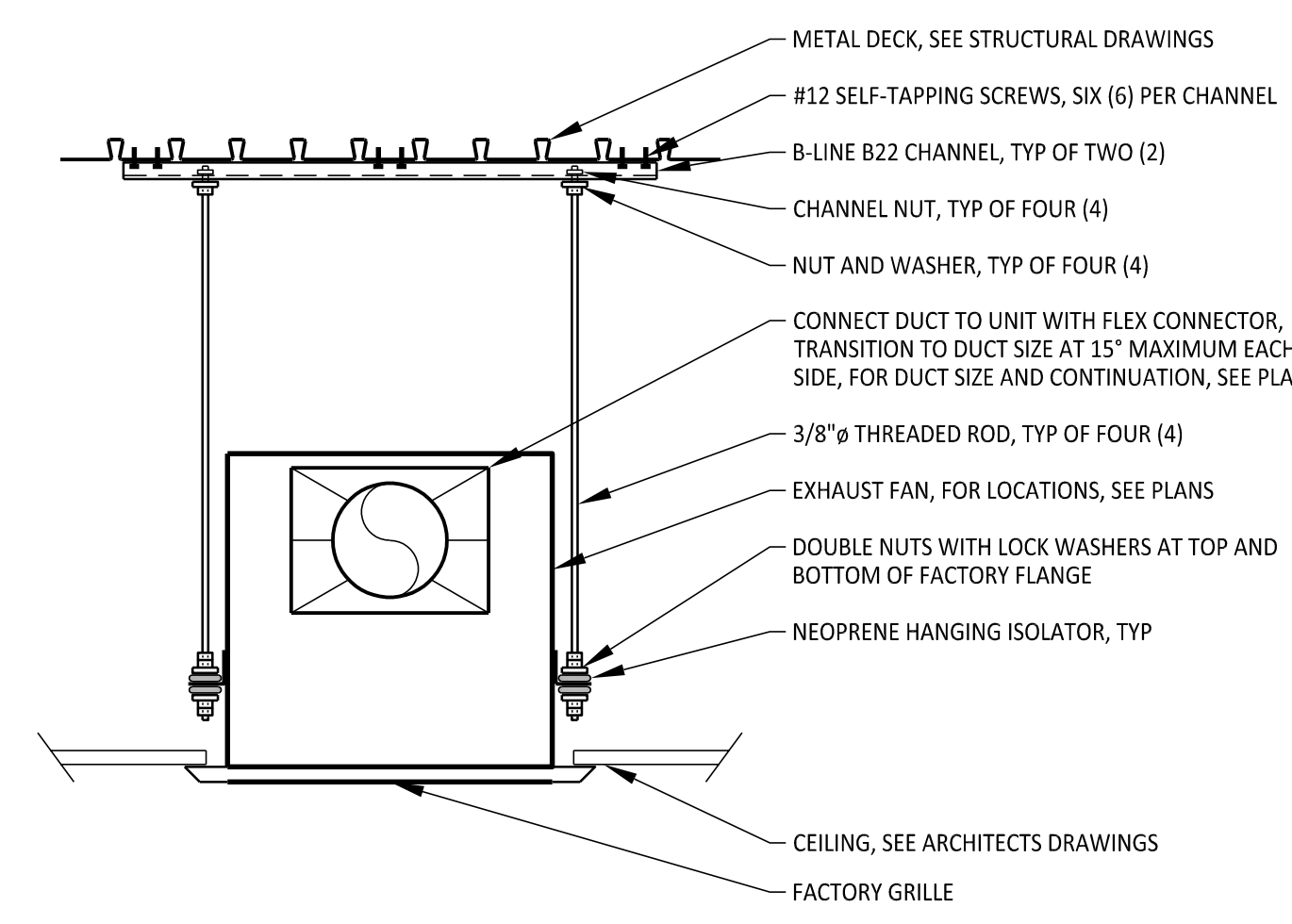
7
M6.1 NO SCALE
DUCT CROSSING SEISMIC GAP



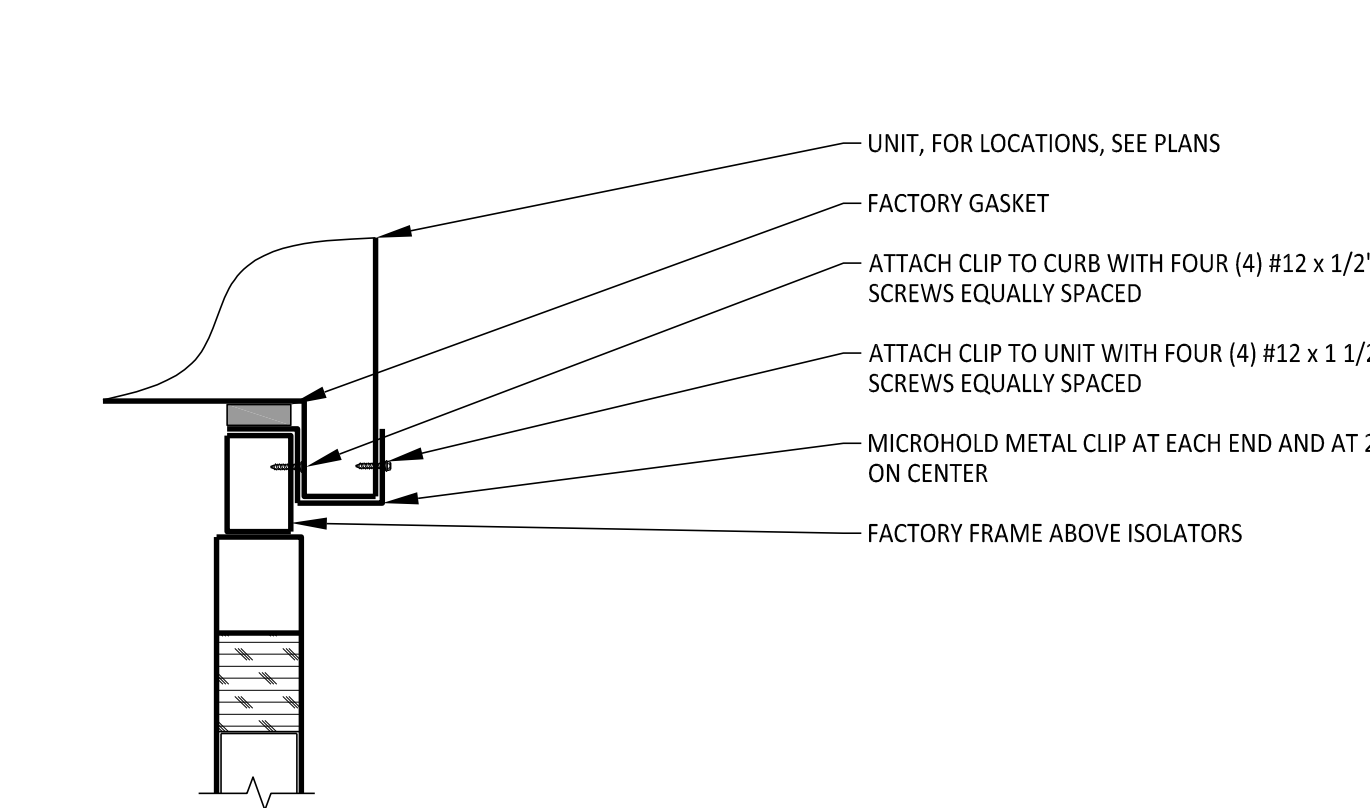
8
M6.1 NO SCALE
ROOF MOUNTED FAN
(HOODS AND CAPS SIMILAR)



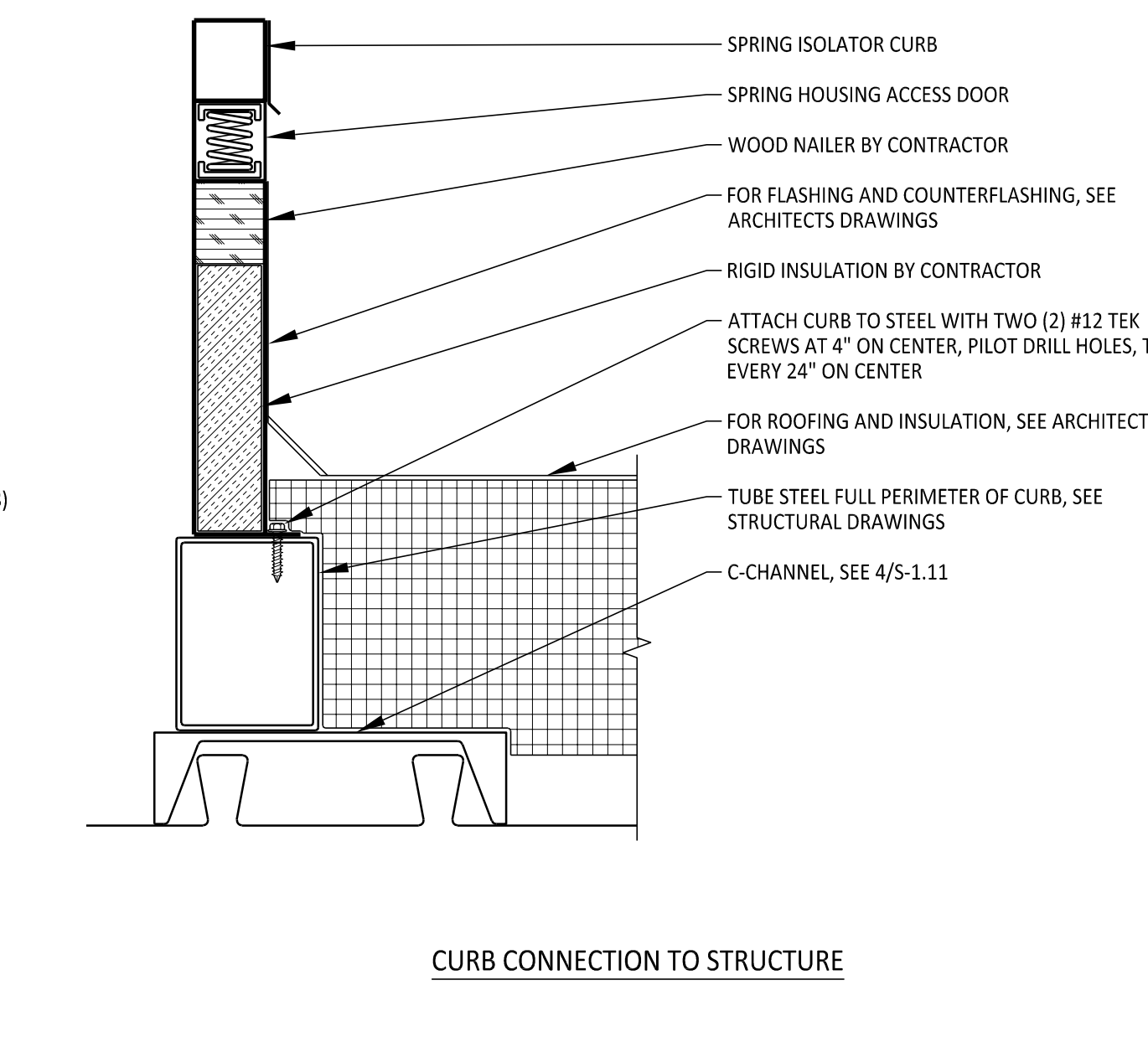
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M6.1 NO SCALE
ROOF MOUNTED FAN
(FUME HOOD EXHAUST FANS)



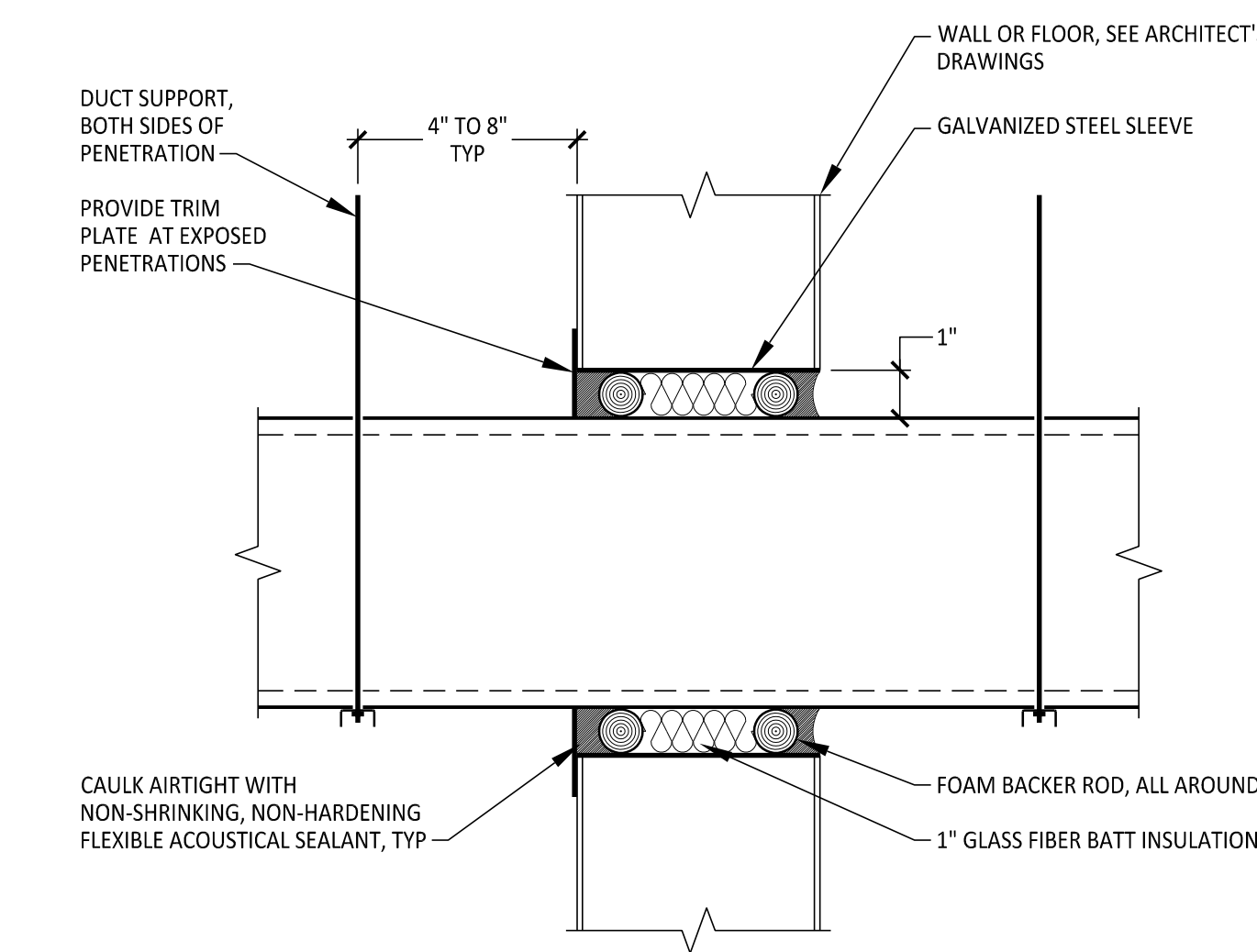
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M6.1 NO SCALE
CEILING MOUNTED FAN



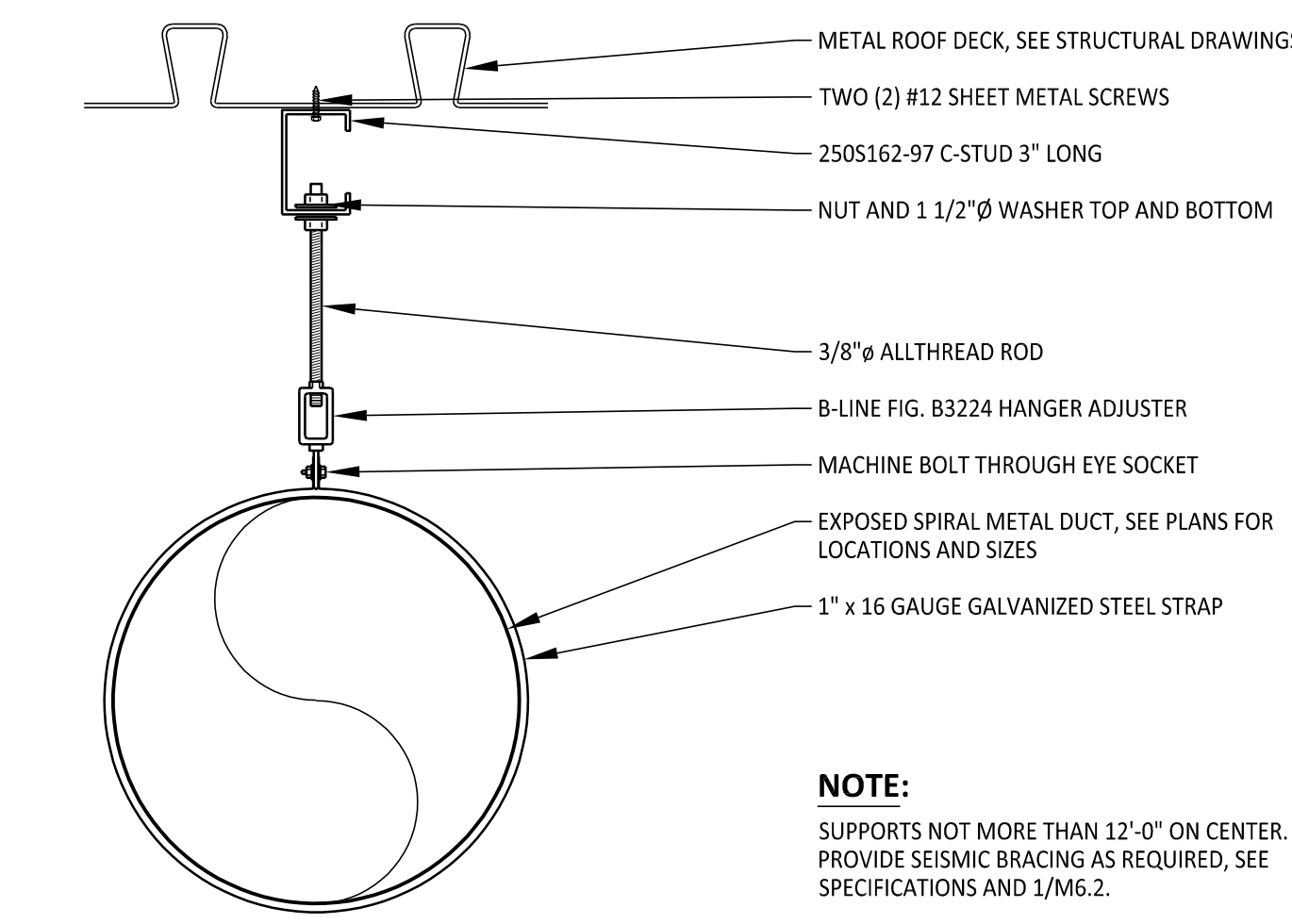
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M6.1 NO SCALE
HP UNIT MOUNTING



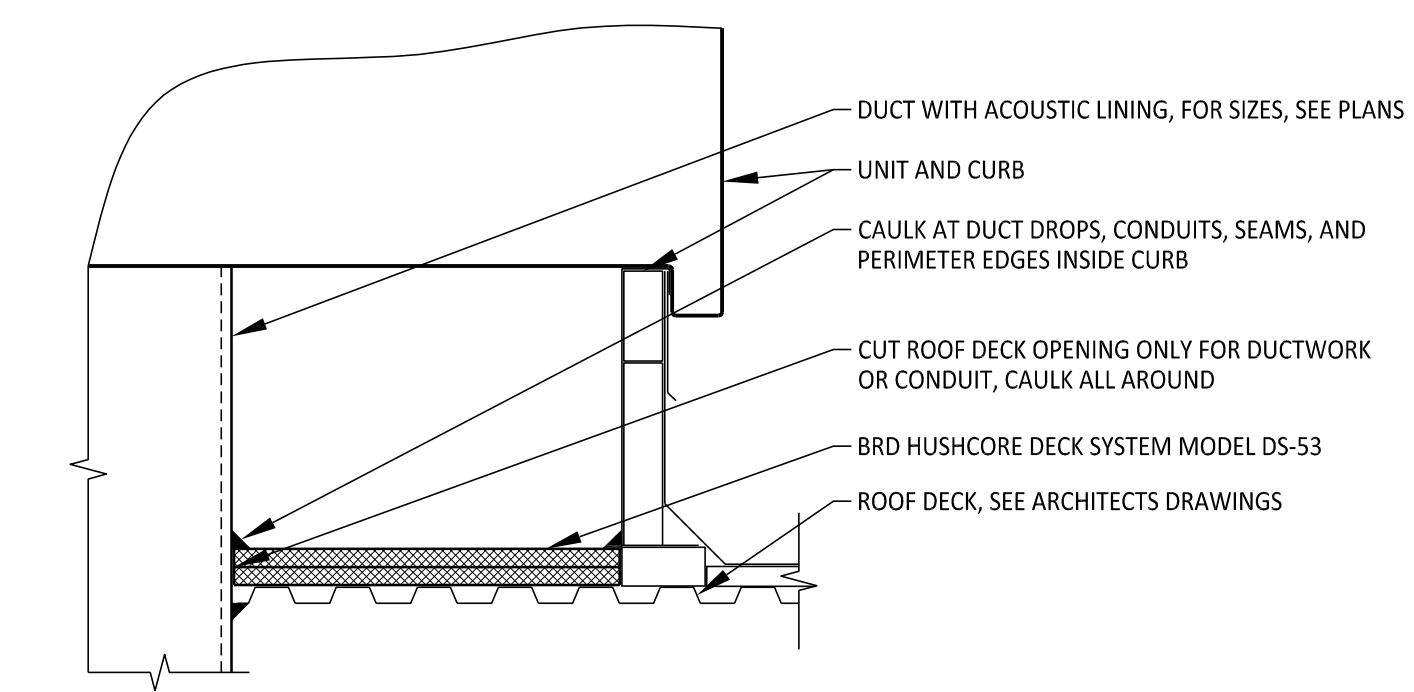
2
M6.1 NO SCALE
DUCT TRANSITION AT UNITS



5
M6.1 NO SCALE
DUCT PENETRATION THROUGH SOUND RATED CONSTRUCTION

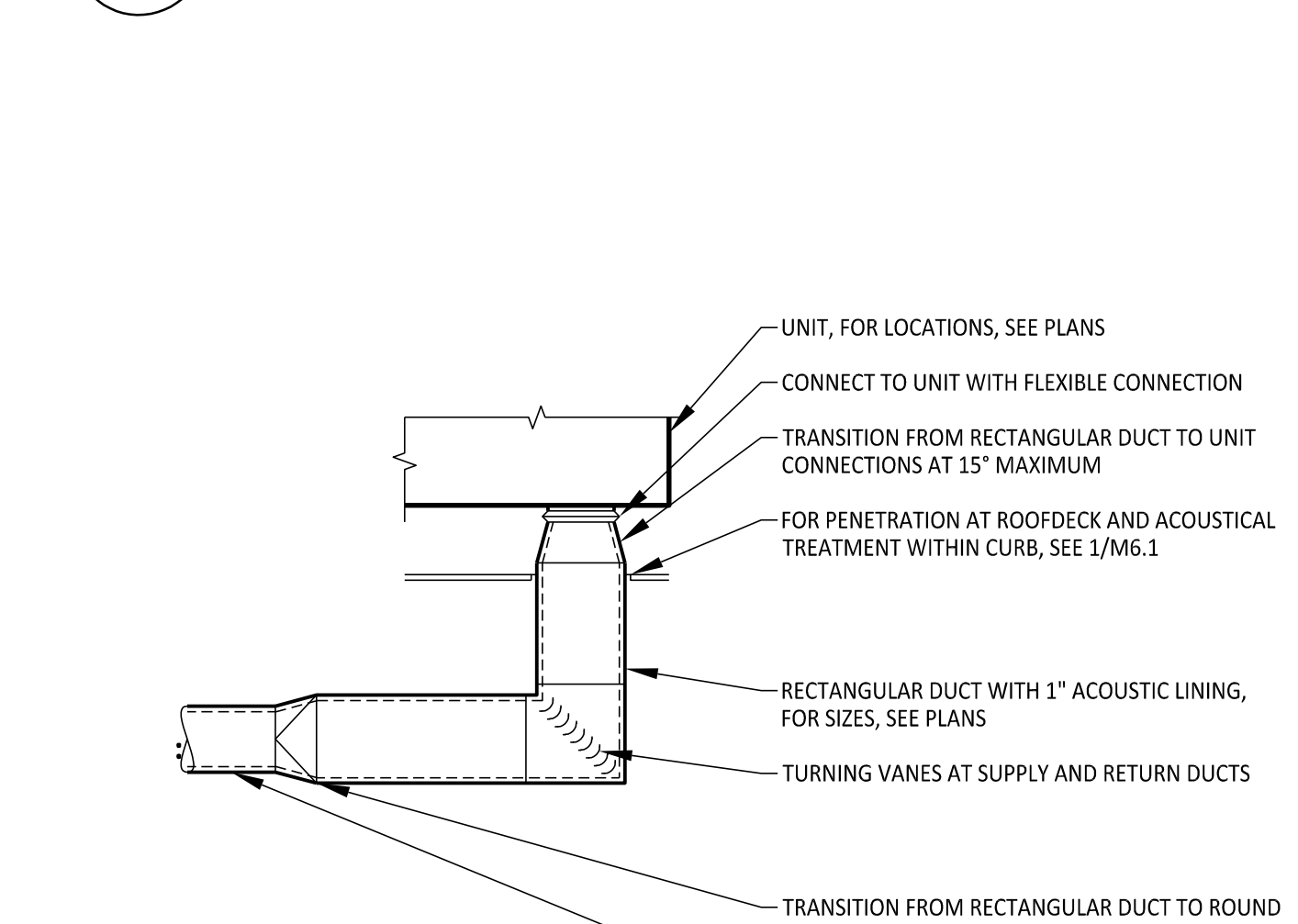


6
M6.1 NO SCALE
EXPOSED DUCT SUPPORT



NOTES:
1. PRODUCTS AND SYSTEMS SHALL BE BY BRD NOISE AND VIBRATION CONTROL.
2. DECKING SHALL BE MAINTAINED INSIDE THE RTU ROOF CURB TO A CLEARANCE OF 1/4\"/>

1
M6.1 NO SCALE
ACOUSTIC TREATMENT WITHIN ROOF CURB



NOTES:
1. APPLIES TO UNITS WITHOUT SOUND ATTENUATOR ELBOWS.

3
M6.1 NO SCALE
DUCT MOUNTED REGISTER

DSA SUBMITTAL
2/14/22
MECHANICAL
STATE OF CALIFORNIA

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SHEET TITLE

DETAILS MECHANICAL

SHEET NUMBER
M6.1

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GENERAL NOTES:

- THIS PROJECT IS NEW CONSTRUCTION. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- PLUMBING CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO INSTALLATION WORK.
- CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.
- ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

DSA GENERAL NOTES

- THE INTENT OF THE CONTRACT DOCUMENTS IS TO CONSTRUCT A SCHOOL CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2019.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.1.8 THROUGH 1617A.1.2.6 AND ASCE 7-16 CHAPTERS 13, 26, AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
- TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE ANCHORAGE OF ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 30 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP):

- MP MD PP OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL OPM#: 0043-13, "MASON WEST, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS", OPM-0052-13 "B-LINE/TOLCO SEISMIC RESTRAINT SYSTEMS GUIDELINES".

LIST OF GOVERNING CODES:

- 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 3, TITLE 24, C.C.R.
- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
- 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2019 CALIFORNIA FIRE CODE (FC), PART 9, TITLE 24, C.C.R.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
- 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.

- ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
- INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-332(b) AND 4-342.
- TESTS AND TESTING LABORATORY PER SECTION 4-335.
- SPECIAL INSPECTION PER SECTION 4-333(c).
- CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-335 AND 4-343(c).
- ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R., - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
- GOVERNING CODES: TITLE 24.
- A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
- DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
- SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.

PLUMBING GENERAL NOTES:

- SEE ARCHITECTS PLANS AND DETAILS FOR PLUMBING FIXTURE MOUNTING LOCATIONS, HEIGHTS, CLEARANCES, ETC.
- ACCESSIBLE FIXTURES SHALL HAVE LEVER OR PUSH TYPE OPERATORS THAT REQUIRE LESS THAN FIVE (5) POUNDS FORCE TO ACTIVATE.
- OPERATING CONTROLS FOR ACCESSIBLE FIXTURES TO BE OPERABLE WITH ONE HAND, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS AND NO MORE THAN 15 SECONDS.
- INSULATE ALL PIPING UNDER ACCESSIBLE FIXTURES AND COVER ANY SHARP OR ABRASIVE SURFACES WITH PROTECTIVE PIPE COVERS.
- ALL PLUMBING VENTS THROUGH ROOF SHALL OFFSET ABOVE CEILING AND NOT PENETRATE WALL TOP PLATE.
- MAXIMUM DEPTH OF ACCESSIBLE SINKS SHALL BE 6 1/2".

PLUMBING LEGEND			
SYMBOL	ABBRV.	IDENTIFICATION	ABBRV. IDENTIFICATION
---	CW	COLD WATER (DOMESTIC)	COORD COORDINATE
---	HW	HOT WATER	CONST CONSTRUCTION
---	HWR	HOT WATER RETURN	DF DRINKING FOUNTAIN
---	V	VENT	DN DOWN
---	TW	TEMPERED WATER	DWGS DRAWINGS
---	TWR	TEMPERED WATER RETURN	(E) EXISTING
---	TP	TRAP PRIMER LINE	EC ELECTRICAL CONTRACTOR
---	F	FIRE WATER	ELEC ELECTRICAL
---	SPKR	SPRINKLER	ELEV ELEVATION
---	DSPKR	DRY SPRINKLER	EMBT EMBEDMENT
---	SPKR(D)	DELUGE SPRINKLER	EQUIP EQUIPMENT
---	WSP	WET STAND PIPE	EWT ENTERING WATER TEMPERATURE
---	DSP	DRY STAND PIPE	EXT EXTERIOR
---	G	GAS (7"WC)	FD FLOOR DRAIN
---	MPG	MEDIUM PRESSURE GAS	FFE FINISHED FLOOR ELEVATION
---	S OR W	SOIL OR WASTE ABOVE GRADE	FLA FULL LOAD AMPS
---	W	SOIL OR WASTE BELOW GRADE	FLEX FLEXIBLE
---	GW	GREASE WASTE (ABOVE GROUND)	FLR FLOOR
---	GW	GREASE WASTE (BELOW GROUND)	FS FLOOR SINK
---	IW	INDUSTRIAL WASTE (ABOVE GROUND)	FSM FEET PER MINUTE
---	IW	INDUSTRIAL WASTE (BELOW GROUND)	FT FEET
---	RWL	RAIN WATER LEADER	FT HD FEET HEAD
---	RD	ROOF DRAIN	GPM GALLONS PER MINUTE
---	ID	INDIRECT DRAIN	GALV GALVANIZED
---	CD	CONDENSATE DRAIN	GA GAUGE
---	CAP	CAP	GC GENERAL CONTRACTOR
---	CONT	CONTINUATION	HP HORSEPOWER
---	OR	GATE VALVE	HR HOUR
---	SOV	SHUT-OFF VALVE	HZ HERTZ
---	GV	GLOBE VALVE	ID INSIDE DIAMETER
---	---	BUTTERFLY VALVE	IE INVERT ELEVATION
---	---	BALL VALVE	IN INCH
---	BV	BALANCING VALVE	INV INVERT
---	CS	CIRCUIT SETTER	KW KILOWATTS
---	---	SOLENOID VALVE	LBS POUNDS
---	---	---	LG LONG
---	---	---	LRA LOCKED ROTOR AMPS
---	---	---	LVG LEAVING
---	---	---	LWT LEAVING WATER TEMPERATURE
---	T&PRV	TEMP. & PRESS. RELIEF VALVE	MAX MAXIMUM
---	OR	ANGLE VALVE	MBH 1000 BTU PER HOUR
---	CKV	CHECK VALVE	MC MECHANICAL CONTRACTOR
---	---	---	MCA MINIMUM CIRCUIT AMPS
---	---	---	MECH MECHANICAL
---	---	---	MFR MANUFACTURER
---	---	---	MIN MINIMUM
---	OR	GC GAS COCK	MOCPP MAXIMUM OVERCURRENT PROTECTION
---	---	---	(N) NEW
---	---	---	NC NORMALLY CLOSED
---	PRV	PRESSURE REGULATING VALVE	NIC NOT IN CONTRACT
---	GPR	GAS PRESSURE REGULATOR	NO NORMALLY OPEN
---	---	---	UNION
---	FC	FLEXIBLE CONNECTION	OC ON CENTER
---	---	---	OD OUTSIDE DIAMETER
---	WHA	WATER HAMMER ARRESTOR	PC PLUMBING CONTRACTOR
---	HB	HOSE BIBB	PD PRESSURE DROP
---	GCO/FCO	GRADE CLEANOUT/FLOOR CLEANOUT	PH PHASE
---	WCO	WALL CLEANOUT	P/N PART NUMBER
---	---	---	CIRCULATION PUMP (DOMESTIC)
---	---	---	PRESS PRESSURE
---	---	---	PRV PRESSURE REDUCING VALVE
---	---	---	PSI POUNDS PER SQUARE INCH
---	---	---	P/T PRESSURE/TEMPERATURE
---	---	---	QTY QUANTITY
---	---	---	REQD REQUIRED
---	POC	POINT OF CONNECTION	REQS REQUIREMENTS
---	---	---	CLA CENTERLINE
---	AD	ACCESS DOOR	RLA RATED/RUNNING LOAD AMPS
---	DIA	DIAMETER	RM ROOM
---	&	AND	RPM REVOLUTIONS PER MINUTE
---	@	AT	RV RELIEF VALVE
---	F	DEGREES FAHRENHEIT	SM SHEETMETAL
---	AC	AIR CONDITIONER	SOV SHUT-OFF VALVE
---	AFF	ABOVE FINISH FLOOR	SPEC SPECIFICATION
---	AGGR	AGGREGATE	SQ SQUARE
---	AMP	AMPERE	STD STANDARD
---	APPROX	APPROXIMATE	STL STRUCTURAL
---	ARCH	ARCHITECT/ARCHITECTURAL	STSL STAINLESS STEEL
---	BHP	BRAKE HORSEPOWER	TDH TOTAL DYNAMIC HEAD
---	BJ	BETWEEN JOISTS	TEMP TEMPERATURE
---	BLDG	BUILDING	TYP TYPICAL
---	BT	BATHTUB	UL UNDERWRITER'S LABORATORIES
---	BTU	BRITISH THERMAL UNIT	UNON UNLESS OTHERWISE NOTED
---	CFH	CUBIC FEET PER HOUR	V VOLT
---	CI	CAST IRON	VTR VENT THROUGH ROOF
---	CIRC	CIRCULATING	W/ WITH
---	CLG	CEILING	WC WATER COLUMN
---	CONC	CONCRETE	WH WATER HEATER
---	CONN	CONNECTION	WM WASHING MACHINE
---	---	---	WT WEIGHT



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KITCHEN FIXTURE CONNECTIONS ROUGH-IN									
MARK	DESCRIPTION	WASTE			WATER		GAS		REMARKS
		ID	W	V	CW	HW	G	MBH	
2	RO WATER FILTER SYSTEM & 20 GAL TANK	1/2"			1/2"				1 2
3	ICE STORAGE BIN	3/4"							1 2
4	ICE MACHINE - S/C				1/2"				1
5	S/S FLOOR TROUGH		4"						1
8	S/S MOP SINK CABINET W/FAUCET		2"		1/2"	1/2"			1
11	S/S HAND SINK		1 1/2"		1/2"	1/2"			1
13	S/S 3-TUB SINK	1 1/2"							1 2
14	FAUCET				1/2"	1/2"			1
18	S/S PREP TABLE W/SINK	2"							1 2
C6	FAUCET				1/2"	1/2"			1
C10	ICE STORAGE BIN	1"							1 2
C11	COFFEE MACHINE				1/2"				1
C13	HOT WATER DISPENSER				1/2"				1
C16	S/S WORK COUNTER W/SINKS	2"							1 2
C17	BLENDER CONTAINER RINSER	1/2"			1/2"				1 2
C18	FAUCET				1/2"	1/2"			1
C23	DIPPERWELL W/FAUCET	1 1/2"			1/2"				1 2
C24	ESPRESSO MACHINE	1 1/2"			1/2"				1 2
S4	ICE MACHINE & BIN	1/2"							1 2
S5	FLOOR TROUGH		4"						1
S6	WATER FILTER FOR ICE MACHINE				3/4"				1

- 1 SEE KITCHEN EQUIPMENT DRAWINGS FOR MANUFACTURER AND MODEL. 2 RUN INDIRECT DRAIN TO FLOOR SINK, SPILL TO FLOOR SINK WITH ELBOW DOWN AND AIR GAP.

FOOD SERVICE EQUIPMENT NOTES

- ALL EQUIPMENT LOCATIONS AND RELATED ROUGH-IN REQUIREMENTS SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY WITH OWNER AND FOOD SERVICE CONSULTANT ALL REQUIREMENTS, INCLUDING FLOOR SINK LOCATIONS ETC. PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL ROUGH-IN AND FURNISH FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN WITH SHUT-OFF VALVES AND UNIONS.
- ALL FLOOR SINKS SHOWN SHALL BE FURNISHED AND INSTALLED WITH RIM FLUSH WITH FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT REQUIRING CONDENSATE CONNECTIONS SHALL BE FURNISHED WITH P-TRAPS PER MANUFACTURER'S REQUIREMENTS AT THE POINT OF CONNECTION TO THE COIL DRAIN PANS.
- ALL PIPING SHOWN SHALL BE RUN CONCEALED IN WALLS, ABOVE CEILING, OR UNDER SLAB, UNLESS NOTED OTHERWISE.
- PLUMBING CONTRACTOR SHALL BE PROVIDE AND INSTALL INDIRECT DRAINS TO FLOOR SINKS FOR ALL FOOD SERVICE EQUIPMENT REQUIRING DRAIN CONNECTIONS WITH INDIRECT DRAINS TO FLOOR SINKS.
- ITEM NUMBERS CORRESPOND TO FOOD SERVICE CONSULTANTS EQUIPMENT NUMBERS.
- ALL FOOD SERVICE EQUIPMENT, UNLESS OTHERWISE NOTED, PROVIDED AND INSTALLED BY FOOD SERVICE CONTRACTOR. PLUMBING CONTRACTOR TO ROUGH-IN AND CONNECT.
- FOR ADDITIONAL NOTES IN FOOD SERVICE AREA, SEE ARCHITECTURAL DRAWINGS.

PLUMBING FIXTURE CONNECTIONS						
MARK	DESCRIPTION	MIN BRANCH SIZE			TRAP	REMARKS
		W	V	CW		
WC-1	WATER CLOSET	3"	2"	1"	-	INTEGRAL
WC-2	WATER CLOSET	3"	2"	1"	-	INTEGRAL
WC-3	WATER CLOSET	3"	2"	1"	-	INTEGRAL
L-1	LAVATORY CUSTOM BUILT	1-1/2"	1-1/2"	1/2"	1/2"	1-1/2"
L-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	1-1/2"
U-1	URINAL	2"	1-1/2"	3/4"	-	INTEGRAL
U-2	URINAL	2"	1-1/2"	3/4"	-	INTEGRAL
S-1	SINK	2"	1-1/2"	1/2"	1/2"	1-1/4" x 1-1/2"
DF-1	DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	2" x 1-1/2"
MS-1	MOP SINK	2"	1-1/2"	1/2"	1/2"	2"
FD-1	FLOOR DRAIN	2"	1-1/2"	1/2"	-	2"
FS-1	FLOOR SINK	3"	2"	-	-	3" TRAP
RD-1	COMBINATION ROOF DRAIN/OVERFLOW DRAIN	-	-	-	-	4 5
HB-1	HOSE BIBB	-	-	3/4"	-	2
CW-1	CAN WASH	4"	2"	1/2"	1/2"	4"

- 1 ZURN Z415B BODY ASSEMBLY WITH TYPE "B" STRAINER, 5" Ø STRAINER, 2" PIPE SIZE. 2 ACORN MODEL L12-LF. 3 ZURN MODEL Z-1901, 12X12 A.R.E. SANI-FLO RECEPTOR, 8" SUMP DEPTH. 4 WATTS DUAL OUTLET ROOF DRAIN / OVERFLOW MODEL RD-700, 3" PIPE SIZE. 5 WATTS DOWNSPOUT NOZZLE, MODEL RD-940, 3" PIPE SIZE. 6 ZURN MODEL Z1982-NH-WB-11, 4" PIPE SIZE, 12" x 12" STAINLESS STEEL SANI-FLOOR CAN WASH DRAIN, 8" SUMP DEPTH. PROVIDE ZURN MODEL ZS464 WATER SUPPLY CONTROL BOX ASSEMBLY.

PLUMBING FIXTURE SPECIFICATION

FIXTURES SHALL BE COMPLETE WITH ALL FITTINGS, SUPPORTS, FASTENING DEVICES, FAUCETS, VALVES, 17 GAUGE TRAPS, STOPS, CAULKING AND APPURTENANCES REQUIRED. FIXTURE COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.

- WATER CLOSET WC-1: KOHLER "KINGSTON", MODEL K-4325. ELONGATED BOWL, 1-1/2" SPUD. 1.28 GPF, 17" RIM HEIGHT - TOP SPUD. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. FLUSH VALVE: KOHLER "TRIPPOINT", MODEL K-10956-SV TRIPOINT DC 1.28 GPF WC FLUSH VALVE. SEAT: CENTOCO OPEN FRONT TOILET SEAT, 1500STSCC. CARRIER: JAY R. SMITH, FIGURE 0210Y.
- WATER CLOSET WC-2: KOHLER "KINGSTON", MODEL K-4325. ELONGATED BOWL, 1-1/2" SPUD. 1.28 GPF, 15" RIM HEIGHT - TOP SPUD. FLUSH VALVE: KOHLER "TRIPPOINT", MODEL K-10956-SV TRIPOINT DC 1.28 GPF WC FLUSH VALVE. SEAT: CENTOCO OPEN FRONT TOILET SEAT, 1500STSCC. CARRIER: JAY R. SMITH, FIGURE 0209Y FOR URINAL/WATER CLOSET BACK TO BACK, FIGURE 0210Y FOR SINGLE INSTALLATION.
- WATER CLOSET WC-3: KOHLER "HIGHCLIFF ULTRA", MODEL K-96057. ELONGATED BOWL, 1-1/2" SPUD. 1.28 GPF, 15" RIM HEIGHT - TOP SPUD. FLUSH VALVE: KOHLER "TRIPPOINT", MODEL K-10956-SV TRIPOINT DC 1.28 GPF WC FLUSH VALVE. SEAT: CENTOCO OPEN FRONT TOILET SEAT, 1500STSCC.
- LAVATORY L-1: SLOAN GRADIENT ELGR SERIES, MODEL ELGR-83000, 3 STATION. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. FAUCET: SLOAN COMBINATION ESD-501. INCLUDES EPX-250-ISM FAUCET AND ESD-500 SOAP DISPENSER MODEL. 0.5 GPM. DRAIN: KOHLER MODEL K-7129-A GRID DRAIN. P-TRAP: MCGUIRE MODEL 8902CB SUPPLY & STOPS: MCGUIRE MODEL LFH2165LKN3 DRAIN COVER: MCGUIRE "PROWRAP", MODEL PW2000WC.
- LAVATORY L-2: KOHLER "KINGSTON" MODEL K-2005 SINGLE FAUCET HOLE, WALL MOUNTED LAVATORY. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. FAUCET: SLOAN MODEL EAF-700 OPTIMA SENSOR FAUCET. 0.5 GPM. HARDWIRED-POWERED DECK-MOUNTED GOOSENECK BODY. DRAIN: KOHLER MODEL K-7129-A GRID DRAIN. P-TRAP: MCGUIRE MODEL 8902CB SUPPLY & STOPS: MCGUIRE MODEL LFH2165LKN3 DRAIN COVER: MCGUIRE "PROWRAP", MODEL PW2000WC.
- URINAL U-1: KOHLER "DEXTER" MODEL K-5452-ET, 3/4" TOP SPUD. 0.125 GPF. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. FLUSH VALVE: KOHLER "TRIPPOINT" MODEL K-10949-SV, TOUCHLESS DC 0.125 GPF FLUSH VALVE. CARRIER: JAY R. SMITH URINAL CARRIER WITH BEARING PLATE MODEL 0637.
- URINAL U-2: KOHLER "DEXTER" MODEL K-5452-ET, 3/4" TOP SPUD. 0.125 GPF. FLUSH VALVE: KOHLER "TRIPPOINT" MODEL K-10949-SV, TOUCHLESS DC 0.125 GPF FLUSH VALVE. CARRIER: JAY R. SMITH URINAL CARRIER WITH BEARING PLATE MODEL 0637.
- SINK S-1: ELKAY "CELEBRITY" MODEL GECR2521. COUNTER MOUNTED SINK, 25"x21-1/4"x5-3/8" DEEP, SINGLE HOLE, 20 GAUGE, 304 STAINLESS STEEL. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. DRAIN: ELKAY DELUXE 3-1/4" TYPE 304 STAINLESS STEEL BODY. MODEL NUMBER LK99. FAUCET: KOHLER "CORALAS" SINK FAUCET, MODEL K-15175-F, SINGLE HOLE.
- DRINKING FOUNTAIN DF-1: ELKAY MODEL L2STDWVSRSK, EH20 BOTTLE FILLING STATION AND BI-LEVEL ADA COOLER, FILTERED NON-REFRIGERATED, STAINLESS STEEL. MUST MEET CALIFORNIA REQUIREMENTS FOR ADA. WALL CARRIER: ELKAY MODEL MLP200.
- MOP SINK MS-1: KOHLER "WHITBY" MODEL K-6710 FLOOR MOUNTED SERVICE SINK, PROVIDE MODEL K-8940 SINK RIM GUARD. FAUCET: KOHLER "KINLOCK" MODEL K-8907 SERVICE SINK FAUCET. 8" CENTERS WITH VACUUM BREAKER. DRAIN: KOHLER

VACUUM PUMP SCHEDULE											
MARK	DESCRIPTION	# OF PUMPS	SCFM EACH	VACUUM IN. HG	PUMP MOTOR		RECEIVER TANK (GAL)	WEIGHT		MAKE & MODEL	REMARKS
					HP	V/PH		PUMP	TANK		
VP-1	CHEMISTRY LABORATORY VACUUM PUMP	1	5	21	0.6	208/3	30	21	90	BECKER VT-4.10	1 2

- 1 INCLUDE ALL CONTROLS NECESSARY FOR AUTOMATIC ALTERNATION. 2 INCLUDE 30 GALLON RECEIVER TANK.

LABORATORY EQUIPMENT PLUMBING CONNECTIONS													
MARK	DESCRIPTION	ROUGH-IN SIZE (INCHES)										REMARKS	
		ID	W	V	AW	CW	HW	VAC	RO	DI	CA		CA PSI
LS-1	LABORATORY SINK	-	-	-	1-1/4	1-1/2	-	-	-	-	-	-	1 5
WA	GLASS WASHER	3/4"	-	-	-	-	-	3/4"	-	-	-	-	5 3
WP	WATER PURIFICATION SYSTEM	-	-	-	-	-	1/2"	-	-	-	-	-	5
EW-1	DECK MOUNTED EMERGENCY EYEWASH	-	-	-	-	-	1/2"	1/2"	-	-	-	-	2 5
EWS-1	EMERGENCY EYEWASH/SHOWER	-	2	1-1/2	-	1"	1"	-	-	-	-	-	2 5
FC-1	FAUCET, HOT AND COLD,	-	-	-	-	-	1/2"	1/2"	-	-	-	-	5
FC-2	VACUUM BALL VALVE	-	-	-	-	-	-	-	-	1/2"	-	-	5

- 1 PROVIDE 1-1/2" ACID WASTE TYPE P-TRAP. 2 PROVIDE POINT OF USE TEMPERING VALVE TO SUPPLY FIXTURE WITH TEPID WATER. GUARDIAN MODEL G3800LF. SEE DIV 07 SPECIFICATION FOR ADDITIONAL REQUIREMENTS. 3 DI WATER FED FROM MIH-Q SYSTEM. 4 PROVIDE METAL ROUGH-IN BOX WITH 1/2" CW WITH QUARTER TURN ANGLE STOP AND BLANK-OFF WALL PLATE FOR FUTURE WATER CONNECTION TO AUTOCLAVE. 5 SEE LABORATORY DRAWINGS FOR FIXTURE MODELS AND SPECIFICATIONS.

WATER HEATERS									
MARK	LOCATION	GAL CAP	MBH IN	ELECT		RECOVERY @ 80° F RISE	FULL WT	MAKE & MODEL	REMARKS
				KW	V/PH				
WH-1	MECH A160	50	-	6	208/1	30 GPH	572 LBS.	RHEEM ELD52-TB	1
WH-2	MECH A132	50	-	6	208/1	30 GPH	572 LBS.	RHEEM ELD52-TB	1
WH-3	MEP A114	80	-	6	208/1	30 GPH	886 LBS.	RHEEM ELD80-TB	2
WH-4	MEP A114	80	-	12	208/1	61 GPH	886 LBS.	RHEEM ELD80-TB	1
EW-1	TRASH ENCLOSURE	12	-	4	480/1	18 GPH	140 LBS.	BRADFORD WHITE LEH2W3-1	

- 1 SIMULTANEOUS ELEMENTS. 2 NON-SIMULTANEOUS ELEMENTS.

PUMPS									
MARK	GPM	TDH FT	BHP	MOTOR			WT LBS	MAKE & MODEL	REMARKS
				RPM	HP	V/PH			
CP-1	1.5	20	-	HIGH SPEED	0.16	120/1	8	ARMSTRONG ASTRO 2505SU-TA	1
CP-2	1.5	20	-	HIGH SPEED	0.16	120/1	8	ARMSTRONG ASTRO 2505SU-TA	1
CP-3	1.5	20	-	HIGH SPEED	0.16	120/1	8	ARMSTRONG ASTRO 2505SU-TA	1
CP-4	1.5	20	-	HIGH SPEED	0.16	120/1	8	ARMSTRONG ASTRO 2505SU-TA	1
CP-5	1.5	20	-	HIGH SPEED	0.16	120/1	8	ARMSTRONG ASTRO 2505SU-TA	1

- 1 PUMP WITH 24 HR TIMER, AQUASTAT AND LINE CORD



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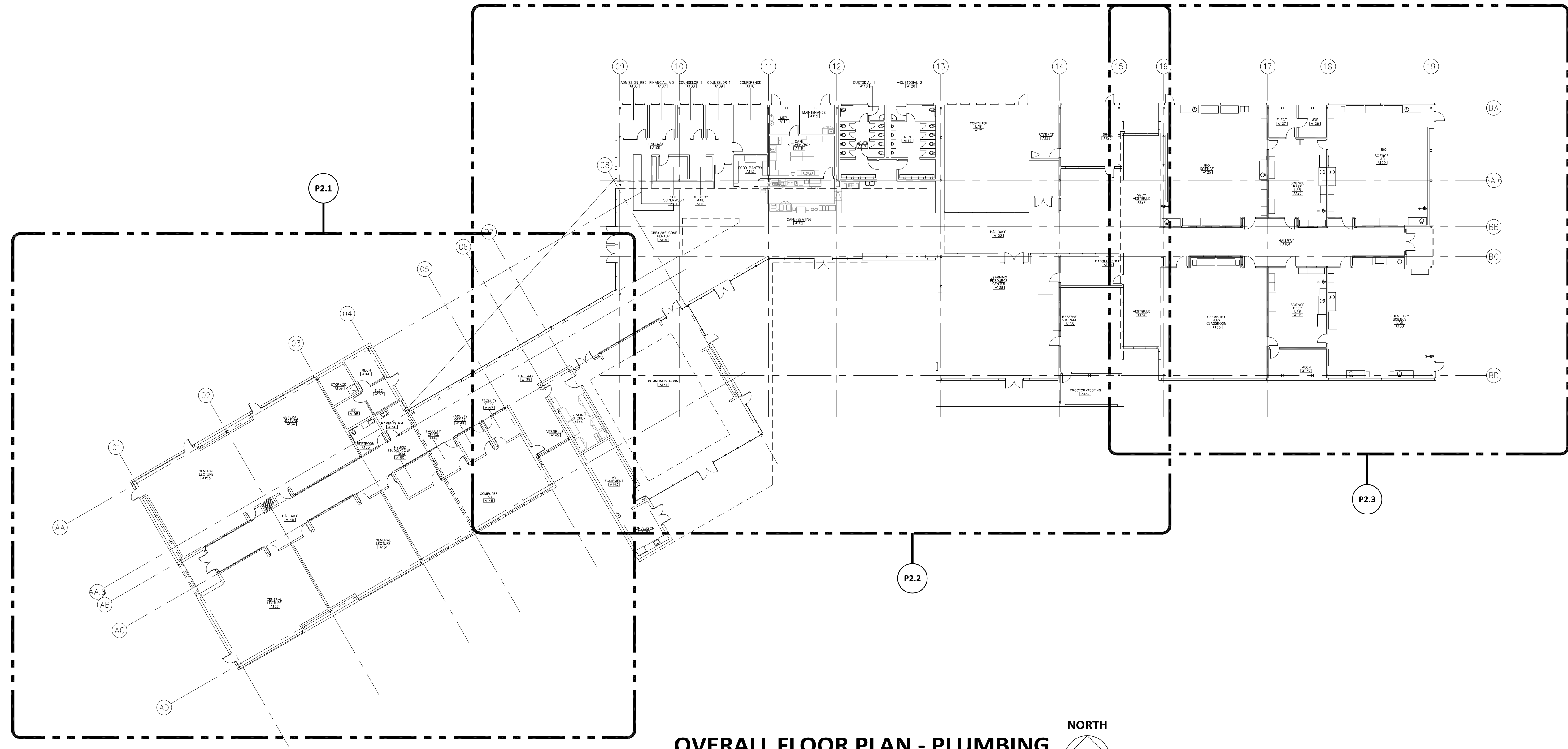
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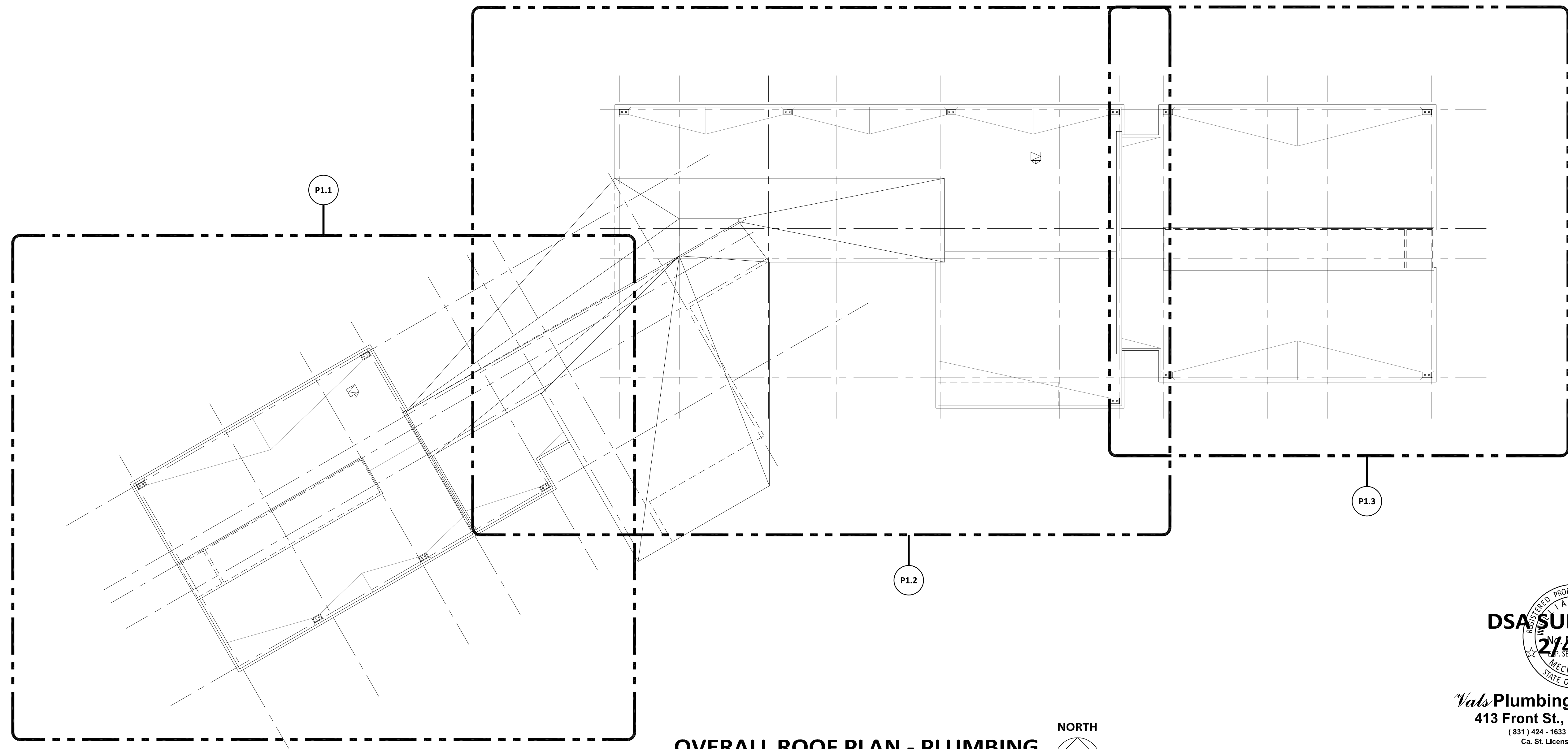
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OVERALL FLOOR PLAN - PLUMBING
SCALE: 1" = 20'-0"



OVERALL ROOF PLAN - PLUMBING
SCALE: 1" = 20'-0"



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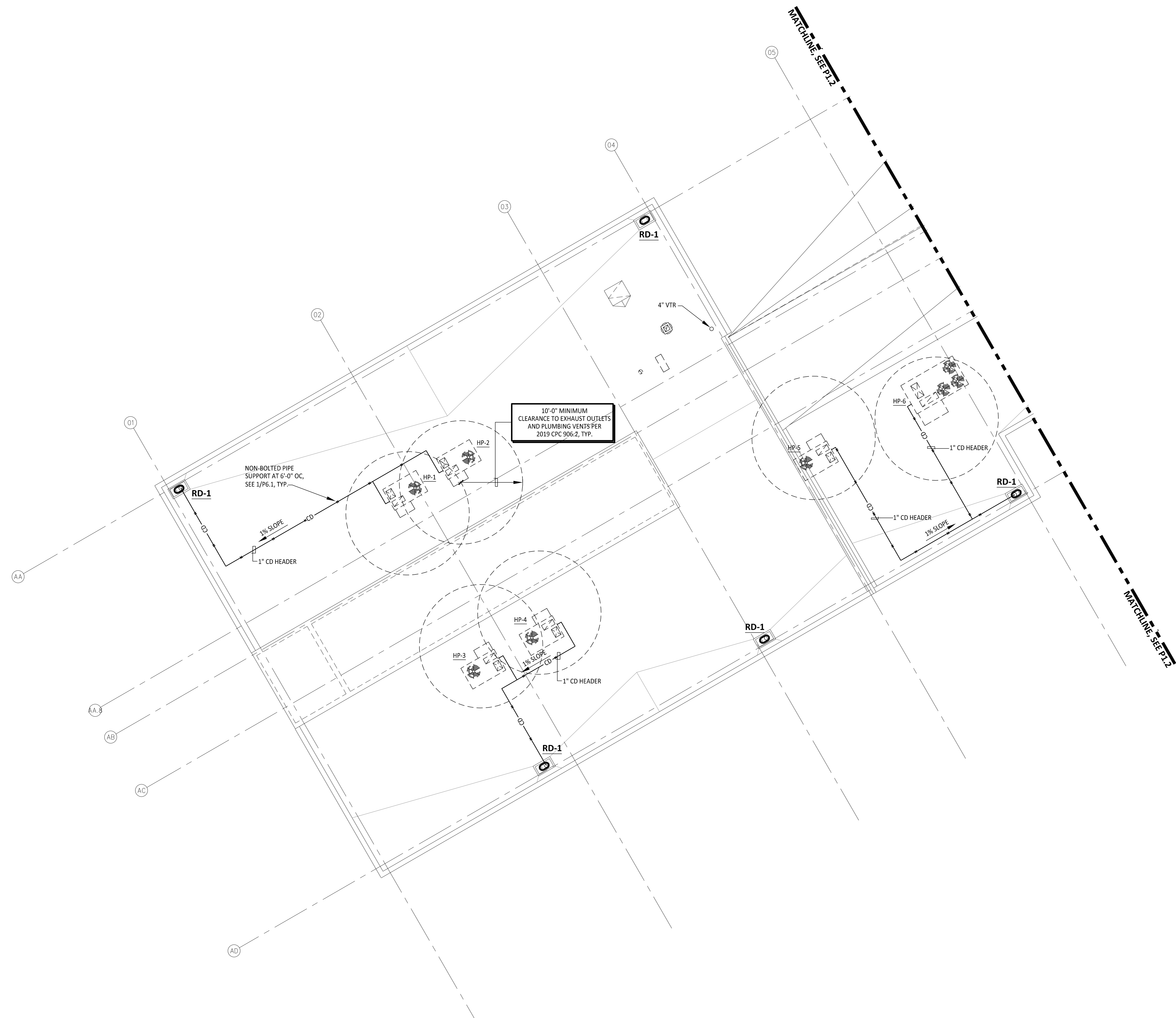
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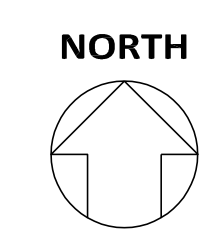
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SECTOR A ROOF PLAN - PLUMBING
 SCALE: 1/8" = 1'-0"



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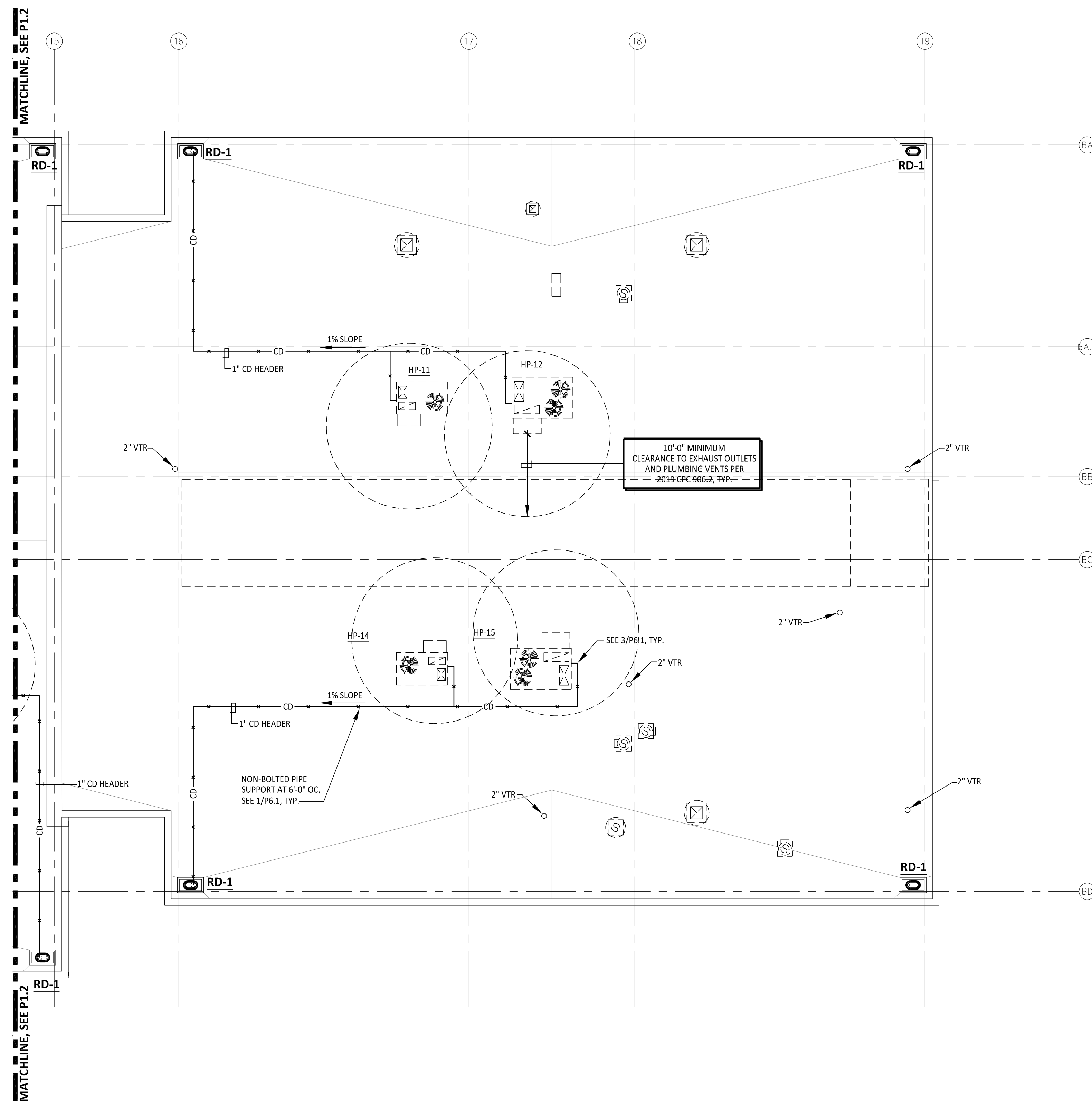
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SECTOR A
 ROOF PLAN
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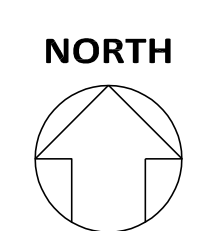
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SECTOR C ROOF PLAN - PLUMBING

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



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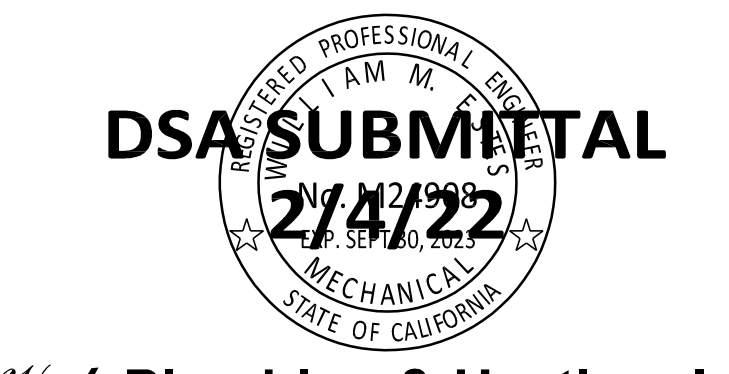
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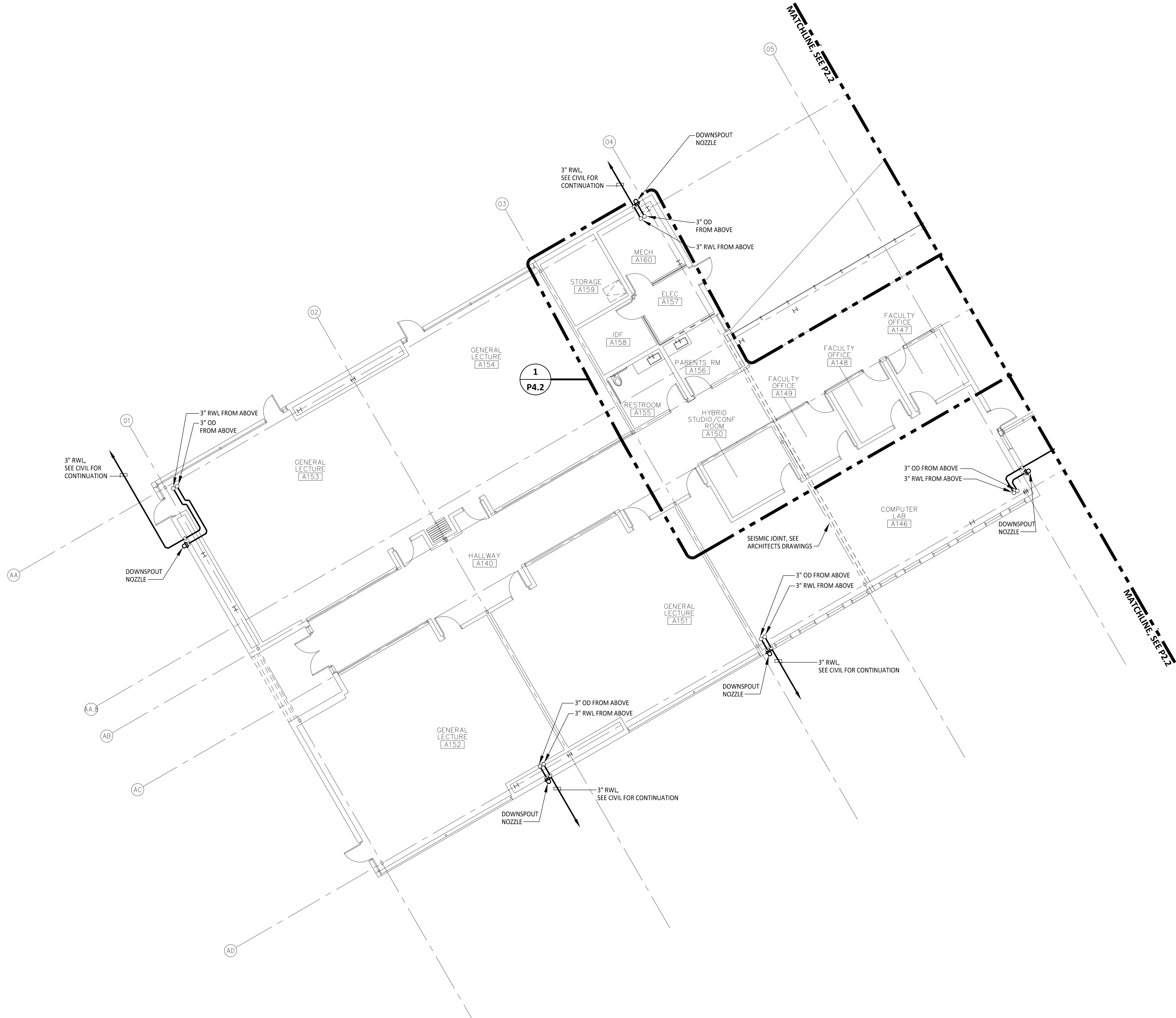
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SECTOR A FLOOR PLAN - PLUMBING
 SCALE: 1/8" = 1'-0"
 NORTH

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 Main:
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 East Bay
 55 Harrison Street, Suite 525
 Oakland, CA 94607
 (707) 576-0829

Gensler
 45 Fremont Street
 Suite 1500
 San Francisco, CA 94105
 United States
 Tel: 415.433.3700
 Fax: 415.836.4596

GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
HOLLISTER, CA 95023

GAVILAN JOINT
COMMUNITY COLLEGE
DISTRICT

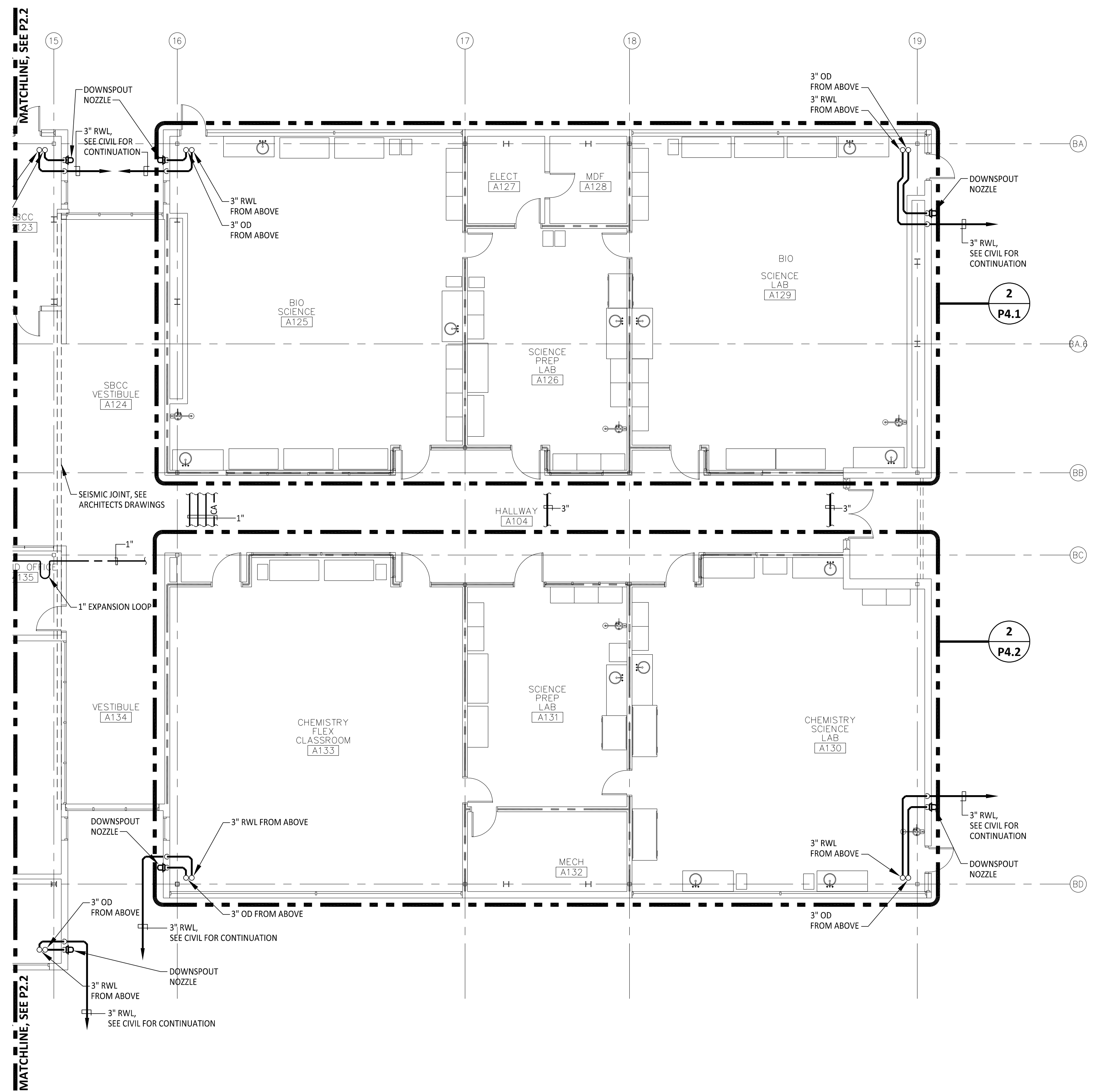
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 FEBRUARY 4, 2022
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 (831) 424-1633 F (831) 754-5514
 Ca. St. License No. 236164

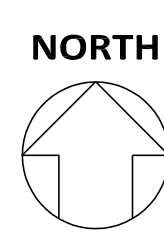
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SECTOR C FLOOR PLAN - PLUMBING

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



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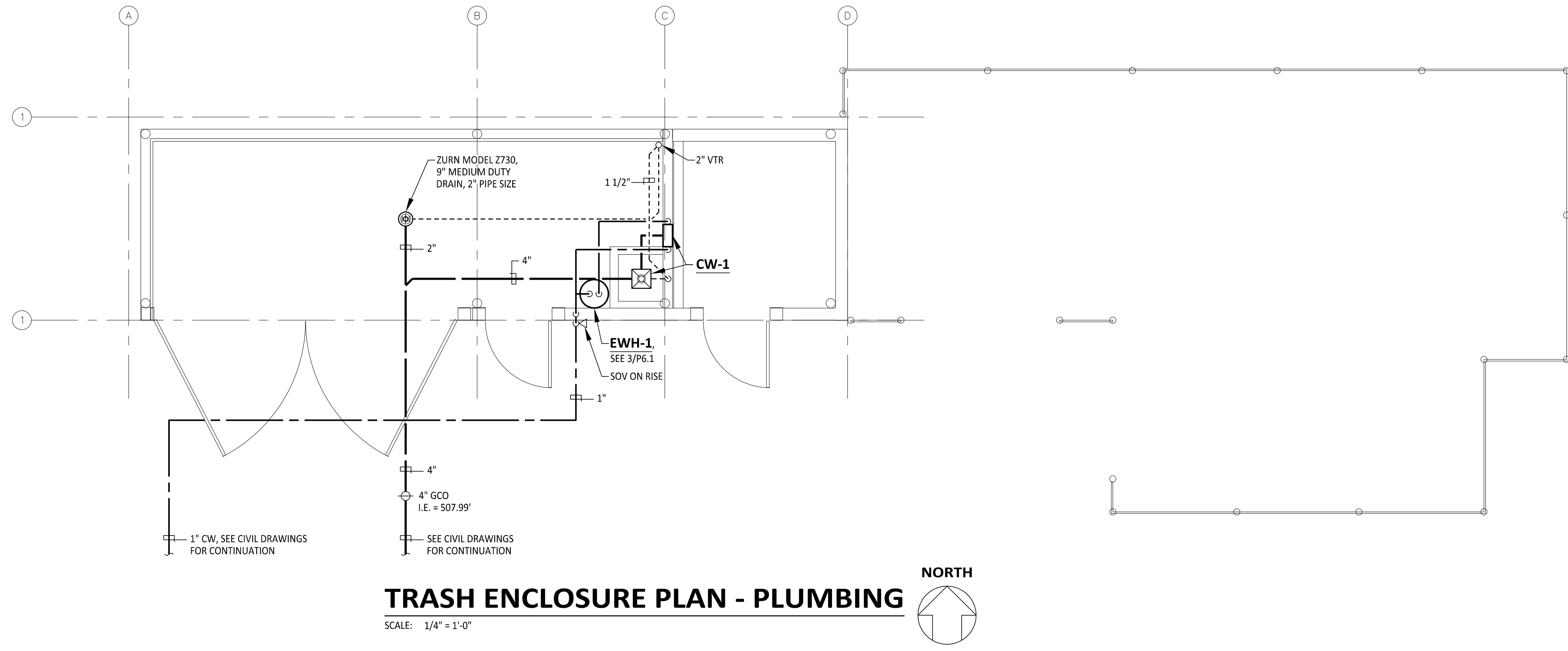
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SECTOR C FLOOR PLAN PLUMBING
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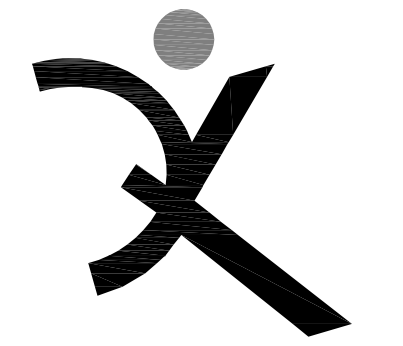
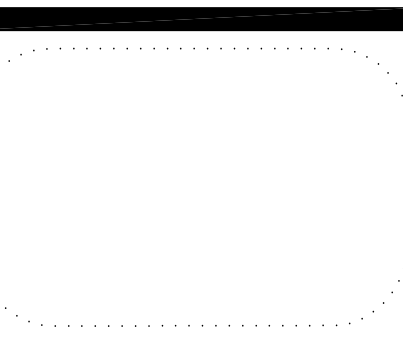
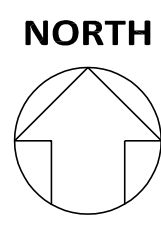
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TRASH ENCLOSURE PLAN - PLUMBING

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



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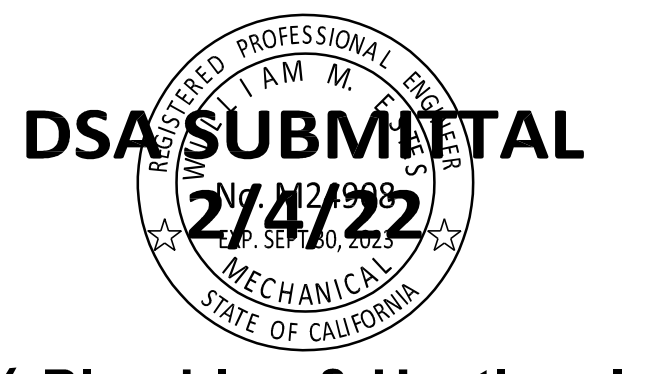
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SHEET TITLE

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SHEET NUMBER

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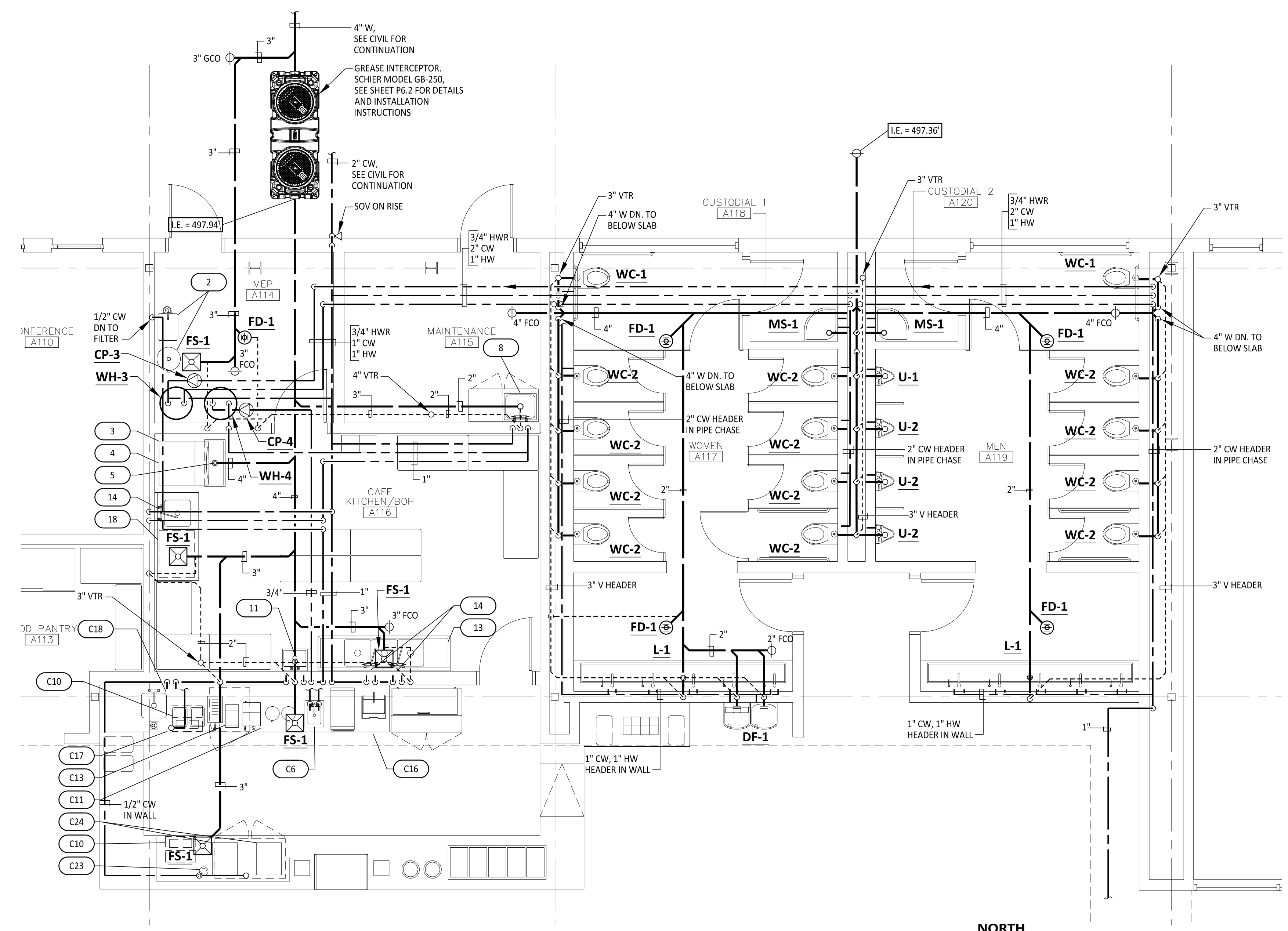


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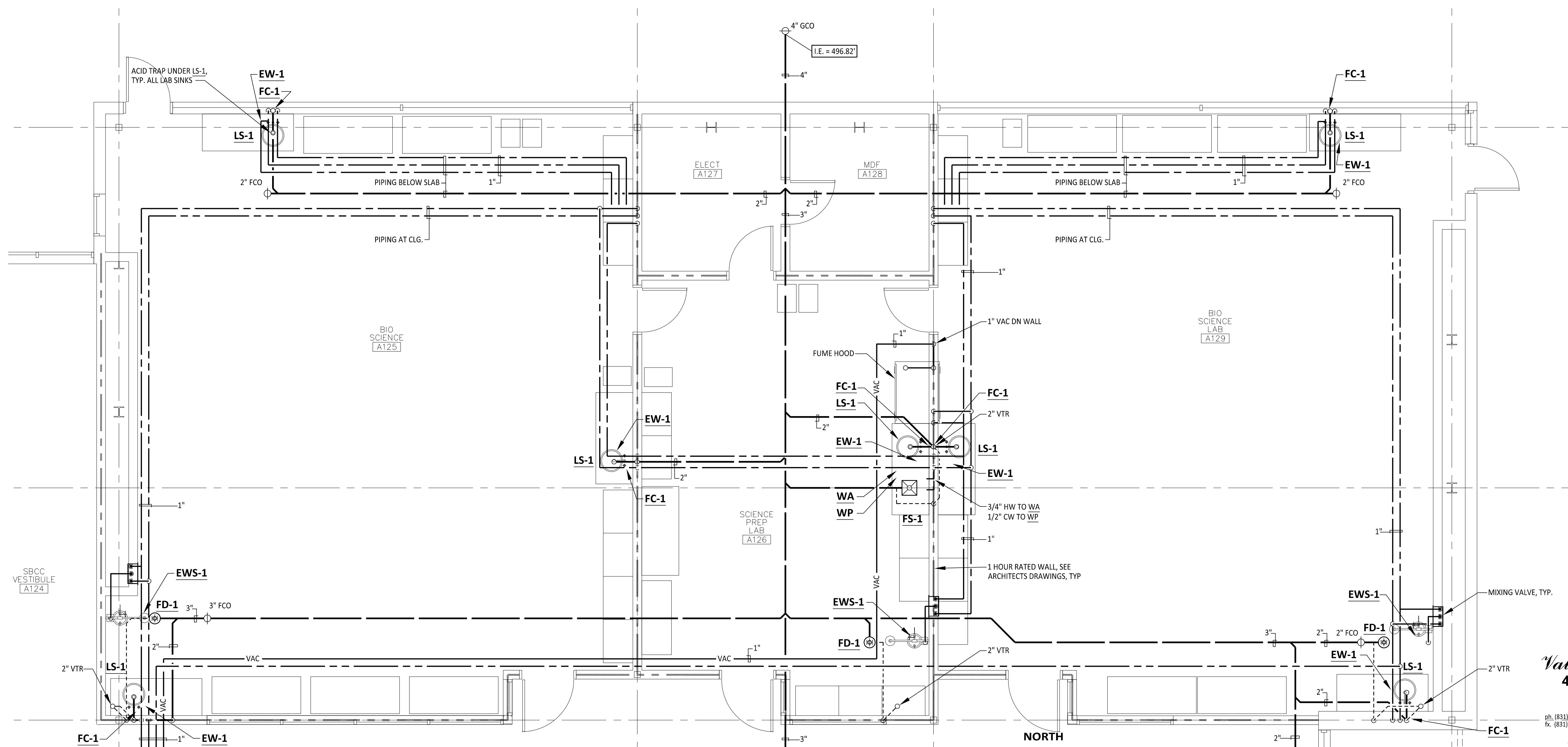
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 www.axiomengineers.com



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 22 Lower Ridge Rd., Suite A
 Monterey, California 93940-5788



1 PARTIAL FLOOR PLAN - PLUMBING
 SCALE: 1/4" = 1'-0"
 F.F.E. = 503.00



2 PARTIAL FLOOR PLAN - PLUMBING
 SCALE: 1/4" = 1'-0"
 F.F.E. = 503.00

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PARTIAL FLOOR PLANS PLUMBING
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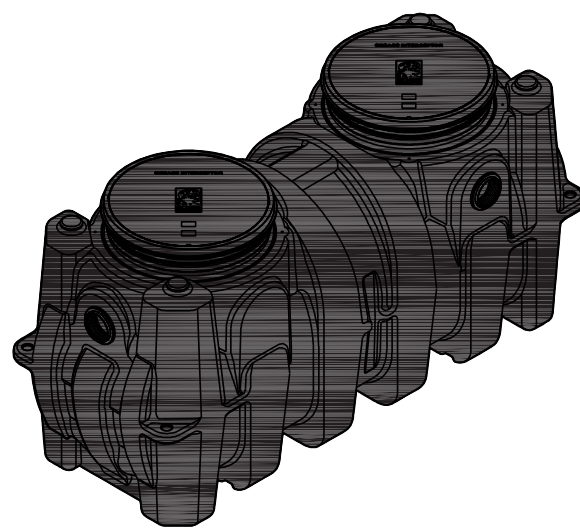
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INSTALLATION GUIDE

GB-250 100/200 GPM Great Basin™ Indoor/Outdoor Grease Interceptor



Contents

- Special Precautions 2-3
- Getting to Know the GB-250 4
- Installation 5-11

Part #: 4056-00-02

Find these instructions online at: schierproducts.com/gb-250



88-98-8888 | schierproducts.com
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SPECIAL PRECAUTIONS

For Schier grease interceptor installations - follow to follow this guidance voids your warranty

WARNING! DO NOT AIR TEST UNIT OR BENCH SYSTEM. Doing so may result in property damage, personal injury or death.

CAUTION! Do not install this unit in any manner except as described in these instructions.

Installation Instructions
Installation instructions and additional components are included with the interceptor. Read all instructions prior to installation. The interceptor is intended to be installed by a licensed plumber in accordance with all local codes.

Intercepter Installation
Install the interceptor as close as possible to the fixture being served.

Provide an Inlet or Outlet
Provide an inlet or outlet for the interceptor.

High Temperature (Kitchen) Interceptor
Cold water supply line
High temperature approved isolation prevention assembly
City (clean water temperature)

Support Inlet and Outlet Piping
For above grade installations ensure heavy inlet and outlet piping (cast iron or long run) is properly supported or braced to prevent connection failure or collapse to adjacent fittings.

Supersaturated Installation
Design traps to support the wet weight of the unit. Do not partially support unit or suspend unit using inlet or outlet piping.

Water in Interceptor at Excessive Temperature
Cover top of unit with a clean water temperature (150°F) and approved isolation prevention assembly must be installed. Avoid static and local plumbing codes may require the assembly cover. Water above 150°F will weaken or deform PVC Schedule 40 pipe. Only drainage fixture for interceptors and ensure the coating of cast iron (leading to vent stack failure).

DO NOT USE COUPLERS
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Use composite cover C2462 for above grade installations.

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Schier | GB-250 Installation Guide page 2 of 11

SPECIAL PRECAUTIONS

For Schier grease interceptor installations - follow to follow this guidance voids your warranty

WARNING! DO NOT AIR TEST UNIT OR BENCH SYSTEM. Doing so may result in property damage, personal injury or death.

CAUTION! Do not install this unit in any manner except as described in these instructions.

Secure Cover Adapters
Cover adapters must be secured to base units in above grade installations with increased roof pressure conditions. Use cover adapter tie-down kit model kit.

High Water Table Installations
Interceptors and drains are not designed to withstand water table height in excess of the top of the unit when buried (see Fig. 1). It is possible for air to occur, treat the interceptor and install a water-tight concrete seal or install with concrete or masonry. If base concrete or masonry sealant should be poured in place to avoid creating the interceptor). At risk areas include but are not limited to local surge areas, floodplains and areas that receive storm water. Check local code for areas that are subject to high water table scenarios must be installed with an anchor kit model kit (see model kit anchor kit).

Hydrated/Prepacked Slabs
When installed under a hydrate slab (also designed to prevent upward lift, usually caused by hydrostatic pressure) interceptor must be anchored in a rebar grid concrete vault.

Concrete Slab Adapted to Hydrostatic Pressure
When installed under a hydrate slab (also designed to prevent upward lift, usually caused by hydrostatic pressure) interceptor must be anchored in a rebar grid concrete vault.

Corrugated Inlet Pipe Requirements
Inlet adapter model kit must be used when installing support pipe or riser. This will ensure that the cover adapter in the concrete slab preventing cover/corrupture failure under traffic road loads.

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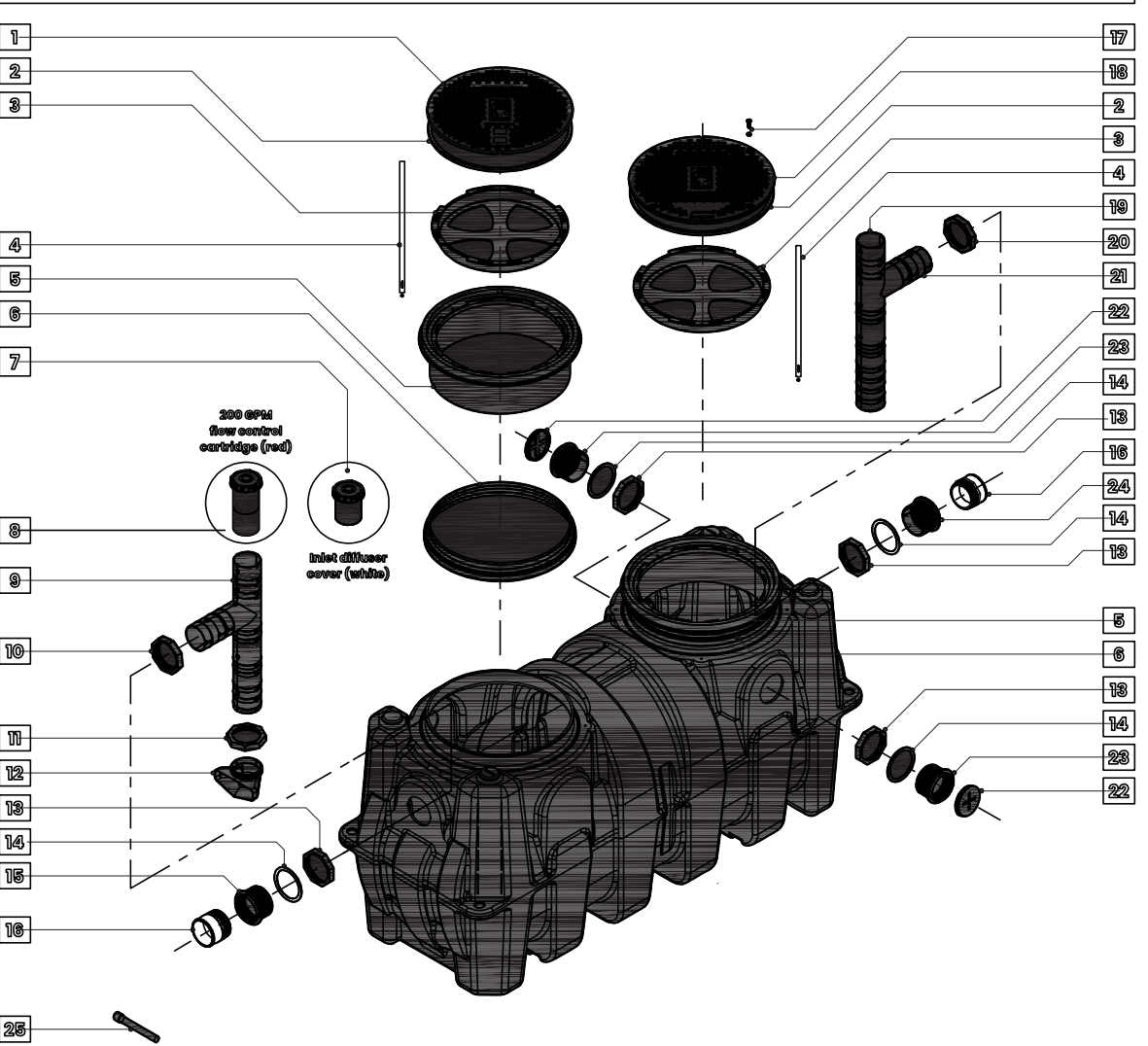
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Schier | GB-250 Installation Guide page 3 of 11

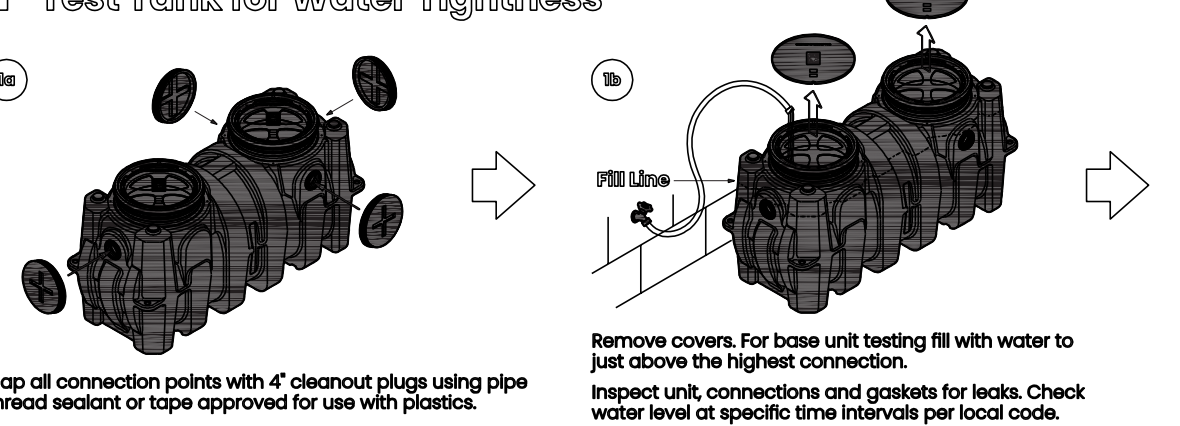
GETTING TO KNOW THE GB-250



1. Flange cast iron cover (standard)
2. Cover gasket
3. Safety Star™ access restrictor (x2)
4. Safety Star™ cover (x2)
5. Cover adapter (x2)
6. Cover adapter gasket
7. Inlet diffuser cover (x2)
8. Flow control cartridge (for 1" below 100 GPM only), see page 7 for more information.
9. Inlet diffuser
10. Inlet diffuser retaining nut
11. Inlet diffuser foot
12. Inlet diffuser (foot)
13. Bulkhead connection retaining nut
14. Bulkhead connection gasket (optional) 4" PTFE
15. Inlet bulkhead connection 4" PTFE
16. 4" plain end fitting (x2)
17. Composite cover bolts and washers (x8)
18. Bolted composite cover (optional)
19. Air relief/vent access
20. Outlet diffuser retaining nut
21. Outlet diffuser
22. 4" cleanout plug (x2)
23. Outlet bulkhead connection (optional) 4" PTFE
24. Outlet bulkhead connection (standard) 4" PTFE
25. 7/16" nut driver bit

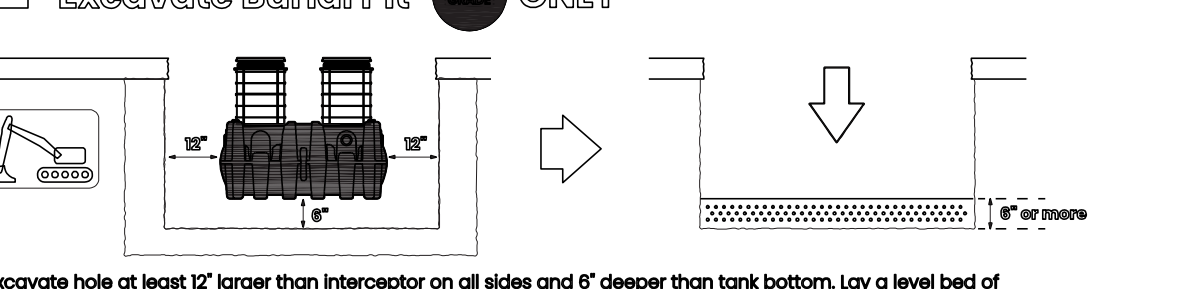
Schier | GB-250 Installation Guide page 4 of 11

1 Test Tank for Water Tightness



Have a Leak?
Call customer care at 913-951-3300
Hours 8am-5pm CST, M-F

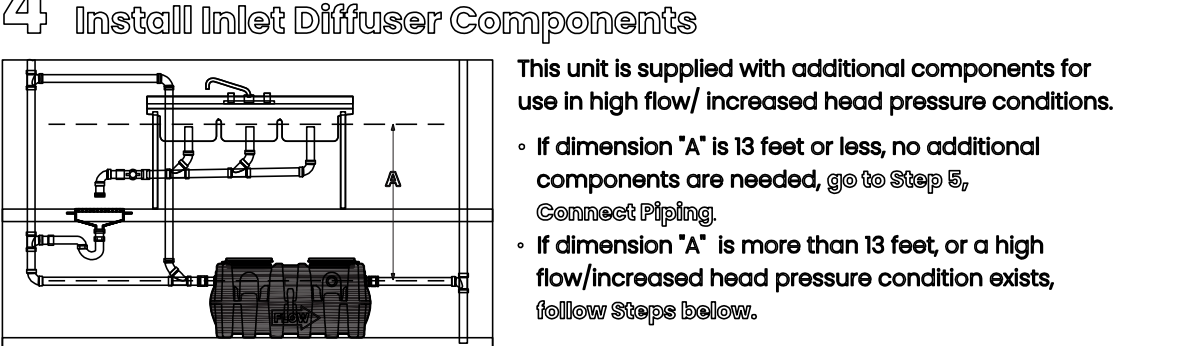
2 Excavate Burial Pit ONLY



Excavate hole at least 12" larger than interceptor on all sides and 6" deeper than tank bottom. Lay a level bed of well-graded, crushed aggregate (approximately 3/4" size rock or sand, with no fines) in the base of hole.

Schier | GB-250 Installation Guide page 5 of 11

4 Install Inlet Diffuser Components



100 GPM
Install inlet diffuser cover (x2) and gasket.

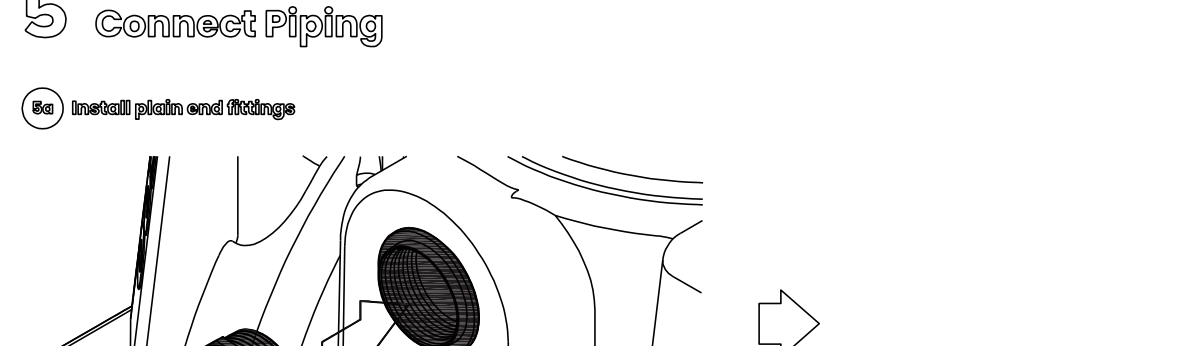
200 GPM
Install inlet diffuser cover (x2) and gasket.

Install Inlet Diffuser Components
Remove Safety Star™ insert and remove inlet diffuser cover or flow control cartridge from the parts bag. Slide chosen component into top of inlet diffuser and rotate clockwise until cartridge drops onto the retaining pins. Continue rotating clockwise until pins are fully seated.

OPTIONAL: Inlet Diffuser Handles
For easy inlet diffuser cover or flow control cartridge removal in deep burial installations, 1 1/2" PVC SCH 40 pipe can be used as handles. Before handles have been installed, cut pipe to length and attach to top of cover using PVC primer and cement. Handle length should be about 12" shorter than total floor height.

Schier | GB-250 Installation Guide page 7 of 11

5 Connect Piping



Connect Inlet and Outlet Piping
Screw pipe and fittings (included) into bulkhead fittings using pipe thread sealant or tape approved for use with plastics. If connection types come pre-installed from the factory.

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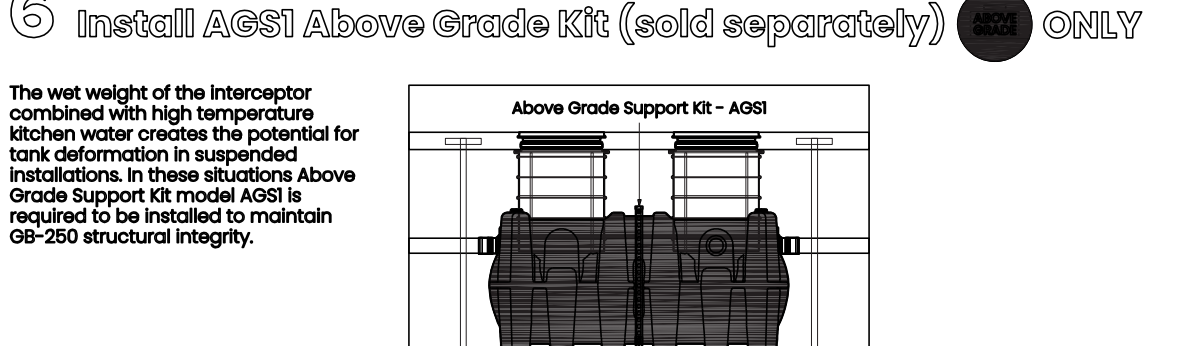
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6 Install AGSI Above Grade Kit (sold separately) ONLY



AGSI Above Grade Kit
The wet weight of the interceptor combined with high temperature kitchen water creates the potential for tank deformation in suspended installations. In these situations Above Grade Support Kit (AGSI) is required to be installed to maintain GB-250 structural integrity.

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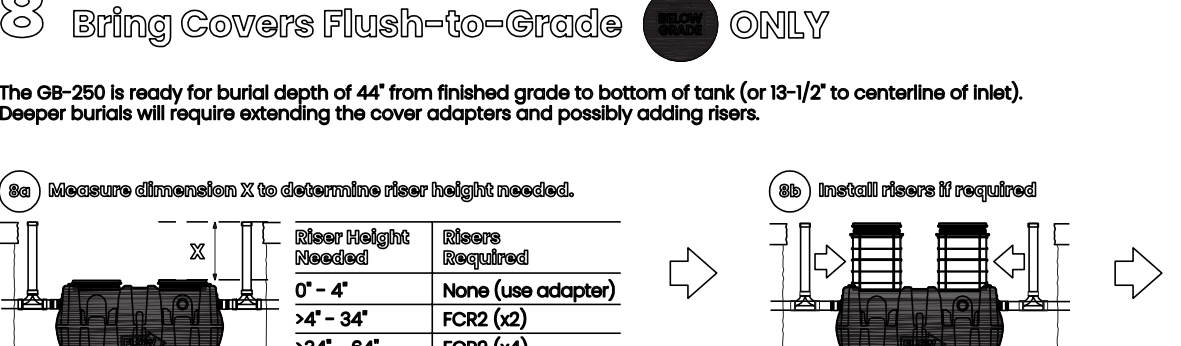
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8 Bring Covers Flush-to-Grade ONLY



Bring Covers Flush-to-Grade
The GB-250 is ready for burial depth of 44" from finished grade to bottom of tank (or 13-1/2" to centerline of tank). Deeper burials will require extending the cover adapters and possibly adding wires.

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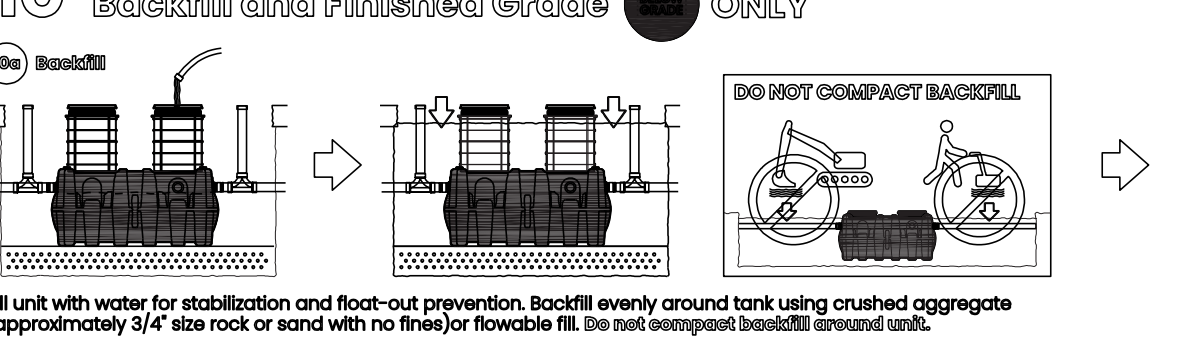
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9 Install Anti-Flootation Ancher Kit ONLY



Anti-Flootation Ancher Kit
If the installation location is a high water table or at risk area (including but not limited to tidal surge areas, floodplains and areas that receive storm water) the GB-250 must be installed with Schier model AGI anchor kit.

Anti-Flootation Ancher Kit
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Anti-Flootation Ancher Kit
If the installation location

DESIGN CRITERIA

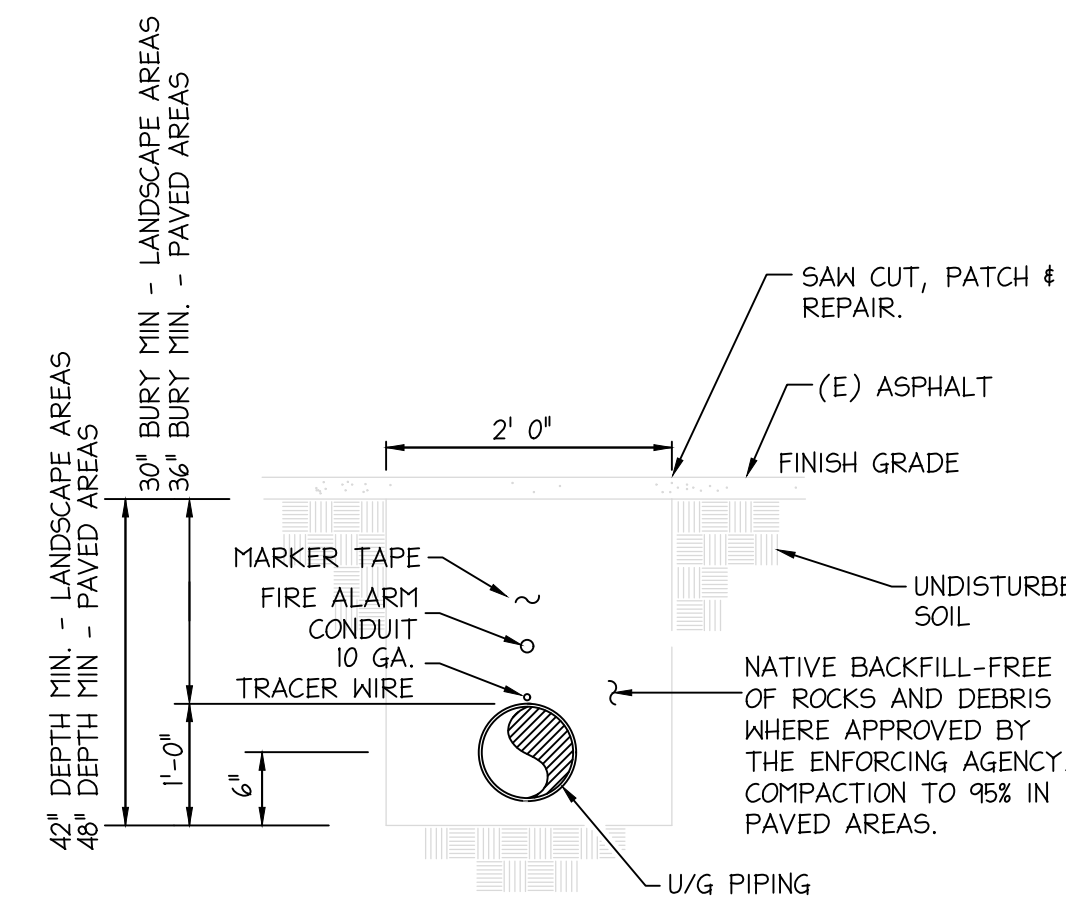
AUTHORITY HAVING JURISDICTION:	DSA
STANDARD:	NFPA 13 (2016 EDITION WITH CFC AMENDMENTS)
FIRE FLOW:	2019 CFC, APPENDIX BB TABLE BB05.1: NEW BUILDING WITH FIRE SPRINKLERS 1500 GPM PER SECTION BB05.
HYDRANT SPACING:	2019 CFC, APPENDIX CC TABLE CC05.1 1500 GPM = 500 FT AVERAGE SPACING REQUIRED. 300 FT AVERAGE SPACING PROVIDED.
SCOPE OF WORK:	INSTALL ONSITE FIRE HYDRANTS, BACKFLOW PREVENTION, CONTROL VALVES AND SUPPLIES TO NEW BUILDING FIRE SPRINKLER SYSTEM RISER.
FACILITY USAGE:	SCHOOL

UNDERGROUND INSTALLATION NOTES

- 1) ALL MATERIALS AND METHODS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 24 CHAPTER 10 (2016) AS AMENDED BY THE 2019 CFC & CSFM.
- 2) ALL INSTALLATION TO BE PER NFPA 24 10.9 (2016) AS AMENDED BY THE 2019 CFC & CSFM.
- 3) ALL MATERIALS TO BE NEW, UL LISTED AND/OR NFPA APPROVED.
- 4) THRUST BLOCKING SHALL BE PLACED AND FORMED PER NFPA 24 SECTION 10.6.1, OR A RESTRAINED JOINT SYSTEM UTILIZING MECHANICAL JOINTS WITH SET SCREEN RETAINER GLANDS, PER SECTION 10.6.2.
- 5) U/G PIPING TO BE PVC, C-900, CLASS 235, DR18 OR DUCTILE IRON CLASS 52.
- 6) ALL UNDERGROUND PIPE IN VERTICAL POSITION TO BE DUCTILE IRON.
- 7) U/G FITTINGS TO BE DUCTILE IRON, CLASS 350 W/MECHANICAL JOINTS.
- 8) PIPING SHALL HAVE A MINIMUM BURY OF 36 INCHES BELOW GRADE.
- 9) U/G PIPE TO BE FLUSHED PER NFPA 24, SEC. 10.10.2.1.
- 10) U/G PIPING TO BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS PER NFPA 24, SEC. 10.10.2.2. PIPE TO BE CENTER LOADED FOR TESTING.
- 11) VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE PROCEEDING WITH INSTALLATION.
- 12) WATER FLOW INFORMATION: 74 STATIC, 50 RESIDUAL WITH 1,758 GPM FLOWING

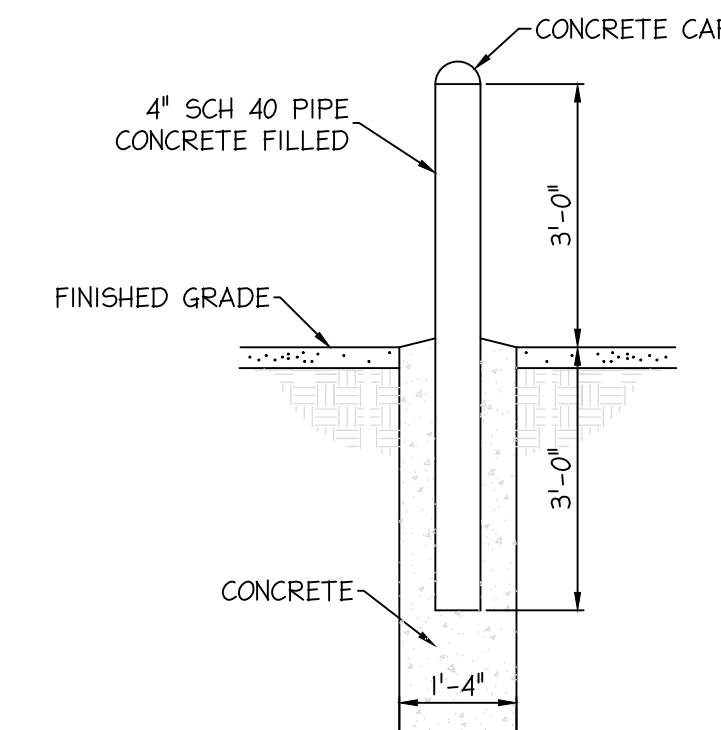
GENERAL NOTES

- 1) DETAILS AND DIMENSIONS OF CONSTRUCTION SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR. MINOR MODIFICATIONS TO THE DESIGN SHOWN WILL BE REQUIRED DUE TO FIELD CONDITIONS. ANY CHANGES MADE SHALL IN NO WAY EFFECT THE SPECIFIED PERFORMANCE OF THE FIRE SYSTEM. MAJOR DEVIATIONS FROM THE ORIGINAL DESIGN MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION. UNAUTHORIZED CHANGES TO THESE DRAWINGS ARE NOT THE RESPONSIBILITY OF NEXUS ENGINEERING.
- 2) OWNERSHIP OF DOCUMENTS: THESE DOCUMENTS, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF NEXUS ENGINEERING AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF NEXUS ENGINEERING.
- 3) ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL, COUNTY, STATE, OR FEDERAL AGENCIES HAVING JURISDICTION. NEXUS ENGINEERING ASSUMES NO RESPONSIBILITY FOR SUPERVISION OF CONSTRUCTION OR PROPER EXECUTION OF THE WORK SHOWN ON THESE DRAWINGS. SAFETY METHODS AND TECHNIQUES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



NOTES: BACKFILL SHALL BE WELL TAMPED IN LAYERS OR IN PUDDLES UNDER AND AROUND PIPES TO PREVENT SETTLEMENT OR LATERAL MOVEMENT. BACKFILL SHALL CONSIST OF CLEAN FILL SAND OR FEA GRAVEL TO A MINIMUM 6\"/>

1 TRENCH DETAIL
FP0.01 SCALE: NONE

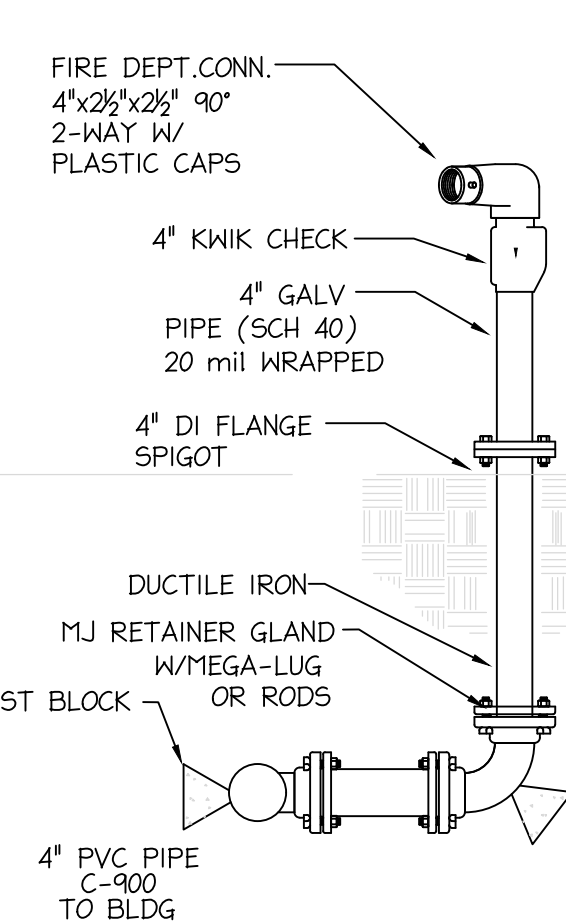


2 PIPE BOLLARD DETAIL
FP0.01 SCALE: NONE

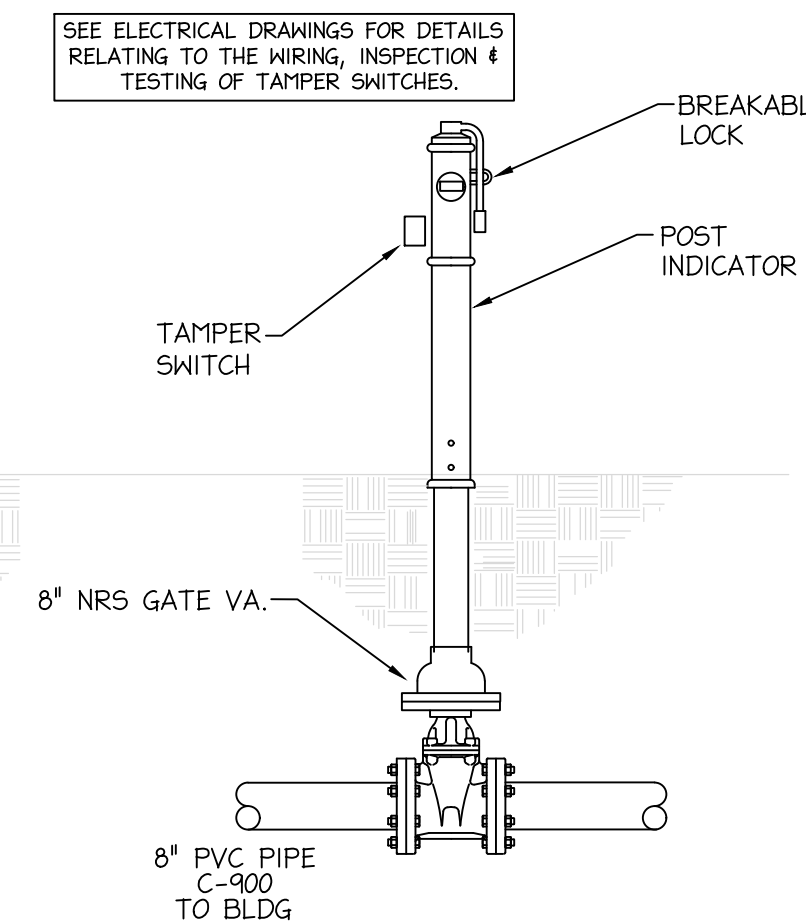
THRUST BLOCK DESCRIPTION	THRUST BLOCK DESCRIPTION			
	PIPE SIZE	SURFACE AREA SQ. FT.	THICKNESS (INCHES)	THRUST FORCE
HORIZONTAL BEND	22-1/2\"/>			
	4\"/>			
	6\"/>			
	8\"/>			
	12\"/>			
HORIZONTAL TEE	45\"/>			
	4\"/>			
	6\"/>			
	8\"/>			
	12\"/>			
VERTICAL BEND	90\"/>			
	4\"/>			
	6\"/>			
	8\"/>			
	12\"/>			
VERTICAL BEND	TEES and DEADENDS			
	4\"/>			
	6\"/>			
	8\"/>			
	12\"/>			
HYDRANT BURY	USE 144 LBS PER CUBIC FT FOR GRAVITY BLOCKS			
	4\"/>			
	6\"/>			
	8\"/>			
	12\"/>			

- NOTES:
1. ALL VALUES SHOWN ARE MINIMUM FOR A DESIGN PRESSURE OF 150 PSI AND A SOIL RESISTANCE OF 2000 LBS/50 FT WITH THRUSTBLOCK MINIMUM OF 2 FT OF COVER AND VELOCITY OF 10 FPS.
 2. ALL THRUST BLOCKS SHALL BE MADE OF CLASS 150 CONCRETE WITH A MINIMUM CRUSHING STRENGTH OF 2000 PSI @ 28 DAYS.
 3. ALL BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL. THE BLOCKS SHALL BE PLACED SO THAT JOINTS AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS.
 4. FOR VERTICAL BENDS, ALL METALLIC TIE-DOWNS SHALL BE INCASED WITH POLYETHYLENE WRAP (8 MIL MIN) AS SPECIFIED IN ANNA C105.
 5. ALL THRUST BLOCKS SHOULD HAVE A MINIMUM BLOCK WIDTH OF 1 TO 2 TIMES THE BLOCK HEIGHT. THE BLOCK HEIGHT SHOULD NOT BE LESS THAN THE OUTSIDE DIAMETER OF THE PIPE.

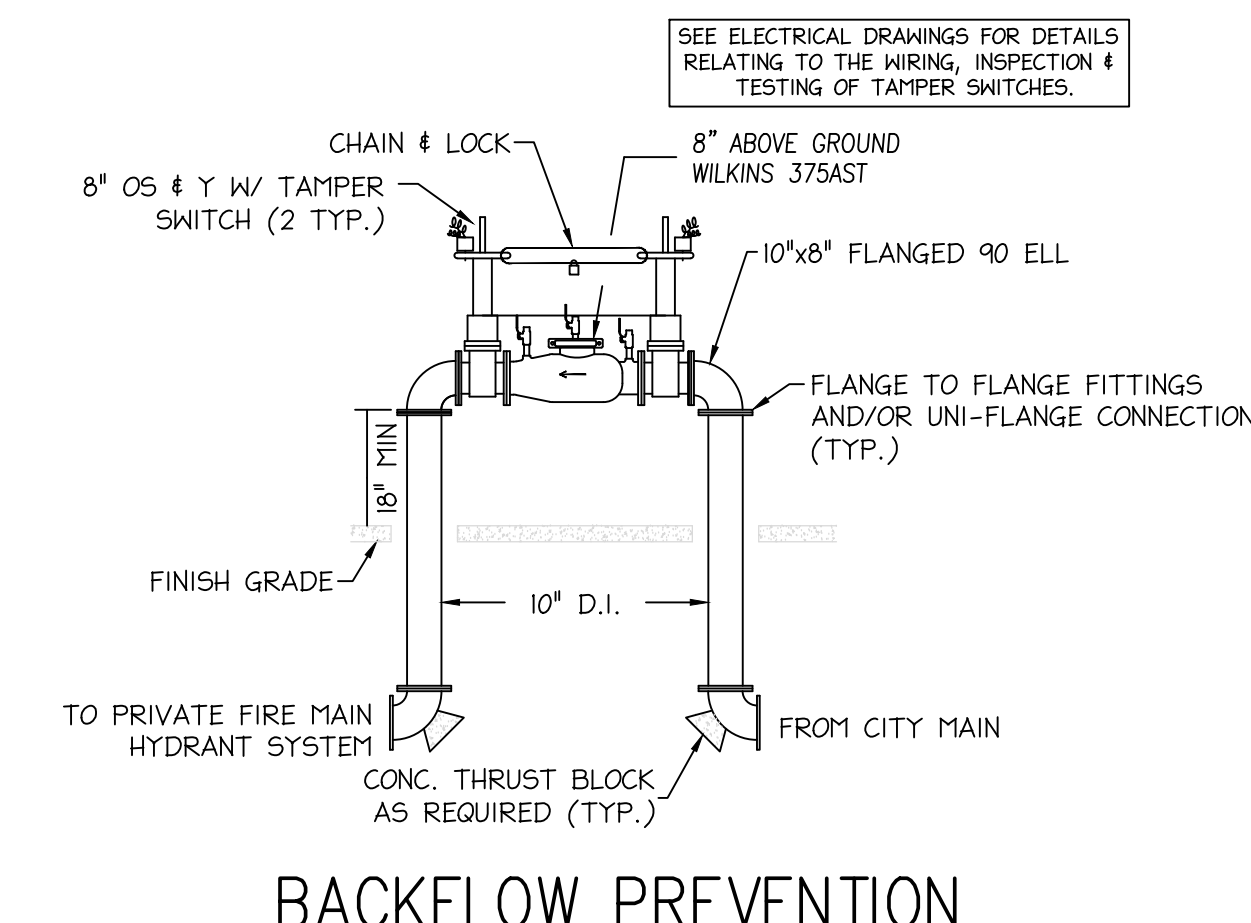
3 THRUST BLOCK SCHEDULE
FP0.01



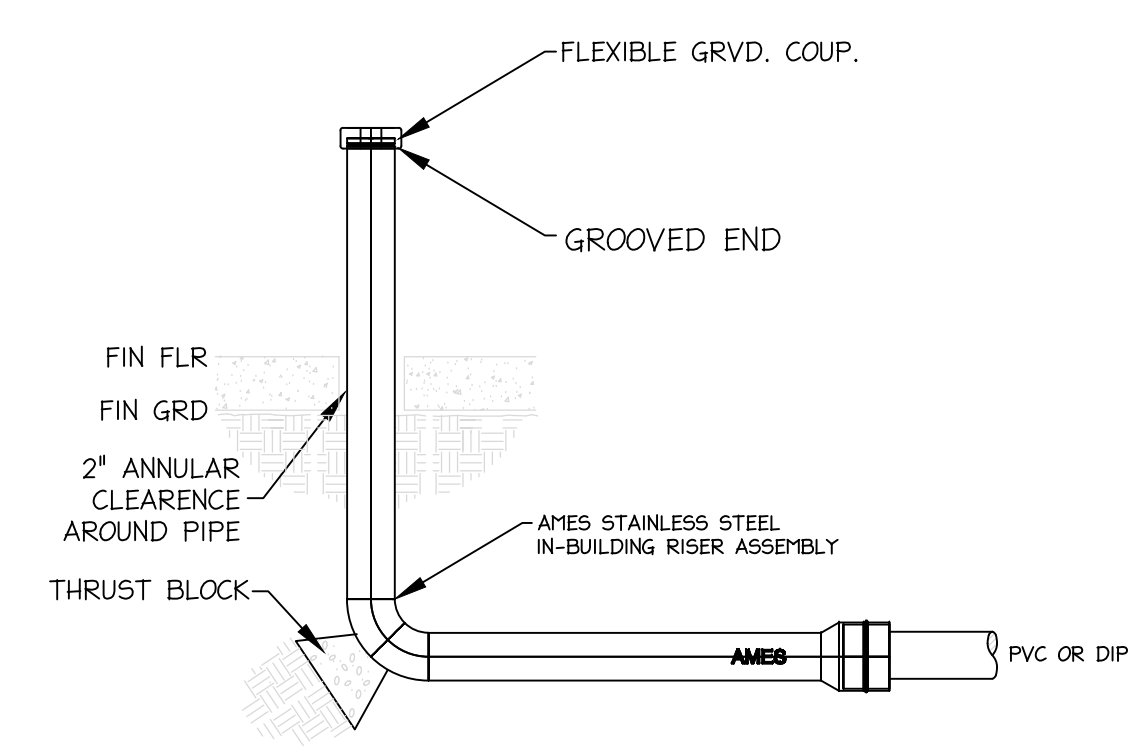
4 FDC DETAIL
FP0.01 SCALE: NONE



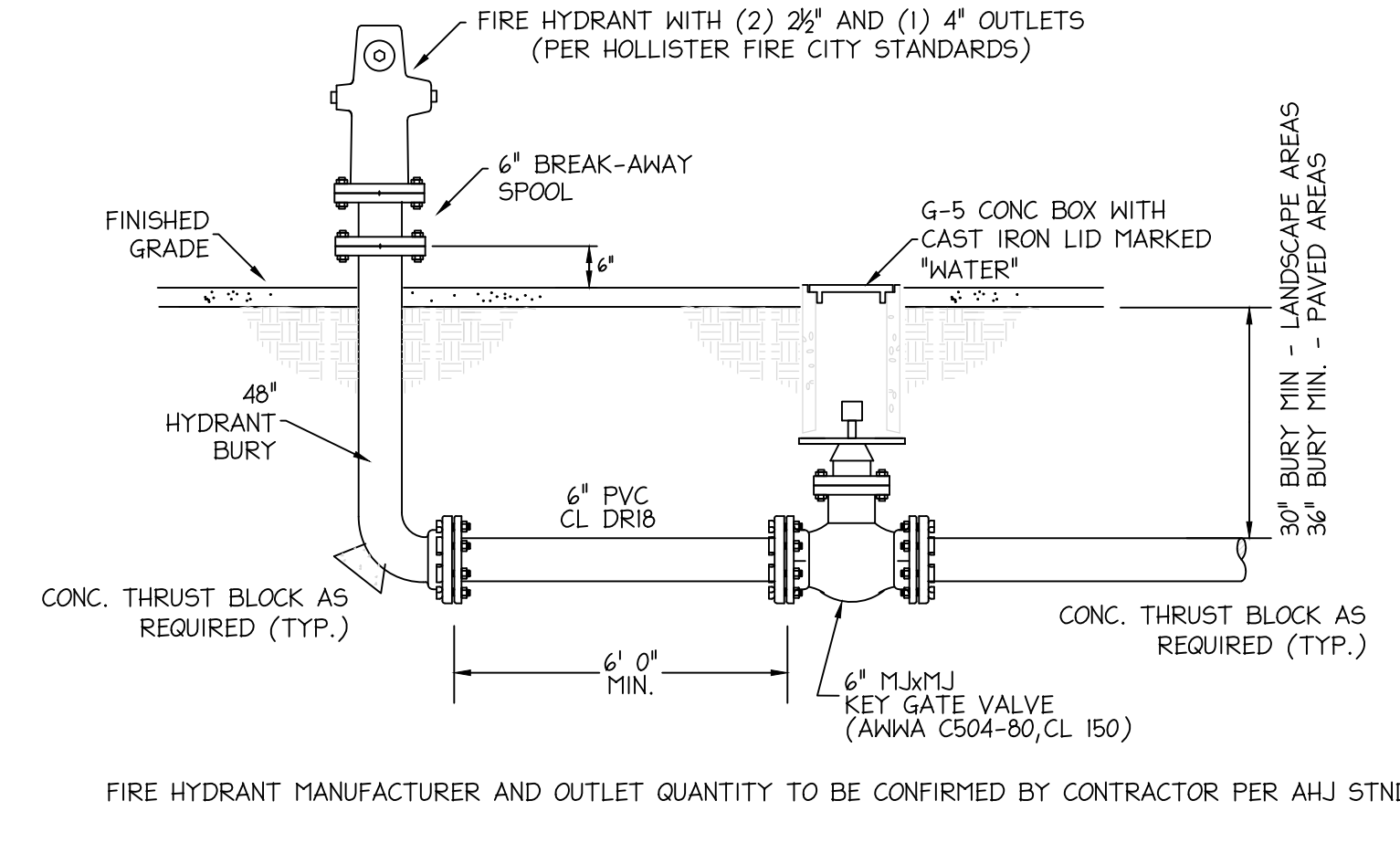
5 PIV DETAIL
FP0.01 SCALE: NONE



6 BACKFLOW PREVENTION ASSEMBLY DETAIL
FP0.01 SCALE: NONE



7 UNDERGROUND RISER SPIGOT DETAIL
FP0.01 SCALE: NONE



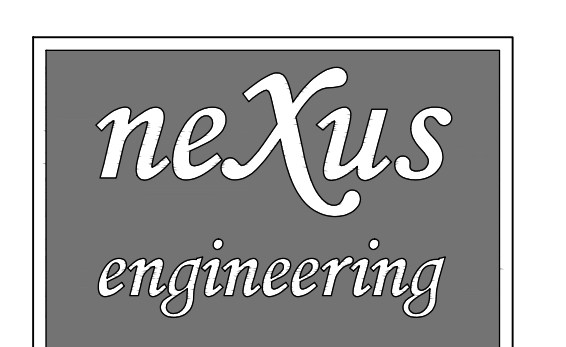
8 FIRE HYDRANT DETAIL
FP0.01 SCALE: NONE



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East Bay:
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Gensler

45 Fremont Street Suite 1500 San Francisco, CA 94105 United States
Tel: 415.433.3700 Fax: 415.836.4599



Consulting Mechanical Engineers
1400 Lone Palm Ave. Suite A Modesto, CA 95351
Tel: 209.572.7399 Fax: 209.236.1579
www.nexusengineering.net



GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906

ARCH PROJECT NO. 1897.00

DRAWN BY:

DRAWING SCALE:

PTN: N/A FILE NO: 43-C4

DSA SUBMITTAL

FEBRUARY 4, 2022

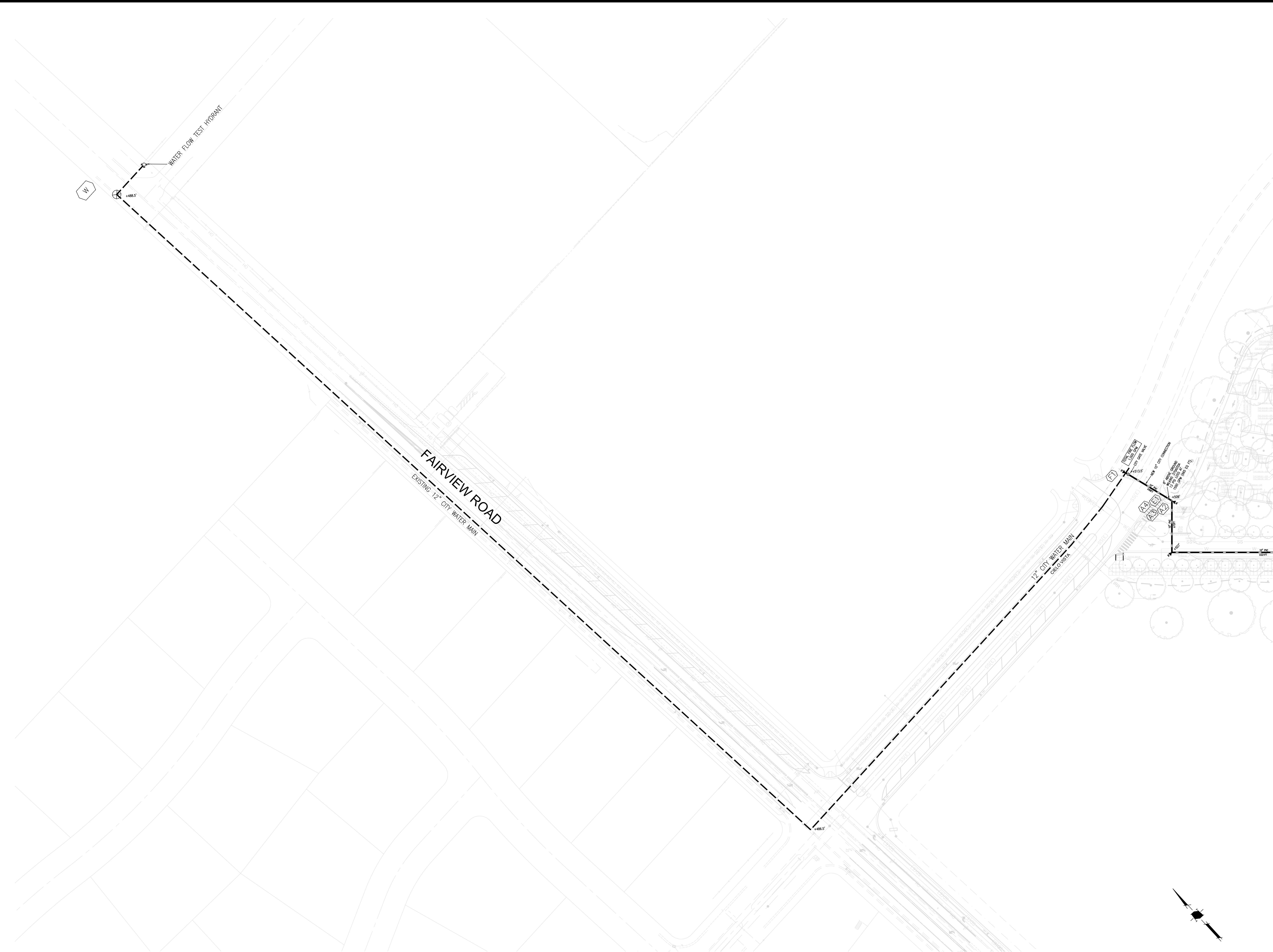
SHEET TITLE

SITE FIRE PROTECTION NOTES & DETAILS

SHEET NUMBER

FP0.01

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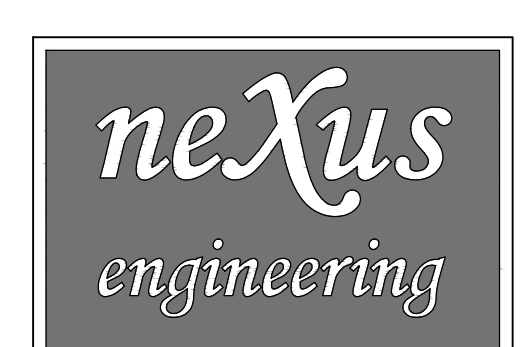
OVERALL FIRE PROTECTION UNDERGROUND & SITE PLAN
 SCALE: 1" = 50'-0"



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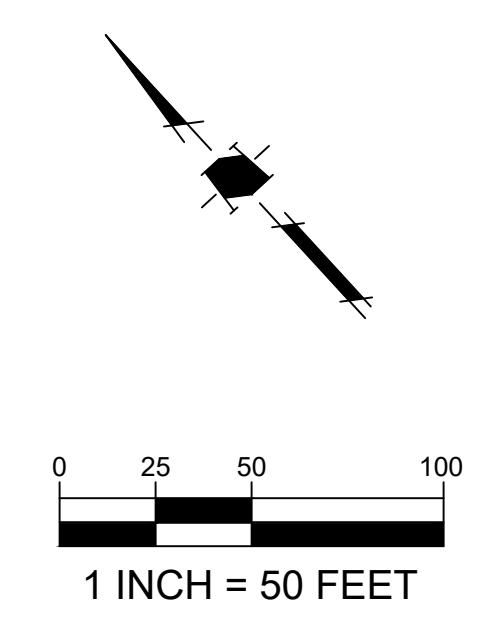
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 HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906
 ARCH PROJECT NO. 1897.00
 DRAWN BY:
 DRAWING SCALE:
 PTN: N/A FILE NO: 43-C4
DSA SUBMITTAL
FEBRUARY 4, 2022
 SHEET TITLE

FIRE PROTECTION
 EXPANDED
 SITE PLAN

SHEET NUMBER
FP0.03



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Sprinkler Legend-Area A

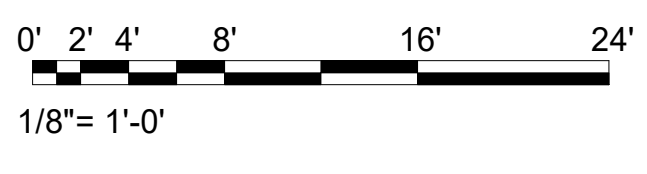
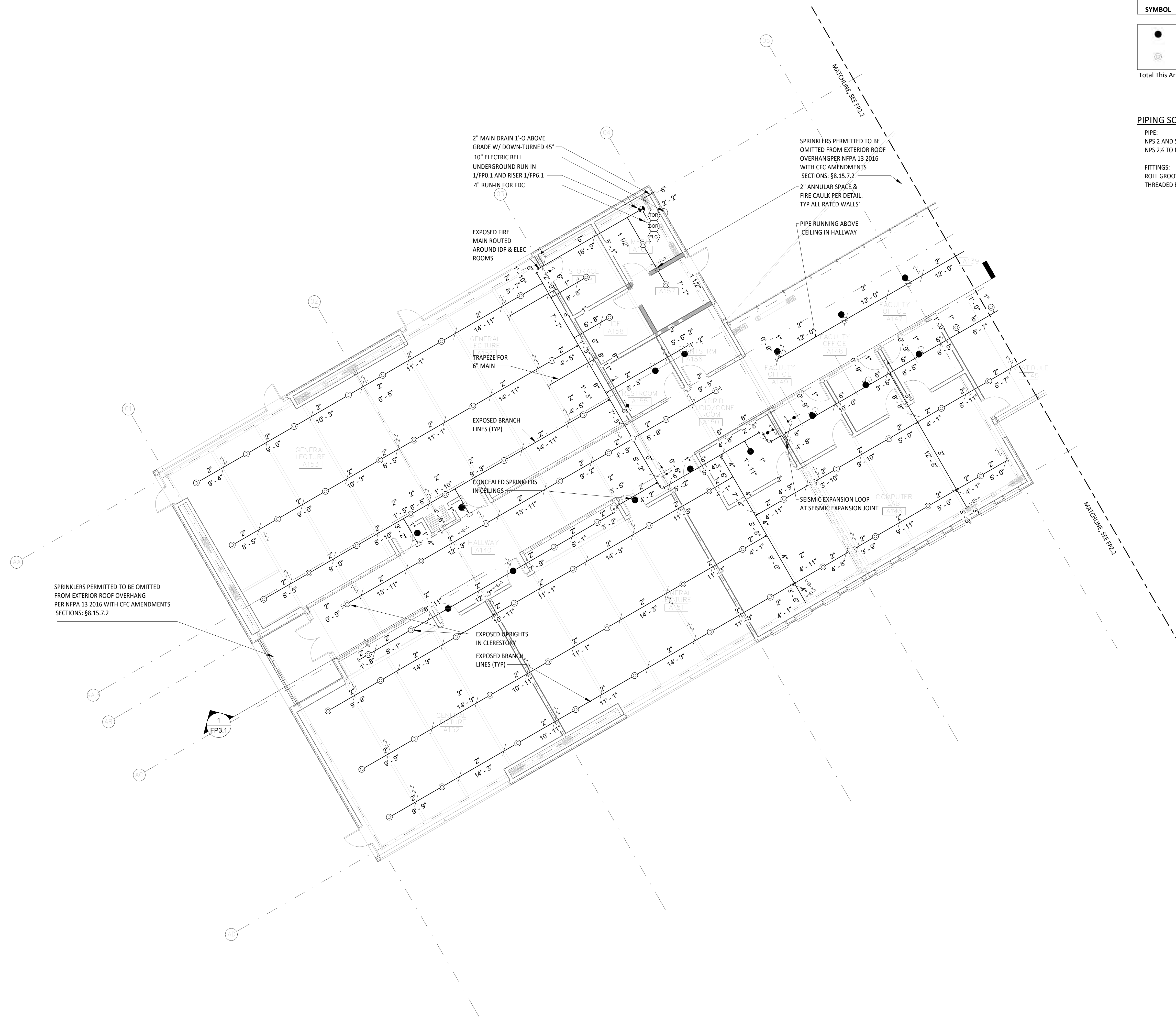
SYMBOL	QTY	MFR	SIN	ORIENTATION	TYPE	SIZE	K-FACTOR	TEMP	FINISH
●	16	VIKING CORP	VK462	PENDENT	Concealed	1/2"	5.6	200 °F	VK - Brass
⊙	67	VIKING CORP	VK300	UPRIGHT	Frame Style	1/2"	5.6	200 °F	VK - Brass

Total This Area: 83

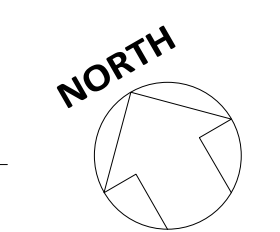
PIPING SCHEDULE

PIPE:
 NPS 2 AND SMALLER: SCHEDULE 40
 NPS 2½ TO NPS 6: SCHEDULE 10

FITTINGS:
 ROLL GROOVE ENDS WITH GROOVED FITTINGS & COUPLINGS: 1¼ NPS AND LARGER SCHEDULE 40 OR SCHEDULE 10 PIPE
 THREADED ENDS WITH THREADED FITTINGS: SCHEDULE 40 PIPE



1 SECTOR A PARTIAL PIPING PLAN - FIRE PROTECTION
 1/8" = 1'-0"



Vals Plumbing & Heating, Inc
 413 Front St., Salinas, Ca. 93901
 (831) 424-1633 F (831) 784-5514
 Ca. St. License No. 236164

PH: (831) 649-8000
 FX: (831) 649-8038
 www.axiommengineers.com

33 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-5788



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GAVILAN JOINT
 COMMUNITY COLLEGE
 DISTRICT

DSA APP NO. 01-119906
 ARCH PROJECT NO: 1897.00
 DRAWN BY: CAD
 DRAWING SCALE: AS NOTED
 PTN: 43-C4 FILE NO: N/A

DSA SUBMITTAL
 FEBRUARY 4, 2022

SHEET TITLE
**SECTOR A
 PARTIAL PIPING
 PLAN - FIRE
 PROTECTION**

SHEET NUMBER

FP2.1

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Sprinkler Legend-Area C

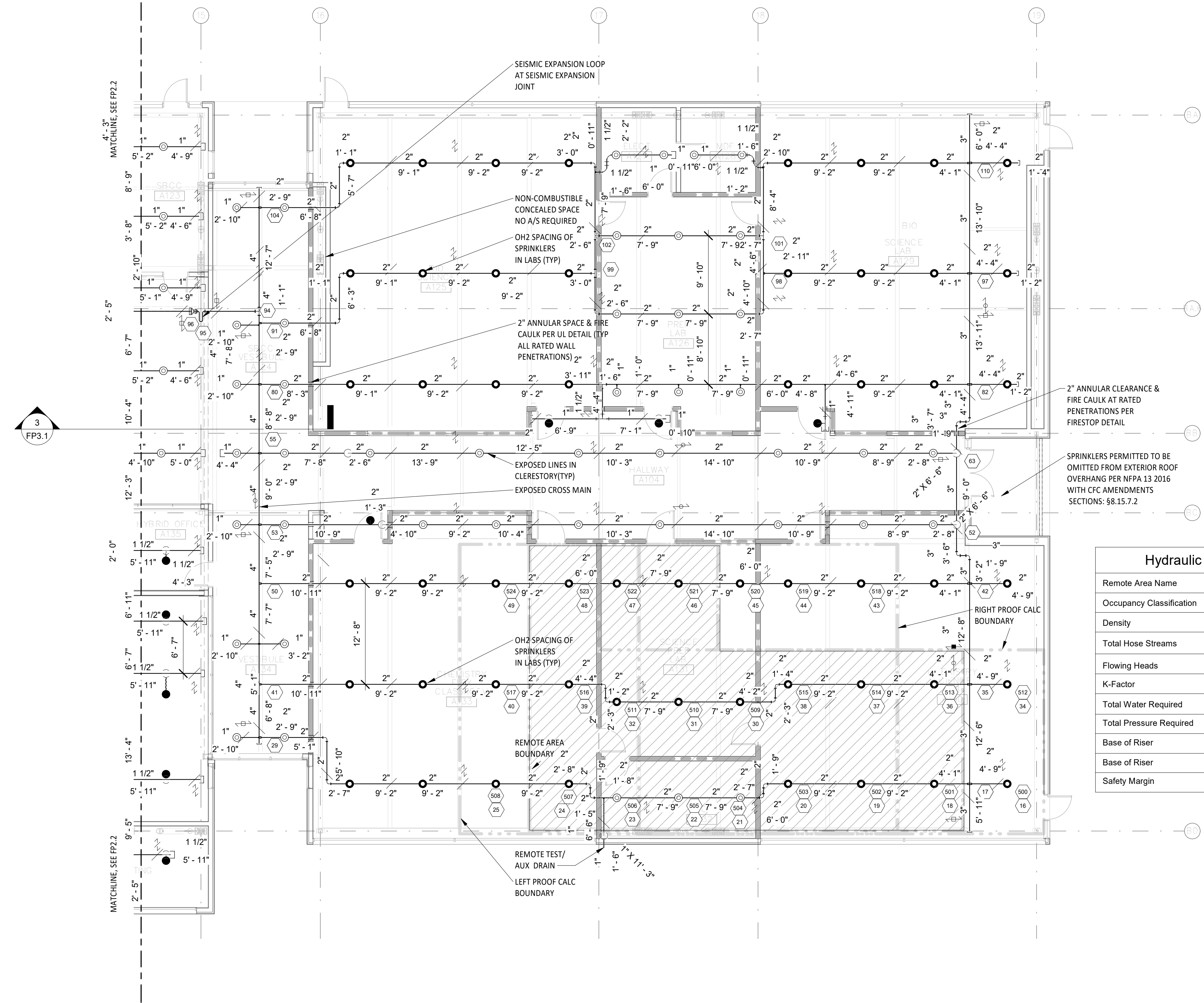
SYMBOL	QTY	MFR	SIN	ORIENTATION	TYPE	SIZE	K-FACTOR	TEMP	FINISH
●	9	VIKING CORP	VK462	PENDENT	Concealed	1/2"	5.6	200 °F	VK - Brass
⊙	49	VIKING CORP	VK300	UPRIGHT	Frame Style	1/2"	5.6	200 °F	VK - Brass
○	54	VIKING CORP	VK350	UPRIGHT	Frame Style	1"	8	200 °F	VK - Brass

Total This Area: 112

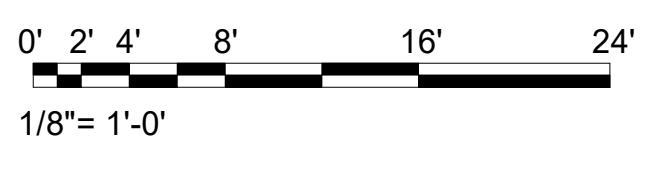
PIPING SCHEDULE

PIPE:
 NPS 2 AND SMALLER: SCHEDULE 40
 NPS 2½ TO NPS 6: SCHEDULE 10

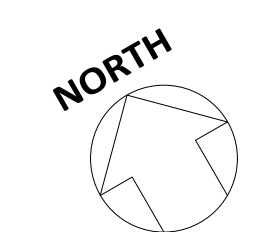
FITTINGS:
 ROLL GROOVE ENDS WITH GROOVED FITTINGS & COUPLINGS: 1½ NPS AND LARGER SCHEDULE 40 OR SCHEDULE 10 PIPE
 THREADED ENDS WITH THREADED FITTINGS: SCHEDULE 40 PIPE



Hydraulic Information	
Remote Area Name	LABS
Occupancy Classification	Ordinary Group II
Density	0.2 GPM
Total Hose Streams	250 GPM
Flowing Heads	14 @ 23.2 GPM + 3 @ 15 GPM
K-Factor	8
Total Water Required	635.795 GPM
Total Pressure Required	50.74 psi
Base of Riser	385.795 GPM
Base of Riser	29.77 psi
Safety Margin	+10.68 (17.39%)



1 SECTOR C PARTIAL PIPING PLAN - FIRE PROTECTION
 FP2.3 1/8" = 1'-0"

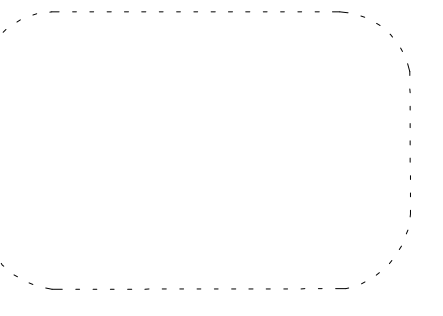


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 HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

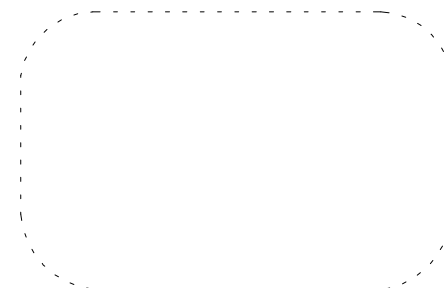
DSA APP NO. 01-119906

ARCH PROJECT NO: 1897.00
 DRAWN BY: CAD
 DRAWING SCALE: AS NOTED
 PTN. 43-C4 FILE NO. N/A

DSA SUBMITTAL
 FEBRUARY 4, 2022

SECTOR C PARTIAL PIPING PLAN - FIRE PROTECTION

SHEET NUMBER
FP2.3



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45 Fremont Street Suite 1500 San Francisco, CA 94105 United States
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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
 HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906

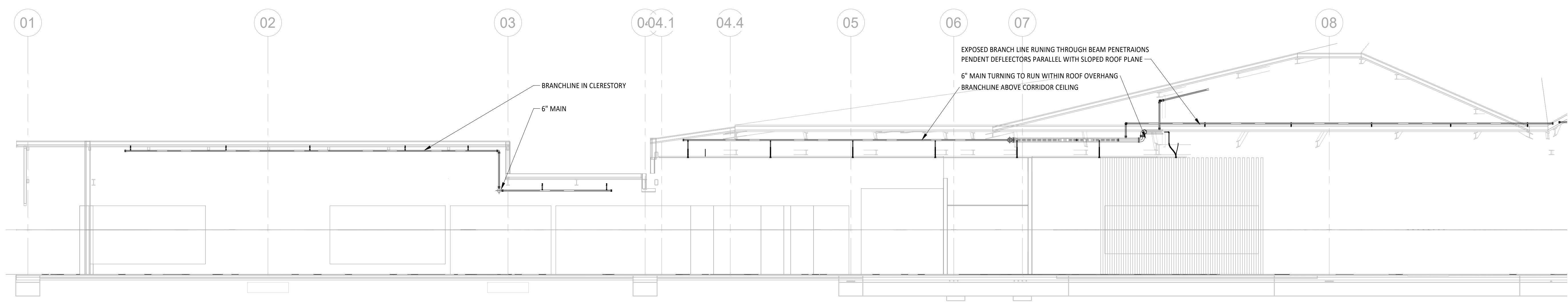
ARCH PROJECT NO: 1897.00
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 DRAWING SCALE: AS NOTED
 PTN: 43-C4 FILE NO: N/A

DSA SUBMITTAL
FEBRUARY 4, 2022

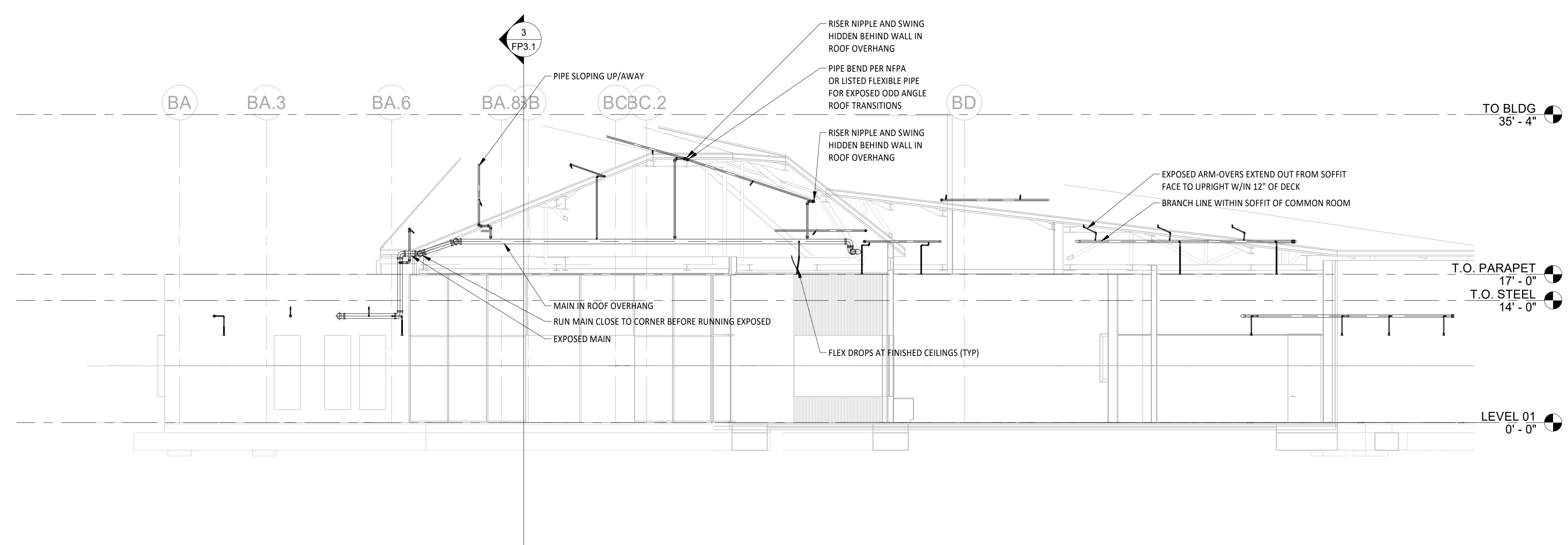
SECTIONS - FIRE PROTECTION

SHEET NUMBER

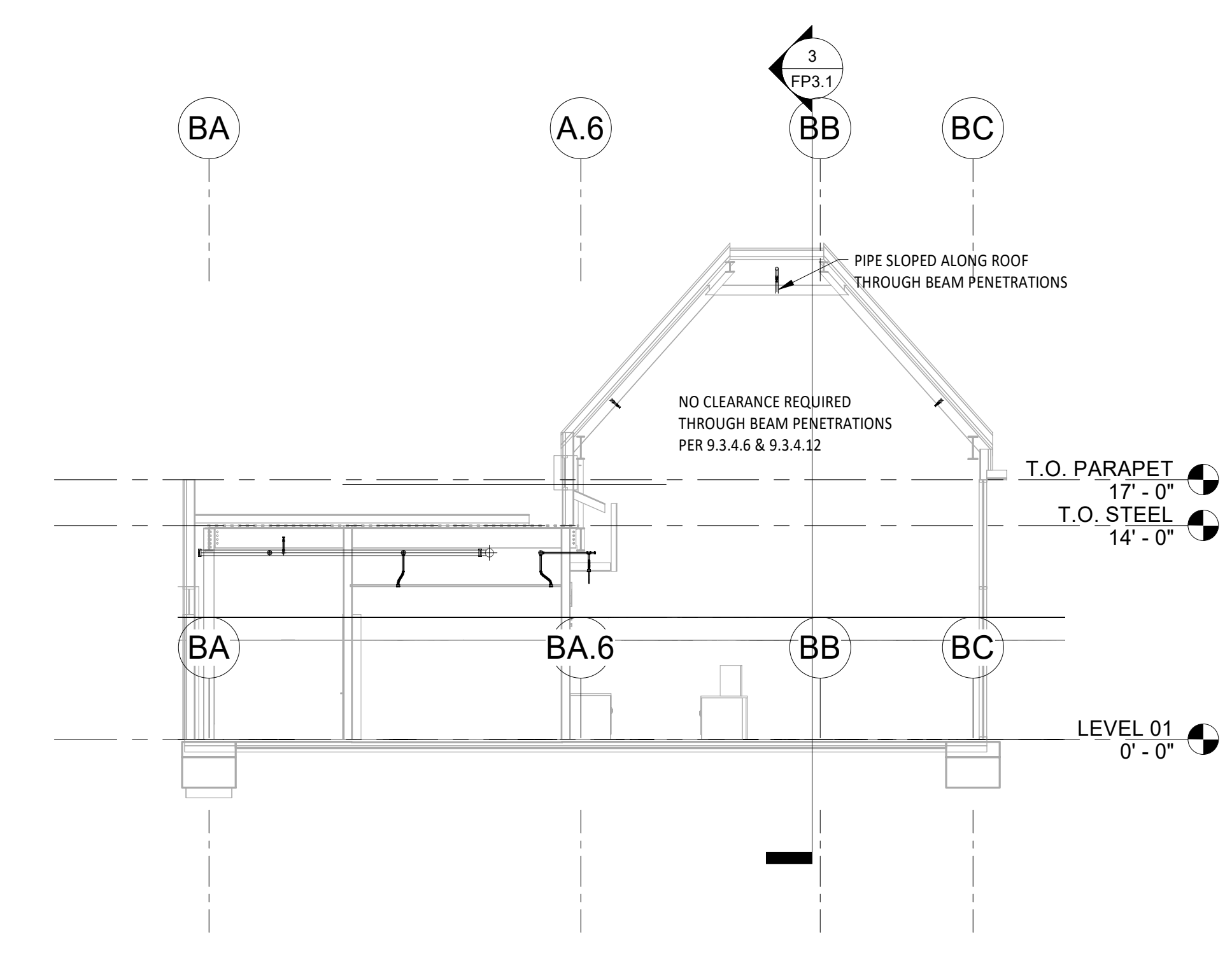
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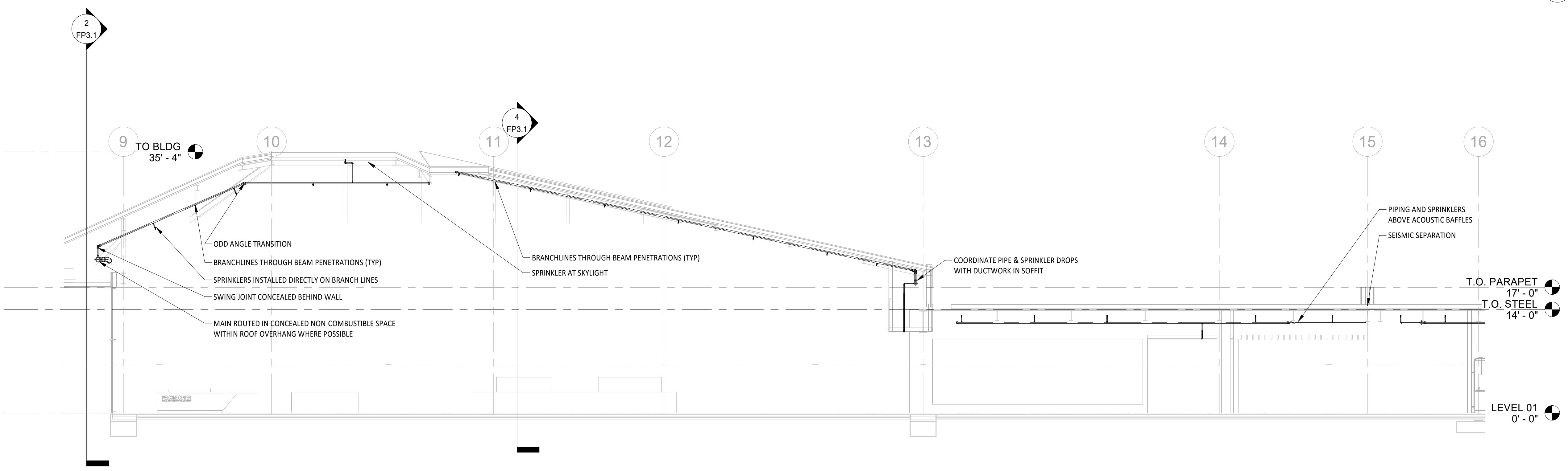
1 ALONG AC LOOKING NW
 FP3.1 1/8" = 1'-0"



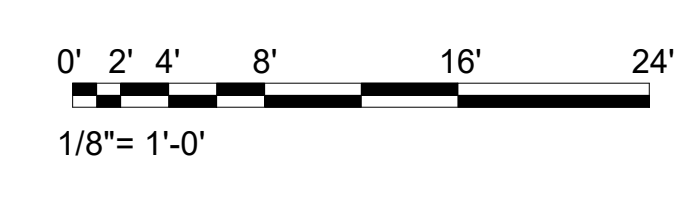
2 ACROSS WEST SIDE OF CORE
 FP3.1 1/8" = 1'-0"



4 SECTION THROUGH CAFE SEATING
 FP3.1 1/8" = 1'-0"



3 ALONG BB THROUGH SECTOR B
 FP3.1 1/8" = 1'-0"



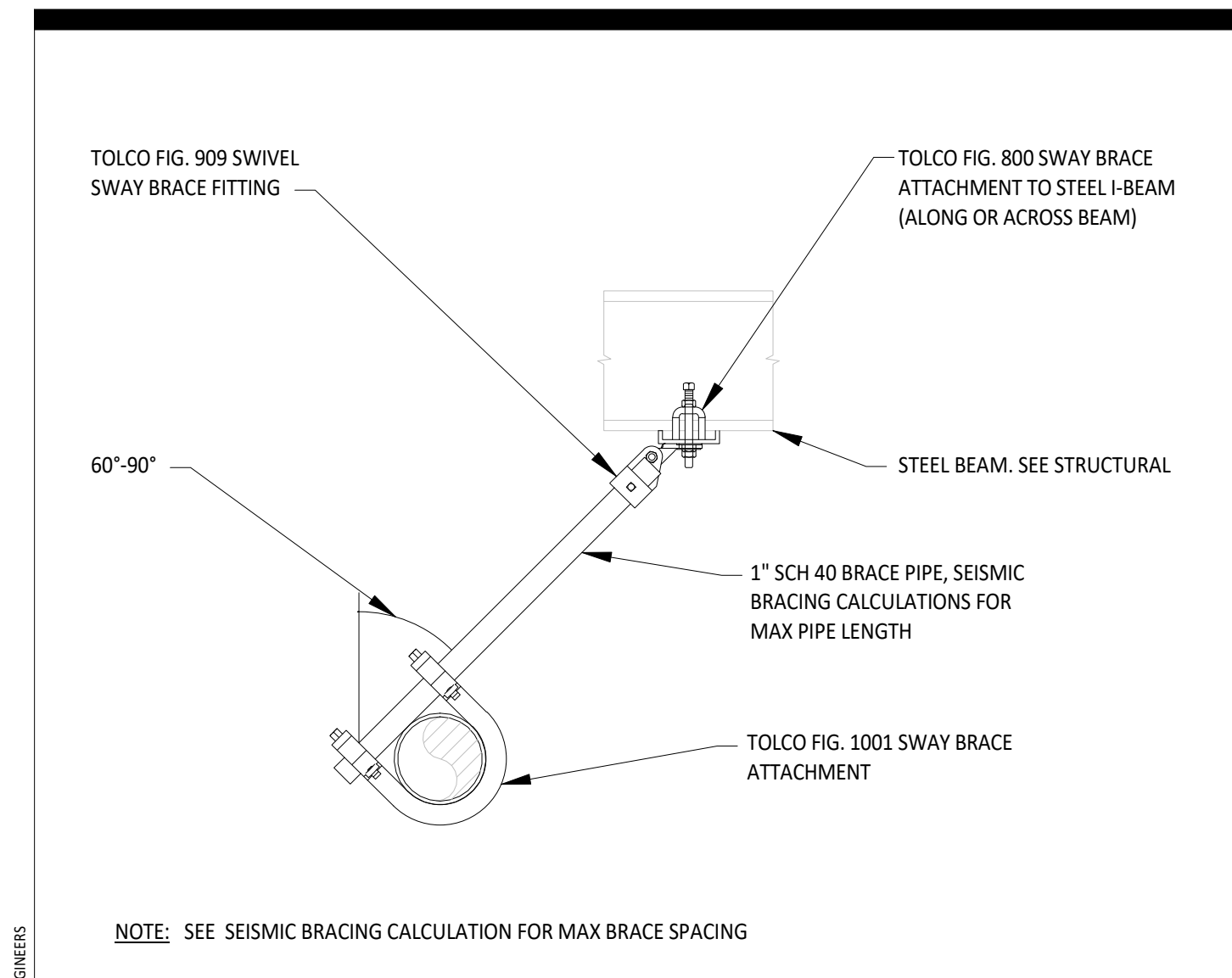
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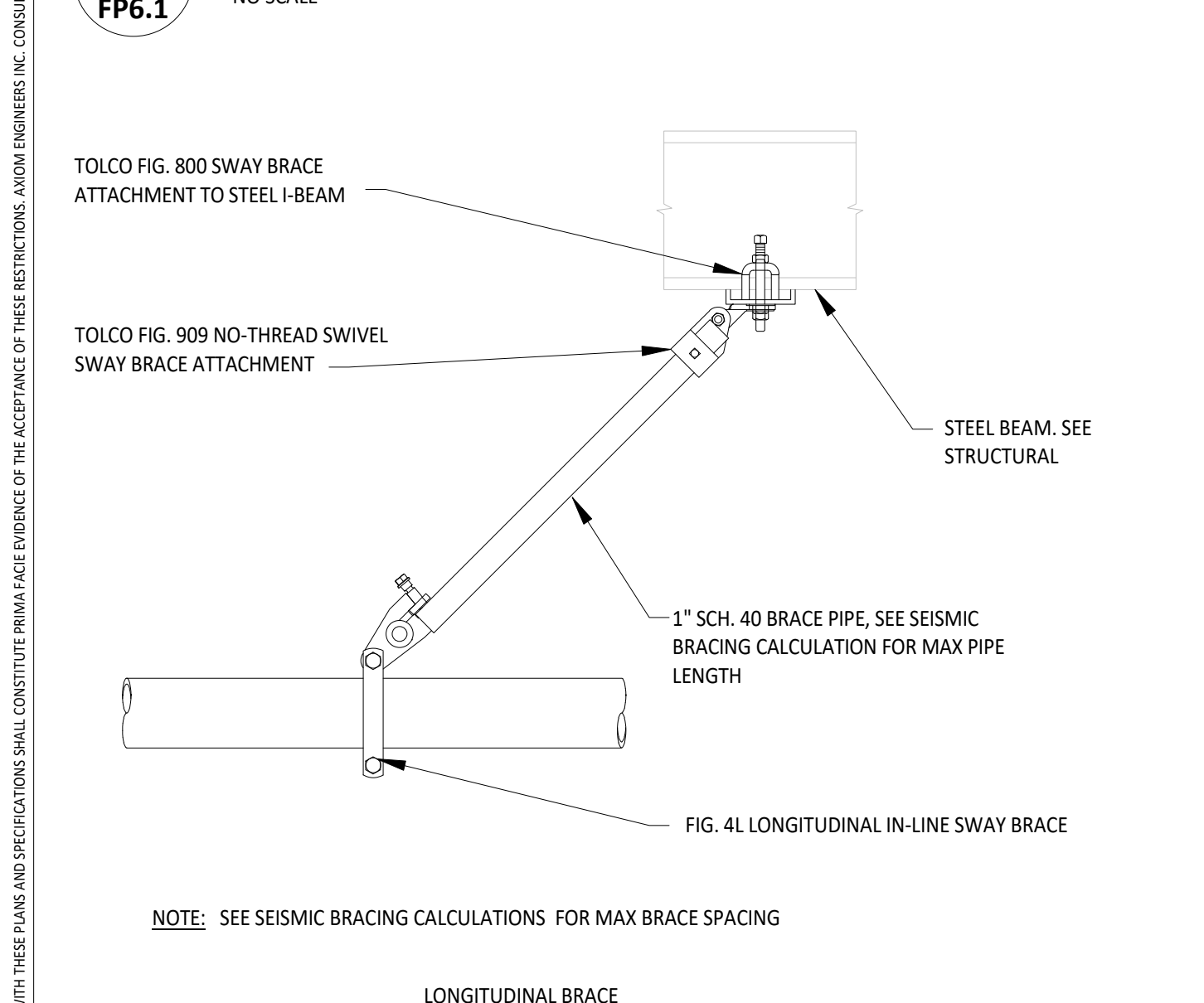


AE Project #: 20210022
 22 Lower Ragsdale Dr., Suite A, Monterey, California 93940-5788

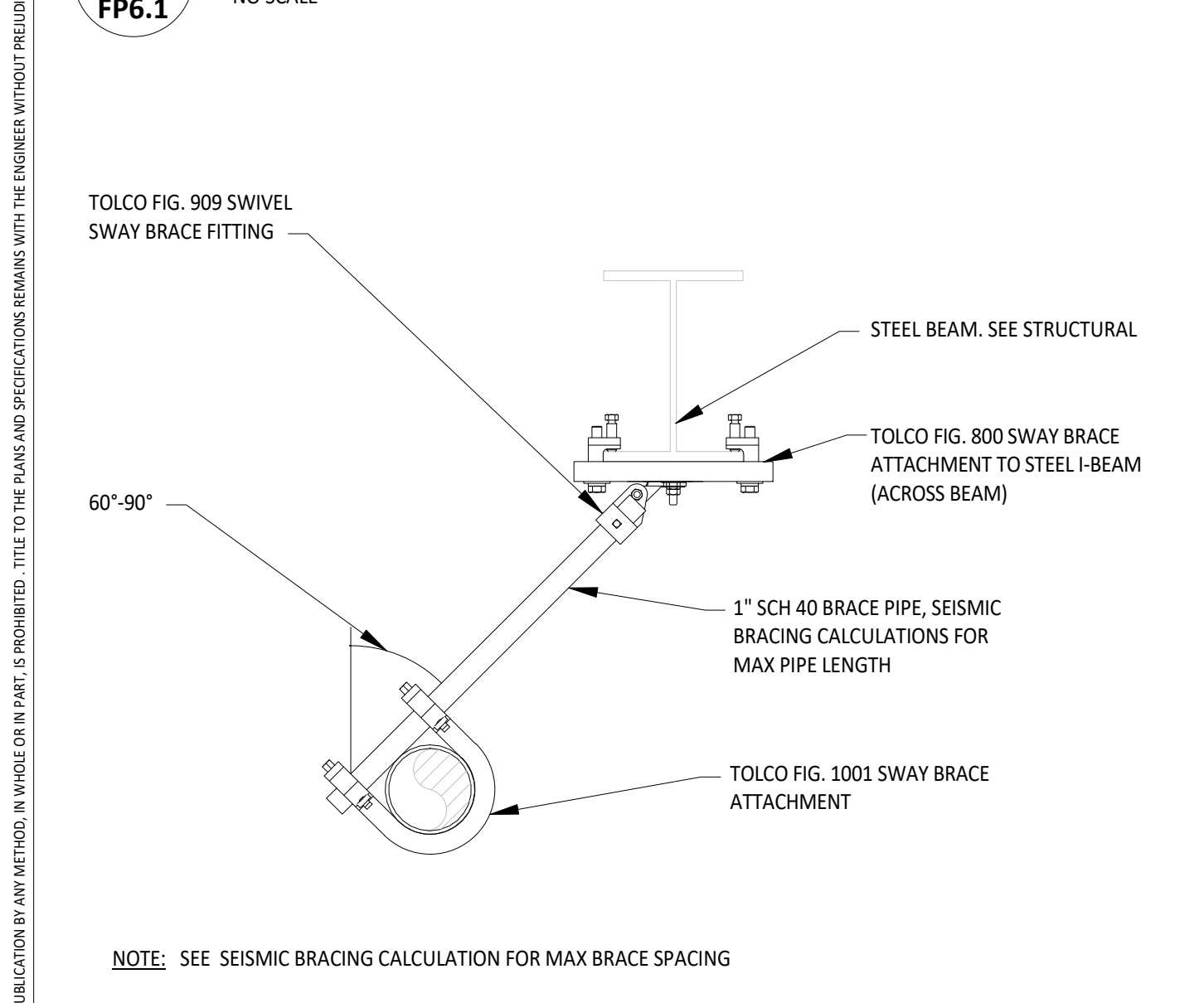
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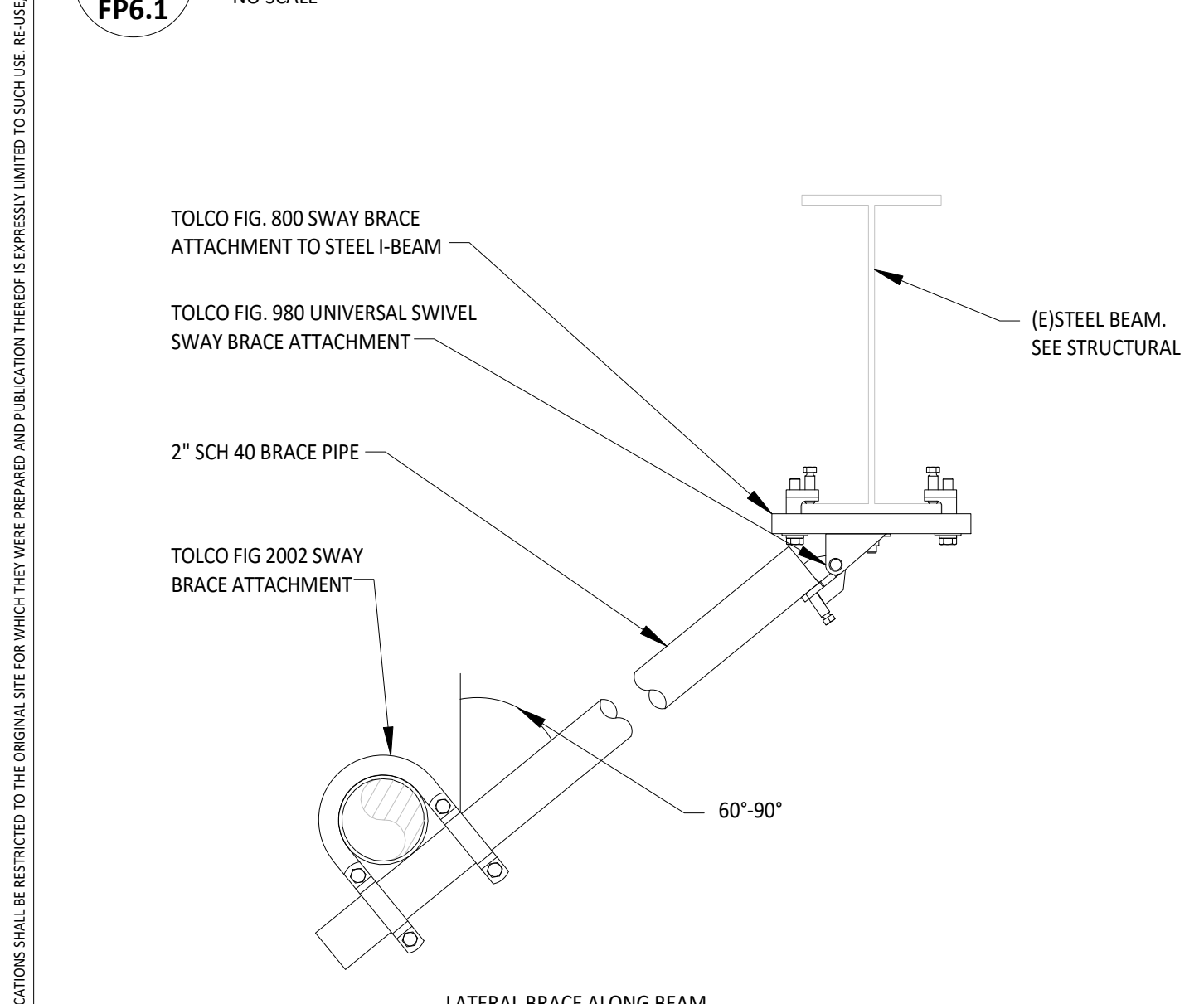
16 SEISMIC BRACE TB, T4W
 NO SCALE
 FP6.1



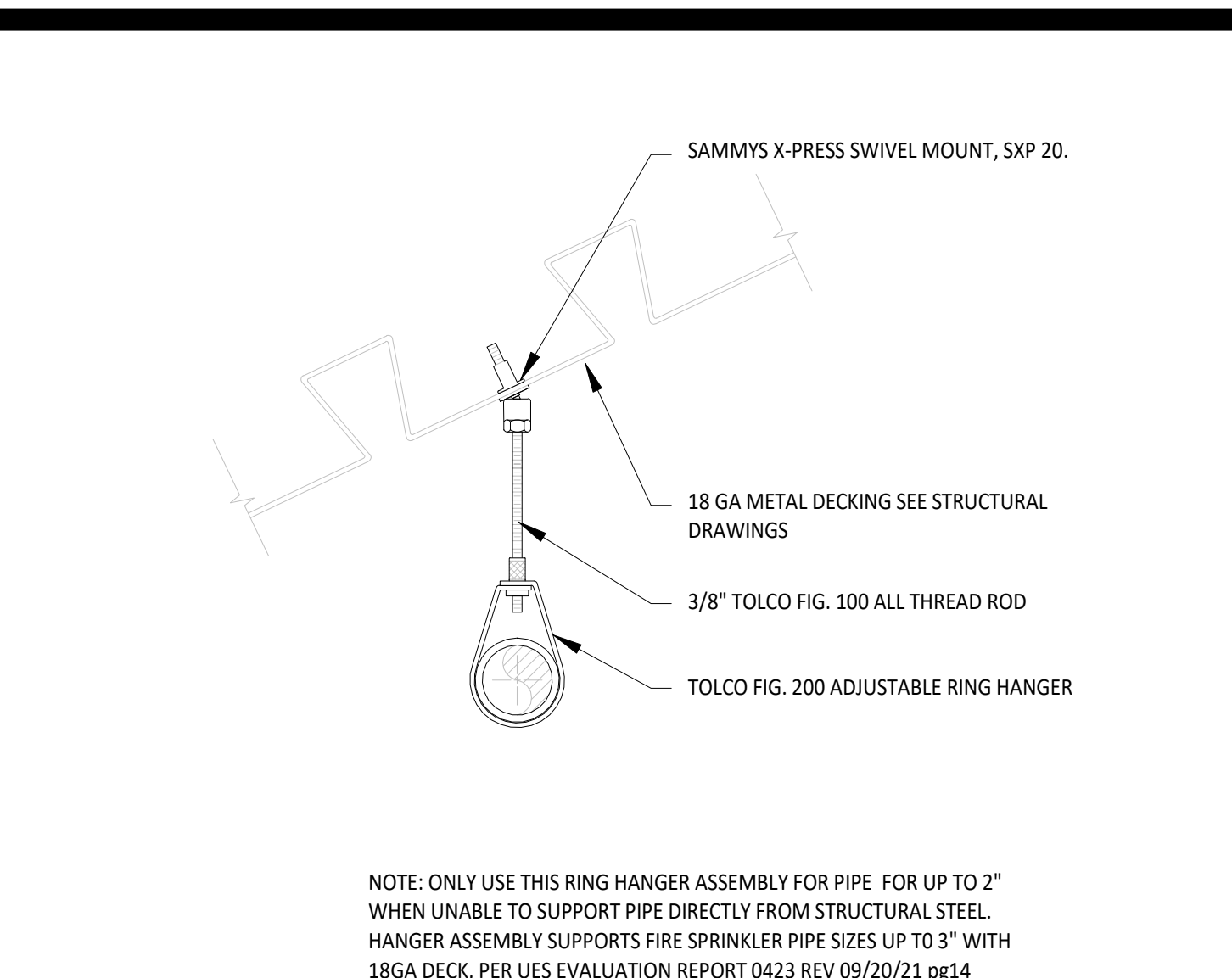
17 SEISMIC BRACE L4, L6
 NO SCALE
 FP6.1



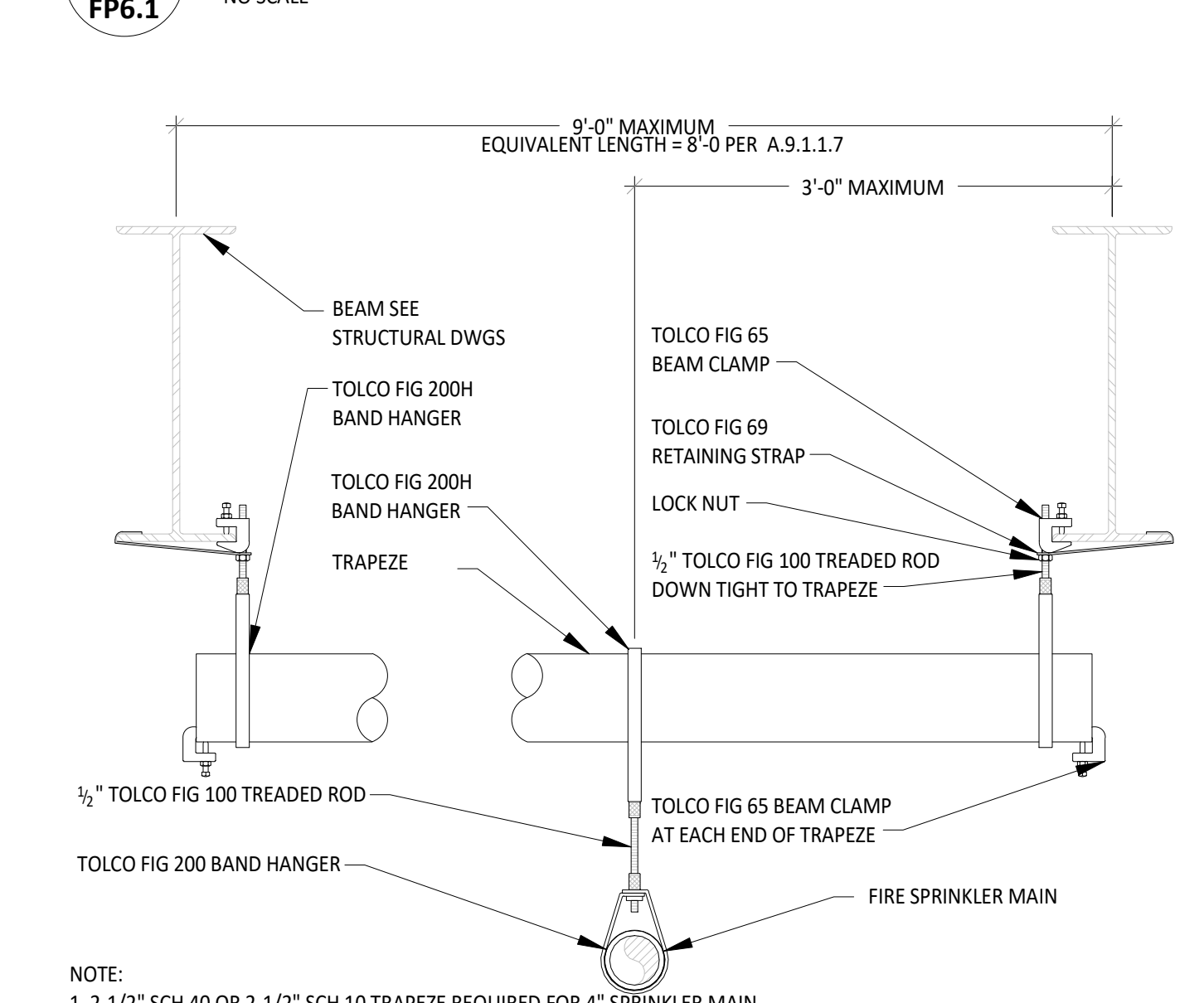
18 SEISMIC BRACE T6
 NO SCALE
 FP6.1



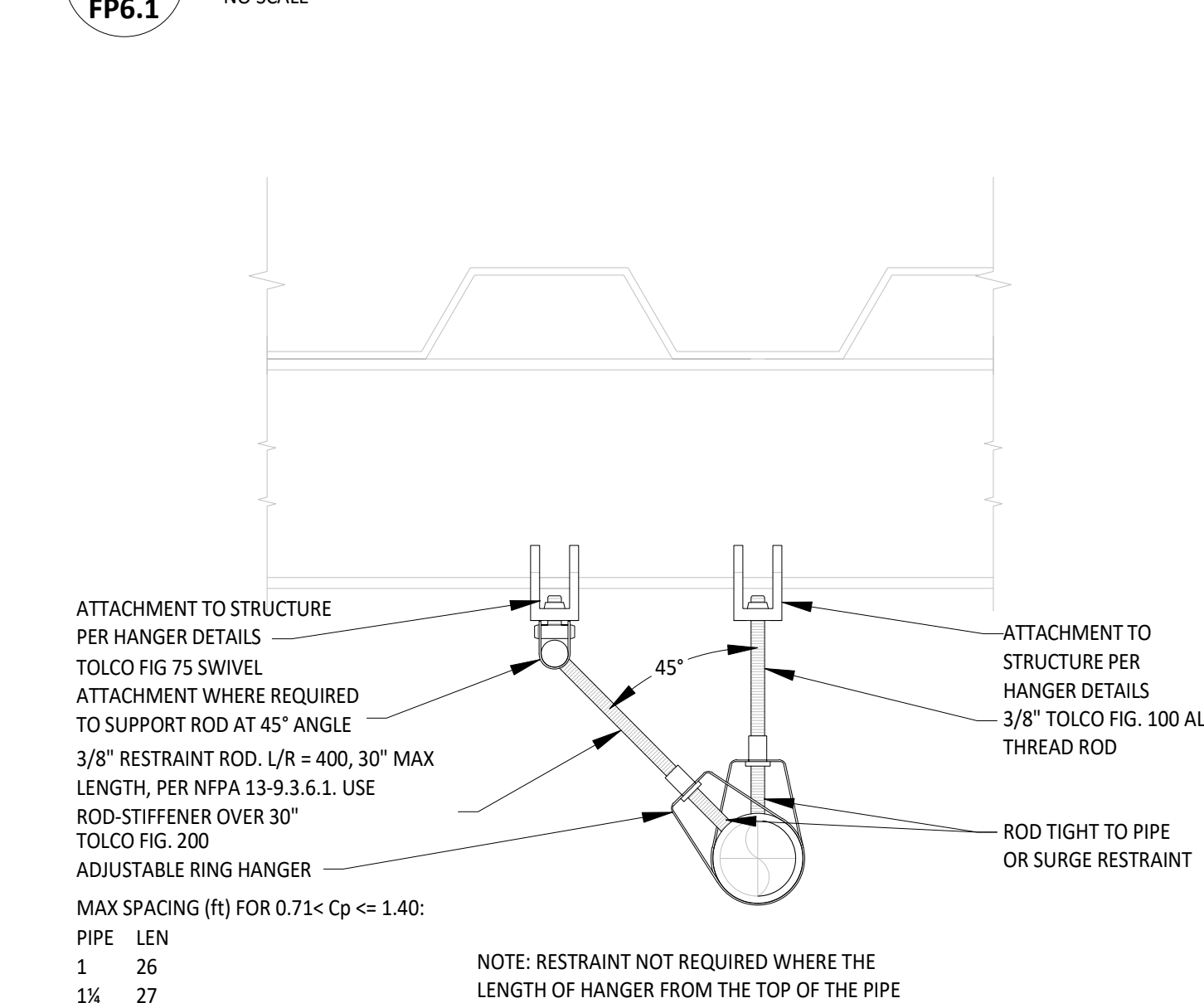
19 SEISMIC BRACE T4X
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 FP6.1



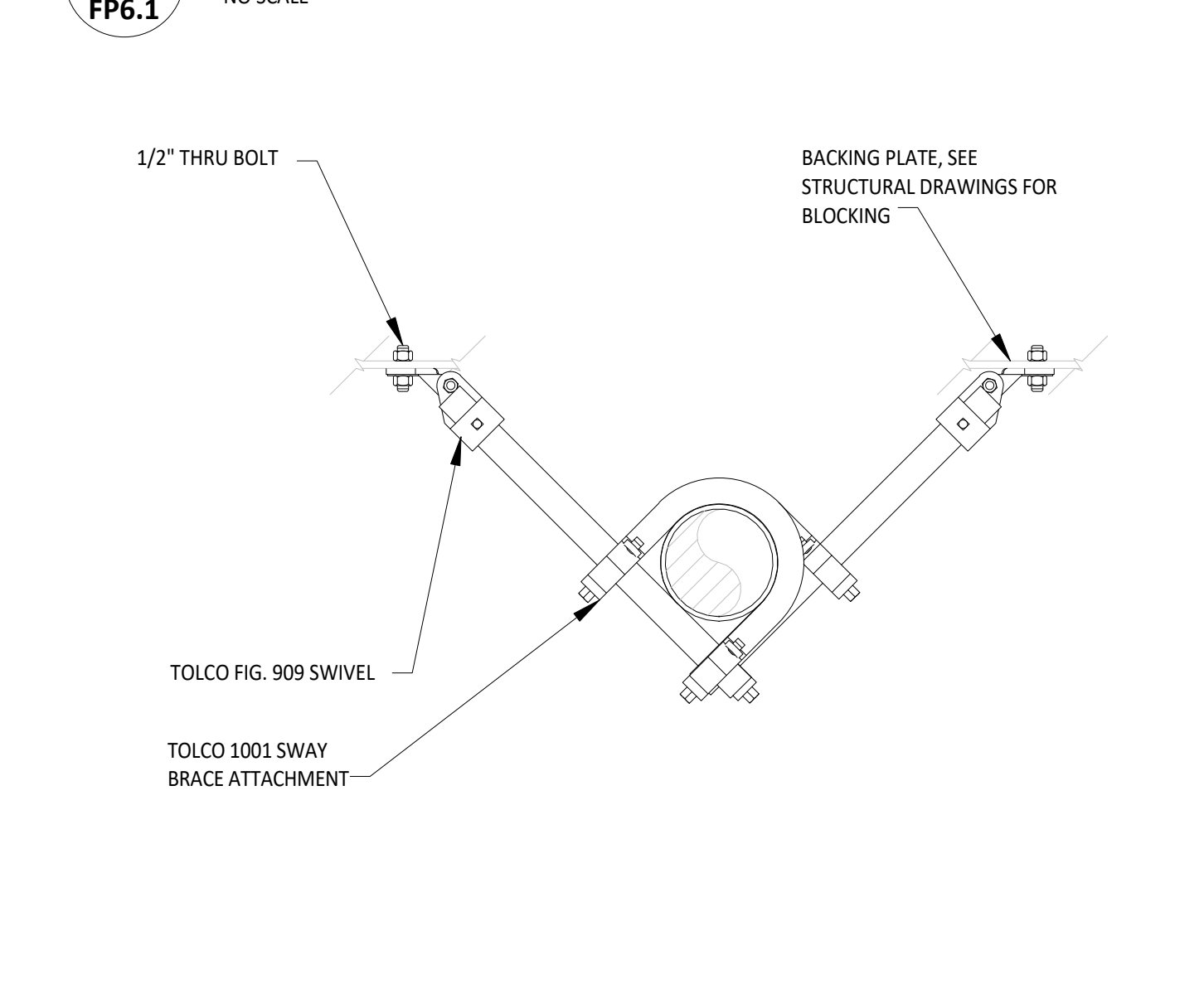
12 RING HANGER FROM VERCO DECK
 NO SCALE
 FP6.1



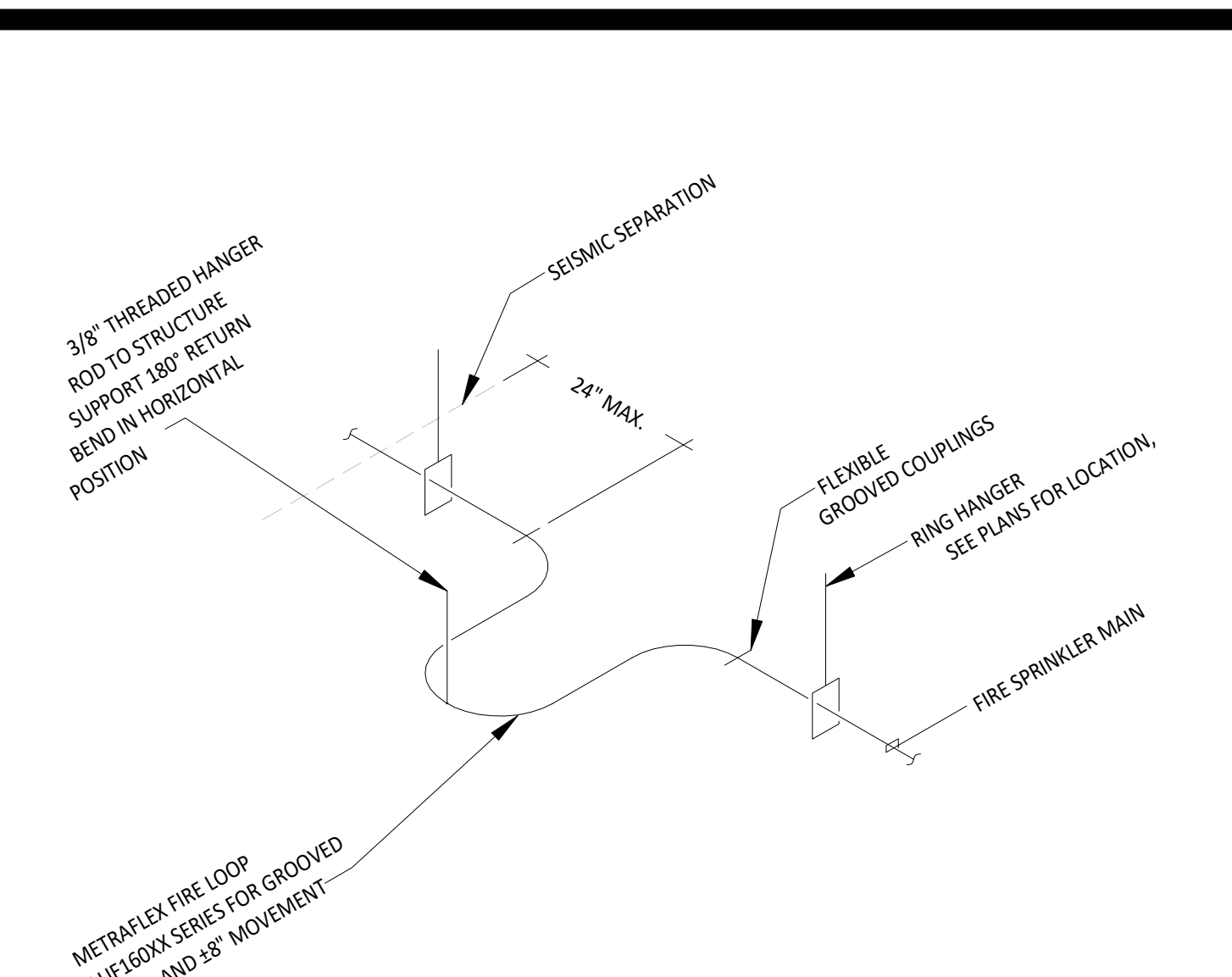
13 TRAPEZE PIPE SUPPORT
 NO SCALE
 FP6.1



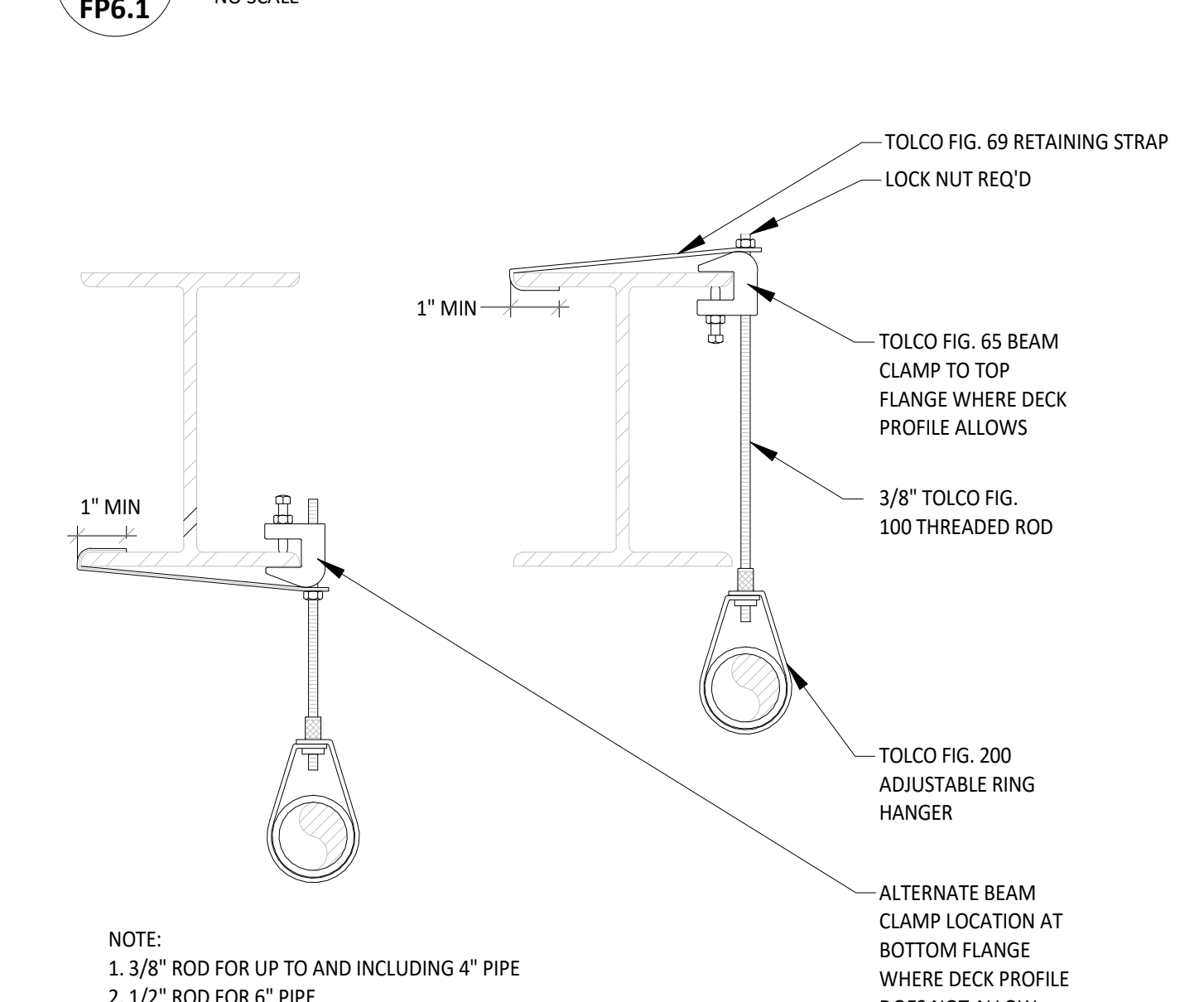
14 BRANCH LINE END RESTRAINT
 NO SCALE
 FP6.1



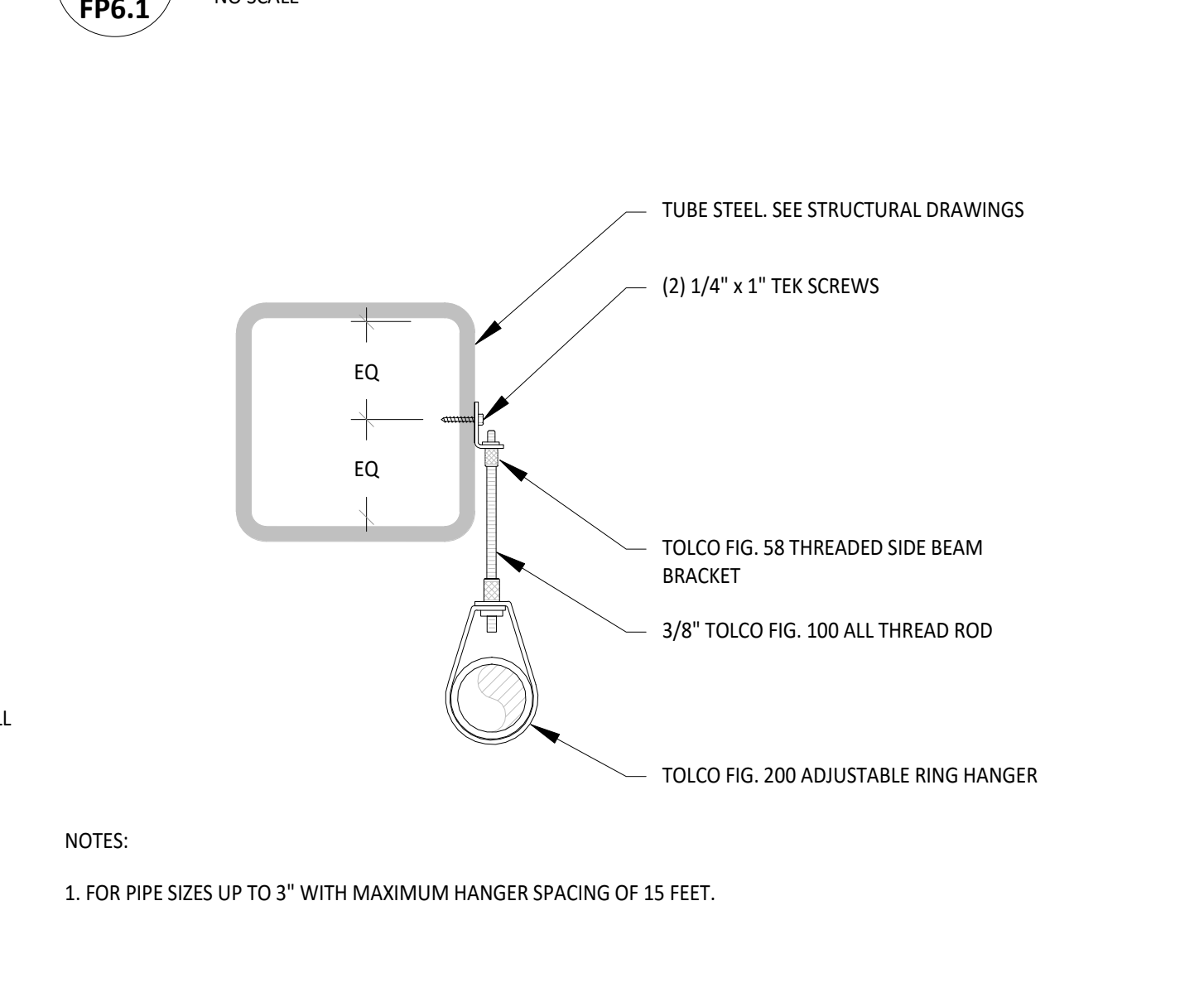
15 RISER BRACE
 NO SCALE
 FP6.1



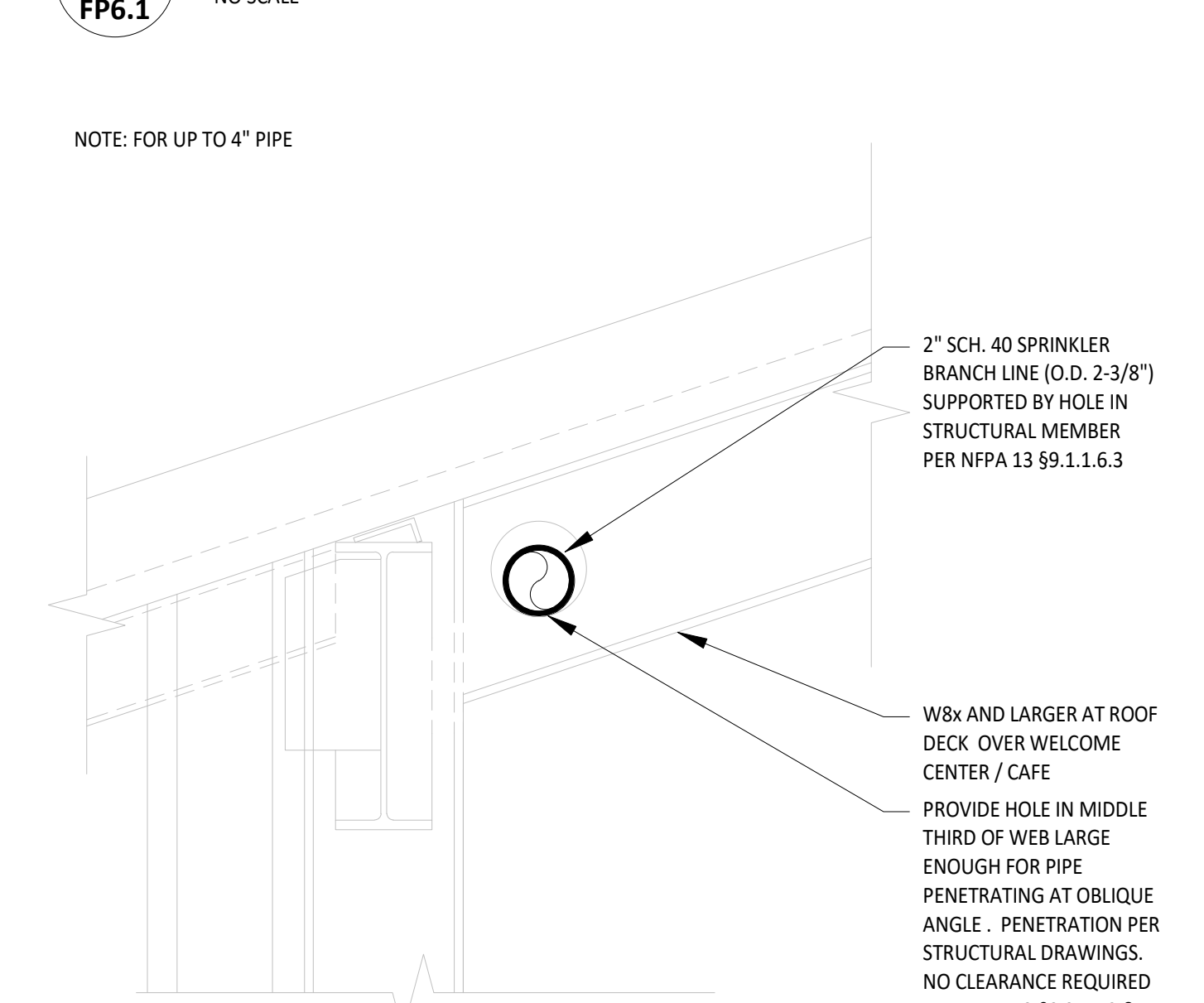
8 SEISMIC JOINT
 NO SCALE
 FP6.1



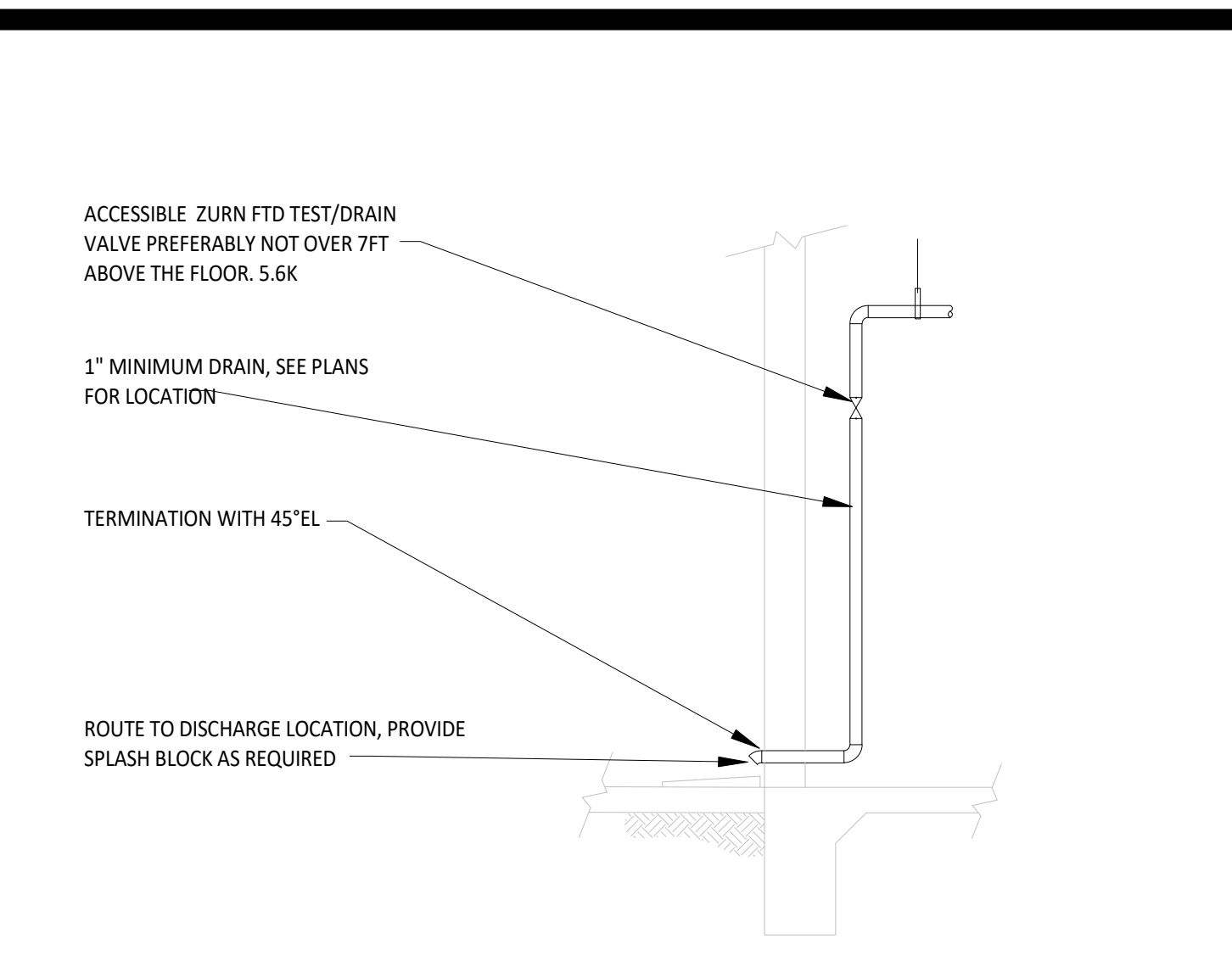
9 RING HANGER
 NO SCALE
 FP6.1



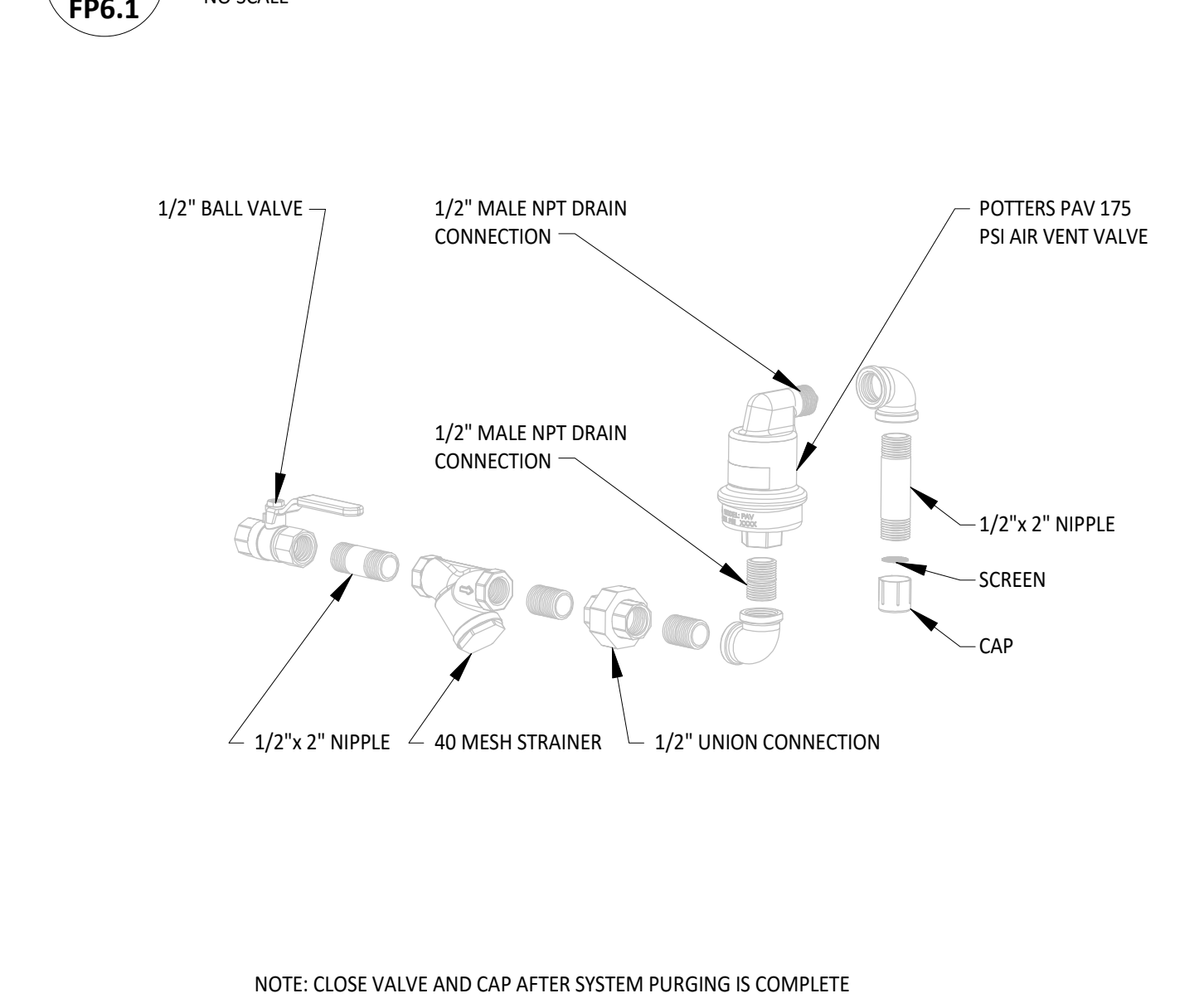
10 RING HANGER
 NO SCALE
 FP6.1



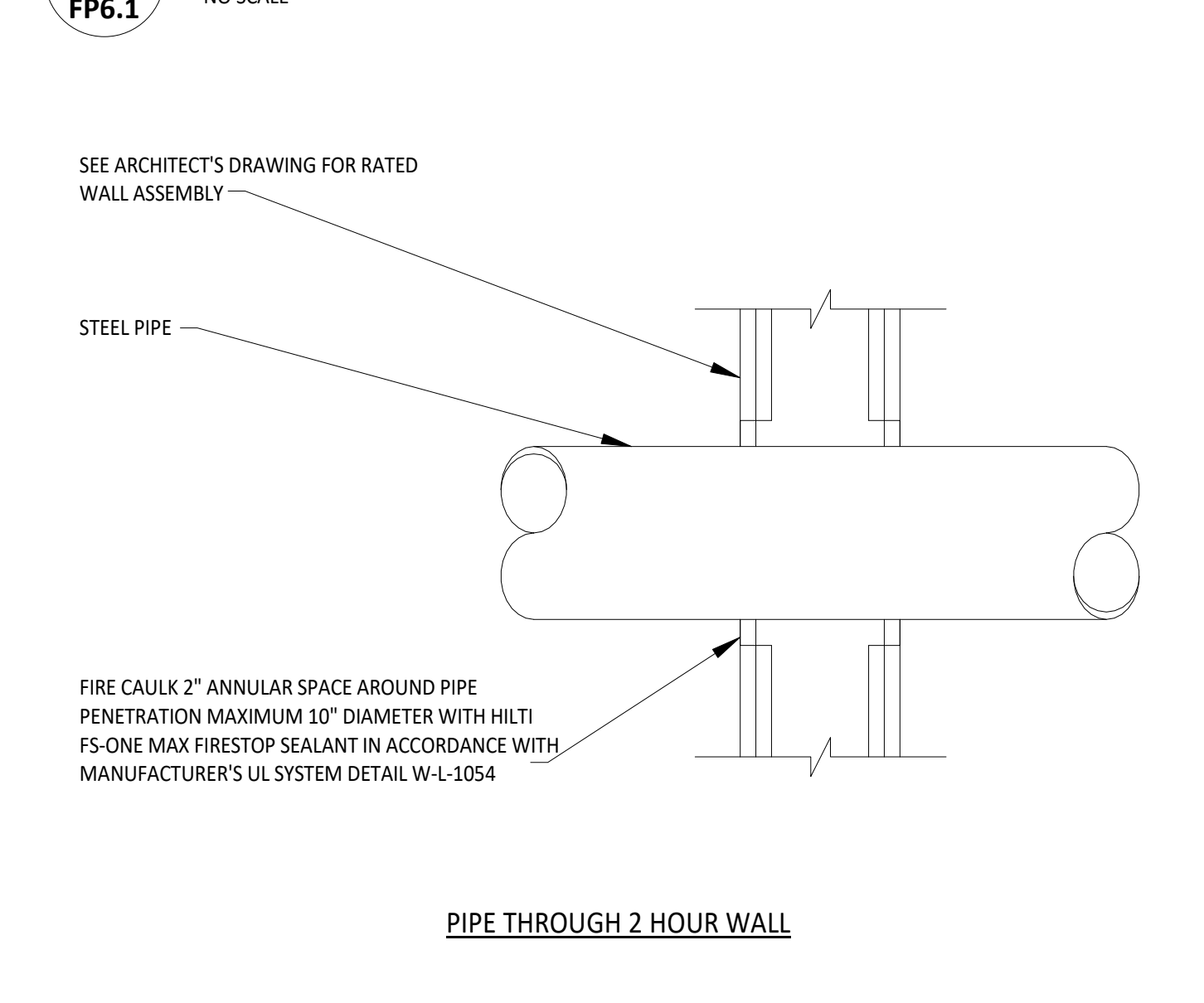
11 PIPE SUPPORT THROUGH BEAM
 NO SCALE
 FP6.1



4 INSPECTORS TEST/AUX DRAIN
 NO SCALE
 FP6.1



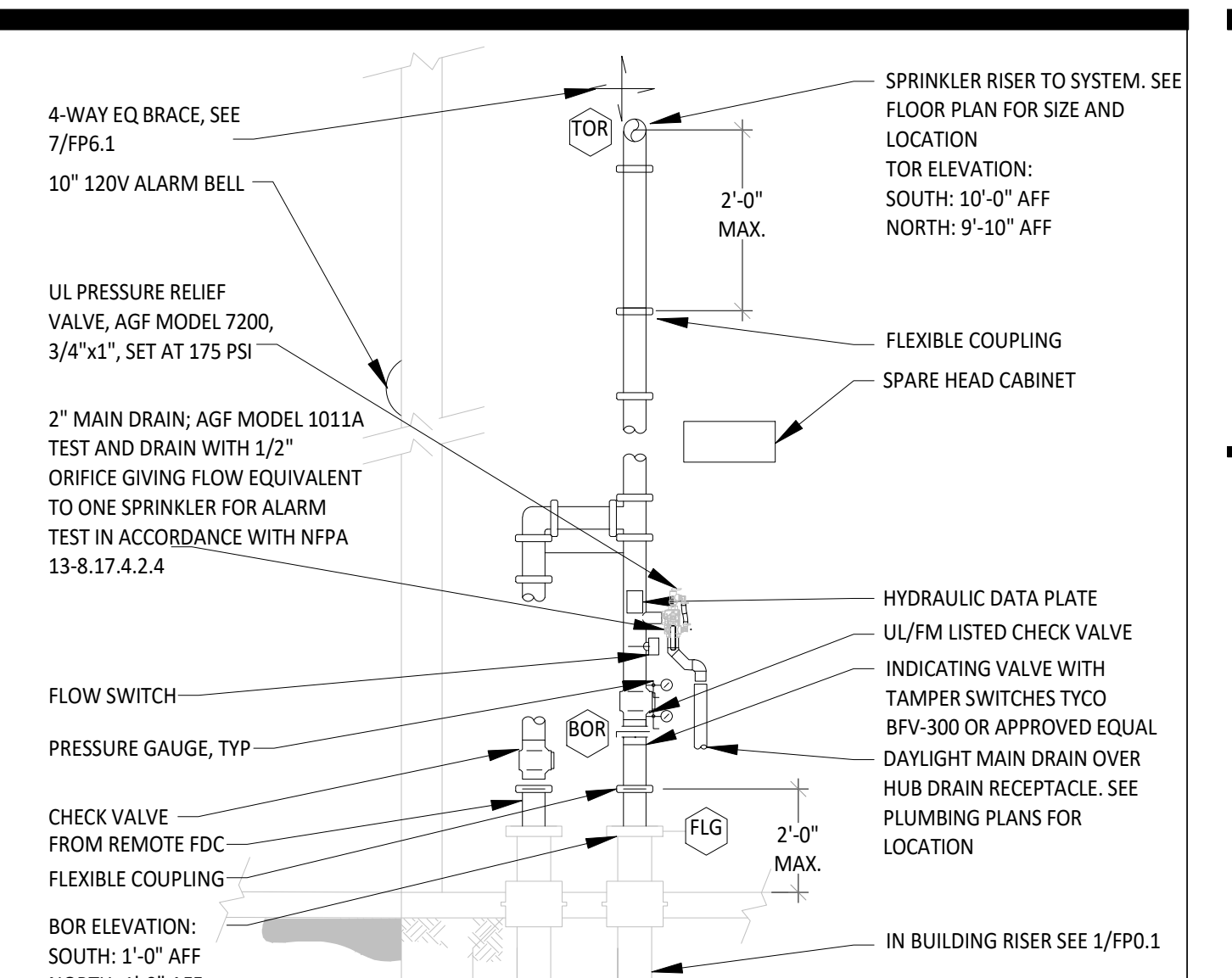
5 AIR VENT
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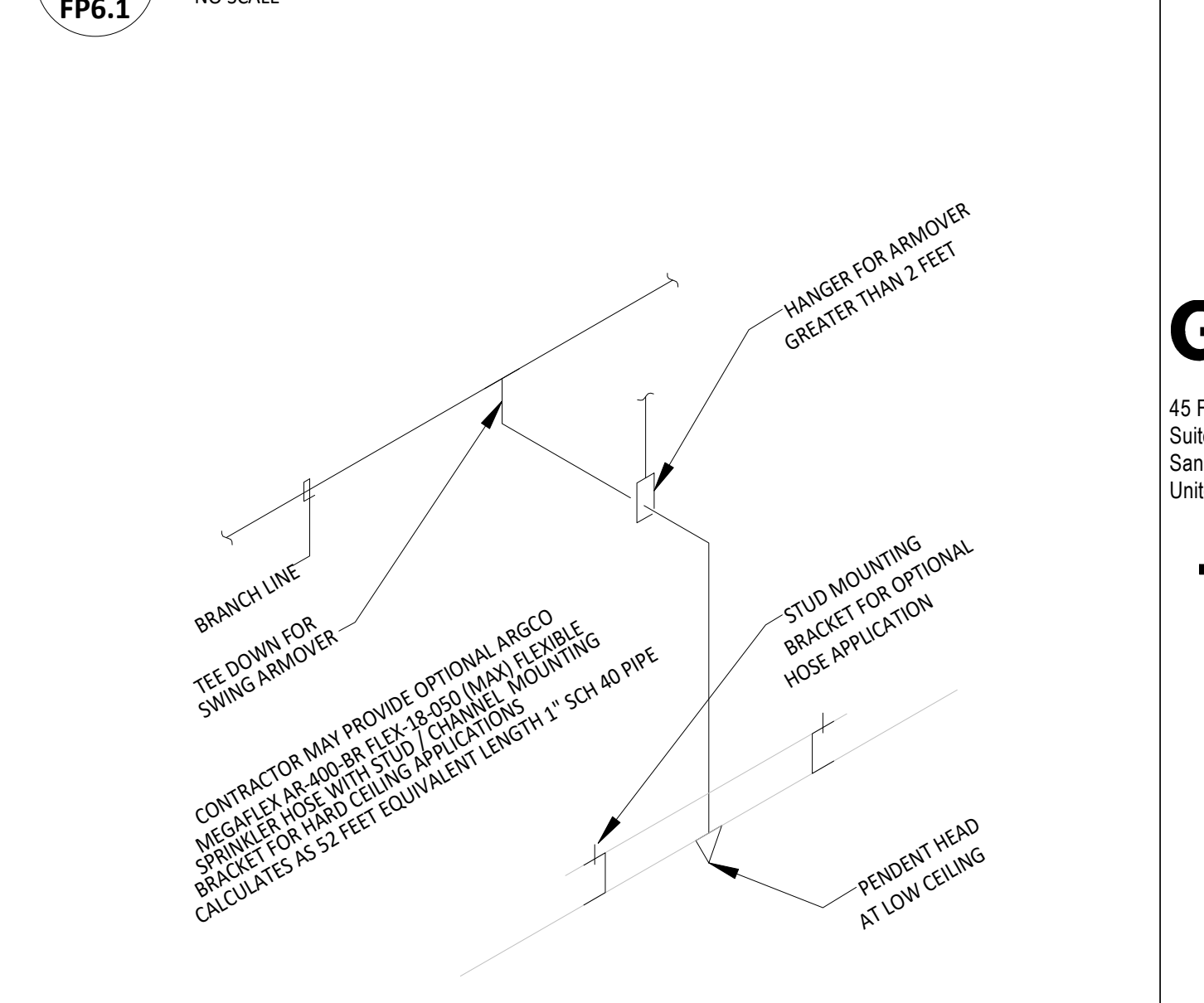
6 FIRE CAULKING
 NO SCALE
 FP6.1

HYDRAULIC - SYSTEM	
LOCATION:	THIS BUILDING IS PROTECTED BY A HYDRAULIC DESIGN AUTOMATIC SPRINKLER SYSTEM
SPRINKLER INFORMATION	
NUMBER OF FLOWING SPRINKLERS:	XXXXXXX
MANUFACTURER:	XXXXXX MODEL: XX TEMPERATURE: XXXXX
TYPE:	QUICK RESPONSE K-FACTOR: XXX
ORIFICE:	XX
BASIS OF DESIGN	
STANDARD:	NFPA 13, 2016 EDITION HAZARD GROUP: XXX
DENSITY:	XXX DESIGN AREA OF DISCHARGE: XXX SQ. FT.
SYSTEM DEMAND	
FLOW AT THE BASE OF THE RISER:	XXX GPM HOSE STREAM ALLOWANCE:
RESIDUAL PRESSURE AT THE BASE OF THE RISER:	XXX PSI INSIDE: XXX GPM
FLOW AT THE WATER SOURCE:	XXX GPM TOTAL: XXX GPM
RESIDUAL PRESSURE AT WATER SOURCE:	XXX PSI REMOTE SPRINKLER FLOW @: XXX PSI

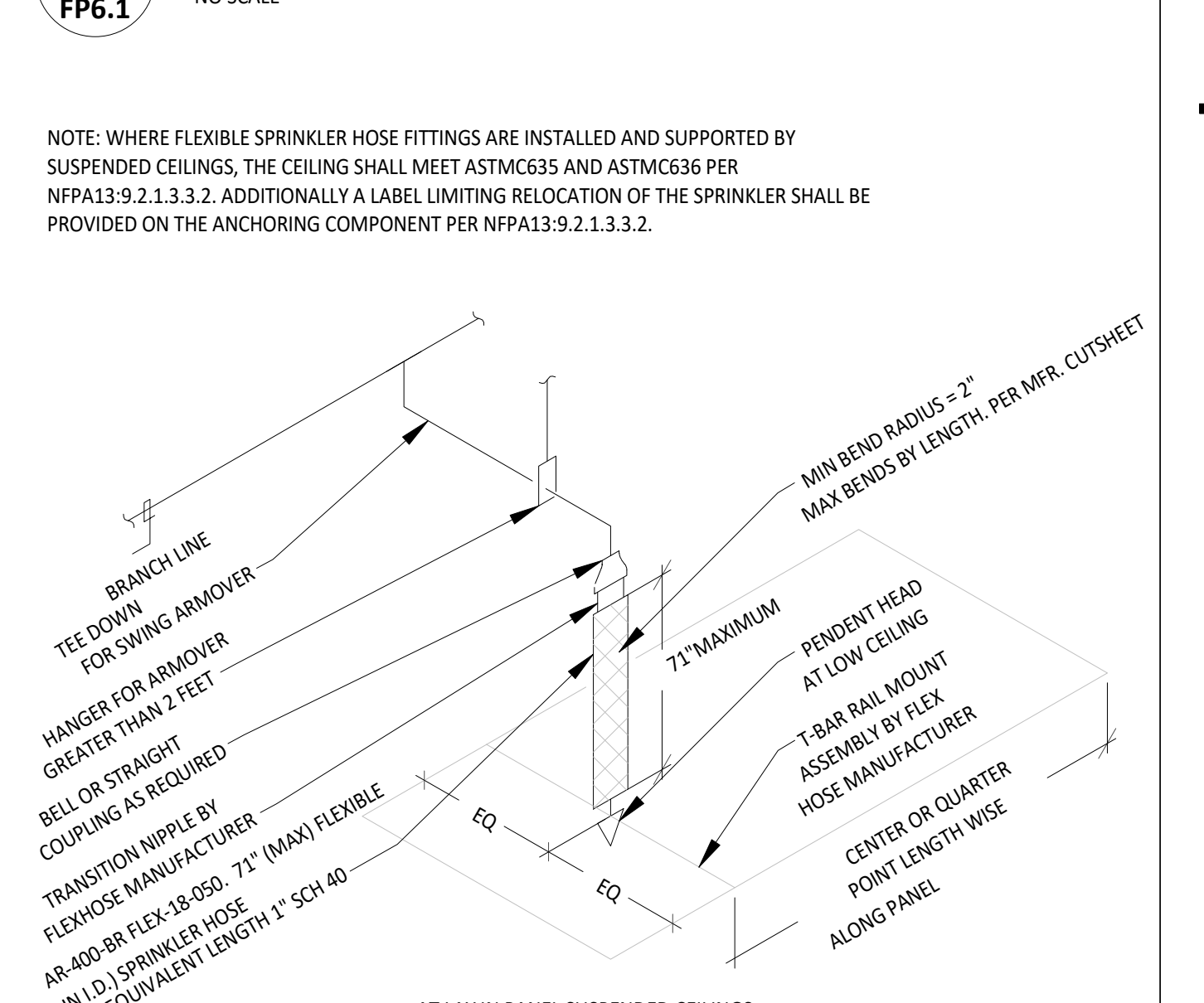
7 HYDRAULIC DATA PLATE
 NO SCALE
 FP6.1



1 WET RISER
 NO SCALE
 FP6.1



2 DROP HARD CEILING
 NO SCALE
 FP6.1



3 DROP SUSPENDED CEILING
 NO SCALE
 FP6.1

THIS BUILDING IS PROTECTED BY A HYDRAULIC DESIGN AUTOMATIC SPRINKLER SYSTEM

LOCATION: _____

SPRINKLER INFORMATION

NUMBER OF FLOWING SPRINKLERS: XXXXXXX

MANUFACTURER: XXXXXX MODEL: XX TEMPERATURE: XXXXX

TYPE: QUICK RESPONSE K-FACTOR: XXX

ORIFICE: XX

BASIS OF DESIGN

STANDARD: NFPA 13, 2016 EDITION HAZARD GROUP: XXX

DENSITY: XXX DESIGN AREA OF DISCHARGE: XXX SQ. FT.

SYSTEM DEMAND

FLOW AT THE BASE OF THE RISER: XXX GPM HOSE STREAM ALLOWANCE:

RESIDUAL PRESSURE AT THE BASE OF THE RISER: XXX PSI INSIDE: XXX GPM

FLOW AT THE WATER SOURCE: XXX GPM TOTAL: XXX GPM

RESIDUAL PRESSURE AT WATER SOURCE: XXX PSI REMOTE SPRINKLER FLOW @: XXX PSI

NOTE: SEE FP2.1 FOR DATA PLATE INFORMATION FOR EACH SYSTEM

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AE Project #: 20210022 32 Lower Nagdale Dr., Suite A, Monterey, California 93940-5788

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DSA APP NO. 01-119906

ARCH PROJECT NO: 1897.00

DRAWN BY: CAD

DRAWING SCALE: AS NOTED

PTN: 43-C4 FILE NO: N/A

DSA SUBMITTAL
 FEBRUARY 4, 2022

SHEET TITLE

DETAILS FIRE PROTECTION

SHEET NUMBER

FP6.1

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	MOUNTING
A	2" W x 4" L RECESSED 1" BAR LED FIXTURE, STEEL HOUSING, ANGLED LENS, DIFFUSE CENTER OPTICS, SINGLE CIRCUIT, HIGH OUTPUT LUMENS, WHITE FINISH, 0-10V DIMMING DRIVER, 277V.	41W 3500°K	FINELITE HPR LED SERIES	(6) E8104
A1	SAME AS LIGHT FIXTURE TYPE "A" EXCEPT SURFACE MOUNTED	41W 3500°K	FINELITE HPR LED SERIES	(6) E8104
B4	2 1/2" x 2 1/2" x 4 FOOT LONG DIRECT/INDIRECT LED CABLE SUSPENDED FIXTURE, PRECISION CUT EXTRUDED ALUMINUM BODY, STANDARD OUTPUT TOP GLOW UPPER DIFFUSER, VERY HIGH OUTPUT BOTTOM DIFFUSER CONFIGURATION, FULLY ADJUSTABLE PLATED STEEL AIRCRAFT CABLE, FINELITE SIGNAL WHITE FINISH, 277V CONSTANT CURRENT LED DRIVE 0-10V DIMMING.	48W 3500°K	FINELITE HPX SERIES	(5) E8104
B6	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 6 FOOT LONG.	40W 3500°K	FINELITE HPX SERIES	
B8	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 8 FOOT LONG.	80W 3500°K	FINELITE HPX SERIES	
B12	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 12 FOOT LONG.	120W 3500°K	FINELITE HPX SERIES	
B13	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 13 FOOT LONG.	130W 3500°K	FINELITE HPX SERIES	
B24	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 24 FOOT LONG.	240W 3500°K	FINELITE HPX SERIES	
B27	SAME AS LIGHT FIXTURE TYPE "B4" EXCEPT 27 FOOT LONG.	270W 3500°K	FINELITE HPX SERIES	
C4	4" DIRECT/INDIRECT WALL MOUNTED LED FIXTURE, EXTRUDED ALUMINUM HOUSING, FLAT ALUMINUM END CAPS, TOP GLOW DIFFUSER, FLUSH DOWNLIGHT DIFFUSER, HIGH OUTPUT UPLIGHT, BOOSTED OUTPUT DOWNLIGHT, MOUNTING BRACKET, WHITE POWDER COAT FINISH, SINGLE CIRCUIT, 0-10 DIMMING DRIVER, 277V.	47W 3500°K	FINELITE HP2 SERIES	
C12	SAME AS LIGHT FIXTURE TYPE "C4" EXCEPT 12 FOOT LONG.	141W 3500°K	FINELITE HP2 SERIES	
D2	2 FT. DIAMETER HIGH PERFORMANCE 4" APERTURE CIRCLE LED LIGHT FIXTURE, DIRECT/INDIRECT LED CABLE SUSPENDED PRECISION CUT EXTRUDED ALUMINUM BODY, STANDARD OUTPUT TOP GLOW UPPER DIFFUSER, VERY HIGH OUTPUT BOTTOM DIFFUSER CONFIGURATION, FULLY ADJUSTABLE PLATED STEEL AIRCRAFT CABLE, FINELITE SIGNAL WHITE FINISH, 277V CONSTANT CURRENT LED DRIVE 0-10V DIMMING.	28W 3500°K	FINELITE HP4-C SERIES	(5) E8104
D3	SAME AS LIGHT FIXTURE TYPE "D2" EXCEPT 3 FOOT DIAMETER.	46W 3500°K	FINELITE HP4-C SERIES	
D4	SAME AS LIGHT FIXTURE TYPE "D2" EXCEPT 4 FOOT DIAMETER.	60W 3500°K	FINELITE HP4-C SERIES	
D6	SAME AS LIGHT FIXTURE TYPE "D2" EXCEPT 6 FOOT DIAMETER.	90W 3500°K	FINELITE HP4-C SERIES	
E	CLEAR INJECTION MOLDED ACRYLIC EXIT PLAQUE, CLEAR BACKGROUND, GREEN LETTERS, SEE PLANS FOR NUMBER OF FACES, ARROWS AND MOUNTING REQUIRED. CLEAR BACKGROUND, HIGH STRENGTH SATIN ALUMINUM TRIM, 10 YEAR LED LIFE, 277V.	LED INCLUDED WITH FIXTURE	DUAL LITE LE SERIES	
F	4.5" SQUARE, RECESSED LED DOWNLIGHT FIXTURE, FORMED STEEL HOUSING, MEDIUM ANGLE REFLECTOR, FLUSH END, CLEAR SEMI SPECULAR REFLECTOR, L20LUMEN PACKAGE, 0-10 DIMMING DRIVER, 277V.	23.5W 3500°K	4PS SERIES WILLIAMS LIGHTING	
G	8" DIA. RECESSED LED DOWNLIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, LOW IRIDESCENT ALUMINUM CLEAR SEMI-SPECULAR REFLECTOR, 0-10 DIMMING DRIVER, 277V.	19W 3500°K	WILLIAMS LIGHTING H85 SERIES	
H	8" DIA. RECESSED LED DOWNLIGHT FIXTURE, ALUMINUM EXTRUDED HEAT SINK, CLEAR SPECULAR REFLECTOR, WIDE DISTRIBUTION, 0-10 DIMMING DRIVER, 277V.	72W 4000°K	WILLIAMS LIGHTING H85 SERIES	
H1	SAME AS LIGHT FIXTURE TYPE "H" EXCEPT LOWER WATTAGE.	72W 4000°K	WILLIAMS LIGHTING H85 SERIES	
K3	SURFACE MOUNTED HIGH PERFORMANCE SINGLE CIRCUIT TRACK LIGHTING WITH (3), HEAVY-DUTY DIE-CAST LIGHT FIXTURE ADAPTER AND HOUSING, 277V 0-10V DIMMING.	(3) 25W 3500°K	INTENSE LIGHTING GTW SERIES	
K6	SAME AS LIGHT FIXTURE TYPE "K3" EXCEPT WITH (6) LIGHT FIXTURES.	(6) 25W 3500°K	INTENSE LIGHTING GTW SERIES	
M3	3 FOOT LONG, SURFACE MOUNTED, COMPACT HIGH PERFORMANCE LINEAR GRAZER LED LUMINAIRE, 60 DEGREE BEAM ANGLE, COLOR CHANGING (RGB) AND DIMMING (0-10V) FEATURES, 277V DRIVER.	36W 3500°K	LINEALUX LS9030 SERIES	
M8	SAME AS LIGHT FIXTURE TYPE "M3" EXCEPT 8 FOOT LONG.	96W 3500°K	LINEALUX LS9030 SERIES	
M12	SAME AS LIGHT FIXTURE TYPE "M3" EXCEPT 12 FOOT LONG.	144W 3500°K	LINEALUX LS9030 SERIES	
M20	SAME AS LIGHT FIXTURE TYPE "M3" EXCEPT 20 FOOT LONG.	240W 3500°K	LINEALUX LS9030 SERIES	
N	APPROXIMATELY 23" DIA. PENDANT MOUNTED LED SPHERE LIGHT FIXTURE, DARK BRONZE FINISH, UL WET LISTED, TYPE 2 DISTRIBUTION, ADJUSTABLE PLATED STEEL AIRCRAFT CABLE, 277V CONSTANT CURRENT LED DRIVE 0-10V DIMMING.	65W 3000°K	LOUIS POULSEN PATERA SERIES	
P4	2 1/2" x 1 1/2" x 4 FOOT LONG DIRECT LED CABLE SUSPENDED FIXTURE, PRECISION CUT EXTRUDED ALUMINUM BODY, STANDARD OUTPUT TOP GLOW UPPER DIFFUSER, VERY HIGH OUTPUT BOTTOM DIFFUSER CONFIGURATION, FULLY ADJUSTABLE PLATED STEEL AIRCRAFT CABLE, FINELITE SIGNAL WHITE FINISH, 277V CONSTANT CURRENT LED DRIVE 0-10V DIMMING.	28W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	(6) E8104
P6	SAME AS LIGHT FIXTURE TYPE "P4" EXCEPT 6 FOOT LONG.	43W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	
P13	SAME AS LIGHT FIXTURE TYPE "P4" EXCEPT 13 FOOT LONG.	92W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	
P14	SAME AS LIGHT FIXTURE TYPE "P4" EXCEPT 14 FOOT LONG.	96W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	
P16	SAME AS LIGHT FIXTURE TYPE "P4" EXCEPT 16 FOOT LONG.	114W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	
P18	SAME AS LIGHT FIXTURE TYPE "P4" EXCEPT 18 FOOT LONG AND VERY HIGH OUTPUT.	132W 3500°K	FINELITE HP2 ACOUSTIC BAFFLE	
X1	15" W x 33 1/2" L, POLE MOUNTED SLEEK PROFILE LED LIGHT FIXTURE WITH COMBINATION OPTICS, STANDARD DIE-CAST ALUMINUM HOUSING AND DOOR FRAME, TYPE 4 DISTRIBUTION, BRONZE COLOR, INTEGRAL 8-LEVEL INFRARED MOTION RESPONSE MODULE, UNIVERSAL VOLTAGE, MOUNT ON 18" FT. STRAIGHT ROUND ALUMINUM POLE.	130W 4000°K	PHILIPS PARCO PURECORE 200 SERIES POLE REED-2M2-1	(1) E8104
X2A	36" L x 3" W x 4" H, POLE MOUNTED SLEEK PROFILE LED LIGHT FIXTURE, ALUMINUM EXTRUSION HOUSING WITH CAPTIVE STAINLESS STEEL HARDWARE BRONZE COLOR, INTEGRAL INFRARED MOTION RESPONSE MODULE, UNIVERSAL VOLTAGE, MOUNT ON 20 FT "REED" ROUND ANGLED STEEL POLE WITH CUSTOM BRACKETS, COLOR BY ARCHITECT.	76W LED 4000°K	STRUCTURA LINEAL SERIES POLE REED-2M2-1	(3) E8104
X2B	36" L x 3" W x 4" H, POLE MOUNTED SLEEK PROFILE LED LIGHT FIXTURES, ALUMINUM EXTRUSION HOUSING WITH CAPTIVE STAINLESS STEEL HARDWARE BRONZE COLOR, INTEGRAL INFRARED MOTION RESPONSE MODULE, UNIVERSAL VOLTAGE, MOUNT ON 20 FT "REED" ROUND ANGLED STEEL POLE WITH CUSTOM BRACKETS, COLOR BY ARCHITECT.	76W LED 4000°K TYPE 2 DIST 95W LED 4000°K TYPE 4 DIST	STRUCTURA LINEAL SERIES POLE REED-2M3-2	(2) E8104
X3	APPROX. 30" H x 7" W, MARINE GRADE ALUMINUM, LED BOLLARD LIGHT FIXTURE, DARK BRONZE FINISH, UL WET LISTED, TYPE 2 DISTRIBUTION, 277V DRIVER.	16W LED 4000°K	WE-FE #1141317	(2) E8104
X4	24" W x 3 1/2" H x 5 1/2" D, LED FLOOD LIGHT, EXTRUDED ALUMINUM HOUSING, DARK BRONZE MATTE FINISH, MEDIUM FLOOD OPTICS, UNIVERSAL VOLTAGE DRIVER.	30W LED 4000°K	KIM LIGHTING INT WHITE SERIES	
X5	11" W x 11" H x 5 1/2" D, WALL MOUNTED LED LIGHT FIXTURE, ONE-PIECE DIE-CAST ALUMINUM HOUSING, BRONZE FINISH, TEMPERED CLEAR GLASS, 277V DRIVER.	30W LED 4000°K	BEGA #33243	
X6	8" DIA. RECESSED LED DOWNLIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, OPEN REFLECTOR, MEDIUM BEAM SPREAD, EXTRUDED HEAT SINK, CLEAR SPECULAR REFLECTOR, WIDE DISTRIBUTION, WET LOCATION TRIM, 0-10 DIMMING DRIVER, 277V.	108W 4000°K LED	WILLIAMS LIGHTING 80R SERIES	
X7	59" W x 4" H x 5" D, WALL MOUNTED LED LIGHT FIXTURE, ONE-PIECE DIE-CAST ALUMINUM HOUSING, BRONZE FINISH, MATTE SAFETY GLASS, 277V DRIVER.	30W LED 4000°K	BEGA #44419	
X8	APPROX. 12" DIA. IN-GROUND LED LIGHT FIXTURE, ONE-PIECE CAST BRONZE HOUSING, FULLY SEALED WITH HIGH TEMPERATURE ANTI-SYPHON, SEALED CABLE AND TEMPER RESISTANT S.S. FASTENERS, 1/4" S.S. BRUSHED FINISH, WALL WASH, BLUE TINTED ENABLED OPTICAL MODULE, CLEAR 1/4" THICK TEMPERED GLASS LENS, UNIVERSAL VOLTAGE DRIVER.	40W 3000°K LED	KIM LIGHTING #LTV1855-WV SERIES	(7) E8104
X9	4" LONG, SURFACE CEILING MOUNTED VAPORPROOF LED LIGHT FIXTURE, UL LISTED FOR DRY OR WET LOCATIONS, UNIVERSAL VOLTAGE DRIVER.	61W LED 4000°K	WILLIAMS LIGHTING 96L SERIES	(8) E8104
X10	RECESSED IN CONCRETE LED STEP LIGHT FIXTURE, IP65 RATED, 120/277V INTEGRAL DRIVER, UL LISTED FOR WET LOCATIONS, BRONZE FINISH.	6W LED 3200°K	BRUCK LIGHTING 138022-B2-3-HL	
X11	SURFACE MOUNTED DECORATIVE LINEAR LED ROPE LIGHT FIXTURE, FOR DRY OR WET LOCATIONS, 120V DRIVER, WARM WHITE COLOR, WHITE HOUSING.	180W LED 3200°K	CALI ACCENT LIGHTING NLED SERIES	
X12	IN-GROUND, WEATHERPROOF, LANDSCAPE LED LIGHT FIXTURE, COPPER FREE-ALUMINUM HOUSING, ADJUSTABLE HEAD, 277V DRIVER.	15W LED 3000°K	BK LIGHTING ALPS SERIES	

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE

EMERGENCY OR NIGHT LIGHT

STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE

LUMINAIRE - RECESSED - SEE SCHEDULE

RECESSED WALL SURFACE

LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE

LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE

LUMINAIRE - WALL MOUNTED SEE SCHEDULE

BOLLARD OR PATH LIGHT - SEE SCHEDULE

EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE

TRACK LIGHTING - SEE SCHEDULE

EMERGENCY LIGHT

DIGITAL DUAL TECHNOLOGY OCC. SENSOR

LIGHTING CONTROL OCCUPANCY SENSOR (CORNERS MOUNTED)

DIMMER ROOM CONTROLLER

PLUG LOAD CONTROLLER

ROOM LIGHTING CONTROLLER

LIGHTING CONTROL PANEL

DIGITAL DAYLIGHT SENSOR

SINGLE POLE SWITCH **

SINGLE POLE SWITCH **

a = CIRCUIT CONTROLLED

THREE WAY SWITCH**

FOUR WAY SWITCH**

MANUAL MOTOR STARTER

KEY OPERATED SWITCH**

LIGHTING DIMMER**

DIGITAL ON/OFF SWITCH **

DIGITAL DIMMER SWITCH**

DIGITAL MULTI SCENE LIGHTING SWITCH **

DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR**

WALL OCCUPANCY SENSOR **

DOUBLE SWITCHED WALL OCCUPANCY SENSOR **

DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **

2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **

SECURITY DOOR CONTACTS

SECURITY MOTION DETECTOR

CCTV CAMERA

SECURITY SYSTEM KEYPAD

DOOR BELL PUSHBUTTON

DOOR CHIME WITH LED

RECEPTACLE - DUPLEX*

DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

GFCI CONVENIENCE RECEPTACLE - DUPLEX*

GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

RECEPTACLE DOUBLE DUPLEX*

HALF SWITCHED DUPLEX RECEPTACLE *

SINGLE RECEPTACLE*

DUPLEX RECEPTACLE - CEILING MOUNTED

LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *

LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *

FLOOR MOUNTED DUPLEX RECEPTACLE

FLOOR MOUNTED BOX

POWER OUTLET - SEE PLANS FOR NEMA TYPE*

POWER POLE

WALL TELEPHONE OUTLET **

VOICE/DATA WALL OUTLET *

VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

SURFACE MOUNTED VOICE/DATA WALL OUTLET *

SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED

WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT

VOICE/DATA OUTLET - FLOOR MOUNTED

TV OUTLET *

VOICE/DATA OUTLET - CEILING MOUNTED

INTERIOR SPEAKERS CEILING MOUNTED

INTERIOR SPEAKERS WALL MOUNTED

CLOCK 48" AFF. U.O.N. VERIFY BEFORE INSTALLATION

PANELBOARD - FLUSH MOUNTED

EQUIPMENT PANEL - FLUSH MOUNTED

PANELBOARD - SURFACE MOUNTED

EQUIPMENT PANEL - SURFACE MOUNTED

METER W/ CURRENT TRANSFORMER

JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES

MOTOR CONNECTION

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH, FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA

COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA

MAGNETIC STARTER - NEMA SIZE INDICATED

NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED

CIRCUIT BREAKER

GROUND ROD WITH GROUNDWELL BOX

GROUND ELECTRODE

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

TRANSFORMER - SEE SINGLE LINE FOR SIZE

PULLBOX

FLEX CONDUIT WITH CONNECTION

CONDUIT - UP

CONDUIT - DOWN

SURFACE METAL OR NON-METALLIC RACEWAY

CONDUIT - EXISTING

CONDUIT - CONCEALED IN WALLS OR CEILING

CONDUIT - BELOW SLAB OR UNDERGROUND, 3/4" MIN.

CAPPED OR STUB-OUT CONDUIT

CONDUIT CONTINUATION

CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. AS INDICATED

RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO, SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE

CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.

SHEET NOTE REFERENCE SYMBOL, SEE ASSOCIATED NOTE ON SAME SHEET

SCHEDULE SYMBOL, SEE ASSOCIATED NOTE ON SAME SHEET

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT INTERRUPTING ON CENTER
AF	ABOVE FINISHED FLOOR	GND, G	GROUND
AL	ALUMINUM	GRS	GALVANIZED RIGID STEEL
ARCH	ARCHITECT	HT	HEIGHT
AWG	AMERICAN WIRE GAUGE	IDF	INTERCOM
BKR	BREAKER	IC	INTERMEDIATE DISTRIBUTION FRAME
C	CONDUIT	INCAND	INCANDESCENT
CATV	CABLE TV	INCB	INCANDESCENT JUNCTION BOX
CB	CIRCUIT BREAKER	KV	KILOVOLT
CCTV	CLOSED CIRCUIT TV CIRCUIT	KVA	KILOVOLT AMPERES
CKT	CIRCUIT	KW	KILOWATT
CLG	CENTRAL LINE	LCP	LIGHTING CONTROL
CLG	CEILING	LVT	LOW VOLTAGE
C.O.	CONDUIT ONLY	KCM	THOUSAND CIRCULAR MILS
CTR	CENTER	M.B.	MAIN CIRCUIT BREAKER
D	DIMMER	MCA	MINIMUM CIRCUIT AMPS
DM	DIMENSION	MDF	MAIN DISTRIBUTION FRAME
DIST	DISTRIBUTION	MECH	MECHANICAL
(E)	EXISTING	MH	METAL HALIDE
EC	ELECTRICAL CONTRACTOR	MLO	MAIN LUMEN ONLY
(EL)	EVENING LIGHT	MPDE	MAIN POINT OF ENTRANCE
EM	EMERGENCY	MTD	MOUNTING
EMT	ELECTRICAL METALLIC TUBING	MOCP	MAXIMUM OVERCURRENT PROTECTION
EQUIP	EQUIPMENT	(N)	NEW
EV	ELECTRICAL VEHICLE	FL	FLOOR
FA	FIRE ALARM	FLA	FULL LOAD AMPS
FACP	FIRE ALARM CONTROL PANEL	(F)	FUTURE
FC	FOOT CANDLE	(G)	GENERAL CONTRACTOR
FIN	FINISH	(N)	NORMAL
FL	FLOOR	NO	NORMAL
FLA	FULL LOAD AMPS	NO	NORMAL
FLUOR	FLUORESCENT		
(F)	FUTURE		
(G)	GENERAL CONTRACTOR		
NO	NORMAL		
NO	NORMAL		

GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL PROPERTY DAMAGE. TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12 WITH ONE (1) #12 GROUND. "THICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUTING ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
- ALL 200/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- FROM ALL NEW FLUSH MOUNT PANELS: THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
- CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR SHALL INSTALL RACEWAY MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.
- CONTRACTOR SHALL COORDINATE WITH P&E, AT&T & PAY ALL CHARGES FOR TEMPORARY CONSTRUCTION POWER & TELEPHONE.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND OBTAIN UTILITY COMPANY CONSTRUCTION DOCUMENTS. UTILITY COMPANY CHARGES SHALL BE PAID BY OWNER.

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1-18 THROUGH 1617A.1.25 AND ASCE 7-16 CHAPTER 13, 29.6 & 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 4 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR RUNS FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

MP MD PP PP E E E E - OPTION 1 DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP PP E E E E - OPTION 2 SHALL COMPLY WITH THE APPLICABLE OSHD PRE-APPROVED (OPM #)

CODES & STANDARDS

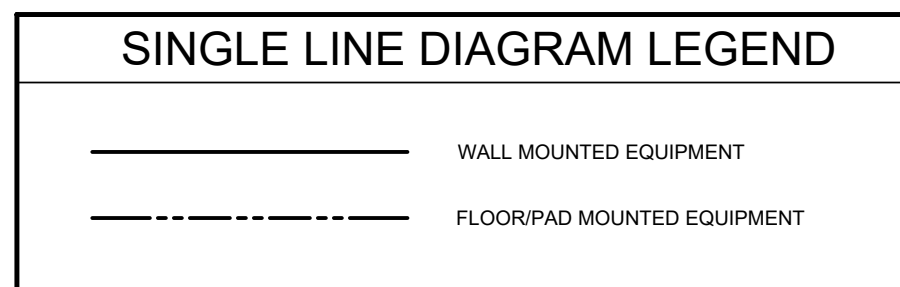
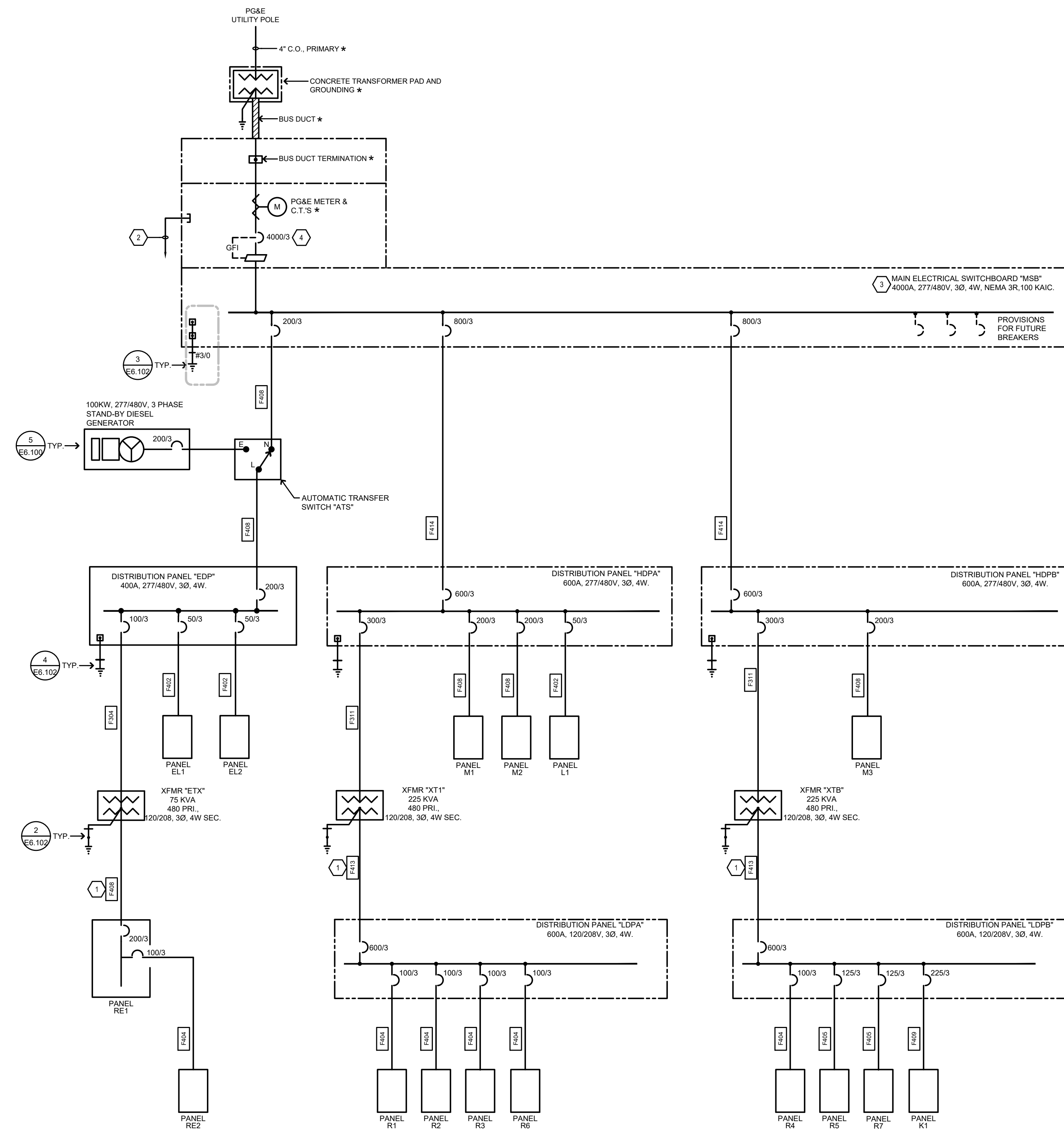
- CODES:**
- 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
 - 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018 INTERNATIONAL PLUMBING CODE (IPC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
 - 2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
 - 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
 - TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
 - NATIONAL FIRE ALARM CODE (NFPA 72) 2016.
 - CITY OF HOLISTER ORDINANCES, CODES, AND REGULATIONS.
- STANDARDS:**
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
 - UNDERWRITER LABORATORIES (UL)
 - CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

SYMBOL	DESCRIPTION
E0.100	SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE, CODES, STANDARDS, NOTES.
E0.101	CALIFORNIA ENERGY COMPLIANCE T-24 (BUILDING EXTERIOR).
E1.100	ELECTRICAL SINGLE LINE DIAGRAM & PANELBOARD SCHEDULES.
E1.101	PANELBOARD SCHEDULES.
E1.102	PANELBOARD SCHEDULES.
E2.100	OVERALL ELECTRICAL SITE PLAN.
E4.100	PARTIAL POWER PLAN - SECTOR "A"
E4.101	PARTIAL POWER PLAN - SECTOR "B"
E4.102	PARTIAL POWER PLAN - SECTOR "C"
E4.103	CAFÉ & STAGING KITCHEN POWER PLAN.
E4.200	PARTIAL ROOF PLAN - SECTOR "A"
E4.201	PARTIAL RO

SHEET NOTES

- CONDUCTOR LENGTH SHALL NOT EXCEED 10'-0".
- INSTALL DEDICATED PHONE LINE IN 1" C. FROM AT&T MPOE IDF LOCATION, FIELD VERIFY.
- CONTRACTOR SHALL PLACE A PERMANENT WARNING LABEL ON FACE OF SWITCHBOARD WITH THE AVAILABLE FAULT CURRENT. LABEL SHALL INCLUDE DATE OF INSTALLATION.
- SEE ELECTRICAL SPECIFICATIONS FOR TRIP STUDIES REQUIRED TO SET ELECTRONIC BREAKER TRIP SETTINGS.

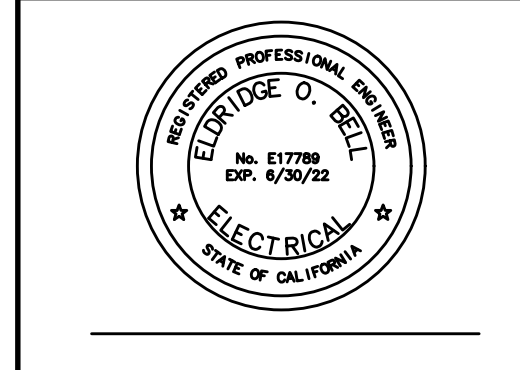


FEEDER SCHEDULE

DESIGNATION	AMPACITY	CONDUIT & CONDUCTOR SIZES
F301	40	3/4" C., 3 #8 & 1 #10 GND.
F302	50/60	1" C., 3 #6 & 1 #10 GND.
F303	70	1 1/4" C., 3 #4 & 1 #6 GND.
F304	100	1 1/4" C., 3 #2 & 1 #6 GND.
F305	125	1 1/2" C., 3 #1 & 1 #6 GND.
F306	150	1 1/2" C., 3 #1/0 & 1 #6 GND.
F307	175	2" C., 3 #2/0 & 1 #6 GND.
F308	200	2" C., 3 #3/0 & 1 #6 GND.
F309	225	2" C., 3 #4/0 & 1 #4 GND.
F310	250	3" C., 3 #250kcm & 1 #4 GND.
F311	300	3" C., 3 #350kcm & 1 #4 GND.
F312	400	3 1/2" C., 3 #500kcm & 1 #2 GND.
F313	600	(2) 3" C., EACH W/3 #350kcm & 1 #1/0 GND (PARALLEL).
F314	800	(2) 3 1/2" C., EACH W/3 #500kcm & 1 #1/0 GND (PARALLEL).
F315	1000	(3) 3 1/2" C., EACH W/3 #400kcm & 1 #2/0 GND (PARALLEL).
F316	1200	(4) 3" C., EACH W/3 #350kcm & 1 #3/0 GND (PARALLEL).
F401	40	3/4" C., 4 #8 & 1 #10 GND.
F402	50/60	1" C., 4 #6 & 1 #10 GND.
F403	70	1 1/4" C., 4 #4 & 1 #6 GND.
F404	100	1 1/2" C., 4 #2 & 1 #6 GND.
F405	125	2" C., 4 #1 & 1 #6 GND.
F406	150	2" C., 4 #1/0 & 1 #6 GND.
F407	175	2" C., 4 #2/0 & 1 #6 GND.
F408	200	2 1/2" C., 4 #3/0 & 1 #6 GND.
F409	225	2 1/2" C., 4 #4/0 & 1 #4 GND.
F410	250	3" C., 4 #250kcm & 1 #4 GND.
F411	300	3 1/2" C., 4 #350kcm & 1 #4 GND.
F412	400	4" C., 4 #500kcm & 1 #2 GND.
F412T	400	4" C., 4 #600kcm & 1 #2 GND.
F413	600	(2) 3 1/2" C., EACH W/4 #350kcm & 1 #1/0 GND (PARALLEL).
F414	800	(2) 4" C., EACH W/4 #500kcm & 1 #1/0 GND (PARALLEL).
F414T	800	(2) 4" C., EACH W/4 #600kcm & 1 #1/0 GND (PARALLEL).
F415	1000	(3) 4" C., EACH W/4 #400kcm & 1 #2/0 GND (PARALLEL).
F416	1200	(4) 3 1/2" C., EACH W/4 #350kcm & 1 #3/0 GND (PARALLEL).

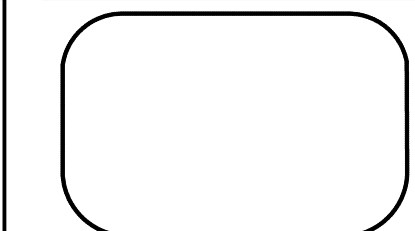
* PER PG&E RULES, REGULATIONS, AND STANDARDS

1 SINGLE LINE DIAGRAM
NO SCALE



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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

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HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906
ARCH PROJECT NO. 1897.00
DRAWN BY: CADD
DRAWING SCALE: AS NOTED
PTN: 43-C4 FILE NO. N/A
DSA SUBMITTAL
FEBRUARY 4, 2022
SHEET TITLE

ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER

E1.100

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SIGNED: MONTH DAY, 2021

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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

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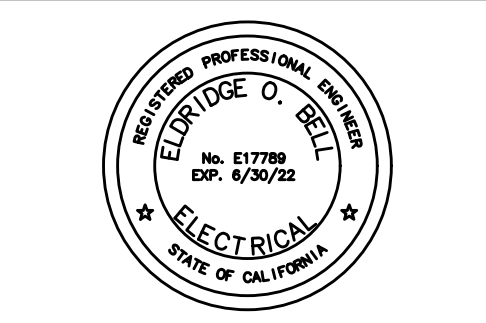
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906
ARCH PROJECT NO. 1897.00
DRAWN BY: CADD
DRAWING SCALE: AS NOTED
PTN: 43-C4 FILE NO. N/A
DSA SUBMITTAL
FEBRUARY 4, 2022
SHEET TITLE

PANELBOARD SCHEDULES

SHEET NUMBER

E1.102



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KEY MAP

Table with 2 columns: Panel Name and Location. Rows include PNL R4, PNL R3, PNL R5, PNL R6, PNL R7, DISP HDPB, PNL K1, PNL M3.

PANEL R4 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like RECEP-COMP-LAB A1 21, RECEP-COMP-LAB A1 22, etc.

PANEL R3 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like RECEP-MANT-A1 15, RECEP-MANT-A1 16, etc.

PANEL R5 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like FACRPS-1, RECEP-LAB A1 25, etc.

PANEL R6 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like RECEP-STAGE KITCHEN, RECEP-REFRIGERATORS, etc.

PANEL R7 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like RECEP-FLEX CLASSROOM A1 33, RECEP-FLEX CLASSROOM A1 34, etc.

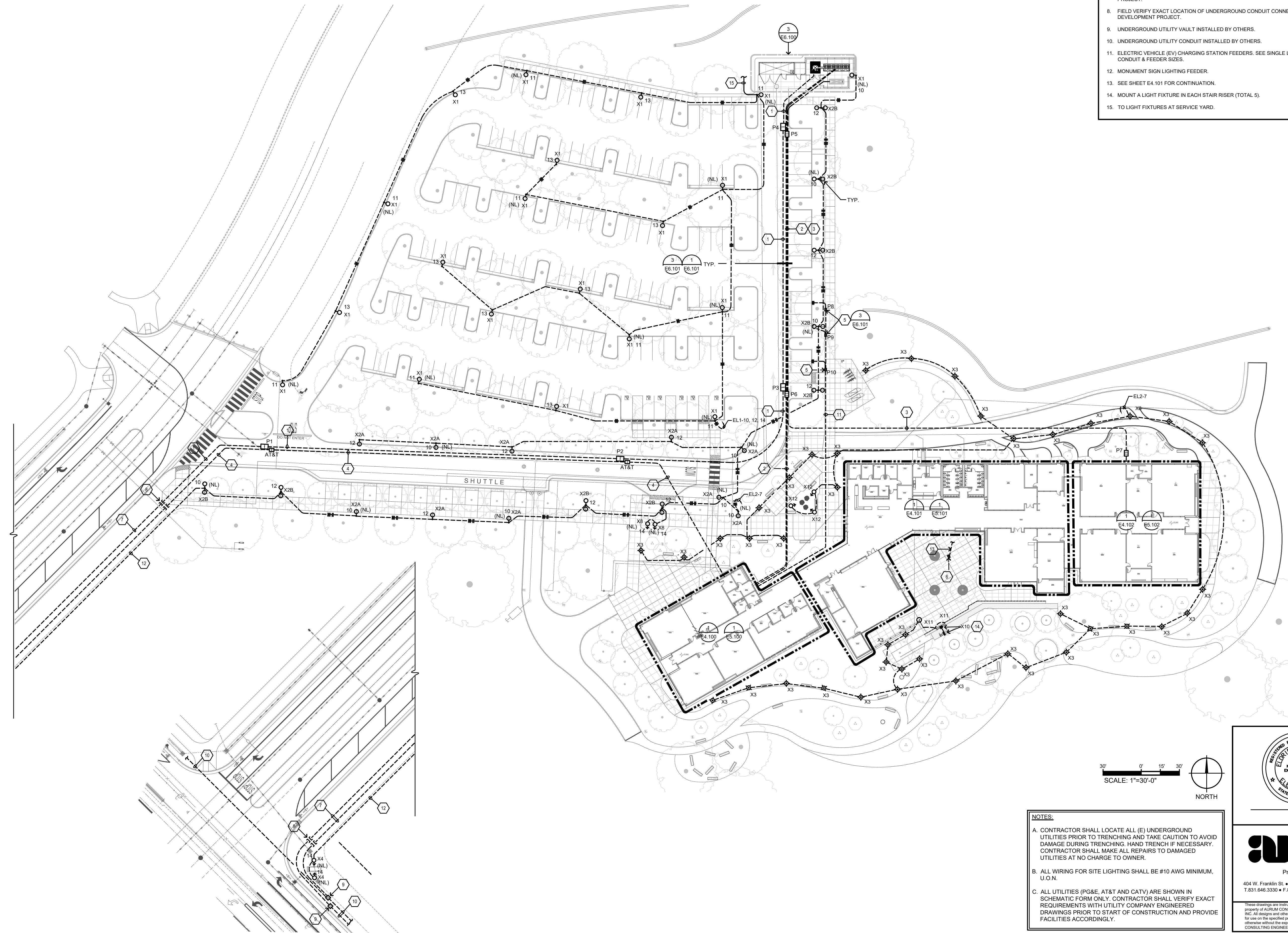
DISTRIBUTION PANEL HDPB Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like TRANSFORMER T1B, TRANSFORMER T1C, etc.

PANEL K1 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like HEAT LAMP, DROP-IN SOUP WELLS, REFRIGERATED DISPLAY, etc.

PANEL M3 Schedule Table. Columns: Voltage, Wire, Type, Name, Load (A, B, C), Breaker (Br, Ck, Jbc, Ck, Br), Amps (A, B, C), Description. Includes loads like HEAT PUMP HP-1, HEAT PUMP HP-2, HEAT PUMP HP-3, etc.

BIMBAUD: archiverver - BIMBAUD Basic for ARCHICAD 27/1897.00 GAVILAN COLLEGE 01/19/2021 18:42 PM

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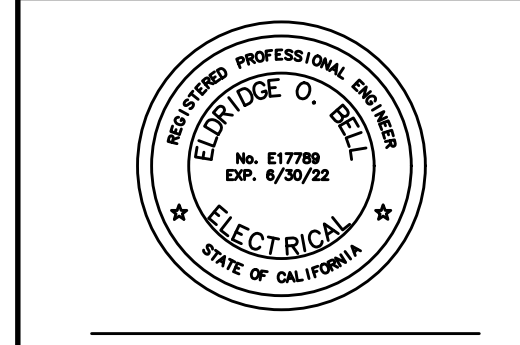
- ### ○ SHEET NOTES
1. PG&E UNDERGROUND ELECTRICAL PRIMARY.
 2. FEEDER TO DISTRIBUTION PANEL "DPH1" AND TO EMERGENCY PANEL "EP1". SEE SINGLE LINE DIAGRAM FOR FEEDER AND CONDUIT SIZE.
 3. FEEDER TO DISTRIBUTION PANEL "DPH2". SEE SINGLE LINE DIAGRAM FOR FEEDER AND CONDUIT SIZE.
 4. (2) 4" COMMUNICATIONS SERVICE CONDUIT.
 5. FOR ELECTRIC VEHICLE CHARGERS (EV).
 6. IN-GROUND POWER/COMMUNICATIONS BOX; VERIFY EXACT LOCATION WITH LANDSCAPE DRAWINGS.
 7. UNDERGROUND UTILITY CONDUITS INSTALLED BY OTHERS UNDER STREET DEVELOPMENT PROJECT.
 8. FIELD VERIFY EXACT LOCATION OF UNDERGROUND CONDUIT CONNECTIONS WITH STREET DEVELOPMENT PROJECT.
 9. UNDERGROUND UTILITY VAULT INSTALLED BY OTHERS.
 10. UNDERGROUND UTILITY CONDUIT INSTALLED BY OTHERS.
 11. ELECTRIC VEHICLE (EV) CHARGING STATION FEEDERS. SEE SINGLE LINE DIAGRAM FOR CONDUIT & FEEDER SIZES.
 12. MONUMENT SIGN LIGHTING FEEDER.
 13. SEE SHEET E4.101 FOR CONTINUATION.
 14. MOUNT A LIGHT FIXTURE IN EACH STAIR RISER (TOTAL 5).
 15. TO LIGHT FIXTURES AT SERVICE YARD.

NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. ALL WIRING FOR SITE LIGHTING SHALL BE #10 AWG MINIMUM, U.O.N.

C. ALL UTILITIES (PG&E, AT&T AND CATV) ARE SHOWN IN SCHEMATIC FORM ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY ENGINEERED DRAWINGS PRIOR TO START OF CONSTRUCTION AND PROVIDE FACILITIES ACCORDINGLY.



AURUM CONSULTING ENGINEERS
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Project No. 20-237.00

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STATE OF CALIFORNIA

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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

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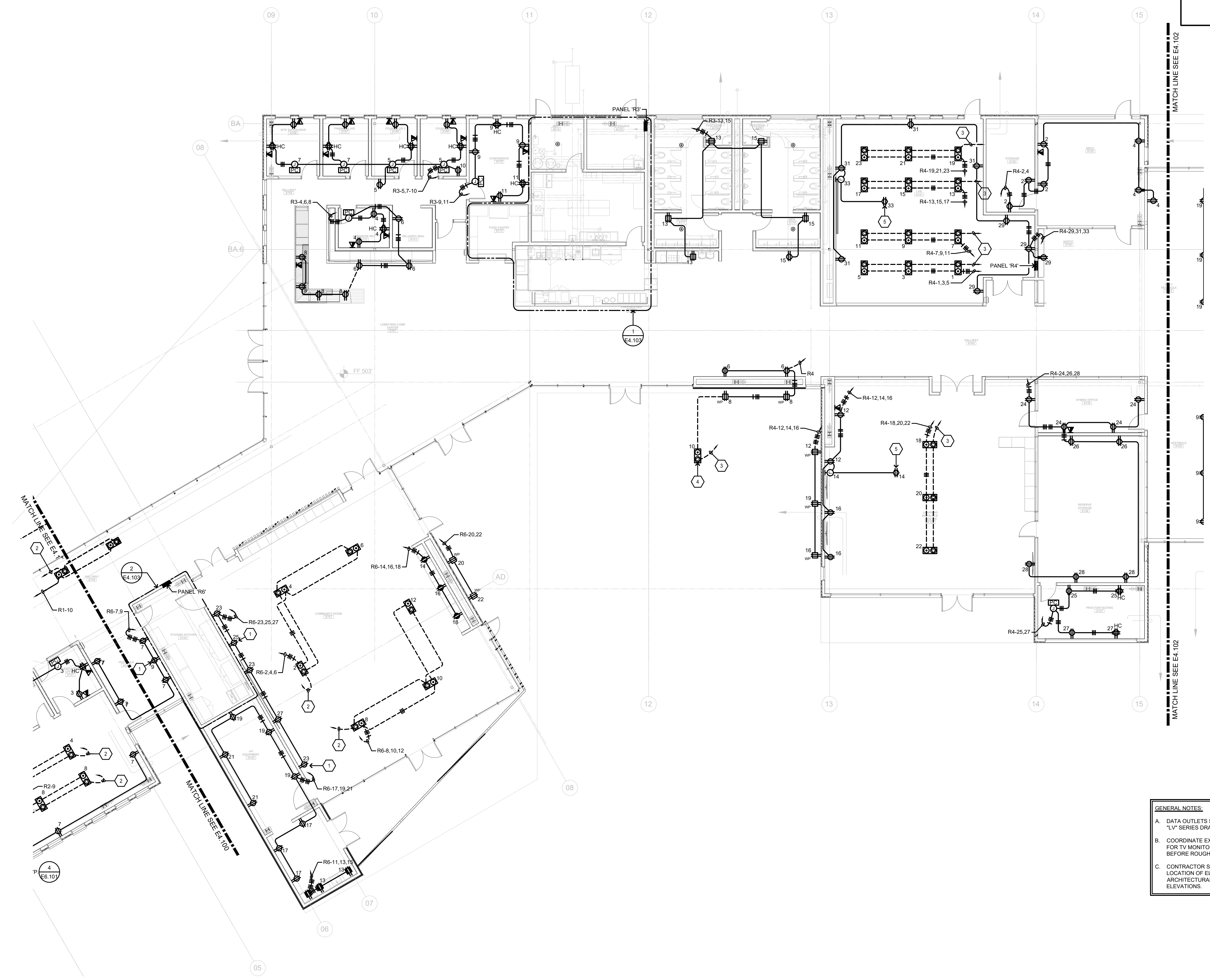
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO.	01-119906
ARCH PROJECT NO.	1897.00
DRAWN BY:	CADD
DRAWING SCALE:	AS NOTED
PTN:	43-C4
FILE NO.:	N/A
DSA SUBMITTAL	FEBRUARY 4, 2022
SHEET TITLE	

ELECTRICAL SITE PLAN

SHEET NUMBER
E2.100

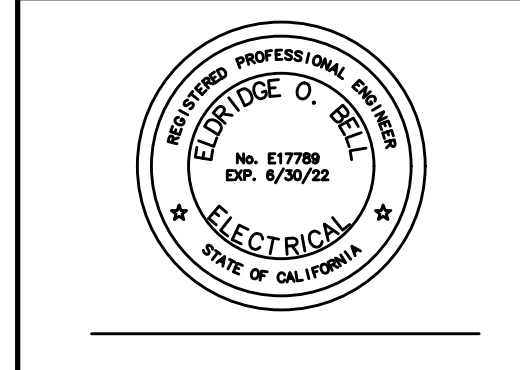
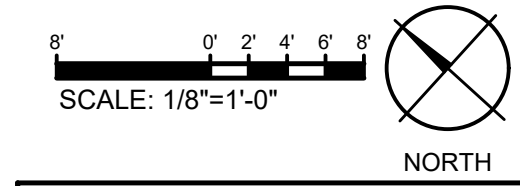
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- ### SHEET NOTES
- FOR FLAT SCREEN TV; COORDINATE HEIGHT WITH AV CONTRACTOR BEFORE ROUGH-IN.
 - 1/2" O. TO IDF ROOM A158; SEE SHEET E4.100. COORDINATE CONDUIT TERMINATION POINT WITH LOW VOLTAGE SYSTEMS CONTRACTOR.
 - 1/2" O. TO MDF ROOM A128; SEE SHEET E4.102. COORDINATE CONDUIT TERMINATION POINT WITH LOW VOLTAGE SYSTEMS CONTRACTOR.
 - SEE LANDSCAPE DRAWINGS FOR EXACT LOCATION.
 - FOR CEILING MOUNTED PROJECT; FIELD VERIFY EXACT LOCATION BEFORE ROUGH-IN.



- ### GENERAL NOTES:
- DATA OUTLETS SHOWN FOR REFERENCE ONLY. SEE "LV" SERIES DRAWINGS FOR EXACT REQUIREMENTS.
 - COORDINATE EXACT LOCATION OF POWER OUTLET FOR TV MONITORS WITH "AV" SERIES DRAWINGS BEFORE ROUGH-IN.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ELECTRICAL RECEPTACLES WITH ARCHITECTURAL CASE WORK DRAWINGS AND ELEVATIONS.



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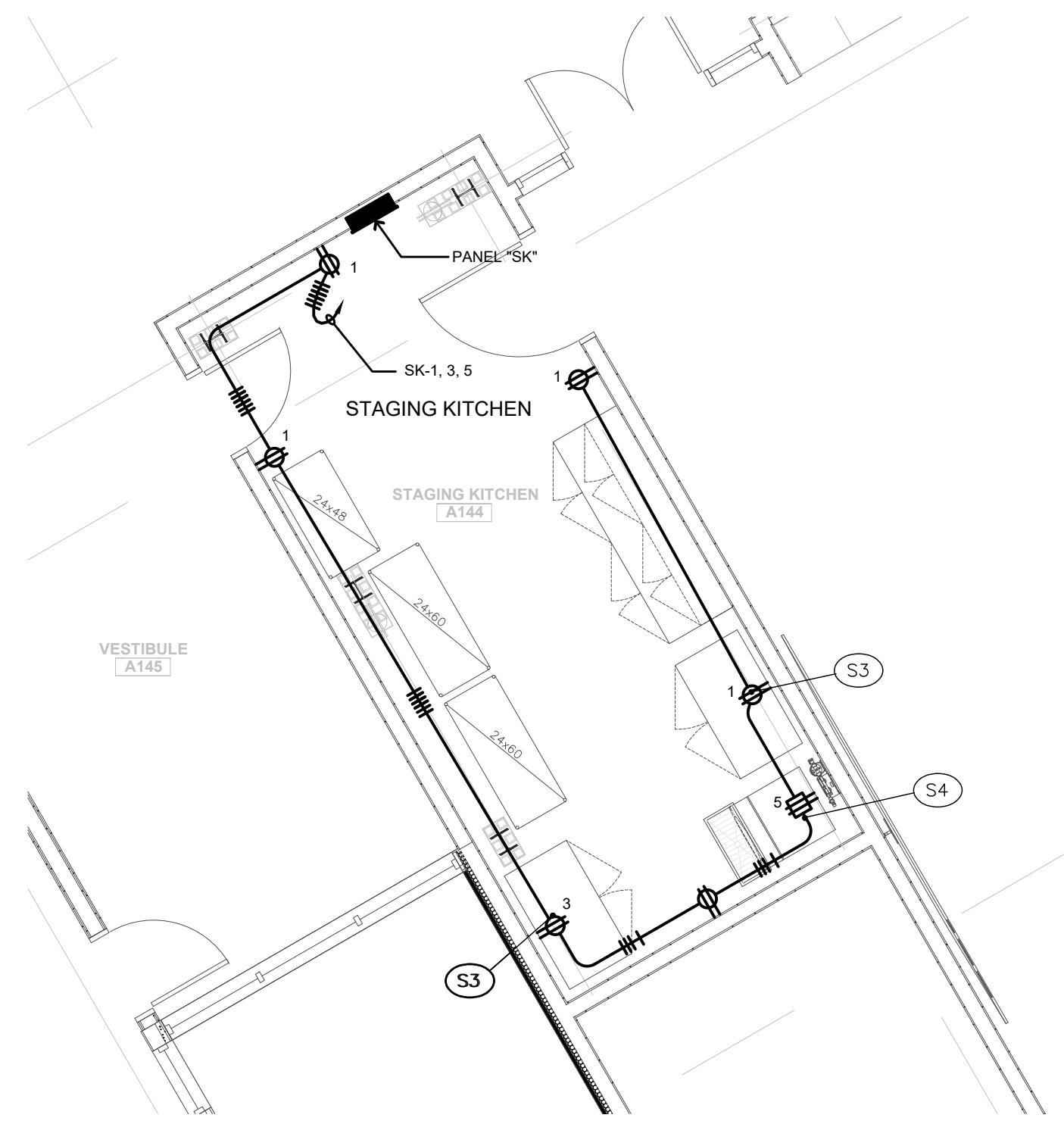
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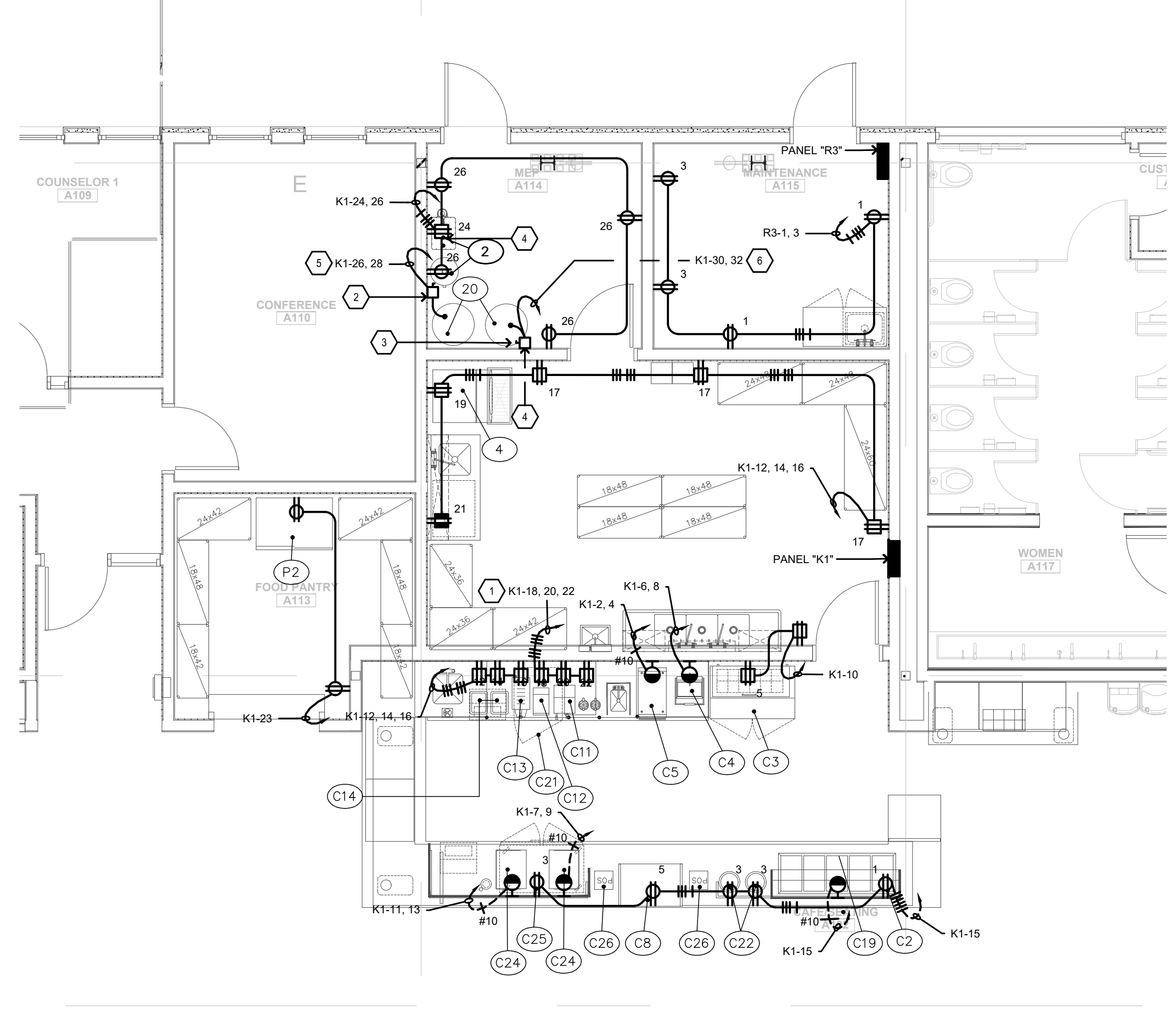
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ARCH PROJECT NO.	1897.00
DRAWN BY:	CADD
DRAWING SCALE:	AS NOTED
PTN:	43-C4
FILE NO. N/A	
DSA SUBMITTAL	
FEBRUARY 4, 2022	
SHEET TITLE	

PARTIAL POWER PLAN - SECTOR B

SHEET NUMBER
E4.101



2 STAGING KITCHEN ELECTRICAL PLAN
SCALE: 1/4"=1'-0"
NORTH



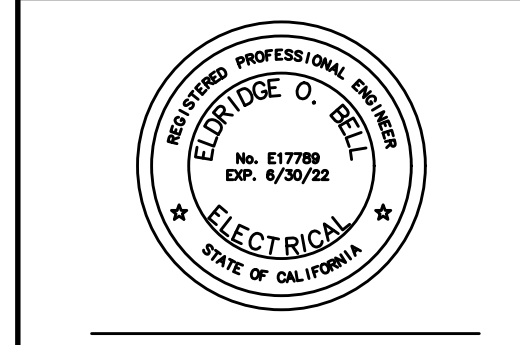
1 CAFE ELECTRICAL PLAN
SCALE: 1/4"=1'-0"
NORTH

- SHEET NOTES**
- FOR CIRCUIT #20 (COFFEE MACHINE), USE #10 WIRE.
 - ELECTRIC WATER HEATER WH-3; 6KW, 208V, 1Ø NON-SIMULTANEOUS ELEMENTS.
 - ELECTRICAL WATER HEATER WH-4; 12KW, 208V, 1Ø SIMULTANEOUS ELEMENTS.
 - CIRCULATING RAMP; 117W, 120V.
 - 1/2" C. 3 #8 & 1 #10 GND.
 - 1/4" C. 3 #4 & 1 #8 GND.

EQUIPMENT SCHEDULE

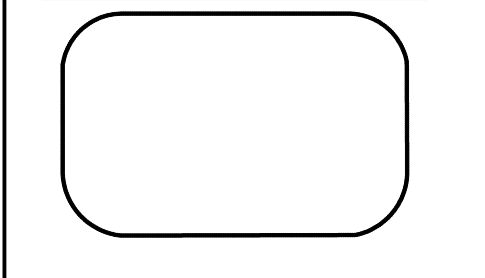
ITEM	QTY	DESCRIPTION	MFG	MODEL	BY	VOLTS	PHASE	AMPS	CONN	MT
BOH EQUIPMENT										
2	1	RO WATER FILTER SYSTEM & 20 GAL TANK	EVERPURE	EV907700	KEC	120/240	1	15.0	PLUG	+84"
4	1	ICE MACHINE - SIC	MANITOWOC	ITV0450A	KEC	115	1	11.9	PLUG	+72"
20	2	WATER HEATER	TBD	TBD	GC				VERIFY REQUIREMENTS	
CAFE EQUIPMENT										
C2	1	HEAT LAMP	HATCO	GRNM	KEC	115	1	15.0	JBOX	CAB
C3	1	REFRIGERATED TABLE W/PAN OPENINGS	TRUE	TSU-48-12-HC	KEC	115	1	5.8	PLUG	+15"
C4	1	PANINI GRILL	EQUIPEX	PANINI	KEC	208/240	1	14.0	PLUG	+48"
C5	1	RAPID COOK OVEN	TURBOCHEF	SOTA	KEC	208/240	1	30.0	PLUG	+48"
C8	1	REFRIGERATED GRAB N GO DISPLAY UNIT - SIC	STRUCTURAL	CO334R-CH	KEC	115	1	72.0	PLUG	CAB
C11	1	COFFEE MACHINE	FETCO	CBS-514-15	KEC	115	1	15.8	PLUG	+48"
C12	1	COFFEE GRINDER	FETCO	GR-2.2	KEC	115	1	5.7	PLUG	+48"
C13	1	HOT WATER DISPENSER	BUNN	HSX	KEC	115	1	15.4	PLUG	+48"
C14	2	BLENDER	BLENDTEC	R25	KEC	115	1	15.0	PLUG	+48"
C19	1	S-WELL DROP-IN FOOD WARMER	ALTO-SHAAM	500-HW/D6	KEC	115	1	26.0	PLUG	CAB
C21	1	UNDERCOUNTER FREEZER - SIC	TRUE	TUC-27F-P4HC	KEC	115	1	2.3	PLUG	CAB
C22	2	DROP-IN SOUP WELL	ALTO-SHAAM	1100-RW	KEC	115	1	4.2	PLUG	CAB
C24	2	ESPRESSO MACHINE	SCHAEFER	ARTS PLUG	KEC	208	1	30.0	JBOX	CAB
C25	1	UNDERCOUNTER REFRIGERATOR - SIC	TRUE	TUC-48-LP4HC	KEC	115	1	3.0	PLUG	CAB
FOOD PANTRY EQUIPMENT										
P2	1	2-SECTION SLIDING GLASS DOOR REFRIGERATOR - SIC	TRUE	GDW37-4E-LD	KEC	115	1	6.5	PLUG	+15"
STAGING KITCHEN EQUIPMENT										
S3	2	2-DOOR REACH-IN REFRIGERATOR	TRUE	T-48HC	KEC	115	1	5.4	PLUG	+15"
S4	1	ICE MACHINE & BIN	MANITOWOC	ITV0450A	KEC	115	1	11.9	PLUG	+72"

- GENERAL NOTES:**
- COORDINATE EXACT LOCATION OF ELECTRICAL RECEPTACLES WITH KITCHEN CONSULTANT DRAWINGS
 - CONTRACTOR SHALL FIELD VERIFY PLUG/RECEPTACLES REQUIREMENTS BEFORE ROUGH-IN.



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GAVILAN COLLEGE

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GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906
ARCH PROJECT NO. 1897.00
DRAWN BY: CADD
DRAWING SCALE: AS NOTED
PTN: 43-C4 FILE NO. N/A

DSA SUBMITTAL
FEBRUARY 4, 2022

CAFE & STAGING KITCHEN POWER PLAN

SHEET NUMBER

E4.103

BIMBAUD: archserver - BIMBAUD Basic for ARCHICAD 22/1897.00 GAVILAN COLLEGE 01/19/2021 10:42 PM

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- ### SHEET NOTES
1. MOUNT PADDLE FAN CONTROLS AND TRACK LIGHTING DIMMER IN RECESSED LOCKABLE ENCLOSURE.
 2. PADDLE FAN, 35W, 120V.
 3. VIA LIGHTING CONTROL PANEL "LCP1" LOCATED IN ELECTRICAL ROOM A157.



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NEW COLLEGE CAMPUS

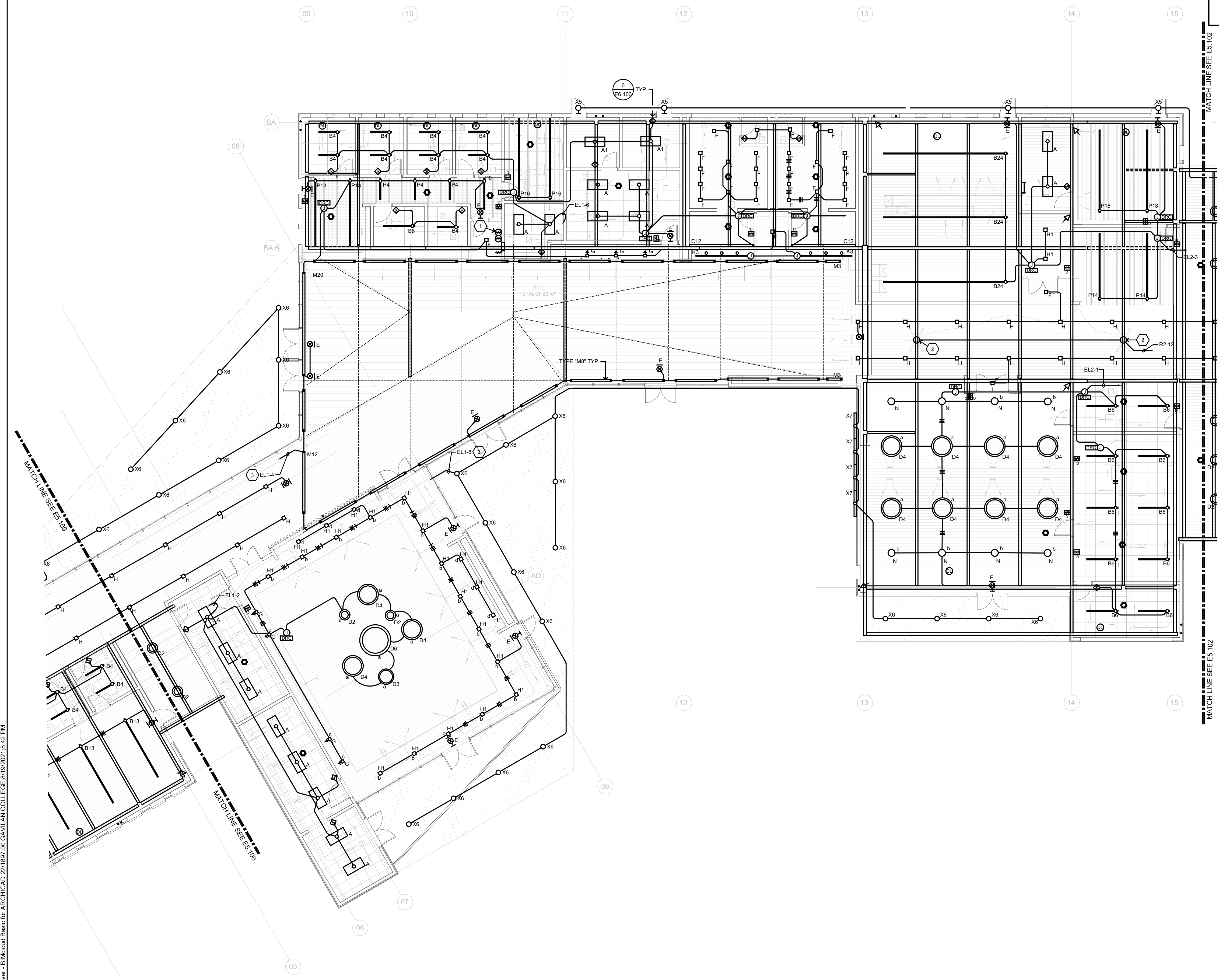
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DSA APP NO.	01-119906
ARCH PROJECT NO.	1897.00
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DRAWING SCALE:	AS NOTED
PTN:	43-C4
FILE NO.:	N/A
DSA SUBMITTAL	
FEBRUARY 4, 2022	
SHEET TITLE	

PARTIAL LIGHTING PLAN - SECTOR B

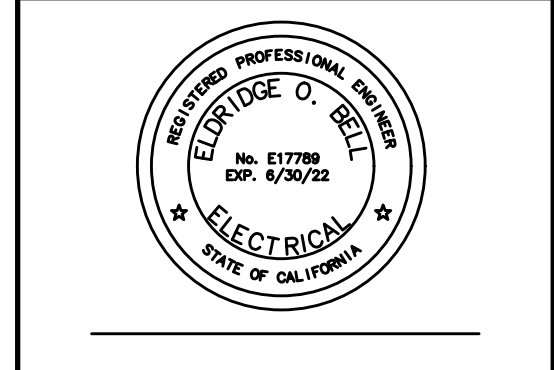
SHEET NUMBER
E5.101



DAYLIT ZONES LEGEND

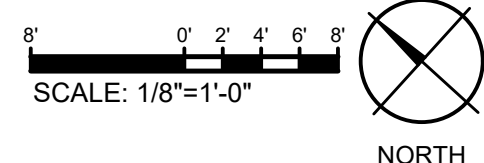
[Shaded Box]	PRIMARY DAYLIT ZONE
[White Box]	SECONDARY DAYLIT ZONE

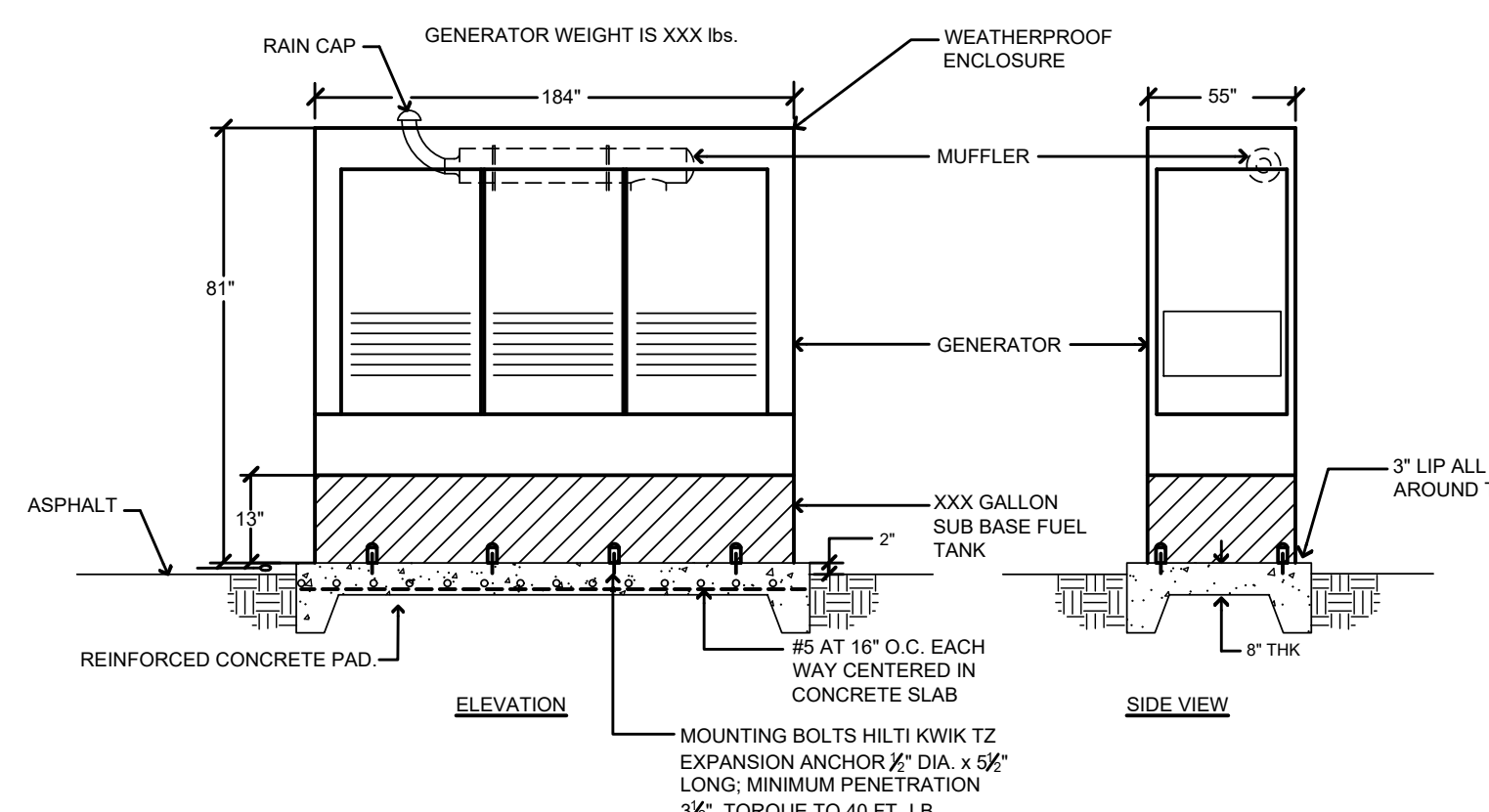
GENERAL NOTE:
 SEE SHEET E_ FOR LIGHTING CONTROLS AND SEQUENCE OF OPERATION.



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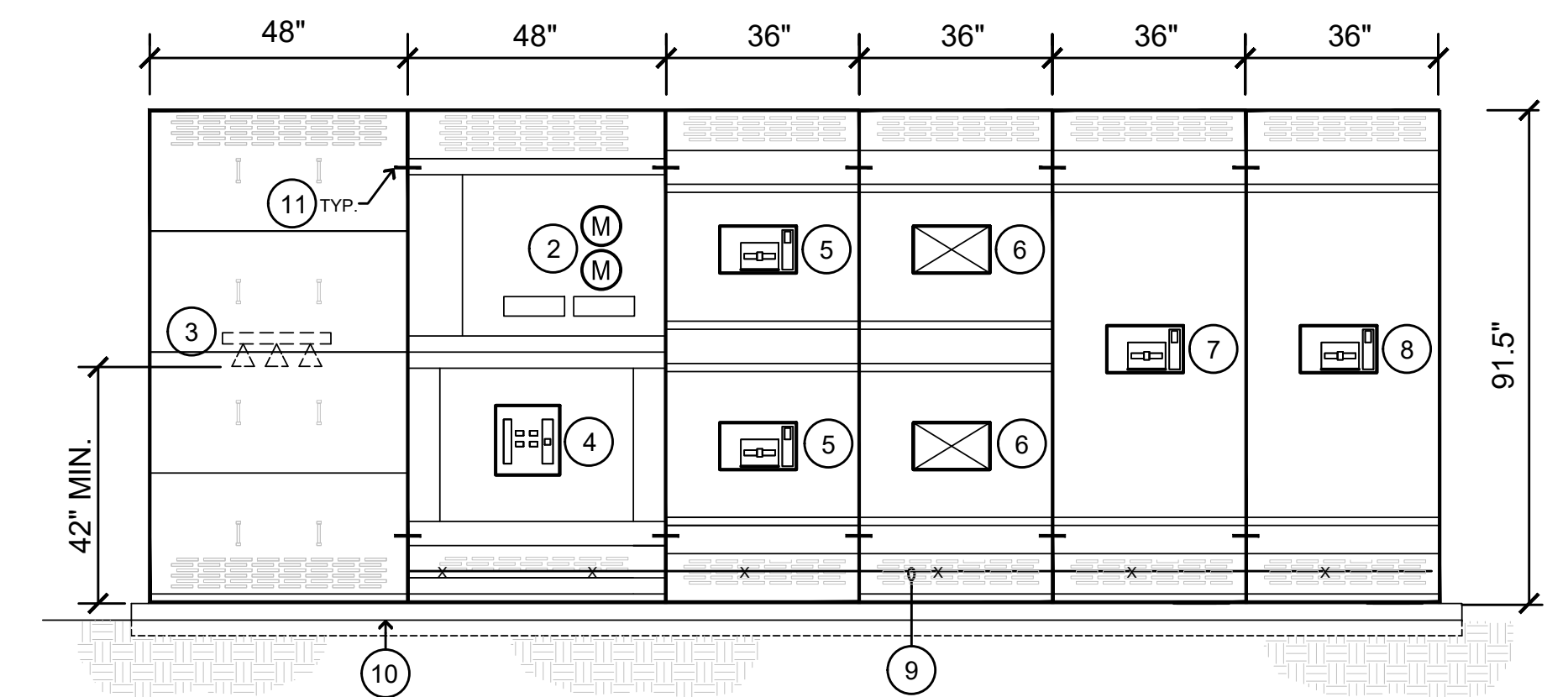




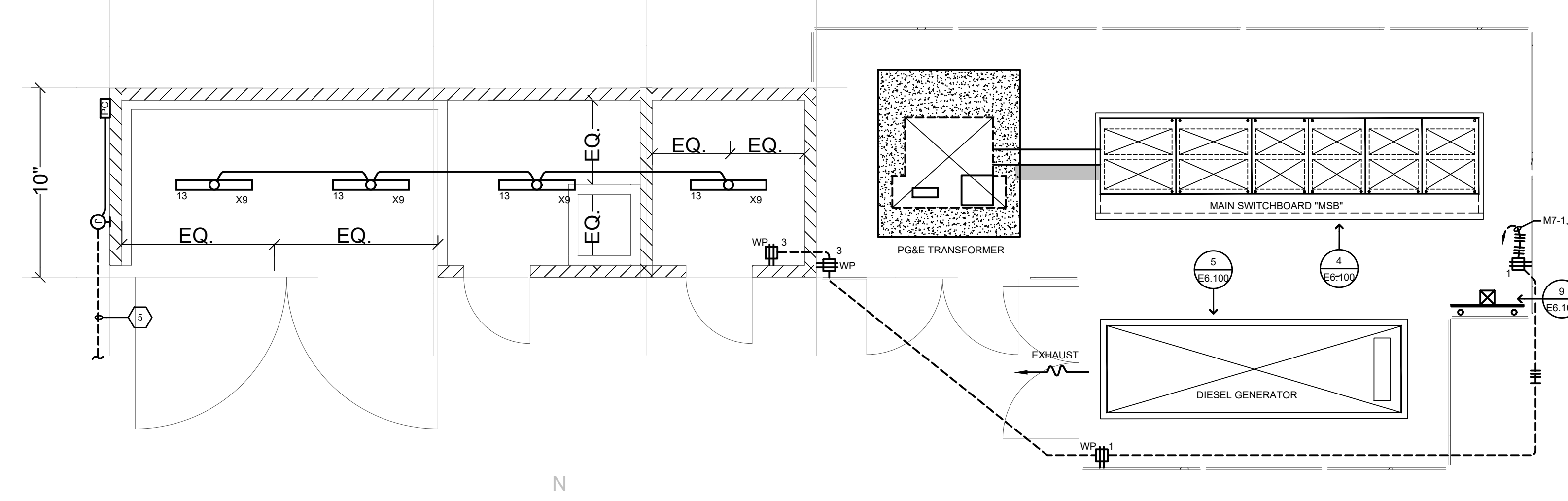
- GENERATOR DETAIL NOTES:**
1. VERIFY EXACT DIMENSIONS AND CONDUIT STUB-UP LOCATIONS WITH MANUFACTURER'S SHOP DRAWINGS PRIOR TO START OF WORK.
 2. GENERATOR SHALL COMPLY WITH MONTEREY BAY AIR RESOURCE DISTRICT (MBARD) REGULATIONS & SHALL HAVE MBARD PERMIT PRIOR TO PURCHASE AND INSTALLATION OF GENERATOR.
 3. ALL CONSTRUCTION NOT SPECIFICALLY DETAILED SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE (CBC) AND ANY LOCAL CODE REQUIREMENTS. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
 4. CHECK ALL DIMENSIONS IN RELATION TO SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL COORDINATE WORK OF ALL TRADES. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH WORK. DURING CONSTRUCTION PHASE THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND PERSONNEL. PROVIDE ADEQUATE SHORING AND/OR BRACING IN ACCORDANCE WITH APPROPRIATE LOCAL, STATE AND NATIONAL SAFETY CODES.
 5. FOOTINGS SHALL BE AS DETAILED ON THE DRAWINGS. THE FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF (0.4+L) PLUS ONE THIRD INCREASE FOR WIND AND SEISMIC LOADS. FOOTINGS SHALL BEAR 12" MIN. INTO FIRM UNDISTURBED ORIGINAL SOIL OR ENGINEERED FILL.
 6. CONCRETE SHALL BE PROPORTIONED TO GIVE A MINIMUM OF 28 DAYS COMPRESSIVE STRENGTH OF 3000 PSI UNLESS INDICATED OTHERWISE. THE SLUMP SHALL BE THE MINIMUM CONSISTENT WITH PLACING CONDITIONS BUT SHALL NOT EXCEED 4 1/2".
 7. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM STANDARD SPECIFICATION A615-68 GRADE 60. #4 AND SMALLER BARS MAY BE GRADE 40. BARS SHALL BE PLACED IN AS LONG LENGTHS AS POSSIBLE AND SHALL LAP 60" DIAMETER AT SPLICES UNLESS OTHERWISE SHOWN OR NOTED ON PLANS. SPLICES SHALL BE STAGGERED AND BARS MAY BE WIRED TOGETHER AT SPLICES. ALL STEEL SHALL BE RIGIDLY HELD IN PLACE WITH APPROVED METAL DEVICES.
- BAR COVERAGE (FACE OF BAR TO FACE OF CONCRETE) SHALL BE AS FOLLOWS:
 CONCRETE SLAB ON GRADE 1-1/2" MIN.
 CONCRETE SURFACE AGAINST EARTH 3" MIN.
 WHEN POURED AGAINST FORMS 2" MIN.
 ALL OTHERS SEE DETAILS.

- SHEET NOTES**
1. FOR ACCESS CONTROL PANEL: FIELD VERIFY EXACT LOCATION AND REQUIREMENTS BEFORE ROUGH-IN.
 2. CONNECTED TO ROOF MOUNTED UNIT CU-1; SEE SHEET E4-200 FOR CONTINUATION.
 3. FIRE ALARM REMOTE POWER SUPPLY "RPS-1".
 4. CONNECTED TO ROOF MOUNTED UNIT CU-2; SEE SHEET E4-202 FOR CONTINUATION.
 5. SEE ELECTRICAL SITE PLAN E2.100 FOR CONTINUATION.

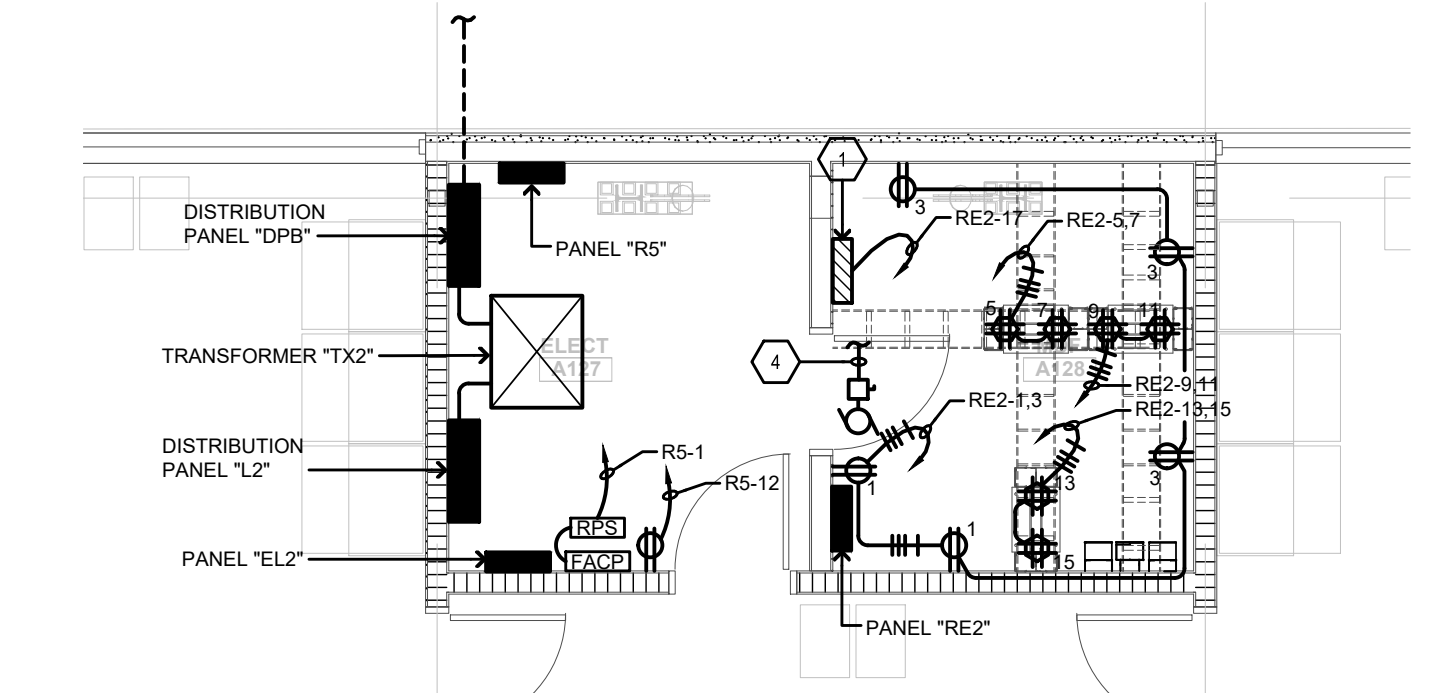
5 GENERATOR MOUNTING DETAIL
NO SCALE



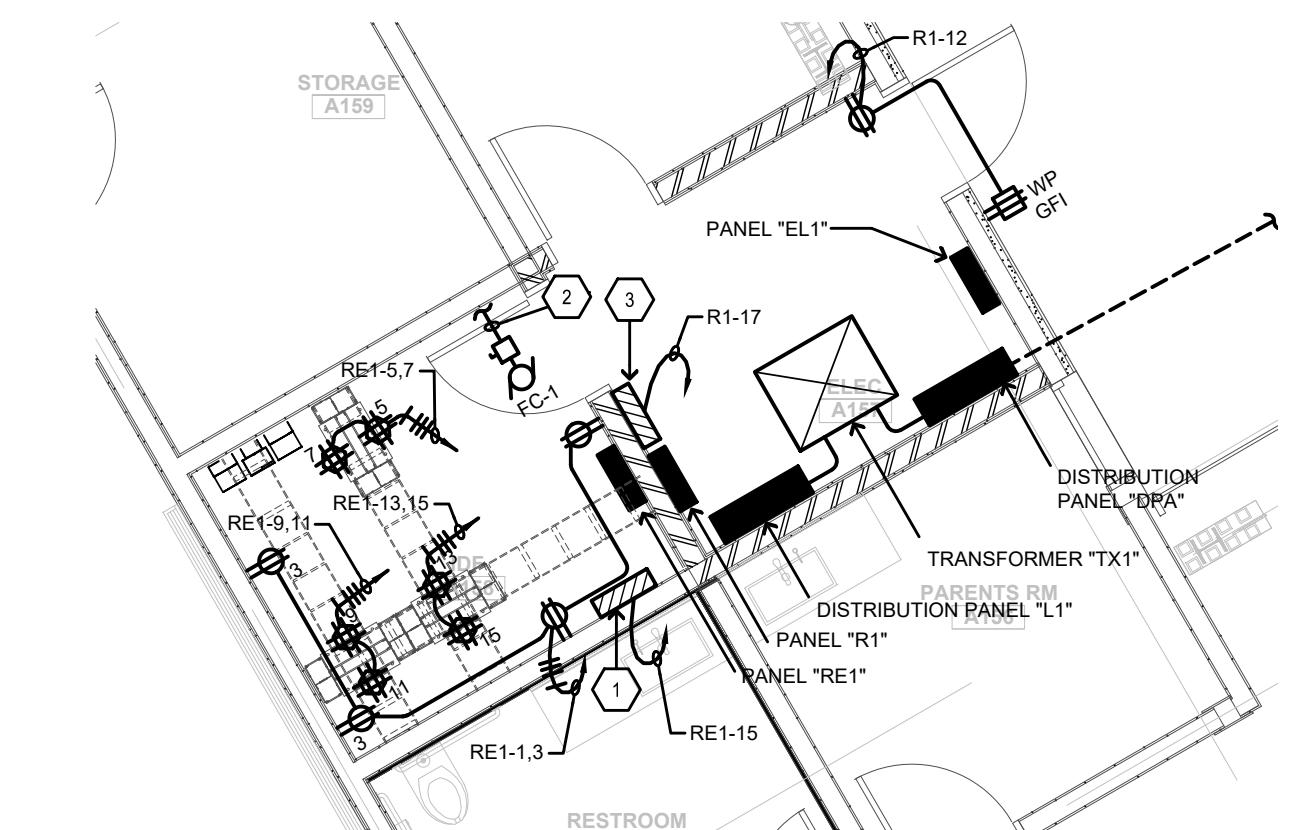
4 MAIN SWITCHBOARD ELEVATION
SCALE: 1/2" = 1'-0"



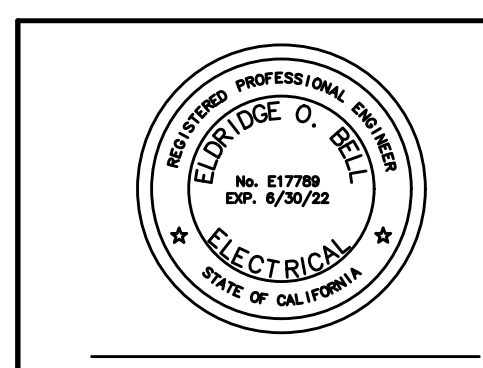
3 ELECTRIC SERVICE YARD DETAIL
SCALE: 1/4" = 1'-0"



2 ELEC/MDF ROOMS A127/A128
SCALE: 1/4" = 1'-0"



1 ELEC/IDF ROOMS A157/A158
SCALE: 1/4" = 1'-0"



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LICENSE # C30620

GAVILAN COLLEGE

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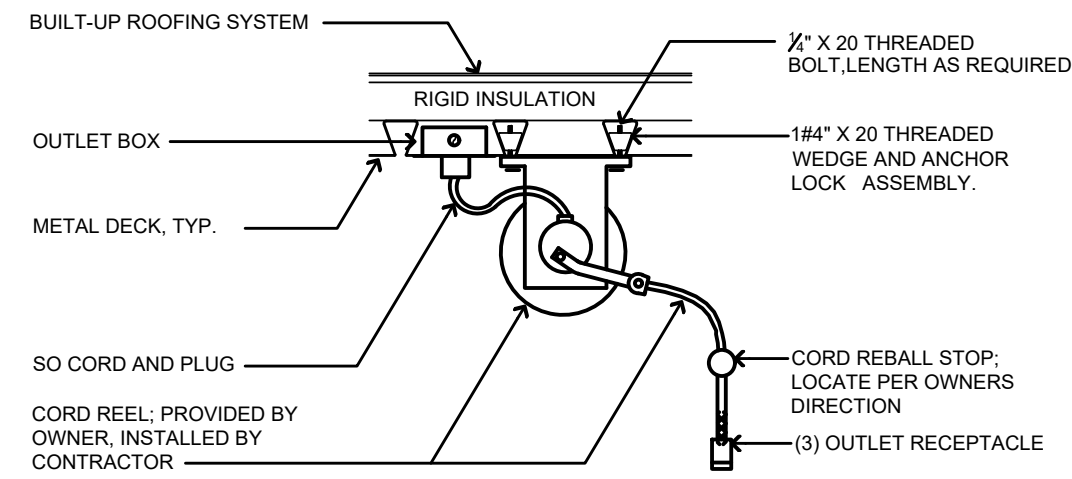
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ARCH PROJECT NO.	1897.00
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PTN:	43-C4
FILE NO.	N/A
DSA SUBMITTAL	
FEBRUARY 4, 2022	
SHEET TITLE	

ELECTRICAL DETAILS

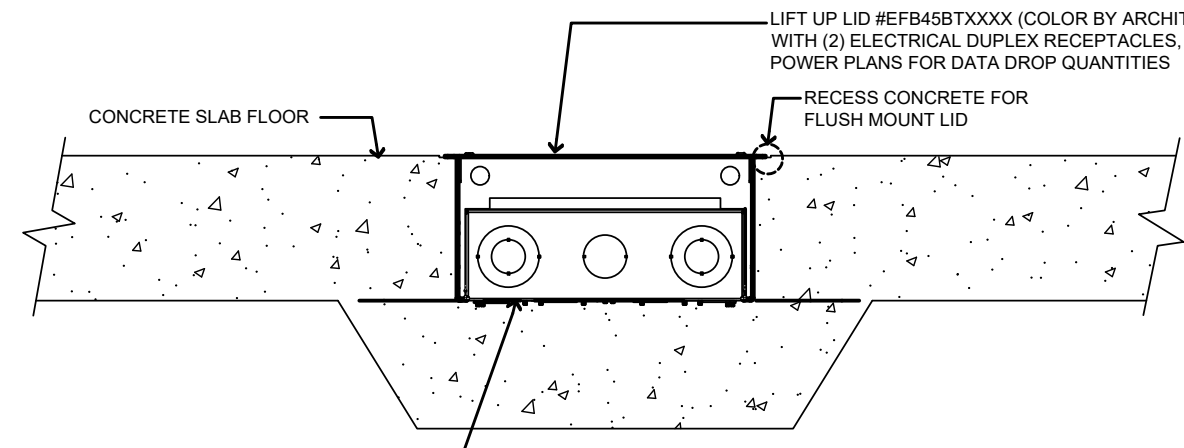
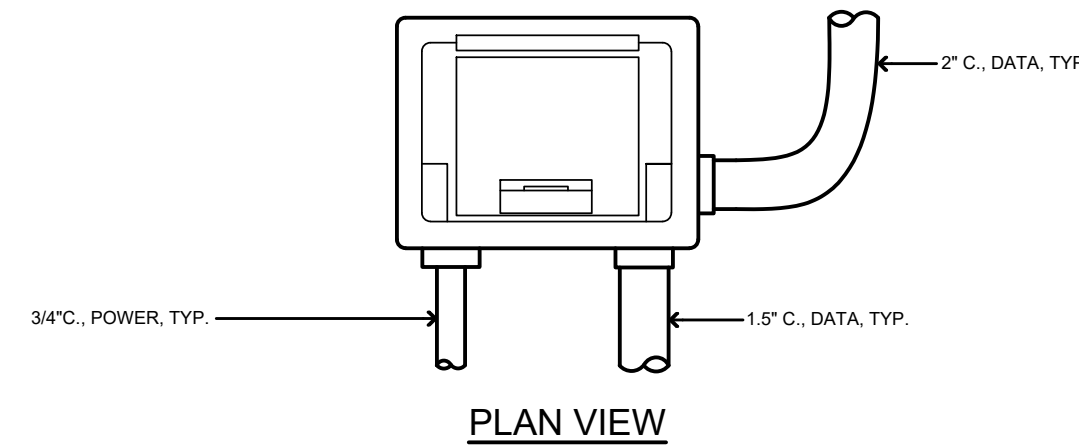
SHEET NUMBER
E6.100

BIMBAUD: archserver - BIMBAUD Basic for ARCHICAD 27 (1897.00) GAVILAN COLLEGE (19/2021) 18:42 PM

DWG ID.	DESCRIPTION	MFR	LABEL
P1, P2, P3, P4	3' x 5' x 30" DEEP ELECTRICAL VAULT, HEAVY DUTY REINFORCE CONCRETE BOX, 2 PIECE STEEL CHECKERED PLATE, H20 LOADING, BOLT DOWN.	CHRISTY T95	ELECTRICAL
P5, P6, P7	30" x 48" HIGH DENSITY REINFORCED CONCRETE BOX, 3 PIECE STEEL CHECKERED PLATE, H20 LOADING, BOLT DOWN.	CHRISTY B3048	ELECTRICAL
P8, P9, P10	17" x 30" HIGH DENSITY REINFORCED CONCRETE BOX, AND CONCRETE LID.	CHRISTY N36	ELECTRICAL
LIGHTING BOXES	12" x 22" HIGH DENSITY REINFORCED CONCRETE BOX, AND CONCRETE LID.	CHRISTY N16	LIGHTING
AT&T	24" x 36" HIGH DENSITY REINFORCED CONCRETE BOX, 2 PIECE STEEL CHECKERED PLATE, H20 LOADING, BOLT DOWN.	CHRISTY B2436	AT&T
CATV	24" x 36" HIGH DENSITY REINFORCED CONCRETE BOX, 2 PIECE STEEL CHECKERED PLATE, H20 LOADING, BOLT DOWN.	CHRISTY B2436	CATV

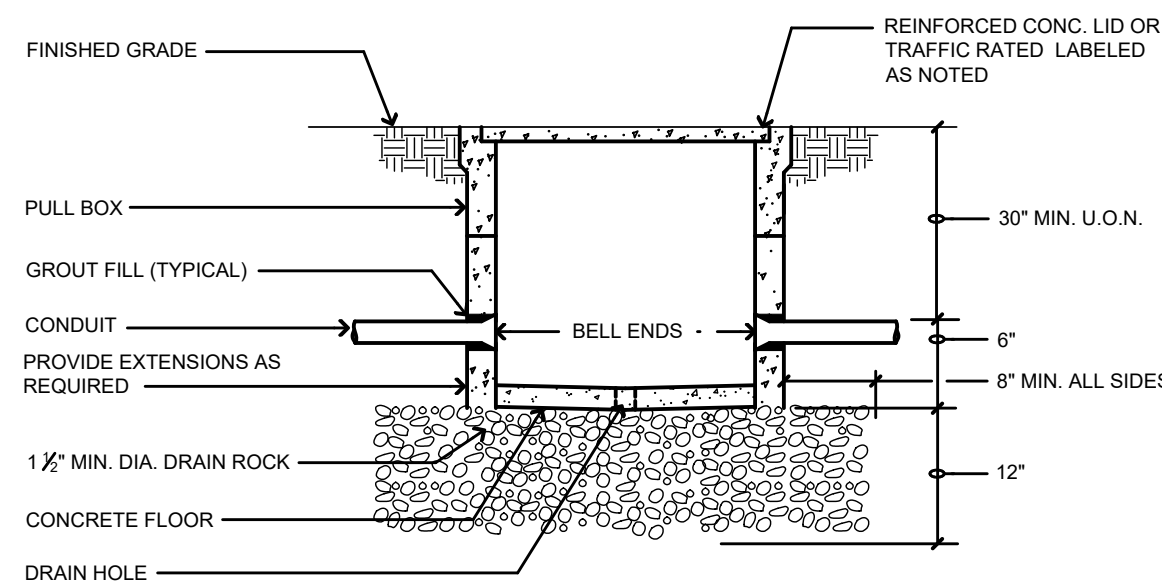


7 CORD REEL DETAIL
NO SCALE



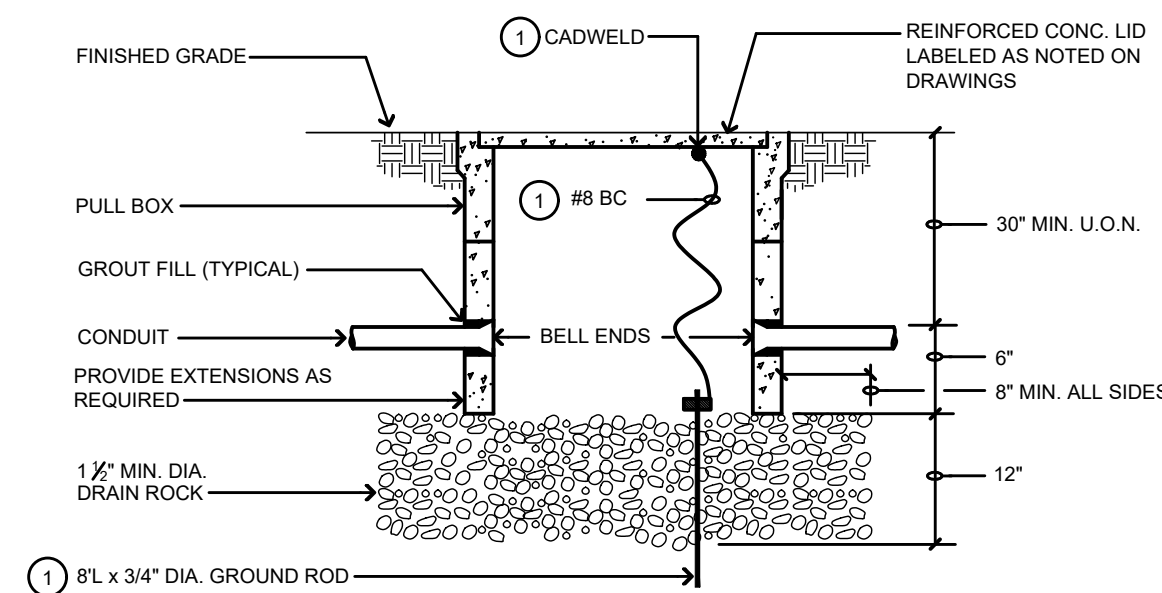
- NOTES:
1. ALL PART #'S SHOWN ARE LEGRAND.
2. CONDUITS IN AND OUT OF FLOOR BOXES SHALL BE INSTALLED IN CONCRETE SLAB. COORDINATE INSTALLATION WITH STRUCTURAL DRAWINGS.

6 FLOOR OUTLET MOUNTING DETAIL - CONC.
NO SCALE

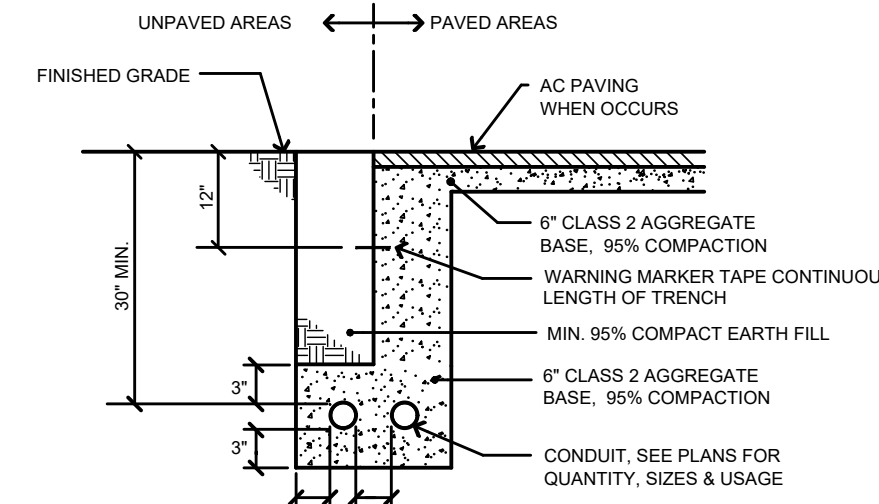


5 PULLBOX DETAIL - LOW VOLTAGE SYSTEMS
NO SCALE

- DETAIL NOTE:
1. FOR BOXES WITH METAL LIDS ONLY. PROVIDE GROUND ROD W/BC CABLE. PROVIDE ENOUGH SLACK TO ALLOW FOR REMOVAL OF LID (120/208 & 277/480V ONLY)

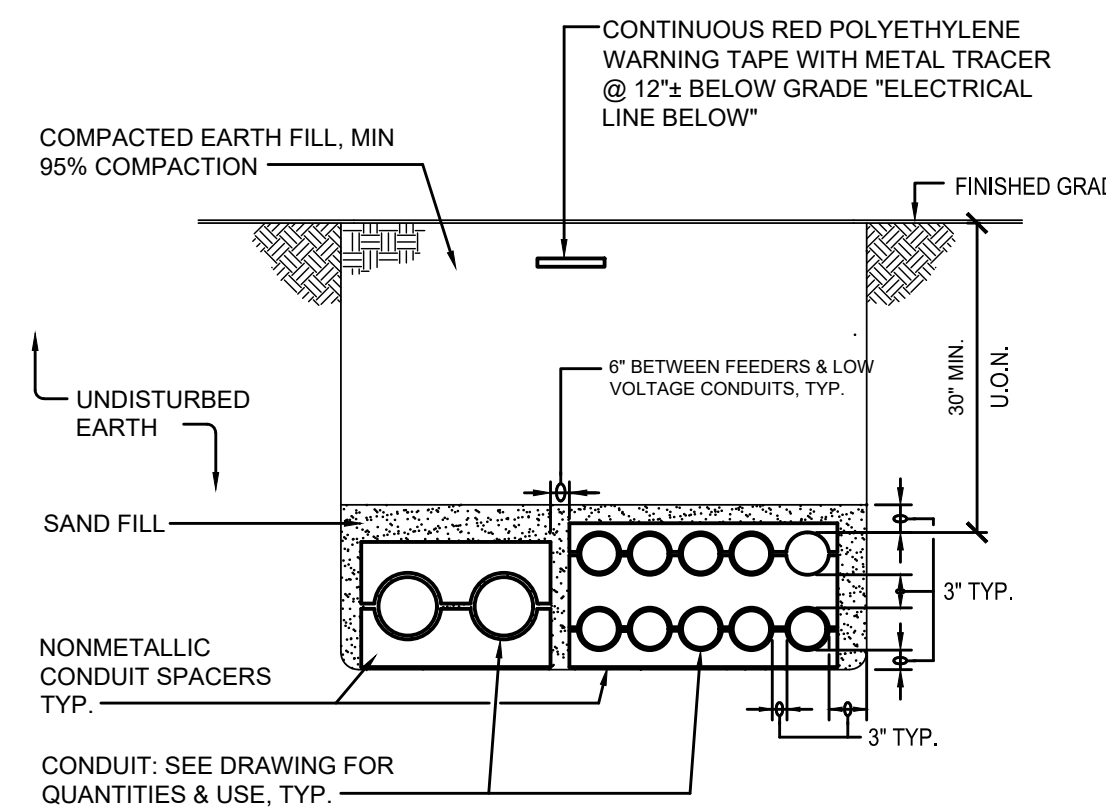


4 PULLBOX DETAIL - POWER
NO SCALE

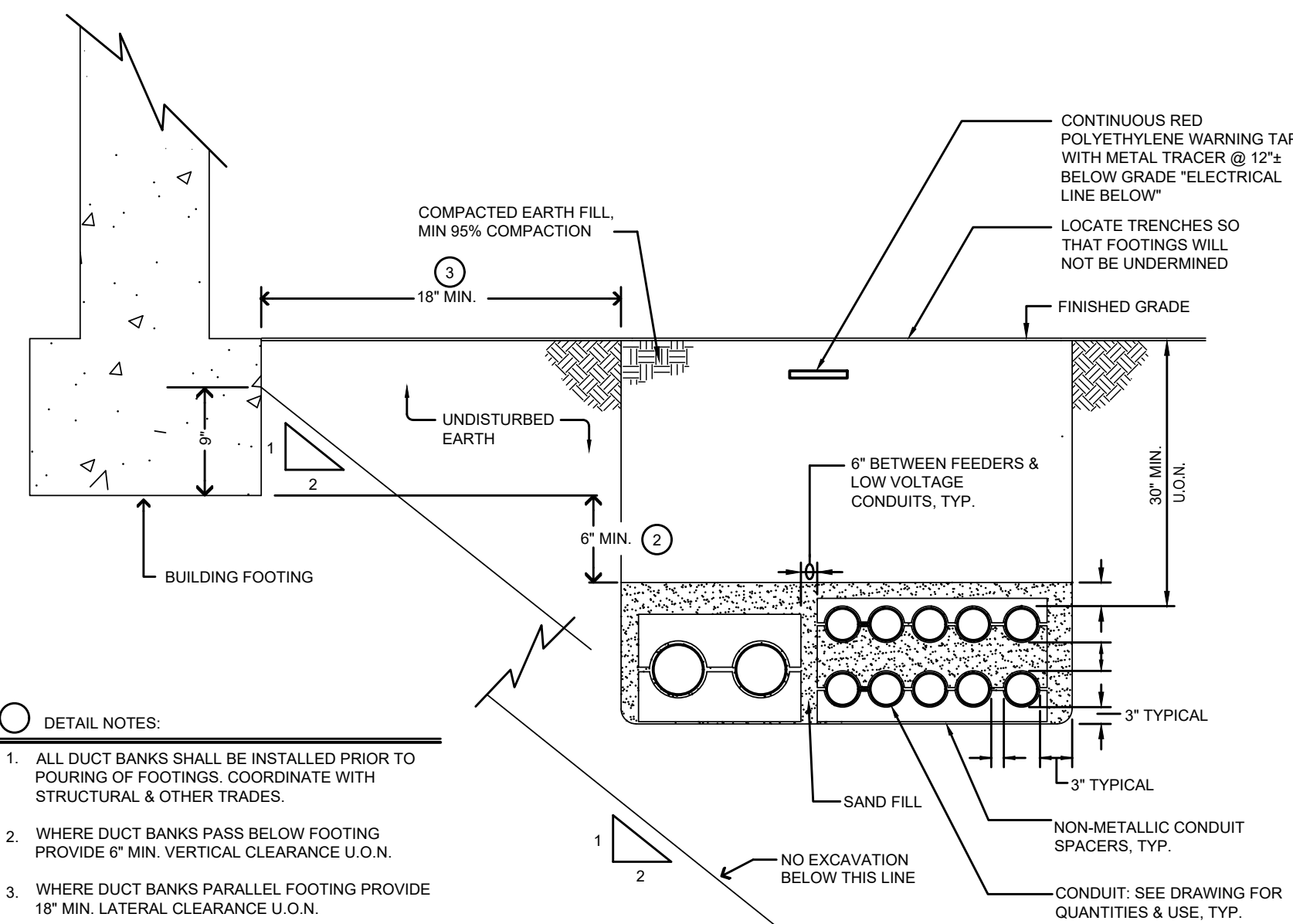


- NOTES:
1. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN 95% RELATIVE COMPACTION. IF APPROVED, A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.
2. COORDINATE WORK WITH LANDSCAPE DRAWINGS AND LANDSCAPE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. SEE DETAIL 31-E5.0 FOR ADDITIONAL INFORMATION.

3 TYPICAL TRENCH SECTION DETAIL
NO SCALE

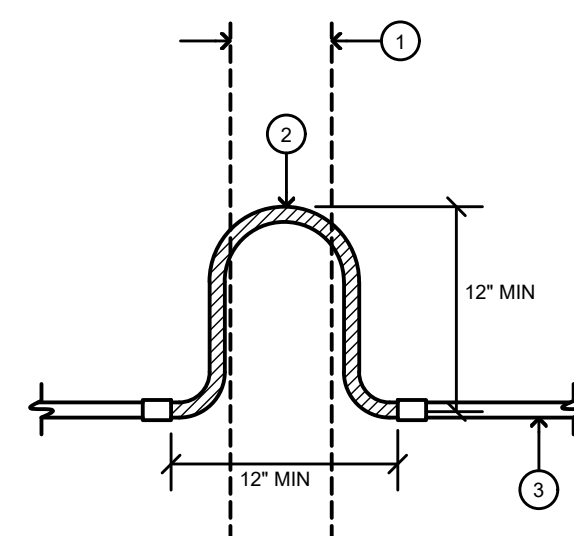


2 TYPICAL TRENCH SECTION
NO SCALE



- DETAIL NOTES:
1. ALL DUCT BANKS SHALL BE INSTALLED PRIOR TO POURING OF FOOTINGS. COORDINATE WITH STRUCTURAL & OTHER TRADES.
2. WHERE DUCT BANKS PASS BELOW FOOTING PROVIDE 6\"/>

1 TYPICAL TRENCH SECTION
NO SCALE



- DETAIL NOTES:
1. EXPANSION JOINT.
2. SEALTITE FLEX CONDUIT (1/2\"/>

8 TYPICAL EXPANSION JOINT CROSSING
NO SCALE

BIMBAUD: architectserver - BIMBAUD Basic for ARCHICAD 27/1897.00 GAVILAN COLLEGE: 01/19/2021 10:42 PM

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AARON JOHNSON LICENSE # C30620 EXP OCTOBER 31, 2023
SIGNED: MONTH DAY, 2021

Gensler
45 Fremont Street, Suite 1500, San Francisco, CA 94105, United States
Tel: 415.433.3700, Fax: 415.636.4599

Central Electric
ELECTRICAL CONTRACTORS
WATSONVILLE (831) 724-6921
LICENSURE # 246628

GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
No. E17789
Exp. 6/30/22
STATE OF CALIFORNIA

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No. 20-237.00
404 W. Franklin St. • Suite 100 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.auremb.com

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DSA APP NO.	01-119906
ARCH PROJECT NO.	1897.00
DRAWN BY:	CADD
DRAWING SCALE:	AS NOTED
PTN:	43-C4
FILE NO.:	N/A

DSA SUBMITTAL
FEBRUARY 4, 2022

ELECTRICAL DETAILS

E6.101

EMERGENCY RESPONDER RADIO COVERAGE SYSTEM

GAVILAN COLLEGE SAN BENITO COUNTY CAMPUS

PREPARED FOR ICS INTEGRATION

505 FAIRVIEW RD

HOLLISTER, CA 95023

SAN BENITO COUNTY

SYSTEM INFORMATION						
San Benito County - Sheriff						
Frequencies						
Ch.	Tx	Rx	Callsign	Alph Tag	City	County
1	158.77500	153.87500	WPVY817	SANBENITOCO SO	N/A	San Benito
City of Hollister - Fire						
Ch.	Tx	Rx	Callsign	Alph Tag	City	County
1	155.80500	153.90500	KUZ854	HOLLISTER FD	Hollister	San Benito
2	151.02500	156.12000	KYB975	HOLLISTER FD/PD		
3	155.52000	155.52000	WPVY817	TAC1		
4	155.55000	155.55000	WPVU574	TAC2		
5	155.28000	155.28000		TAC3		
SIMPLEX CHANNELS						

THIS DESIGN SUPPORTS THE FREQUENCIES LISTED ABOVE. HETNET WIRELESS, LLC HAS VERIFIED THESE ARE IN FACT THE CORRECT FREQUENCIES. HOWEVER, IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR THE BUILDING OWNER TO VALIDATE THE LIST ABOVE BEFORE EQUIPMENT CAN BE ORDERED. HETNET WIRELESS, LLC IS NOT LIABLE AND ASSUMES NO RISK FOR EQUIPMENT, PARTS, ETC. ORDERED BY THE INSTALLER OR BUILDING OWNER IF THESE FREQUENCIES ARE NOT VERIFIED BEFORE ORDERING. IF A FREQUENCY DISCREPANCY ARISES, HETNET WIRELESS, LLC IS TO BE MADE AWARE SO THE DESIGN CAN BE UPDATED.

SCOPE OF WORK
TO PROVIDE AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM THAT MEETS STATE AND LOCAL CODES AND REQUIREMENTS.
THIS IS ACCOMPLISHED BY AMPLIFYING THE EXISTING OUTDOOR NETWORK AND DISTRIBUTING THE COVERAGE THROUGHOUT THE BUILDING USING A SERIES OF SPLITTERS AND COUPLERS INTERCONNECTED WITH COAXIAL CABLE

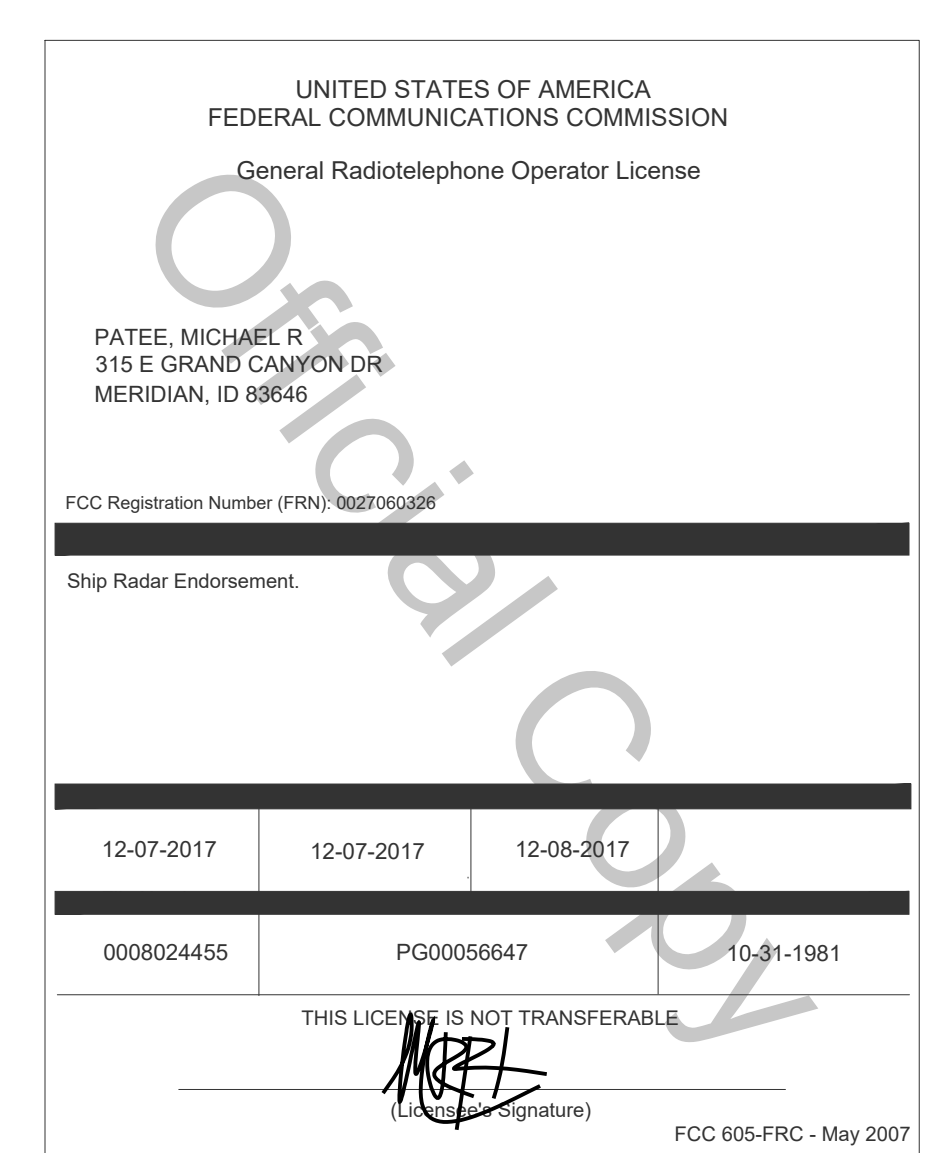
PROJECT / BUILDING INFORMATION			
STORIES:	1	CONSTRUCTION TYPE:	V-A, V-B
BUILDING HEIGHT:	25'-0" +/-	OCCUPANCY:	B, F-1, S-1, U, S2, H2
BUILDING AREA:	34,354 SQ FT +/-	SPRINKLERS:	FULLY SPRINKLERED

APPLICABLE CODES			
CALIFORNIA BUILDING CODE (CBC)	2019 EDITION	NFPA 70	2017 EDITION
CALIFORNIA ELECTRICAL CODE (CEC)	2019 EDITION	NFPA 72	2016 EDITION
CALIFORNIA FIRE CODE (CFC)	2019 EDITION	NFPA 1221	2016 EDITION

CODE REFERENCE GUIDE	
CBC	GENERAL CONSTRUCTION
CEC	GENERAL ELECTRICAL
CFC	GENERAL FIRE, SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE
NFPA 70	NATIONAL ELECTRICAL CODE, CHAPTER 6, ARTICLE 47, CHAPTER 7, SECTION 770 (OPTICAL) & CHAPTER 8 COMMUNICATION SYSTEMS
NFPA 72	FIRE ALARM & SIGNAL CODING: CHAPTER 12 (CIRCUITS AND PATHWAYS) AND CHAPTER 24 (EMERGENCY COMMUNICATIONS SYSTEMS)
NFPA 1221	STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS

DESIGNED & COMMISSIONED BY

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DESIGN & CONSULTING
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MICHAEL PATEE: PARTNER/OPERATIONS
KEN MITCHELL: DESIGN MANAGER
208.874.4493
ken.mitchell@hetnet.com



RF ENGINEER / ERRCS PROJECT MANAGER

fiplex
CERTIFIES THAT
George Potter
Has passed the exam of Fiplex FLEX BDA & BDA Online Certification Training
Organized by Fiplex Communications, Inc.
Offered by Fiplex Communications Inc. Engineering



SHEET INDEX			
SHEET TITLE	PLAN NAME	ISSUED FOR PERMIT	FLOOR PLAN UPDATE
		TITLE BLOCK UPDATE	FLOOR PLAN UPDATE
ERRCS 0.0	COVER SHEET	●	○
ERRCS 0.1	NOTES, BOM, & DONOR INFORMATION	●	○
ERRCS 0.2	EQUIPMENT INFORMATION	●	○
ERRCS 1.0	RISER	●	○
ERRCS 2.0	LEVEL 1 - OVERALL	●	○
ERRCS 2.0A	LEVEL 1 - SEGMENT A	●	○
ERRCS 2.0B	LEVEL 1 - SEGMENT B	●	○
ERRCS 2.1	ROOF - OVERALL	●	○
ERRCS 3.0	EQUIPMENT ROOM DETAILS	●	○
ERRCS 3.1	DONOR & ROOF PENETRATION DETAILS	●	○
ERRCS 3.2	STANDARD DETAILS	●	○
ERRCS 4.0	PROPAGATION	●	○

ABBREVIATIONS			
A	ANTENNA		
AHJ	AUTHORITY HAVING JURISDICTION		
ANN	ANNUNCIATOR PANEL		
ATT	ATTENUATOR		
B	BIAS-T		
BDA	BI-DIRECTIONAL AMPLIFIER		
BOM	BILL OF MATERIAL		
C	COAXIAL CABLE		
DA	DONOR ANTENNA		
DAS	DISTRIBUTED ANTENNA SYSTEM		
dBm	DECIBEL MILLIWATTS		
DC	DONOR CABLE		
DI	DIPLEXER		
DL	DOWNLINK		
DS	DONOR SITE		
DU	DUPLEXER		
EPO	EMERGENCY POWER OFF BUTTON		
ERRC	EMERGENCY RESPONDER RADIO COVERAGE		
ERRCS	EMERGENCY RESPONDER RADIO COVERAGE SYSTEM		
F	FILTER		
FPP	FIBER PATCH PANEL (PROVIDED BY OTHERS)		
GND	GROUND		
HE	HEADEND		
J	JUMPER		
N.C.	NORMALLY CLOSED		
MHz	MEGAHERTZ		
NF	N-FEMALE		
NM	N-MALE		
N.O.	NORMALLY OPEN		
PP	POLYPHASER		
RF	RADIO FREQUENCY		
RSI	RECEIVED SIGNAL STRENGTH INDICATOR		
Rx	RECEIVE		
S	SPLITTER / COUPLER / TAPPER		
Tx	TRANSMIT		
UL	UPLINK		
UPS	UNINTERRUPTIBLE POWER SUPPLY		

SYMBOL LEGEND			
○	OMNI ANTENNA		
⊖	DONOR ANTENNA		
⊕	2-WAY SPLITTER		
⊕	COUPLER		
BDA	BI-DIRECTIONAL AMPLIFIER		
UPS	UNINTERRUPTIBLE POWER SUPPLY		
ANN	ANNUNCIATOR PANEL		
EPO	EMERGENCY POWER OFF		
⊕	POLYPHASER		
⊕	BIAS-T		
⊕	GROUNDING KIT		

CABLE LEGEND		
---	AL4RPV-50 - (Tx PATH / 1/2" PLENUM COAX)	
---	AL4RPV-50 - (Rx PATH / 1/2" PLENUM COAX)	
---	LDF4-50A - (1/2" OUTDOOR COAXIAL CABLE)	
---	3' N-MALE - N-FEMALE JUMPER	
---	3' N-MALE - N-MALE JUMPER	
---	3' LMR-400 N-MALE - N-FEMALE JUMPER	
---	6' N-MALE - N-FEMALE JUMPER	

PART IDENTIFICATION SCHEDULE	
LF-#	COMPONENT ID (A=ANTENNA, S=SPLITTER, C=COAX)
	LEVEL ASSIGNED
	PASSIVE DEVICE MODEL NUMBERS
	D2-41FN - (2-WAY SPLITTER)
	DN-51FN - (TAPPER)

CABLE RUNS & PASSIVE EQUIP. INSTALLED BY	
ICS INTEGRATION	6680 VIA DEL ORO SAN JOSE, CA 95119 408-491-6000 LIC. NO. C-10: 814203

CABLE RUNS & PASSIVE EQUIP. INSTALLED BY			
ICS INTEGRATION	6680 VIA DEL ORO SAN JOSE, CA 95119 408-491-6000 LIC. NO. C-10: 814203	ISSUED FOR PERMIT	FLOOR PLAN UPDATE
		TITLE BLOCK UPDATE	FLOOR PLAN UPDATE

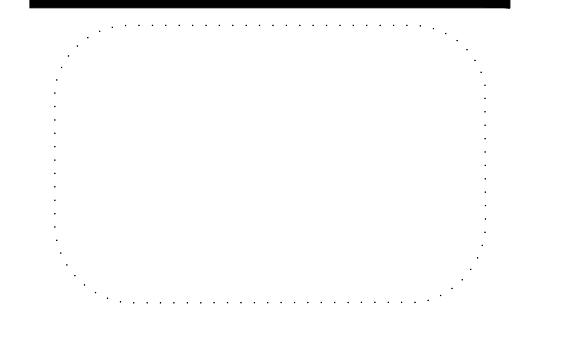
PASSIVE COMPONENT RF PATH	
COVER SHEET	
TAPPER	THROUGH PORT OUT (43.8dB LOSS)
2-WAY SPLITTER	

VICINITY MAP	

GAVILAN COLLEGE	

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT	

GAVILAN COLLEGE	



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DSA APP NO. 01-119906

ARCH PROJECT NO: 1897.00

DRAWN BY: N.T.S.
DRAWING SCALE: N.T.S.
PTN: 43-C4 FILE NO: N/A

DSA SUBMITTAL
FEBRUARY 4, 2022

SHEET TITLE

SHEET NUMBER

ERRCS 0.0

1 OF 12 SHEETS

PROJECT NOTES

RESPONSIBILITIES OF THE INSTALLER / SCOPE OF WORK

GENERAL

- DRAWINGS AND DESIGN ARE NOT FINALIZED UNTIL APPROVED BY THE AHJ. CONTRACTOR ASSUMES ALL RISK AND LIABILITY IF INSTALLATION AND/OR CONSTRUCTION OF ANY PART OF THESE DRAWINGS IS DONE PRIOR TO APPROVAL BY THE AHJ.
- APPLY AND PAY FOR ALL NECESSARY PERMITS.
- INSTALL THE ERCS/DAS TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES AND GUIDELINES SET FORTH BY THE STATE, COUNTY, CITY AND AHJ. THIS INCLUDES BUT IS NOT LIMITED TO NFPA 1221 SECTION 9.6, "STANDARD FOR THE INSTALLATION, MAINTENANCE, AND USE OF EMERGENCY SERVICES COMMUNICATIONS SYSTEMS.
- PROCURE ALL EQUIPMENT (PASSIVE AND ACTIVE) INCLUDING BUT NOT LIMITED TO; CONDUIT, JUNCTION BOXES, SUPPORT SYSTEMS, WIRE, ALARM WIRE, FIBER (IF APPLICABLE), AND WATERPROOFING MATERIAL.
- PROPERLY INSTALL ALL CABLES AND CONNECTORS, WEATHERPROOF WHEN APPLICABLE.
- TEST AND PROVIDE A REPORT FOR ALL CABLE SEGMENTS TO ENSURE RF LOSSES MEET MANUFACTURER SPECIFICATIONS PRIOR TO COMMISSIONING.
- VERIFY ALL PASSIVE DEVICES ARE PROPERLY INSTALLED (SEE PASSIVE COMPONENT RF PATHWAY ON ERCS 0.0).
- ENSURE ALL RISER CABLES (TYPICALLY VERTICAL, BUT SOMETIMES HORIZONTAL) ARE ROUTED THROUGH A 2-HOUR-RATED ENCLOSURE PER NFPA 72 24.3.13.8.3.
- ENSURE THE CONNECTION OF FEEDER CABLES (TYPICALLY HORIZONTAL) TO THE RISER CABLE (TYPICALLY VERTICAL) MEETS THE NFPA 72 24.3.13.8.4 GUIDELINE.
- ENSURE THAT THE FEEDER CABLES (TYPICALLY HORIZONTAL) MEET A MINIMUM OF A LEVEL 1 SURVIVABILITY PER NFPA 24.3.13.8.1.
- LEVEL 1 SURVIVABILITY PATHWAYS IN A BUILDING THAT ARE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 WITHOUT ANY INTERCONNECTING CONDUCTORS, CABLES, OR OTHER PHYSICAL PATHWAYS INSTALLED IN METAL RACEWAYS. SEE NFPA 1221 5.10.2.
- PROVIDE SIGNAGE OUTSIDE ALL ROOMS HOUSING ACTIVE ERCS EQUIPMENT, REFERENCE STANDARD DETAILS.
- ENSURE ALL ROOMS HOUSING ACTIVE EQUIPMENT HAVE PROPER VENTILATION AND AIR CONDITIONING.
- SIZE ALL WIRE GAUGE FOR BDA POWER, RELAY, EPO, AND ALARMING CONNECTIONS.
- UL LISTING TYP4, 4X OR 2524 OF INSTALLED SYSTEM PROVIDED BY OTHERS IF ENFORCED BY THE AHJ.

ALARMING

- ENSURE THAT THE FIRE ALARMING COMPLIES WITH NFPA 72.
- PROVIDE ALARMING TO THE DEDICATED MONITORING PANEL (ANN) FOR ALL RF EMITTING DEVICES & SYSTEM COMPONENTS PER NFPA 1221 9.6.13.2.
- NORMAL AC POWER - UPS
- LOSS OF NORMAL AC POWER - UPS
- BATTERY CHARGER FAILURE - UPS
- LOW BATTERY CAPACITY (TO 70% DEPLETION) - UPS
- DONOR ANTENNA MALFUNCTION - BDA(S)
- ACTIVE RF EMITTING DEVICE MALFUNCTION - BDA(S) AND/OR REMOTE
- SYSTEM COMPONENT MALFUNCTION - BDA(S) AND/OR REMOTE
- PER NFPA 72-12.4.4 A 2HR FIRE RATED CIRCUIT INTEGRITY CABLE IS REQUIRED BETWEEN THE ANN AND THE ERCS EQUIPMENT WHEN NOT LOCATED IN THE SAME 2HR FIRE RATED ROOM (IF APPLICABLE).

ROOF

- MOUNT DONOR ANTENNA TO MAST PER MANUFACTURER SPECIFICATIONS. USE NON-PENETRATING ROOF MOUNT WHEN APPLICABLE.
- CORRECTLY POSITION DONOR ANTENNA(S) AZIMUTH (SEE DESIGN).
- INSTALL NEMA 4 (L-COMM) BOX TO MAST PER MANUFACTURER SPECIFICATIONS WHEN APPLICABLE AND ENSURE ALL PENETRATIONS ARE WEATHERPROOF.
- GROUND LDF4-50A (OUTDOOR RATED COAX) DONOR CABLE(S) USING GROUNDING KIT(S) NO MORE THAN 50' FROM ROOF PENETRATION.
- PROVIDE AND INSTALL WEATHERPROOF ROOF PENETRATION.
- PROPERLY PROTECT DONOR CABLE(S) ON ROOF USING CONDUIT AND CONDUIT SUPPORTS.
- CONTRACTOR TO PROVIDE BUILDING GROUND AT DONOR ANTENNA LOCATION.

HEADEND / REMOTE LOCATION

- INSTALL AND GROUND POLYPHASERS PER MANUFACTURER SPECIFICATIONS.
- GROUND AL4RPV-50 (PLENUM RATED) DONOR CABLE(S) USING GROUNDING KIT (SEE BOM).
- LIGHTNING PROTECTION MUST COMPLY WITH NFPA 780, PER NFPA 1221 9.6.3.
- MOUNT AND INSTALL ALL PASSIVE EQUIPMENT AND ACTIVE DEVICES (BDA, UPS, ANN, ANTENNAS, SPLITTERS, & CABLE) PER MANUFACTURER SPECIFICATIONS AND APPLICABLE BUILDING CODES, INCLUDING PROPER GROUNDING OF EQUIPMENT WHERE REQUIRED.
- PROPERLY INSTALL ALL CABLES (1/2" COAX AND JUMPERS) AND PASSIVE EQUIPMENT.
- SECURE ALL FLOOR MOUNTED EQUIPMENT TO MEET ALL APPLICABLE BUILDING CODES.
- PROVIDE A DEDICATED 20 AMP POWER SOURCE WITH BREAKER LOCK TO POWER, CHARGE AND MAINTAIN THE HARD WIRED UPS.
- FIRESTOP ALL PENETRATIONS.

RISER

- VERIFY THE VERTICAL RISER ON EACH FLOOR IS 2HR FIRE RATED, PER NFPA 72 24.3.13.8.3 AND ALL COMPONENTS (SPLITTERS), CABLES AND CONNECTIONS ARE ACCESSIBLE.
- IF A NON-ACCESSIBLE RISER IS BEING USED, ENSURE THAT A 2HR FIRE RATED ACCESS PANEL IS INSTALLED AND ALL COMPONENTS (SPLITTERS), CABLES AND CONNECTIONS ARE ACCESSIBLE VIA THE ACCESS PANEL.
- FIRESTOP ALL PENETRATIONS.

INFRASTRUCTURE (HORIZONTAL)

- VERIFY ALL CABLES OUTSIDE OF RISER AND/ OR HE ROOM ARE ROUTED IN CONDUIT AND MEET A LEVEL 1 SURVIVABILITY AS NOTED ABOVE.
- ENSURE ALL CABLES DO NOT EXCEED A MINIMUM 5" BEND RADIUS OR MINIMUM BEND RADIUS SPECIFIED BY THE MANUFACTURER.
- ENSURE EACH CABLE SEGMENT HAS LESS THAN 15 BENDS.
- FREE AIR MOUNT ALL PASSIVE DEVICES (SPLITTER) IN JUNCTION BOXES, AND VERIFY ALL CABLE ENTERING AND EXITING JUNCTION BOX IS PROPERLY CONNECT TO EACH PASSIVE DEVICE. 3' NM-NF JUMPERS ARE PROVIDED ON BOM TO ENSURE PROPER INSTALLATION.
- WHEN CONNECTING MULTIPLE PASSIVE DEVICES IN A SINGLE JUNCTION BOX VERIFY THAT A 3' NM-NM JUMPER IS USED TO INTERCONNECT ALL DEVICES AND 1/2" COAX ENTER AND EXITING BOX MEETS INSTALLATION REQUIREMENT NOTED ABOVE.
- WHEN PASSIVE DEVICES ARE USED IN HARLDID CEILINGS AN ACCESS PANEL MUST BE PROVIDED. CONTRACTOR TO SIZE AND LOCATE.
- MOUNT ANTENNAS TO CEILING, OR JUNCTION BOX WHEN APPLICABLE. ANTENNA MUST NOT BE IMPEDED TO ENSURE PROPER FUNCTION OF THE SYSTEM.
- DISTANCE FROM 1/2" COAXIAL CABLE TO THE ANTENNA JUMPER MIGHT BE GREATER THAN THE ANTENNA JUMPER LENGTH. ENSURE THAT THE CABLES ARE NOT STRETCHED THUS COMPROMISING THE FUNCTIONALTY. A 3' NM-NF JUMPER IS INCLUDED ON THE BOM FOR THIS PURPOSE.
- INSTANCES WHERE AN ANTENNA DIRECTLY CONNECTS TO A SPLITTER OR COUPLER A 3' NM-NM JUMPER IS REQUIRED TO COMPLETE THE CONNECTION. THESE JUMPERS ARE INCLUDED ON THE BOM. VERIFY ALL THESE CONNECTIONS ARE PROPERLY MADE. ALSO SEE PASSIVE COMPONENT RF PATH (ERRCS 0.0) TO ENSURE RF PATH IS CORRECT.

GENERAL NOTES

- PRIOR TO THE SUBMISSION OF PRE-CONSTRUCTION DRAWINGS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL FIELD CONDITIONS AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF A HETNET WIRELESS REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL RECEIVE AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER GUIDELINES UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK WITH THE SITE REPRESENTATIVE AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT.
- CABLE LENGTHS ARE CRITICAL TO SYSTEM PERFORMANCE, INSTALLATION THAT DEVIATES FROM THE DESIGN REQUIRES APPROVAL FROM HETNET WIRELESS.
- ANTENNA PLACEMENT AND CABLE ROUTING IS SCHEMATIC ONLY. ACTUAL ANTENNA PLACEMENT TO BE WITHIN 10' RADIUS OF DESIGN DRAWING AS LONG AS THE ANTENNA FUNCTION IS NOT BEING IMPEDED BY STRUCTURE NOT ALREADY ACCOUNTED FOR IN THE DESIGN MODEL. HETNET WIRELESS SHALL BE NOTIFIED IF THE RELOCATED ANTENNA POSITION EXCEEDS THE 10' RADIUS.
- ALL PENETRATIONS THROUGH A FIRE RATED WALL SHALL BE SEALED AS SPECIFIED BY THE MANUFACTURER OF THE FIRE RATED SLEEVE.
- A SECONDARY POWER SOURCE IS REQUIRED BY CODE, SOME AHJ MAY REQUIRE A SECONDARY POWER SOURCE EVEN IF EMERGENCY GENERATOR POWER IS AVAILABLE.
- ANNUAL TESTING AND MAINTENANCE REQUIRED PER CFC 510.
- PER NFPA 1221 CHAPTER 12.3(1) AND NFPA 72 CHAPTER 7.2.1(14) AS-BUILT DRAWINGS SHALL BE KEPT ON RECORD.
- THE DESIGN OF THE ERCS AS PROVIDED ON THE PLANS COMPLIES WITH THE CALIFORNIA FIRE CODE, ALL APPLICABLE NFPA STANDARDS AND MEETS ALL LOCAL REQUIREMENTS FOR EMERGENCY RESPONDER RADIO COMMUNICATIONS.
- CONTRACTOR IS REQUIRED TO LABEL ALL DEVICES AND CABLES PER RISER DIAGRAM AND FLOOR PLANS. CABLES TO BE LABELED AT EACH END OF THE SEGMENTS. SEE STANDARD DETAILS FOR REFERENCE.

CABLE AND COMPONENT TESTING

- PERFORM AND RECORD A TEST OF EVERY INSTALLED CABLE SEGMENT USING AN RF FDR. (CABLE SEGMENTS SHALL BE TEMPORARILY TERMINATED AT ONE END IN A 50-OHM RESISTIVE LOAD TERMINATION FOR THESE TESTS).
- TEST ALL CABLE SEGMENTS (AS DEFINED BELOW) AT FREQUENCY SWEEPS REFLECTIVE OF COMMON SPECTRUM BANDS IN THAT FREQUENCY RANGE (I.E. 136-174 MHZ COVERS THE VHF BAND).
- TEST EVERY SEGMENT OF CABLE THAT HAS NO MORE THAN A PAIR OF CONNECTORS INDIVIDUALLY WITH A TERMINATION AT ONE END.
- THE RETURN LOSS AT ANY CONNECTOR ALONG A LENGTH OF CABLE SEGMENT SHALL NOT BE GREATER THAN 20dB. INSPECT THE FDR TRACE FOR ANY LOCATIONS OTHER THAN CONNECTORS WHERE RETURN LOSS IS BELOW NOMINAL VALUE. IF APPARENT CAUSE IS IN PROXIMITY TO EXTERNAL METAL DEVICES, CORRECT THE ROUTING OF THE CABLE AND RE-TEST. IF STRETCHING, TEARING OF CABLE OR ITS MATERIALS OCCURS REPLACE THE SECTION OF CABLE AND RE-TEST.

- A COPY OF THE CABLE TEST REPORTS SHALL BE KEPT ON-SITE AND INCLUDED IN THE AS-BUILT RECORDS.

ELECTRICAL NOTES

- BACK BOXES, PULL BOXES, CONDUIT, AND PULL STRINGS IN CONDUIT ARE TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CONDUIT ROUTE MAY REQUIRE MODIFICATION DUE TO CONSTRUCTION FIELD CONDITIONS.
- A LICENSED ELECTRICIAN SHALL SIZE AND INSTALL THE CONNECTIONS FROM THE POWER SOURCE TO THE EQUIPMENT PER MANUFACTURER'S GUIDELINES AND ALL APPLICABLE CODES.

PATHWAY NOTES

- ALL CABLE PATHWAYS SHALL MEET CURRENT REQUIREMENTS SET FORTH BY STATE, CITY, AND LOCAL ORDINANCES.
- ALL HORIZONTAL CABLE MUST BE PLACED IN CONDUIT UNLESS OTHERWISE NOTED. CONDUIT SIZING DONE BY INSTALLER.
- CONDUIT SHALL BE PLACED IN PARALLEL WITH WALLS UNLESS OTHERWISE NOTED.
- CONDUIT RUNS SHALL NOT CONTAIN LB'S.
- CONDUIT RUNS SHALL HAVE ADEQUATE PULL BOXES ON EXTENDED RUNS.
- REAM ALL CONDUIT ENDS. FIT STUBBED CONDUITS WITH AN INSULATED BUSHING. DEBURR SHARP EDGES THAT MAY DAMAGE CABLE DURING INSTALLATION OR SERVICE. EQUIP ALL CONDUIT WITH PULL CORD WITH A MINIMUM TEST RATING OF 200LBS.
- CONTRACTOR SHALL MAINTAIN PROPER BEND RADIUS FOR ALL CONDUIT RUNS UNLESS OTHERWISE NOTED.
- PULL BOXES AND JUNCTION BOXES SHALL BE SIZED AND PROVIDED BY THE INSTALLER.

CABLING NOTES

- DO NOT USE METAL STAPLES OR OTHER METHODS THAT KINK OR DEFORM CABLE JACKET. CABLE HANGERS DESIGNED FOR THE SIZE OF THE COAX SHALL BE USED.
- NO SPLICES ARE PERMITTED.
- ALL EXPOSED CONNECTION HARDWARE SHALL BE PROTECTED FROM PLASTER, PAINT AND OTHER SUCH MATERIALS.
- ALL LOW-VOLTAGE WIRING SHOULD BE RUN AT LEAST ONE STUD BAY APART (12" MINIMUM) FROM ANY PARALLEL HIGH-VOLTAGE WIRING, AND CROSS AT RIGHT ANGLES WHENEVER NECESSARY. WHERE THERE IS SUFFICIENT CLEARANCE TO MEET THAT REQUIREMENT, THE CABLING MUST BE ARRANGED TO PROVIDE THE MAXIMUM POSSIBLE SEPARATION, OVER AS MUCH DISTANCE AS POSSIBLE (UNDER NO CIRCUMSTANCES SHALL THE LATERAL DISTANCE BE LESS THAN 4" WITHOUT SUPPLEMENTAL SHIELDING). THE ONLY EXCEPTION IS WHERE CABLES CROSS AT RIGHT ANGLES, WHERE A 2" MINIMUM SEPARATION MUST BE MAINTAINED.
- PROTECTING CABLING FROM DAMAGE IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ALL CABLING MUST BE RUN WHERE IT IS UNLIKELY TO BE DAMAGED AFTER INSTALLATION, NAIL PLATES SHOULD BE INSTALLED WHERE CABLING PASSES THROUGH WALL STUDS, WHERE STEEL FRAMING IS USED, PLASTIC BUSHINGS MUST BE INSTALLED WHEREVER CABLES PASS THROUGH METAL STRUCTURAL MEMBERS. CABLES MUST NOT TOUCH ANY EDGES OF METAL FRAMING.
- ALL CABLING MUST BE PROPERLY SUPPORTED AND SECURED IN A WAY THAT WILL NOT COMPRESS OR DEFORM THE CABLES.
- THIS DESIGN INCLUDES JUMPERS IN THE BOM THAT DESPITE NOT BEING ILLUSTRATED IN THE DRAWINGS ARE TO BE INSTALLED IMMEDIATELY BEFORE AND AFTER EACH SPLITTER, COUPLER AND/OR TAPPER WHERE APPLICABLE.
- IF APPLICABLE, SINGLE MODE FUSION SPLICED FIBER PROVIDED BY OTHERS. SC/APC CONNECTORS PROVIDED IN BOM.
- COMMUNICATION AND SIGNAL CIRCUITS SHALL BE IDENTIFIED BY A DISTINCTIVE COLOR ON COVERS OR DOORS. THE WORDS "EMERGENCY COMMUNICATIONS-SIGNAL CIRCUIT" SHALL BE CLEARLY MARKED ON ALL TERMINAL AND JUNCTION LOCATIONS.
- CONTRACTOR, AT THEIR DISCRETION, MAY USE SHORTER JUMPERS WHEN FEASIBLE TO DO SO.

FUNCTIONS & CAPABILITIES

- THE ERCS PROVIDES A METHOD TO AMPLIFY AND DISTRIBUTE EMERGENCY SERVICE PROVIDER RADIO SYSTEM TRANSMISSIONS WITHIN BUILDINGS.
- WHEN REQUIRED, CONTRACTORS SHALL HAVE AN FCC-CERTIFIED TECHNICIAN WHO IS QUALIFIED WITH A GENERAL RADIO/TELEPHONE OPERATOR LICENSE (GROL/PG), OR EQUIVALENT, TO REVIEW DESIGN PLANS, PERFORM THE INSTALLATION, AND TEST THE SYSTEM.
- CONTRACTORS SHALL PROVIDE AND INSTALL ALL RACKS, FIBER TRAYS, BI-DIRECTIONAL AMPLIFIERS, BACK-UP BATTERY SYSTEMS, AUTO DIALERS, REMOTE HUB/UNITS, ROOF ANTENNAS, MULTI-BAND DIRECTIONAL AND OMNI-DIRECTIONAL ANTENNAS, POWER SUPPLIES PLENUM RATED COAXIAL CABLE, PLENUM RATED RISER COAXIAL CABLE, POWER CONDITIONERS, CONNECTORS, SPLITTERS, COUPLERS, FIBER OPTIC CABLE, FIBER OPTIC MATERIALS AND CONNECTORS, GROUNDING, AS NEEDED TO PROVIDE A COMPLETE SYSTEM AS DEPICTED ON THE PLANS.
- ENCASE ALL ACTIVE DEVICES IN A NEMA 4 DUST/WATER PROOF CABINET IF NOT ALREADY NEMA 4 RATED.
- EMERGENCY RESPONDER RADIO COVERAGE SYSTEMS SHALL BE PROVIDED WITH AN APPROVED SECONDARY SOURCE OF POWER. THE SECONDARY POWER SUPPLY SHALL BE CAPABLE OF OPERATING THE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM FOR A PERIOD OF AT LEAST 24 HOURS. WHEN PRIMARY POWER IS LOST, THE POWER SUPPLY TO THE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM SHALL AUTOMATICALLY TRANSFER TO THE SECONDARY POWER SUPPLY.
- INSTALLING CONTRACTOR TO HAVE FIRE DEPARTMENT APPROVED CERTIFIED TECHNICIAN WHO WILL REVIEW CONSTRUCTION PLANS IN ORDER TO ENSURE THAT SUCH PLANS MEET THE AFOREMENTIONED RADIO COMMUNICATION CRITERIA, INCLUDING THE LOCATION OF ALL NECESSARY CONDUIT.
- ALL CRITICAL AREAS NOT LIMITED TO, FIRE CONTROL ROOMS, FIRE PUMP ROOMS, EXIT STAIRS, EXIT PASSAGeways, FIRE SPRINKLER SECTIONAL AREAS, ELEVATORS, AND LOBBIES. RADIO COVERAGE MUST ACHIEVE 99% OF THE FLOOR IN CRITICAL AREAS.
- SIGNAL STRENGTH OF -95dBm SHALL BE RECEIVED IN 90% OF THE GENERAL BUILDING AREA.

BILL OF MATERIAL

Type	Manufacturer	Model	Description	Qty
Antenna	Comprod Communications	F-3741	0 dBi Gain Tri-Band Omnidirectional Antenna - VHF / UHF / 760-960 MHz	5
Antenna	PCTEL	MYA1503KN	MAXRAD 150-174 MHz 3 element yagi. Field tuneable. 7.1dB gain, 300 watt. Direct N female termination. Includes mounting hardware	2
Attenuator	Mini Circuits	BW-N3W5+	N - TYPE, 3dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-N6W5+	N - TYPE, 6dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-N10W5+	N - TYPE, 10dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-N20W5+	N - TYPE, 20dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-S3W5+	SMA - TYPE, 3dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-S6W5+	SMA - TYPE, 6dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-S10W5+	SMA - TYPE, 10dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	BW-S20W5+	SMA - TYPE, 20dB Attenuator, 5 Watts	2
Attenuator	Mini Circuits	K1 UNAT+	Attenuator Kit - 'N' TYPE	2
Attenuator	Mini Circuits	K1 VAT+	Attenuator Kit - SMA	2
BDA	Fiplex	DH14CA-AV-ND	Digital Class A Repeater, VHF band - +24dBm composite output power per band - 4 Port - External Duplexer Required	1
Cable	CommScope	AL4RPV-50	HELIX® Plenum Rated Air Dielectric Coaxial Cable - Corrugated Aluminum - 1/2 in - Off White PVC Jacket	800 feet
Cable	CommScope	LDF4-50A	HELIX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket	400 feet
Cable	Tesco Technologies	6' NM-NF-RG142	Teflon Jumper Cable 6' RG142 N-Male / N-Female - Dual Silver Shields - Brown Tinted FEP Jacketed	4
Cable	Tesco Technologies	RG-142 NF-NF-3'	Teflon Jumper Cable 3' RG142 N-Female / N-Female - Dual Silver Shields - Brown Tinted FEP Jacketed	4
Cable	Tesco Technologies	RG-142 NM-NF-3'	Teflon Jumper Cable 3' RG142 N-Male / N-Female - Dual Silver Shields - Brown Tinted FEP Jacketed	6
Cable	Times Microwave Systems	3' LMR-400 NM-NF	3' LMR-400 JUMPER (N-Male - N-Female) Flexible Low Loss Communications Coax Jumper	2
Connector	CommScope	L4TNF-PSA	N Female Positive Stop for 1/2 in AL4RPV50, LDF450A cable	2
Connector	CommScope	L4TNM-PSA	N Male Positive Stop for 1/2 in AL4RPV50, LDF450A, HL4RPV50 cable	20
Miscellaneous	CommScope	241088-1	Standard Grounding Kit for 1/2 in corrugated coaxial cable and elliptical waveguide	1
Miscellaneous	Fiplex	BTTY-100100	Battery Backup Unit, 24 VDC, 100W / 24hrs or 200W / 12hrs	2
Miscellaneous	L-Com	HGX-PMT13	Enclosure Pole Mounting Kit - Pole Diameters 3 to 4 inches	2
Miscellaneous	L-Com	NB161406	16x14x6 Inch Non-Powered Weatherproof Industrial NB Series Enclosure	2
Miscellaneous	Mini Circuits	ZNB-60-1W+	Bias-Tee - Coaxial - NM-NF-BNC (Place at Donon)	4
Miscellaneous	Panasonic	HE2aN-DC48V	General Purpose Relay SPST-NO (2 Form A) 48VDC Coil Chassis Mount	2
Miscellaneous	Panasonic	JH2-SF	Terminal Socket for HE Relay	4
Miscellaneous	Pasternack	PE6012	BNC Male Shorting Dust Cap	2
Miscellaneous	PolyPhaser	BGXZ-60NFNF-ALT	40-400 MHz, DC PASS COAX PROTECTION, NF TO NF	2
Miscellaneous	RFS	NM-NM	Adapter - N Male - N Male	2
Miscellaneous	ROHN	FZ1757	2.88" O.D. x 0.203" wall x 5.0' (HDG)	2
Miscellaneous	Saftey Technology International	SS-2222PO	Emergency Power Off - Stopper® Station with Stopper® Station Shield	1
PS DAS Annunciator	DASAlert	1221B	Public Safety DAS Annunciator System	1
Splitter	Microlab/FXR	D2-41FN	2-way Reactive Splitter, PIM <158 dBc, 100 W Power Splitter, 138-960 MHz, Low PIM - Type N Connectors	2
Splitter	Microlab/FXR	DN-51FN	Unequal Power Splitter (Tapper), PIM <161 dBc, 4:1 (6.0 dB), 137 - 960 MHz, Public Safety, Type N Connectors, Low PIM	1

- NOTES:
- ANTENNAS MUST BE FACTORY TUNED WHEN ORDERED. PROVIDE DESIGN FREQUENCIES TO MANUFACTURER WHEN ORDERING.
 - JUMPER QUANTITIES AT PASSIVE DEVICES ARE SUGGESTED. CONTRACTOR MAY CHOOSE TO INSTALL MORE THAN OR LESS THAN QUANTITY STATED IN BOM.

DONOR SITE INFORMATION

San Benito County Sheriff

System: San Benito County Sheriff
 Band: VHF
 Callsign:
 High Frequency: 158.77500
 Donor Site Name or Address: 451 Fourth Street
 Latitude: 36°51'8.16"N
 Longitude: 121°24'17.79"W
 Azimuth: 310° T.N.

DL DONOR SITE CALCULATION

1. Donor Site Information
 Distance: 3.0000 miles, DA to DS

2. Find Free Space Path Loss
 Freq: 158.7750 Mhz
 Distance: 3.0000 miles
 90.1581 dB Path Loss

3. Donor Site Transmit Power
 Watts: 110.0000 watt
 Watts to dBm: 50.4139 dBm
 Expected RSSI = -45.7441
 Design RSSI = -54

Hollister City Fire

System: Hollister City Fire
 Band: VHF
 Callsign:
 High Frequency: 155.80500
 Donor Site Name or Address: 451 Fourth Street
 Latitude: 36°51'8.16"N
 Longitude: 121°24'17.79"W
 Azimuth: 310° T.N.

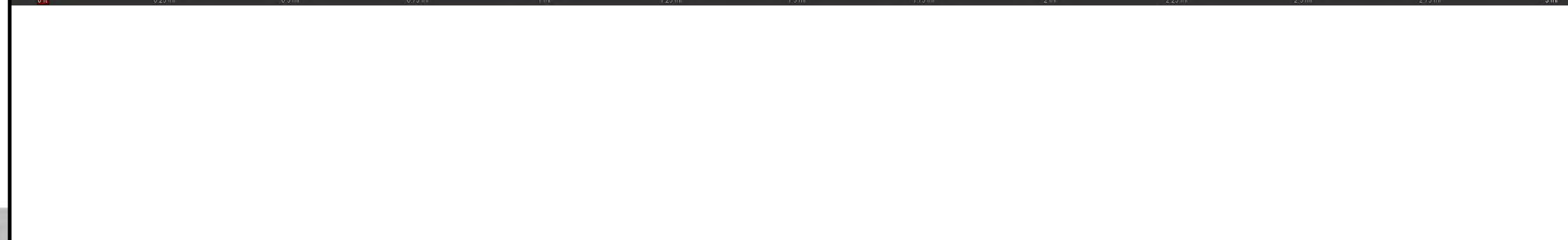
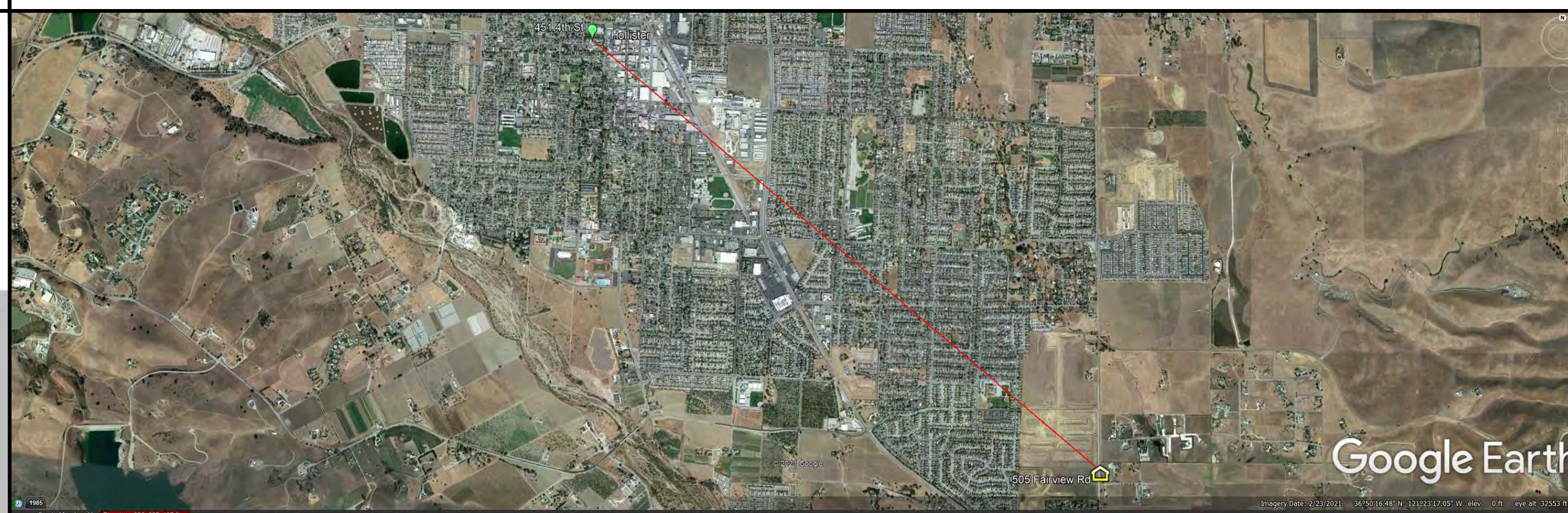
DL DONOR SITE CALCULATION

1. Donor Site Information
 Distance: 3.0000 miles, DA to DS

2. Find Free Space Path Loss
 Freq: 155.8050 Mhz
 Distance: 3.0000 miles
 89.9941 dB Path Loss

3. Donor Site Transmit Power
 Watts: 100.0000 watt
 Watts to dBm: 50.0000 dBm
 Expected RSSI = -45.9941
 Design RSSI = -54

DONOR SITE MAP



QUATTROCCHI KWOK ARCHITECTS
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 636 Fifth Street, Santa Rosa, CA 95404
 East Bay:
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GAVILAN COLLEGE

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GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906

ARCH PROJECT NO: 1897.00

DRAWN BY:

DRAWING SCALE: N.T.S.

PTN: 43-C4 FILE NO: N/A

DSA SUBMITTAL

FEBRUARY 4, 2022

SHEET TITLE

NOTES, BOM, & DONOR INFORMATION

SHEET NUMBER

ERRCS 0.1

BDA INFORMATION

VHF DIGITAL SIGNAL BOOSTERS
137 - 164 MHz

DH124-004
DH124-005

Product Features

- Channel Selective, software programmable
- Fully digital signal boosters, FPGA based
- Auto diagnostic
- Uplink squelch, per channel and per time slot
- User adjustable gain control, UL and DL independent, per channel
- Automatic Gain Control, per channel and per time slot
- Weatherproof enclosure, IP67/NEMA4X
- NFPA compliant
- Built in spectrum analyzer



Applications

- Indoor coverage: tunnels and mobile fast-deploy communication units
- Outdoor coverage: oil rigs, stadiums, dense urban areas, rural areas, cliffs

Specification	Value
Type	Digital Signal Boosters (without Antenna Feedback Cancellation)
Frequency range	136 - 164 MHz
Passband BW	2MHz max 3MHz min banguard
Internal Duplexer	Yes
Number of Channels	Channel Selective (90KHz, 45KHz, 30KHz, 20KHz, and 15KHz BW), 1 to 32
Gain, maximum	80 dB
Passband ripple	+/- 2.0 dB
Gain, manual control	28dB range, digitally controlled in 1dB steps
Antenna isolation	Min Gain + 13 dB
Composite output power, DL	+24 dBm composite
Composite output power, UL	+24 dBm composite
IM and spurious generation	< -13 dBm
Simplex option	Configurable
Noise figure	9.0 dB max at maximum gain
Impedance	50 Ω
Group delay	Channel Selective 90KHz, 14µs Channel Selective 45KHz, 23µs Channel Selective 30KHz, 33µs Channel Selective 20KHz, 45µs Channel Selective 15KHz, 55µs
Maximum input power, no damage	0 dBm (UL) -3 dBm (DL)
Connectors	NF as standard
RF Input/Output impedance	50Ω
Uplink squelch function	Yes, user selectable to avoid UL noise when no carriers present, by time slot and by channel (Channel Selective model only)
Self diagnostic platform	Microprocessor based

www.fiplex.com • info@fiplex.com



VHF DIGITAL SIGNAL BOOSTERS
137 - 164 MHz

DH124-004
DH124-005

Specification

Specification	Value
Alarms	Yes, amplifiers status, power amplifiers status, power supply failure, battery backup failure, temperature, AGC, RF overload, poor antenna isolation.
Local management and supervising	Local access via USB and Ethernet (web browser)
Remote management and supervising	Remote access via Ethernet, Wireless modem, SNMP as optional.
RoHS compliance	Yes
Power supply	see table
Power Consumption	170W
Housing	IP67 / NEMA4X
Temperature range	-13° to 131° F • -23° to +55° C
Cooling	Natural convection
Dimension	20.2 x 18.2 x 9 inches • 514 x 462 x 230 mm
Weight	55 lbs • 25 kg
Mounting	Wall mounting
MTBF	<50,000 hours

Product Code	Class	Config.	Composite Output Power	Power Supply Option
DH124-004	A - 32 channels UL 32 channels DL	01	+ 24dBm per band	AC
DH124-005	A - 32 channels UL 32 channels DL	01	+ 24dBm per band	DC

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UPS INFORMATION

BATTERY BACKUP SYSTEMS

BTTY Series

Product Features

- NFPA Compliant
- Up to 24 hour version
- Batteries included
- AC Input, 24 Volt DC Output
- NEMA-4 Rated BBU Enclosure
- Up to 4 Annunciators may be connected to one BBU
- Tamper Proof with Lock and Key Accessibility
- Flush Wall Mounted Annunciators
- IFC & NFPA compliance: UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524.



Specification	Value
Type	Battery Backup Unit
Input	120 VAC, 50/60 Hz
Size	24 x 20 x 10 in.

Specifications	Value
BTTY-100050	
Storage capacity	100W / 12hs
Annunciator	AC Power Normal AC Power Failure Battery Capacity <30% Battery Charger Fail Donor Antenna Disconnection Donor Antenna Malfunction RF Emitter Fail System Component Fail

Max Load	Value
Batteries	Included
BDA Annunciator	Built in, port for additional external annunciators
Weight (batteries included)	150lbs

Specifications	Value
BTTY-100100	
Storage capacity	100W / 24 hrs or 200W / 12 hs
Annunciator	AC Power Normal AC Power Failure Battery Capacity <30% Battery Charger Fail Donor Antenna Disconnection Donor Antenna Malfunction RF Emitter Fail System Component Fail

Max Load	Value
Batteries	Included
BDA Annunciator	Built in, port for additional external annunciators
Weight (batteries included)	210lbs

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UPS Sizing Calculation Model No.: BTTY-100100

MIN. UPS REQUIREMENTS BY TOTAL WATTAGE DRAW

Watts (Total)	V	Battery Run Time (Hrs.)	Watts (Hrs)	Battery Efficiency	Min. Draw (Amps)
100	48	24	2400	90.00%	2.08

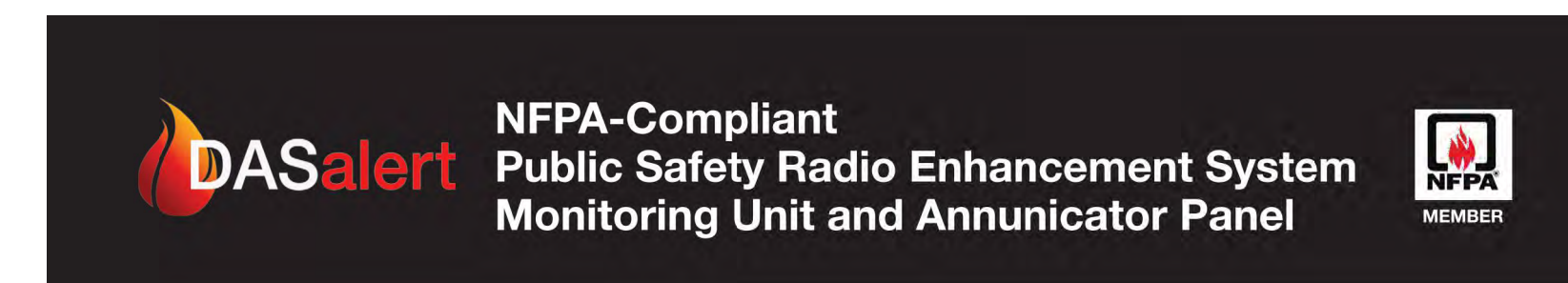
UPS PERFORMANCE SIZED

Battery (Ah)	V	Battery Strings	Total Battery (Ah)	Runtime (Hrs)	Actual Runtime (Hrs)
55	48	1	55	26.40	24.00

ALARMING INFORMATION

ALARMING NOTES

1. INSTALLER SHALL REFERENCE UPS, BDA, AND ANN INSTALLATION GUIDES FOR ALL ALARMING CONTACTS.
2. INSTALLER IS RESPONSIBLE FOR ALL ALARMING CONNECTIONS TO THE ANN.
3. FIRE ALARM CONTRACTOR SHALL BRIDGE THE ALARMING FROM THE ANN TO MAIN FIRE ALARM PANEL. A SEPARATE PERMIT IS REQUIRED.
4. FIRE ALARMING SHALL COMPLY WITH NFPA 72.
5. PER NFPA 9.6.13.2, THE DEDICATED MONITORING PANEL (ANN) MUST BE LOCATED IN THE FIRE COMMAND CENTER IF APPLICABLE. ERCS HE SHALL BE LOCATED IN FIRE COMMAND CENTER IF APPLICABLE. IF NOT APPLICABLE, ANN SHALL BE LOCATED NEXT TO FACP.
6. ALARMING POINTS (ANN MUST COMPLY) PER NFPA 1221 9.6.13.2:
 - NORMAL AC POWER - UPS
 - LOSS OF NORMAL AC POWER - UPS
 - BATTERY CHARGER FAILURE - UPS
 - LOW BATTERY CAPACITY (TO 70% DEPLETION) - UPS
 - DONOR ANTENNA MALFUNCTION - BDA(S)
 - ACTIVE RF EMITTING DEVICE MALFUNCTION - BDA(S) AND/OR REMOTE
 - SYSTEM COMPONENT MALFUNCTION - BDA(S) AND/OR REMOTE
7. THE COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE TWO-WAY RADIO COMMUNICATIONS ENHANCEMENT SYSTEM MUST BE MONITORED FOR INTEGRITY.



DASAlert Models 1221-A & 1221-B Meets NFPA-72 (2010, 2013 & 2016) and current NFPA-1221 codes for a Dedicated Annunciator and Monitoring Panel

Displays Status of:

- BDA
- Donor Antenna
- AC Power
- Battery Capacity
- Battery Charger
- System Status

Includes Form-C relay contacts to interface with any fire alarm system

Monitors communications link for integrity

Includes independent circuitry to check antenna, AC power, battery capacity, charger and overall system status

Mates with or augments monitoring of any BDA, antenna, charger, battery or UPS

Low cost, easy to install and program

Small size NEMA-4: 10"H x 8"W x 4"D

Backed up by internal battery (included)



Specifications

Dimensions	10" x 8" x 4"	Fault inputs from Radio Enhancement System	Donor Antenna OK / Fail Amplifier OK / Fail Charger OK / Fail Battery Capacity OK / Low AC Power ON / OFF
Weight	11.7 lbs	Form C Dry Relay Outputs to Fire Alarm System	AC Power System (Summary Alarm) Amplifier (BDA) Antenna Battery Charger Battery Capacity Communications Fault
		Analog Inputs	Donor Antenna Sense DAS Battery +/-
		Certifications	UL: E194432, ETL: 4001276
		Power	15 VDC (180 ma) from supplied Power Supply

www.DASAlert.com | 303-526-1965 | sales@DASAlert.com

EMERGENCY POWER OFF

BUTTONS AND SWITCHES

STI STOPPER®
STATION SERIES



PRODUCT OVERVIEW

These ADA Compliant, multipurpose push button switches cover a wide range of applications both indoors and outdoors. They're called Stopper Stations. They incorporate a unique, patented design that helps dramatically to stop accidental activation. A number of standard models are available or we can create custom units to meet your needs exactly. You have your choice of any of five universal shell colors, several button styles, standard or custom wording and language.

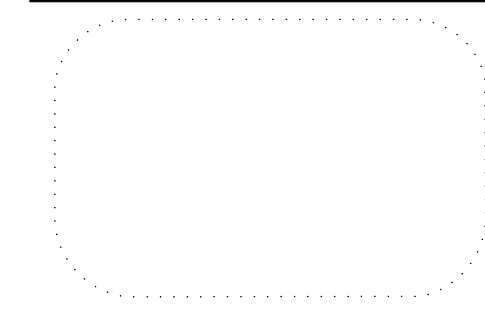
HOW THEY WORK

Because of their superior, patented design combined with quality construction throughout, you can expect outstanding performance for years to come. In fact, many STI customers are surprised to find that all this quality is available at no increase in price. Plus, customers appreciate the option to protect the switches with STI protective covers that carry a three year guarantee against breakage in normal use, one year on electro-mechanical and electronic components. For indoor applications, you can order your Stopper Station with a pre-alarm cover to help stop malicious and accidental activation.

For more information, call 1-800-888-4784 (4STI) or visit www.sti-usa.com

KEY FEATURES

- General Information**
 - Multipurpose push button switches cover a wide range of applications both indoors and outdoors.
 - Three year guarantee against breakage of polycarbonate in normal use (one year on electro-mechanical and electronic components).
- Design**
 - Unique, curved design helps protect against accidental activation.
 - Station housing molded of tough polycarbonate.
 - UL Listed to U.S. and Canadian safety standards.
 - Models used with UL-UL Latching Timer Module are listed for access control.
 - Stainless steel backplate.
 - Push buttons are ADA Compliant (excludes "T" key switch button).
- Installation**
 - IBA flameability rating on backplate and spacer.
 - Typical working properties of polycarbonate are 40° to 250°F (-40° to 121°C).
 - Polycarbonate complies with FDA regulations for food contact applications.
- Options**
 - Your choice of colors — red, green, yellow, white or blue.
 - Standard or custom text or hi-res logo.
 - Custom text in any language.
 - Protect with STI indoor/outdoor protective covers.



QUATTROCCHI KWOK ARCHITECTS
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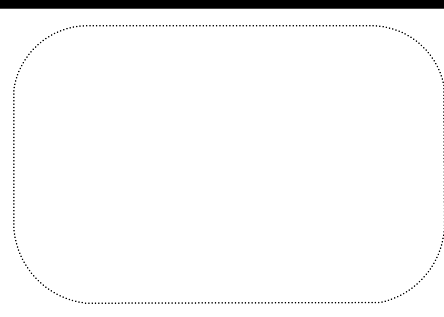
SHEET TITLE

EQUIPMENT INFORMATION

SHEET NUMBER

ERRCS 0.2

3 OF 12 SHEETS



QUATTROCCHI KWOK
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SIGNED: MONTH DAY, 2021

Gensler

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San Francisco, CA 94105
United States

GAVILAN COLLEGE

NEW COLLEGE CAMPUS

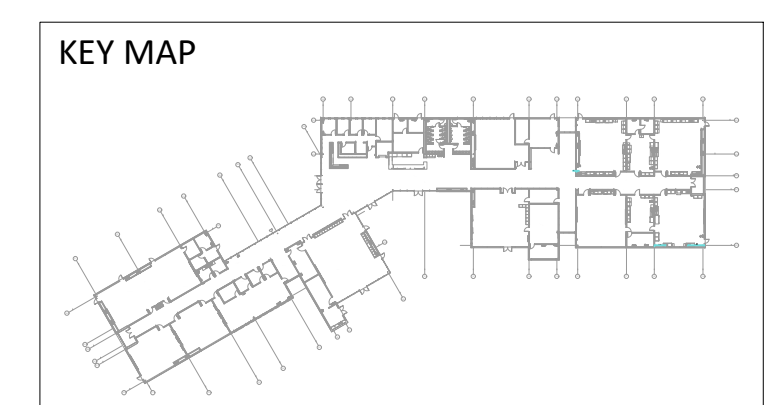
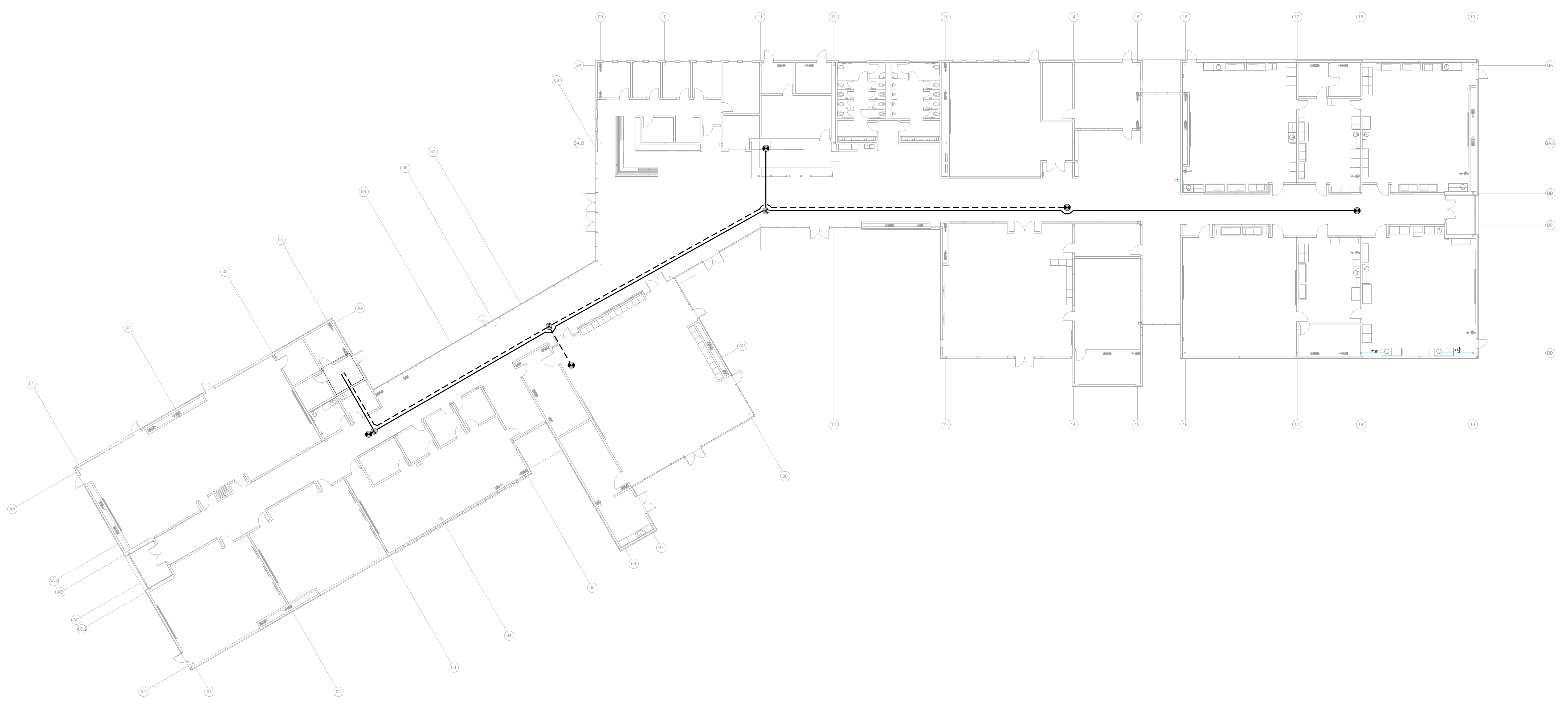
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HOLLISTER, CA 95023

GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT

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ARCH PROJECT NO. 1897.00
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DRAWING SCALE: 1/16" = 1'
PTN: 43-C4 FILE NO: N/A
DSA SUBMITTAL
FEBRUARY 4, 2022

LEVEL 1 - OVERALL

SHEET NUMBER
ERRCS 2.0
5 OF 12 SHEETS

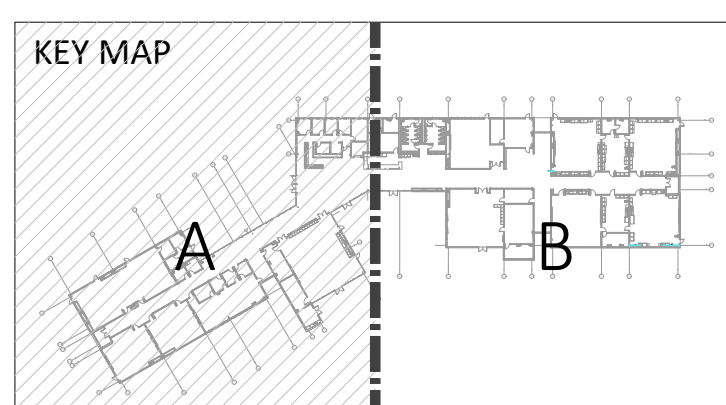


LEVEL 1 - OVERALL

SCALE: 0'-1/16"=1'-0"



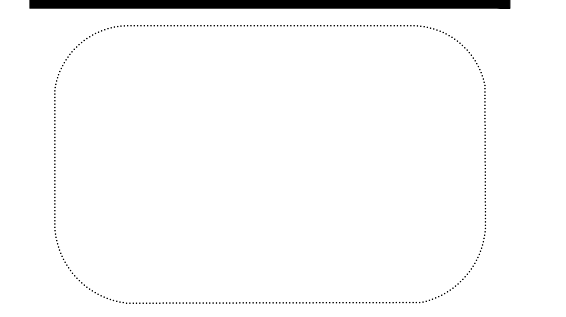
NOTE:
 1. PROPER CONDITIONING OF SPACE REQUIRED FOR ALL ERRCS EQUIPMENT.
 2. CONDUIT NOT SHOWN FOR CLARITY.



LEVEL 1 - SEGMENT A

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

SEE ERRCS 2.0B



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 United States
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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
 HOLLISTER, CA 95023

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

DSA APP NO. 01-119906
 ARCH PROJECT NO. 1897.00
 DRAWN BY:
 DRAWING SCALE: 1/8" = 1'
 PTN: 43-C4 FILE NO: N/A
DSA SUBMITTAL
FEBRUARY 4, 2022

SHEET TITLE
 LEVEL 1 - SEGMENT A

SHEET NUMBER
ERRCS 2.0A
 6 OF 12 SHEETS



NOTE:

1. DONOR ANTENNAS MUST CLEAR PARAPET OF ANY OBSTRUCTION BY 3'. NOT DOING SO WILL COMPROMISE RADIO TRANSMISSION.
2. 10' MINIMUM DISTANCE REQUIRED BETWEEN DONOR ANTENNAS.



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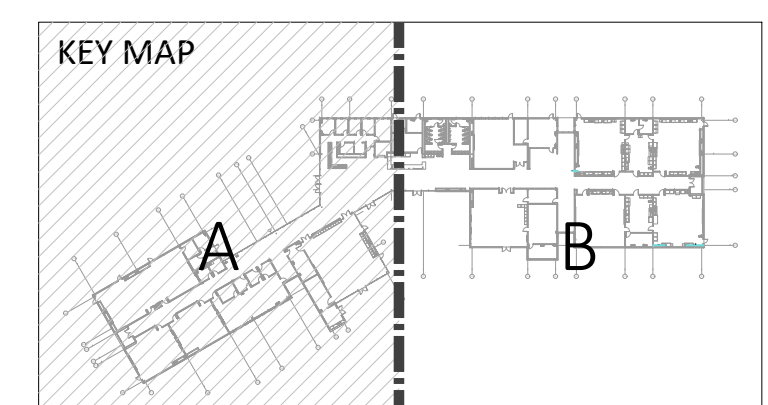
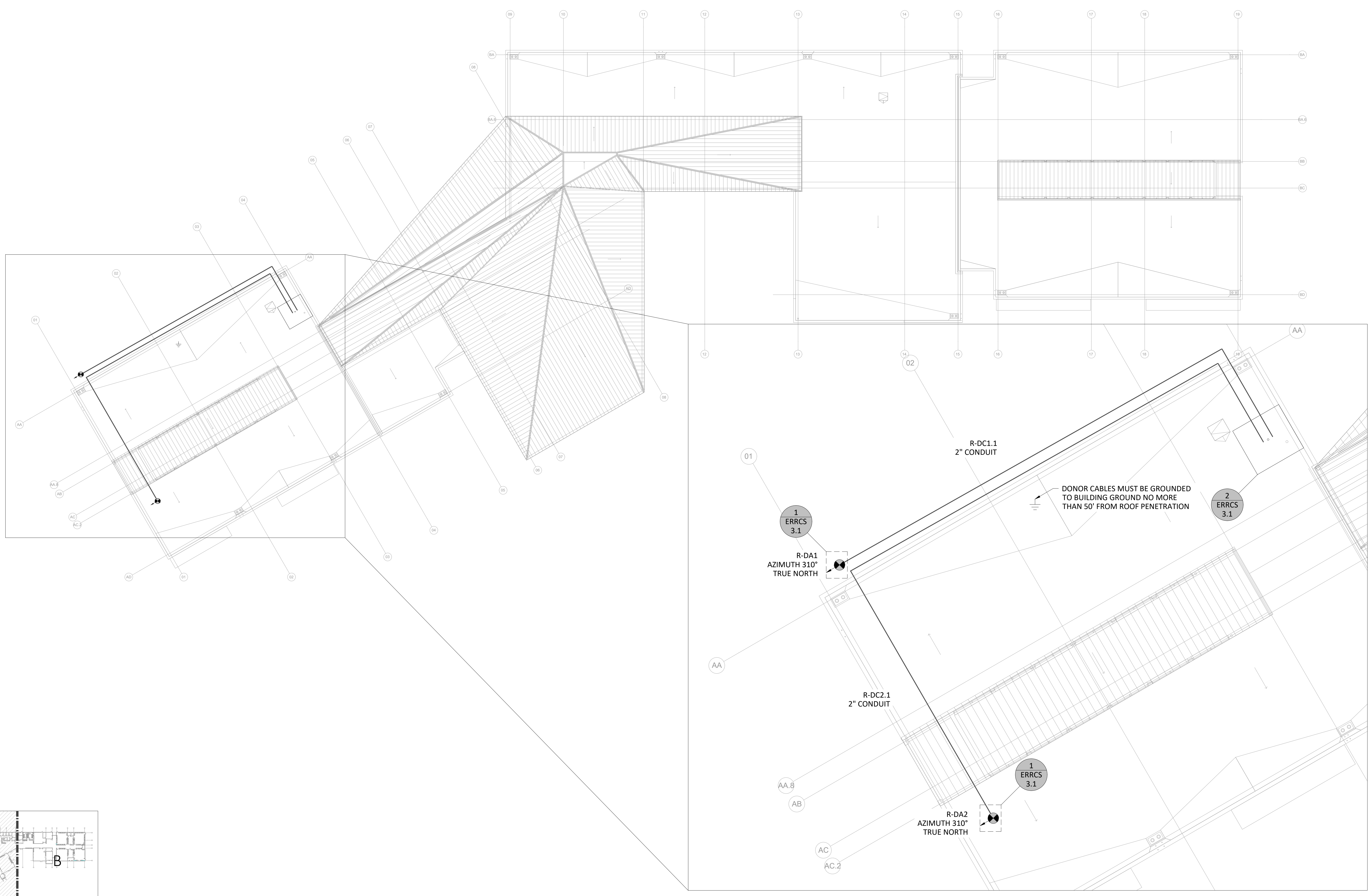
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DRAWING SCALE: VARIES
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ROOF - OVERALL

ERRCS 2.1

8 OF 12 SHEETS



ROOF - OVERALL

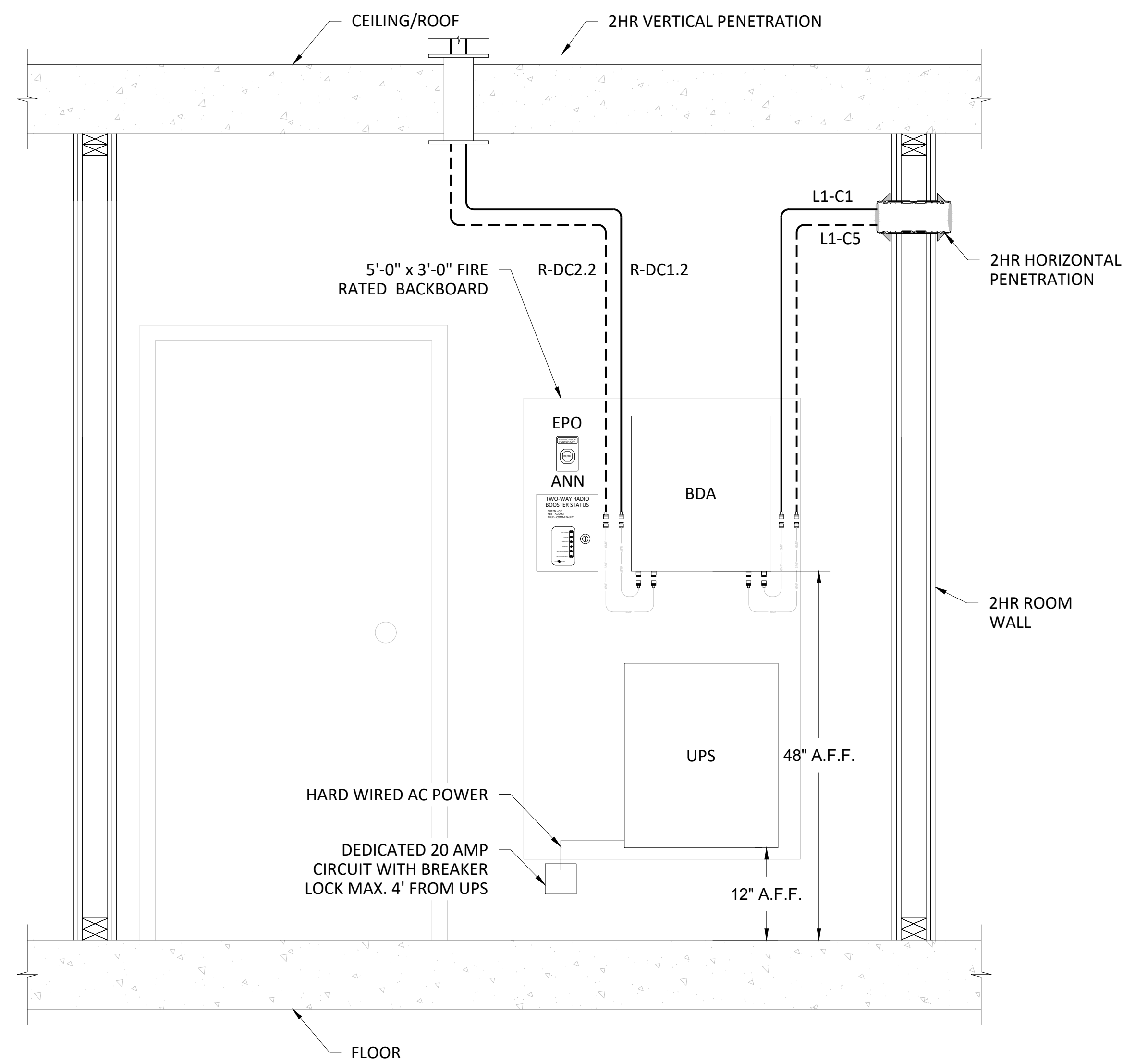
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ROOF - DETAIL

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

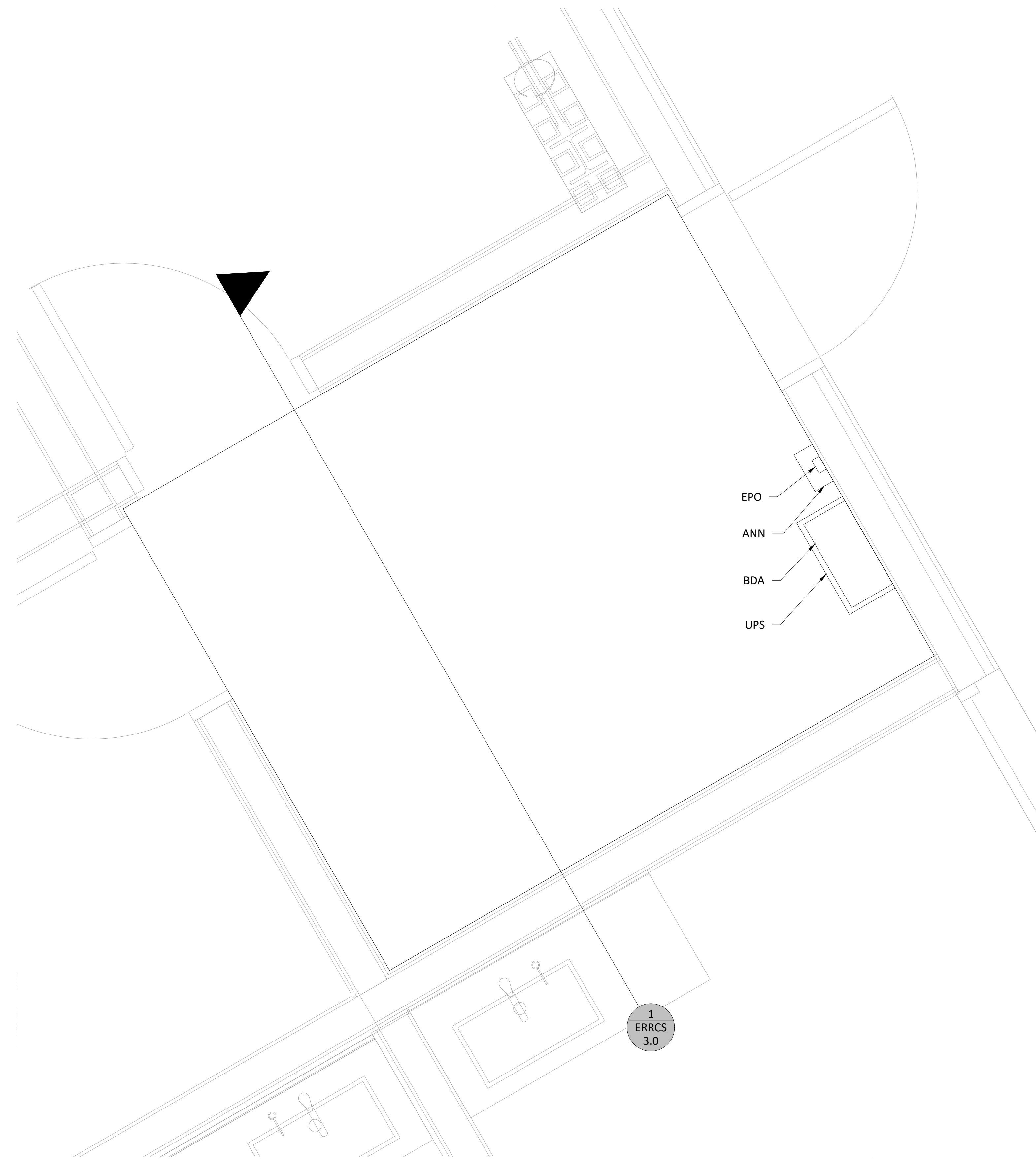


- NOTE:
 1. PROPER CONDITIONING OF SPACE REQUIRED FOR ALL ERRCS EQUIPMENT.
 2. CONDUIT NOT SHOWN FOR CLARITY.



DETAIL 1
 LEVEL 1 2HR FIRE RATED HE EQUIPMENT ELEC ROOM WALL DETAIL

- NOTE:
 1. PROPER CONDITIONING OF SPACE REQUIRED FOR ALL ERRCS EQUIPMENT



DETAIL 2
 LEVEL 1 2HR FIRE RATED HE EQUIPMENT ELEC ROOM FLOOR DETAIL



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PTN: 43-C4 FILE NO: N/A

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SHEET TITLE

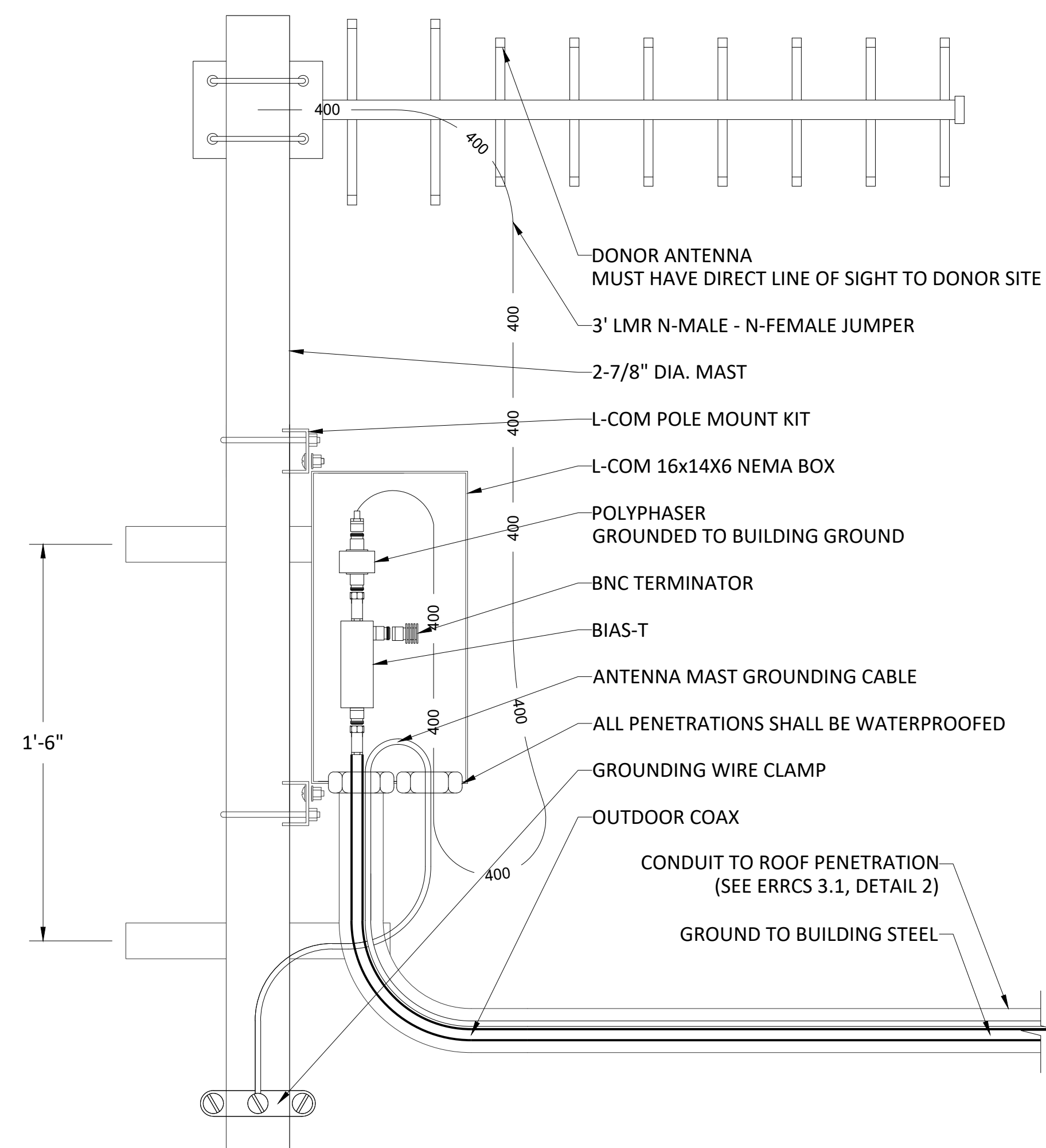
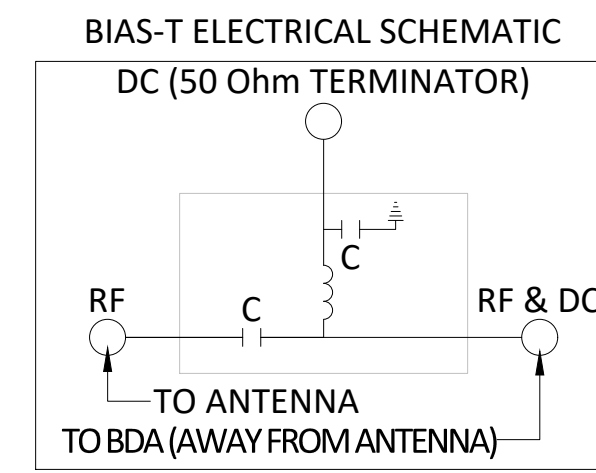
EQUIPMENT ROOM DETAILS

SHEET NUMBER

ERRCS 3.0

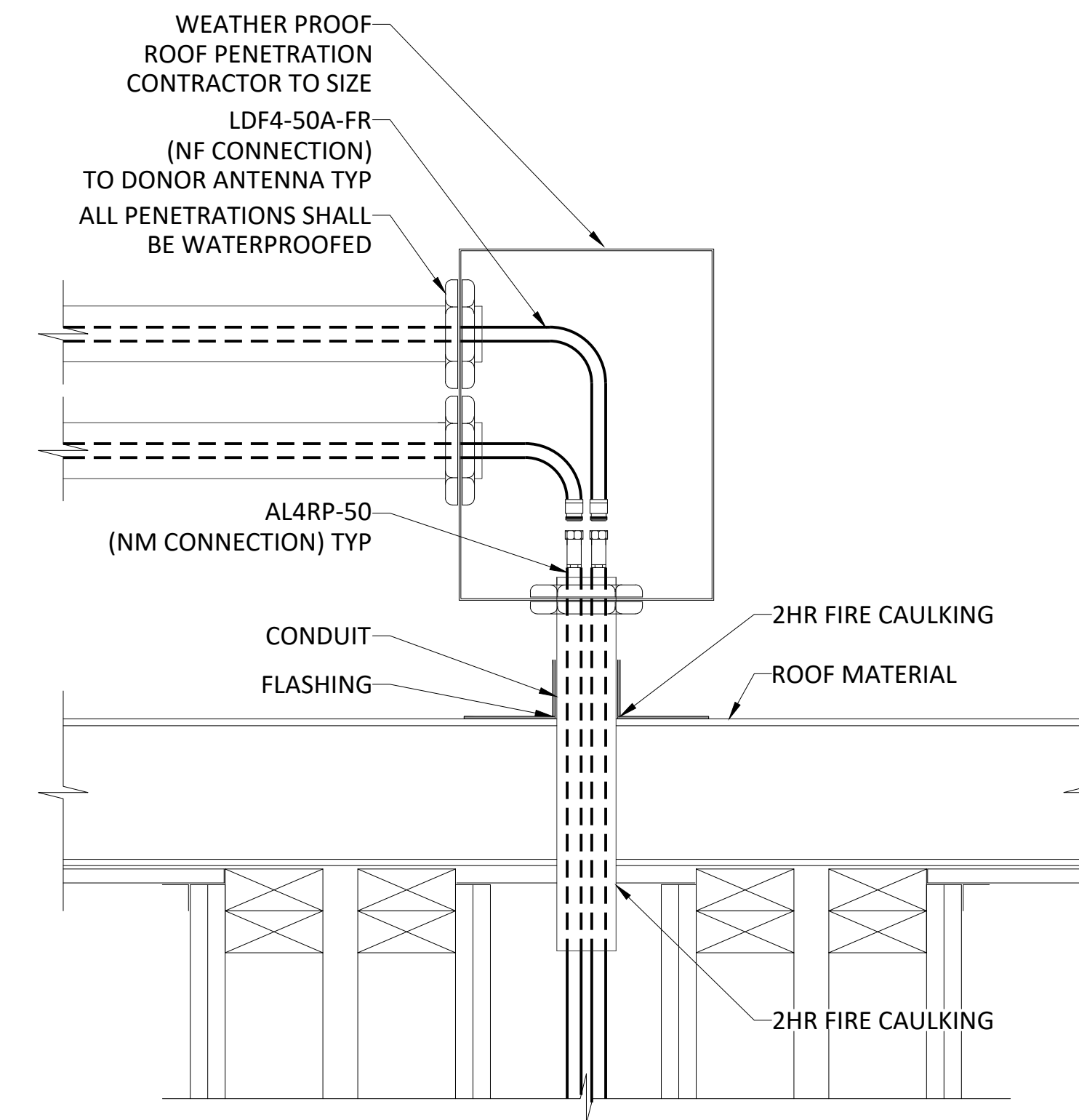
9 OF 12 SHEETS

- NOTE:
1. DONOR ANTENNAS MUST CLEAR PARAPET OF ANY OBSTRUCTION BY 3'. NOT DOING SO WILL COMPROMISE RADIO TRANSMISSION.
 2. 10' MINIMUM DISTANCE REQUIRED BETWEEN DONOR ANTENNAS.



DETAIL 1
DONOR ANTENNA DETAIL

NOTE: CABLE MUST BE GROUNDED NO MORE THAN 50 FT FROM ROOF PENETRATION. SEE ERRCS 3.2 DETAIL 9



DETAIL 2
ROOF PENETRATION DETAIL



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SHEET TITLE

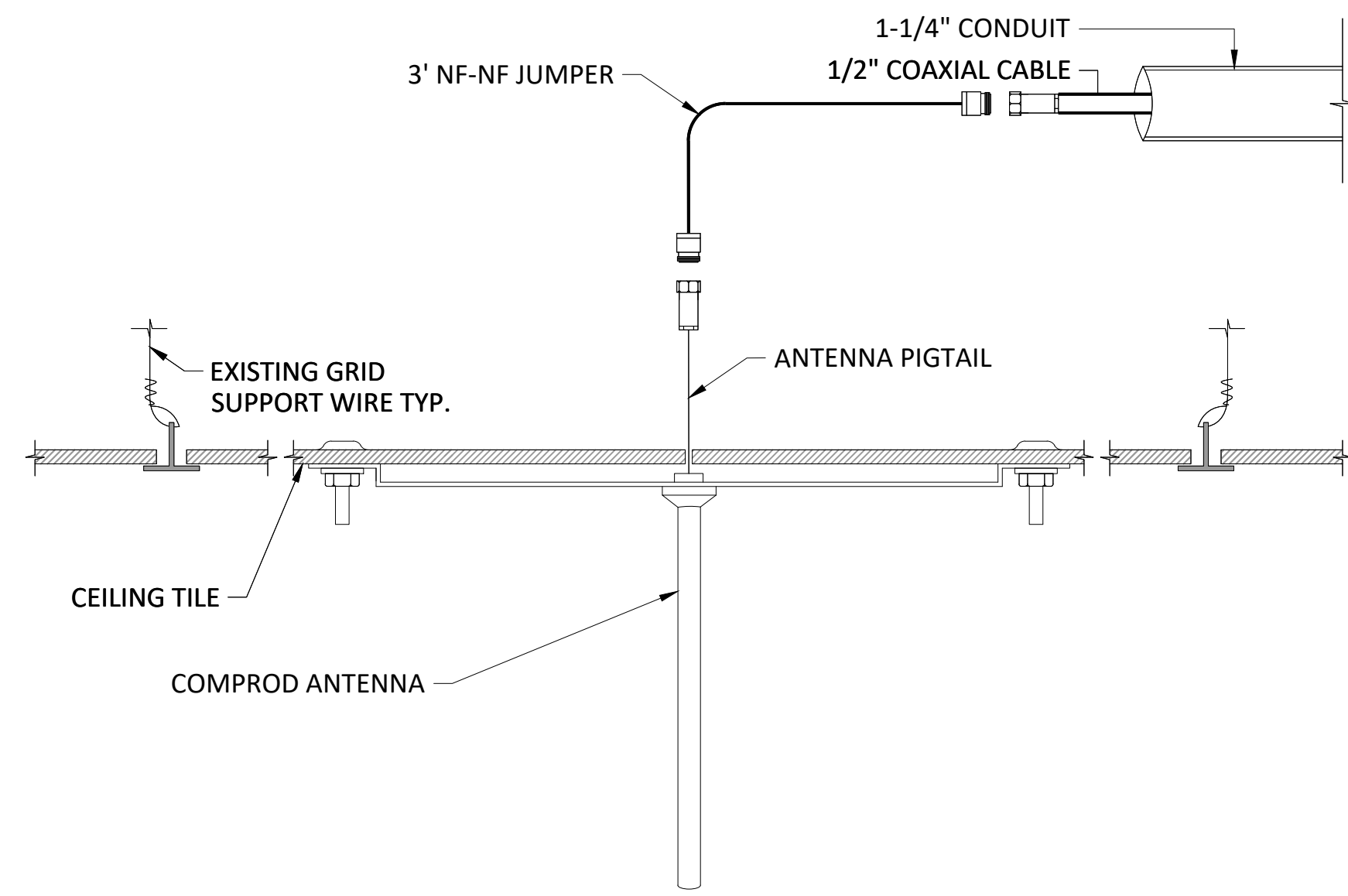
DONOR & ROOF PENETRATION DETAILS

SHEET NUMBER

ERRCS 3.1

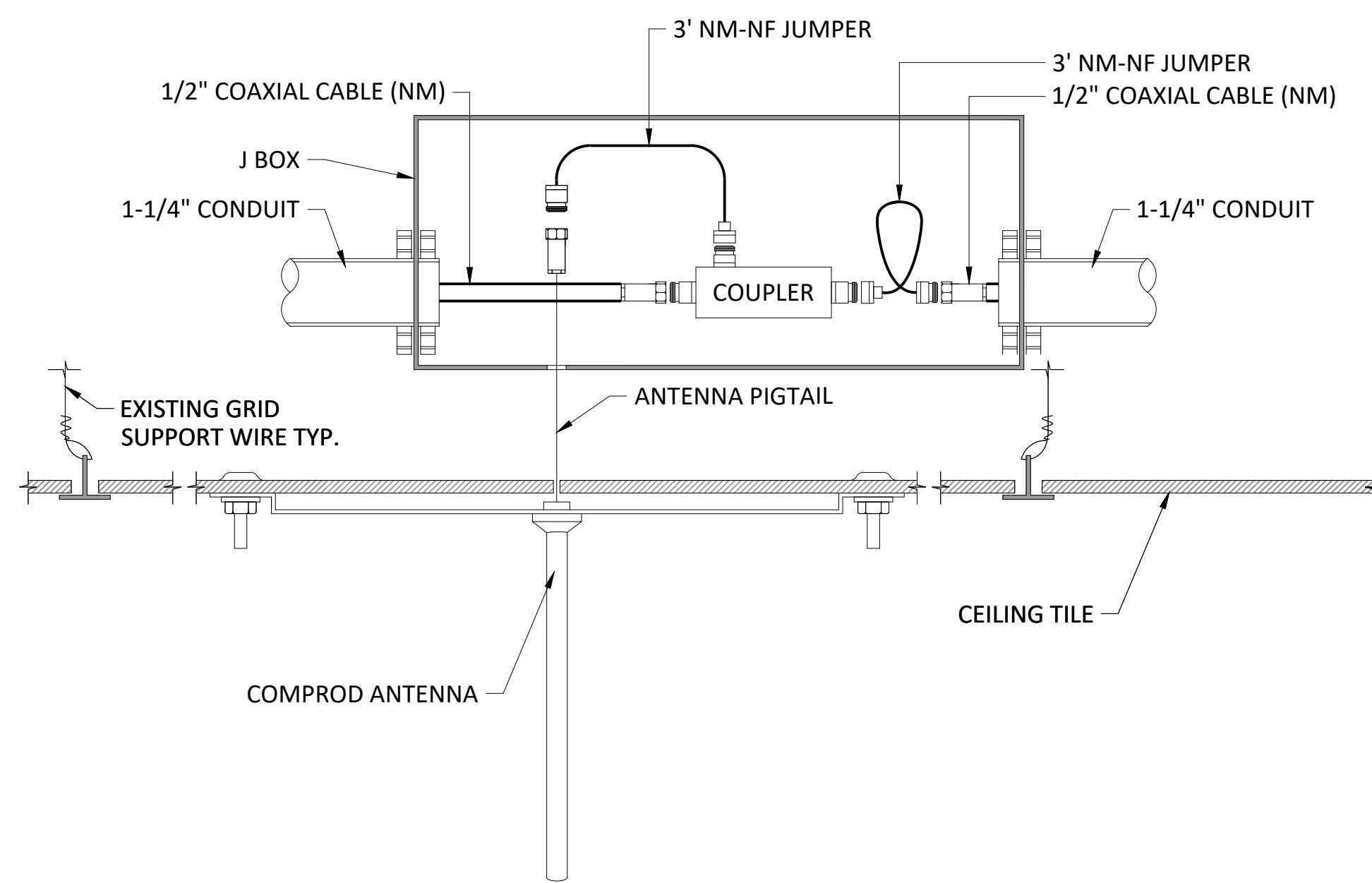
10 OF 12 SHEETS

NOTE:
 1. ANTENNAS MUST BE FACTORY TUNED WHEN ORDERED.
 2. PROVIDE DESIGN FREQUENCIES TO MANUFACTURER WHEN ORDERING.



DETAIL 1
 ANTENNA DETAIL

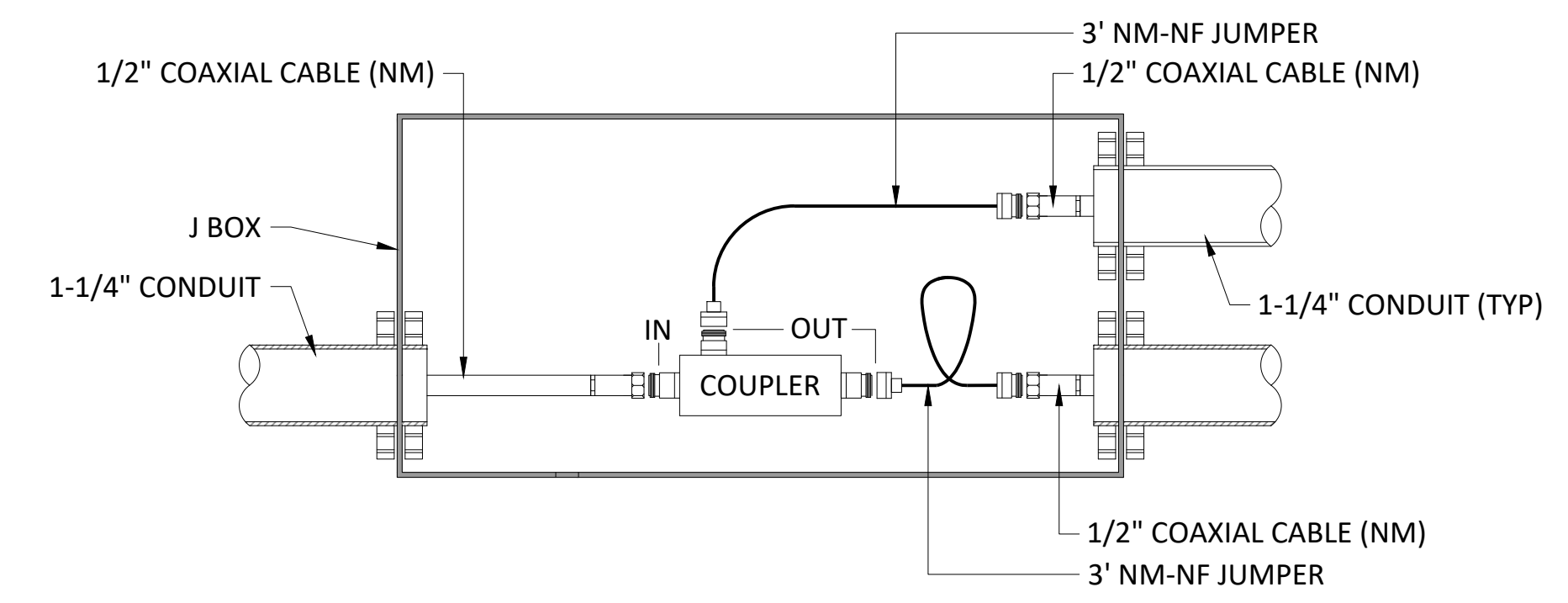
NOTE:
 1. ANTENNAS MUST BE FACTORY TUNED WHEN ORDERED.
 2. PROVIDE DESIGN FREQUENCIES TO MANUFACTURER WHEN ORDERING.
 3. JUMPER QUANTITIES AT PASSIVE DEVICES ARE SUGGESTED. CONTRACTOR MAY CHOOSE TO INSTALL MORE THAN OR LESS THAN QUANTITY STATED IN BOM ON ERRCS 0.1



DETAIL 2
 ANTENNA AND COUPLER DETAIL

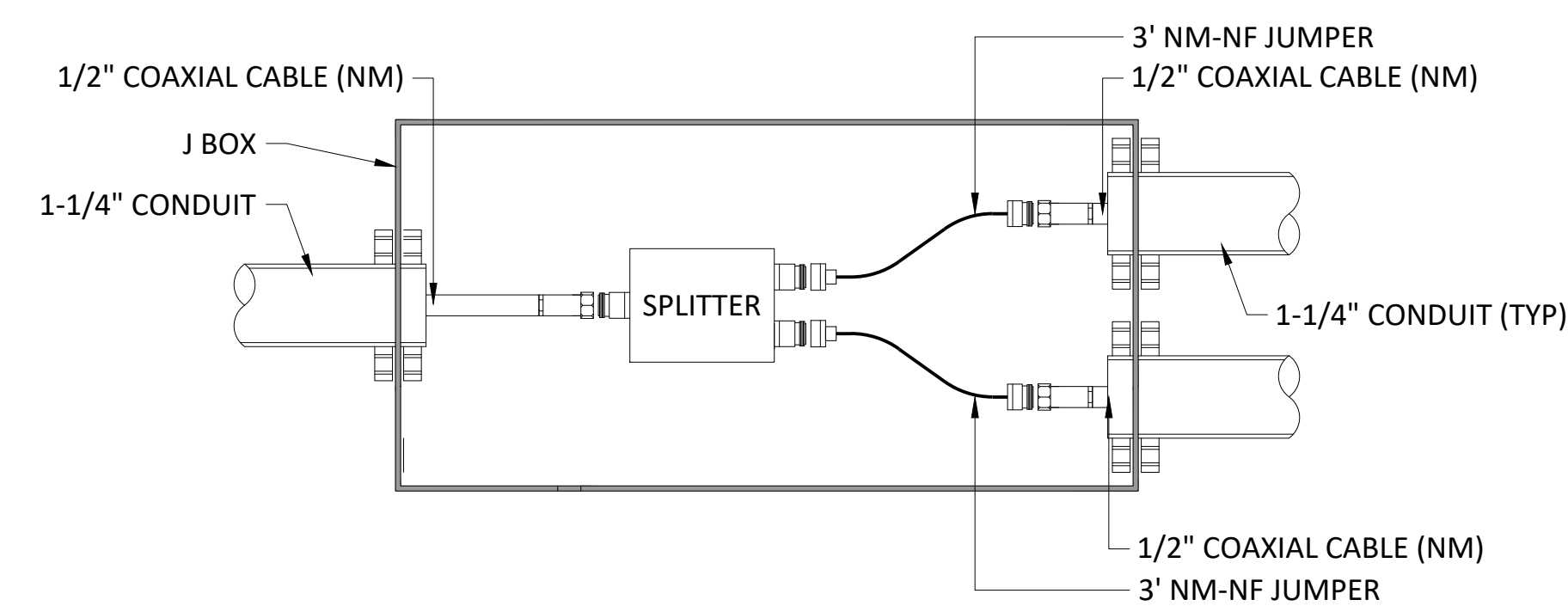
NOTE:
 1. JUMPER QUANTITIES AT PASSIVE DEVICES ARE SUGGESTED. CONTRACTOR MAY CHOOSE TO INSTALL MORE THAN OR LESS THAN QUANTITY STATED IN BOM ON ERRCS 0.1

NOTE: USE PATHWAY ARROWS ON COUPLER TO ENSURE RF DIRECTION IS CORRECT.

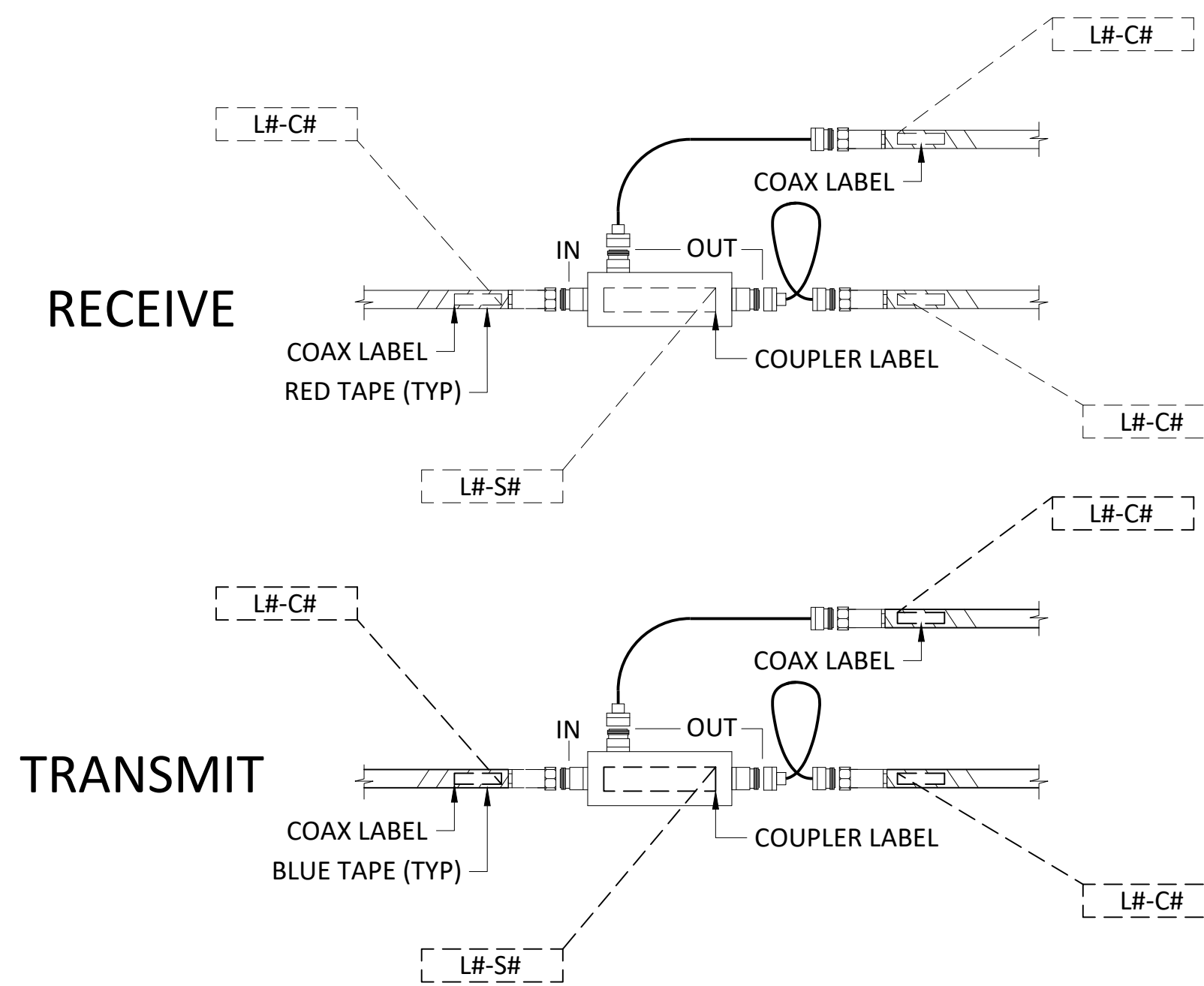


DETAIL 3
 COUPLER DETAIL

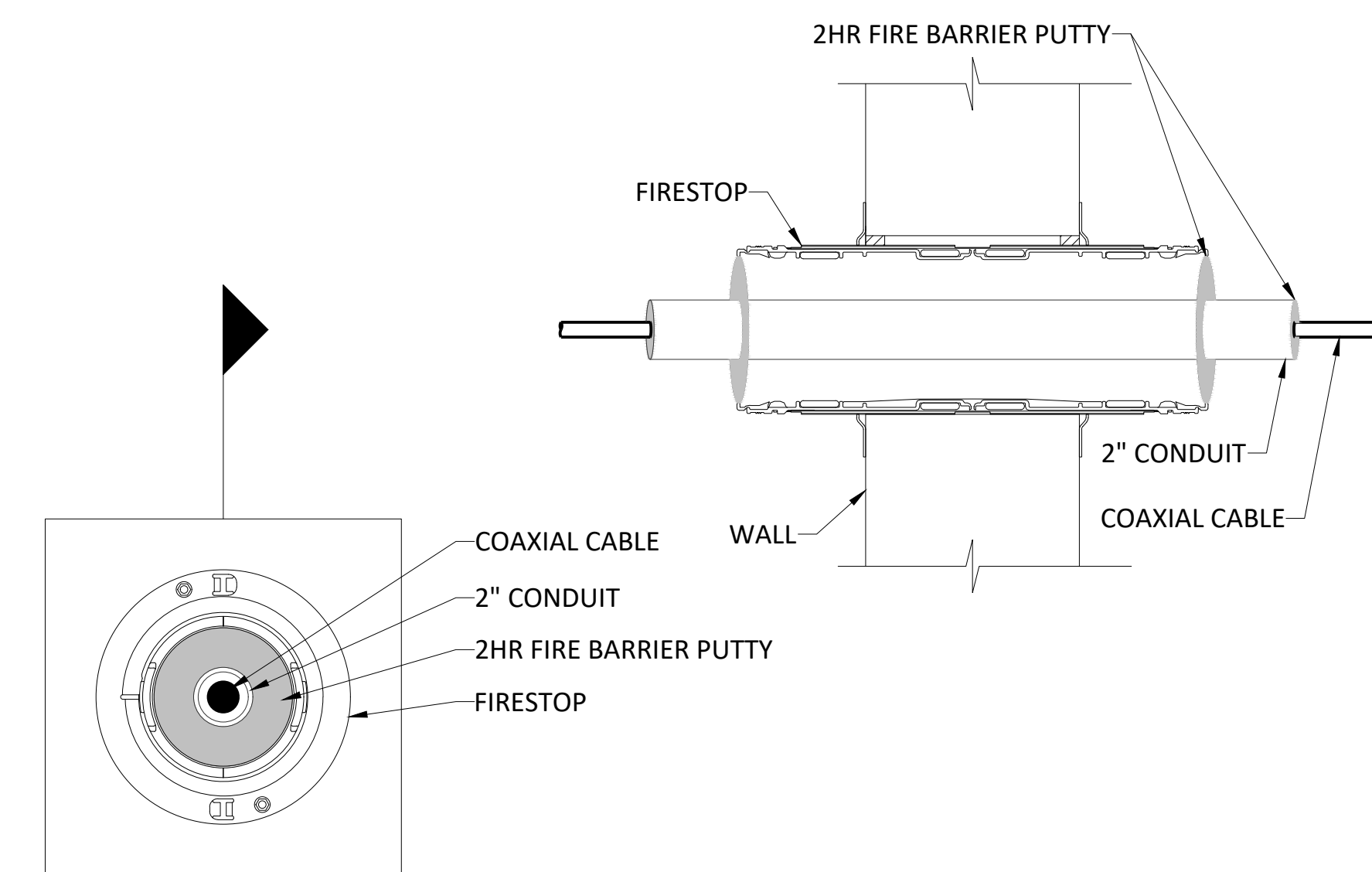
NOTE:
 1. JUMPER QUANTITIES AT PASSIVE DEVICES ARE SUGGESTED. CONTRACTOR MAY CHOOSE TO INSTALL MORE THAN OR LESS THAN QUANTITY STATED IN BOM ON ERRCS 0.1



DETAIL 4
 SPLITTER DETAIL

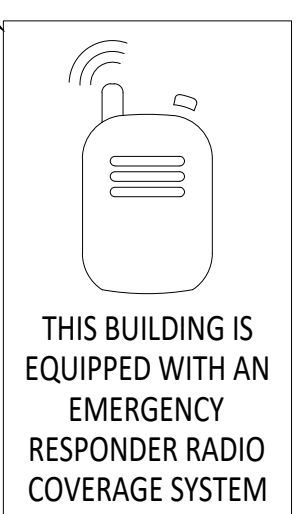


DETAIL 5
 LABELING DETAIL



DETAIL 6
 2HR FIRE RATED PENETRATION DETAIL

PLACE SIGNAGE ABOVE OR NEAR KNOX BOX (LETTERING SHALL BE 1/2\"/>

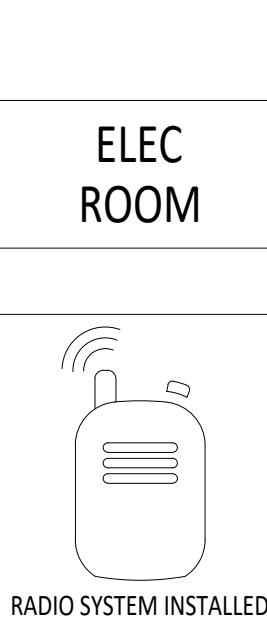


NOTE: INSTALLER MUST PROVIDE SIGNAGE INDICATING A RADIO SYSTEM (ERRCS) IS INSTALLED IN ACCORDANCE WITH THE CITY OF HOLLISTER.

KNOX BOX (PROVIDED BY GC)

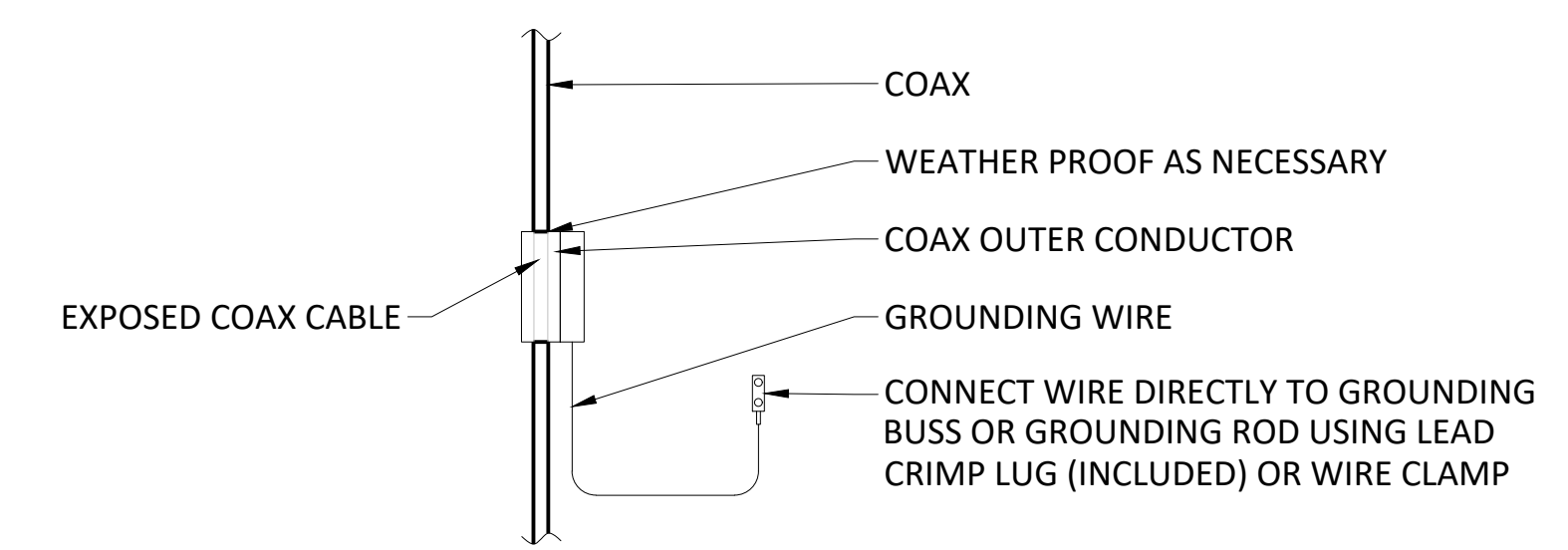
DETAIL 7
 ERRCS SIGNAGE DETAIL

EXISTING ROOM SIGNAGE
 PLACE 6\"/>



ELEC ROOM

DETAIL 8
 ERRCS ROOM SIGNAGE DETAIL



DETAIL 9
 GROUNDING DETAIL

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 AARON JOHNSON
 LICENSE # C31620
 Exp OCTOBER 31, 2022
 STATE OF CALIFORNIA
 SIGNED: MONTH DAY, 2021

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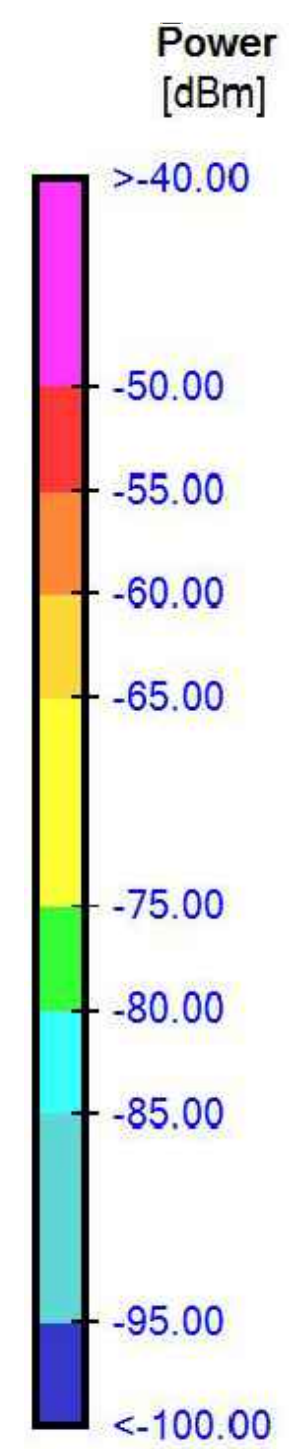
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 DRAWING SCALE: N.T.S.
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 DSA SUBMITTAL
 FEBRUARY 4, 2022
 SHEET TITLE

STANDARD DETAILS
 SHEET NUMBER
 ERRCS 3.2
 11 OF 12 SHEETS

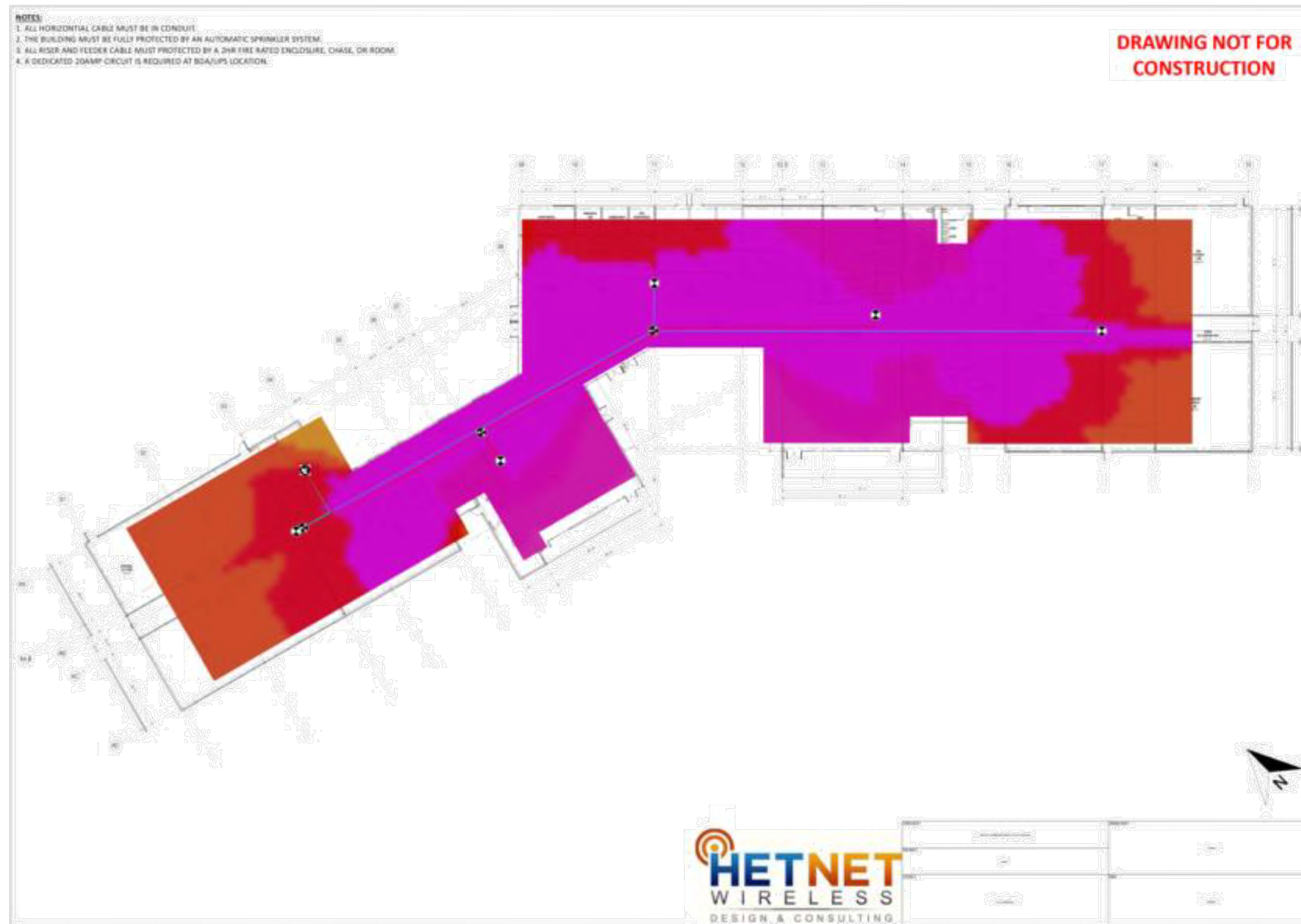
INDOOR PREDICTION LEGEND



1. SYSTEM MEETS A MIN. OF -95 dBm @ 95% ON ALL FLOORS
2. SYSTEM MEETS A MIN. OF -95 dBm @ 99% IN ALL CRITICAL SPACES
3. SYSTEM WAS DESIGNED TO MEET A MIN. DAQ OF 3.4.

Hollister Public Safety - VHF - Analog / Signal strength

Building 1: Level 1

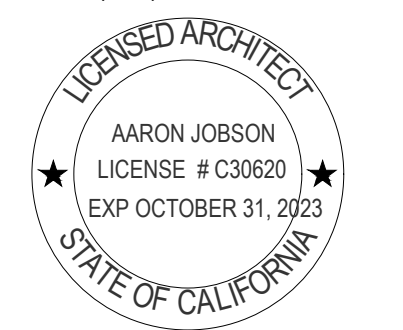


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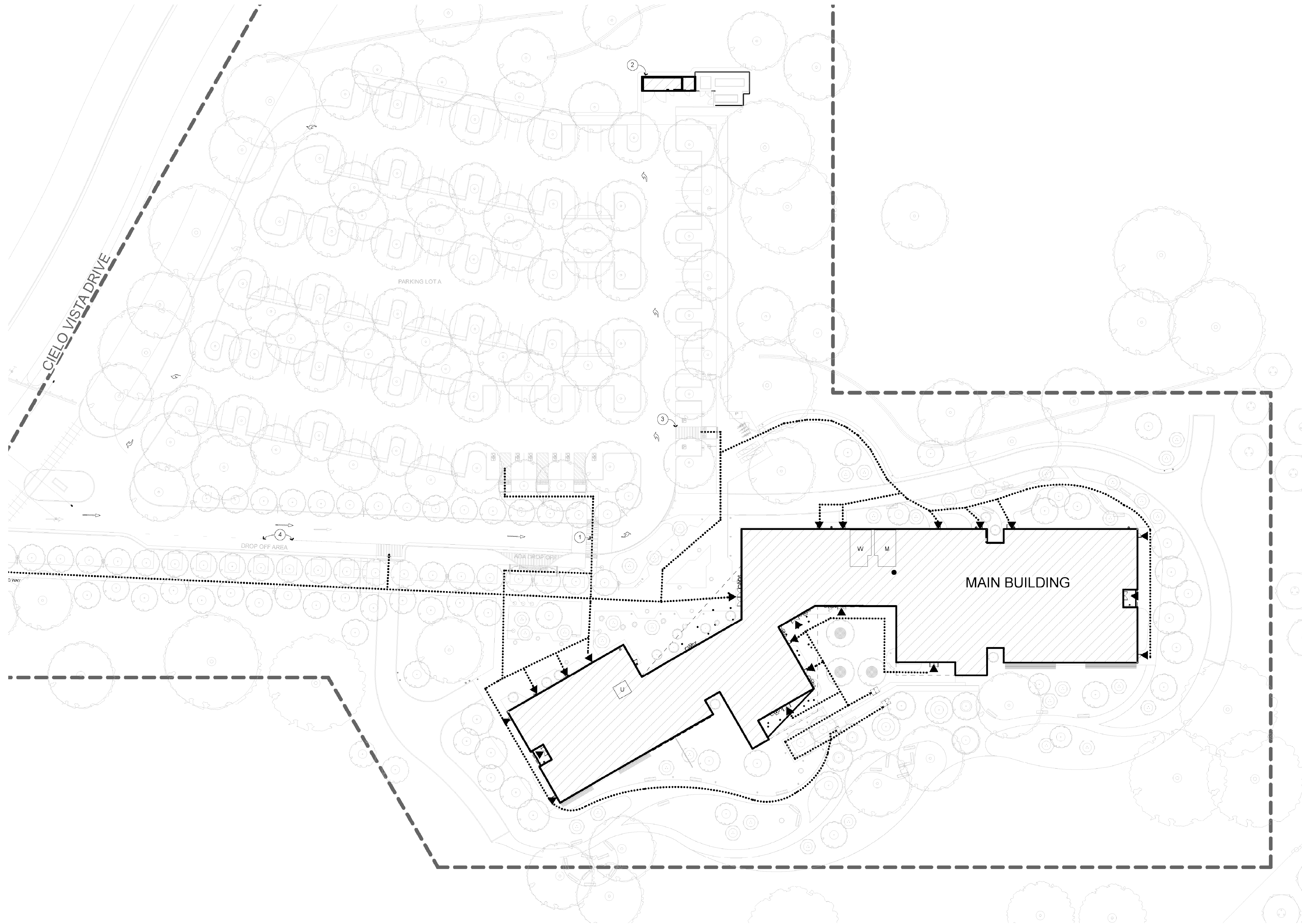
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ARCH PROJECT NO. 1897.00
DRAWN BY:
DRAWING SCALE: N.A.
PTN: 43-C4 FILE NO: NIA
DSA SUBMITTAL
FEBRUARY 4, 2022

PROPAGATION

SHEET NUMBER

ERRCS 4.0

12 OF 12 SHEETS



SITE PLAN
NOT TO SCALE



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06/07/21	DESIGN INITIATED
09/17/21	50% CD
12/09/21	80% CD
01/22/22	-

DSA APP NO. 01-119906

ARCH PROJECT NO: 1897.00

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DRAWING SCALE:

PTN: N/A FILE NO: 43-C4

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SHEET TITLE

SITE PLAN

SHEET NUMBER

FA-0.02



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12/09/21	80% CD
01/22/22	-

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ARCH PROJECT NO. 1897.00

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DRAWING SCALE:

PTN: N/A FILE NO: 43-C4

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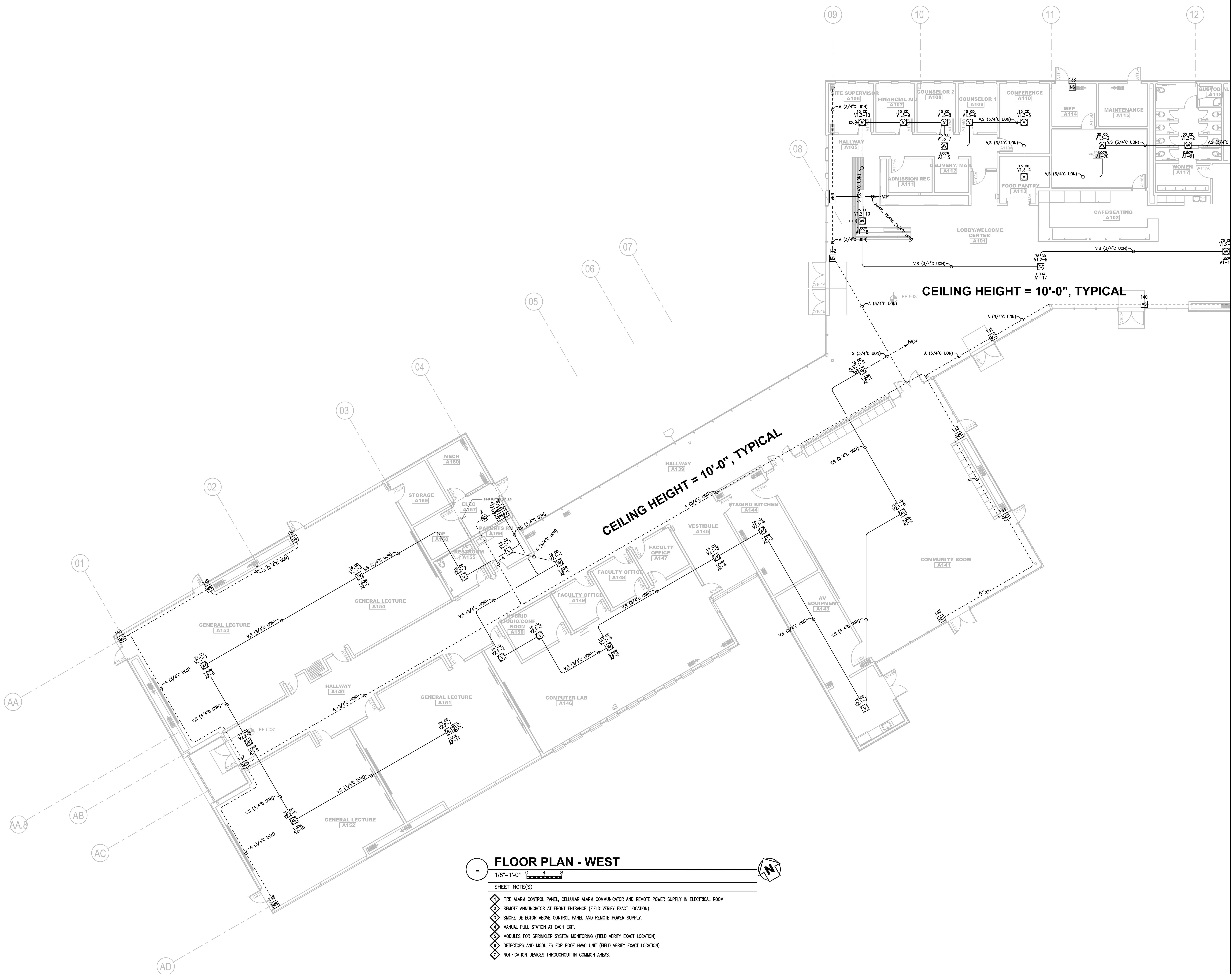
FEBRUARY 4, 2022

SHEET TITLE

**FLOOR PLAN
WEST**

SHEET NUMBER

FA-1.01



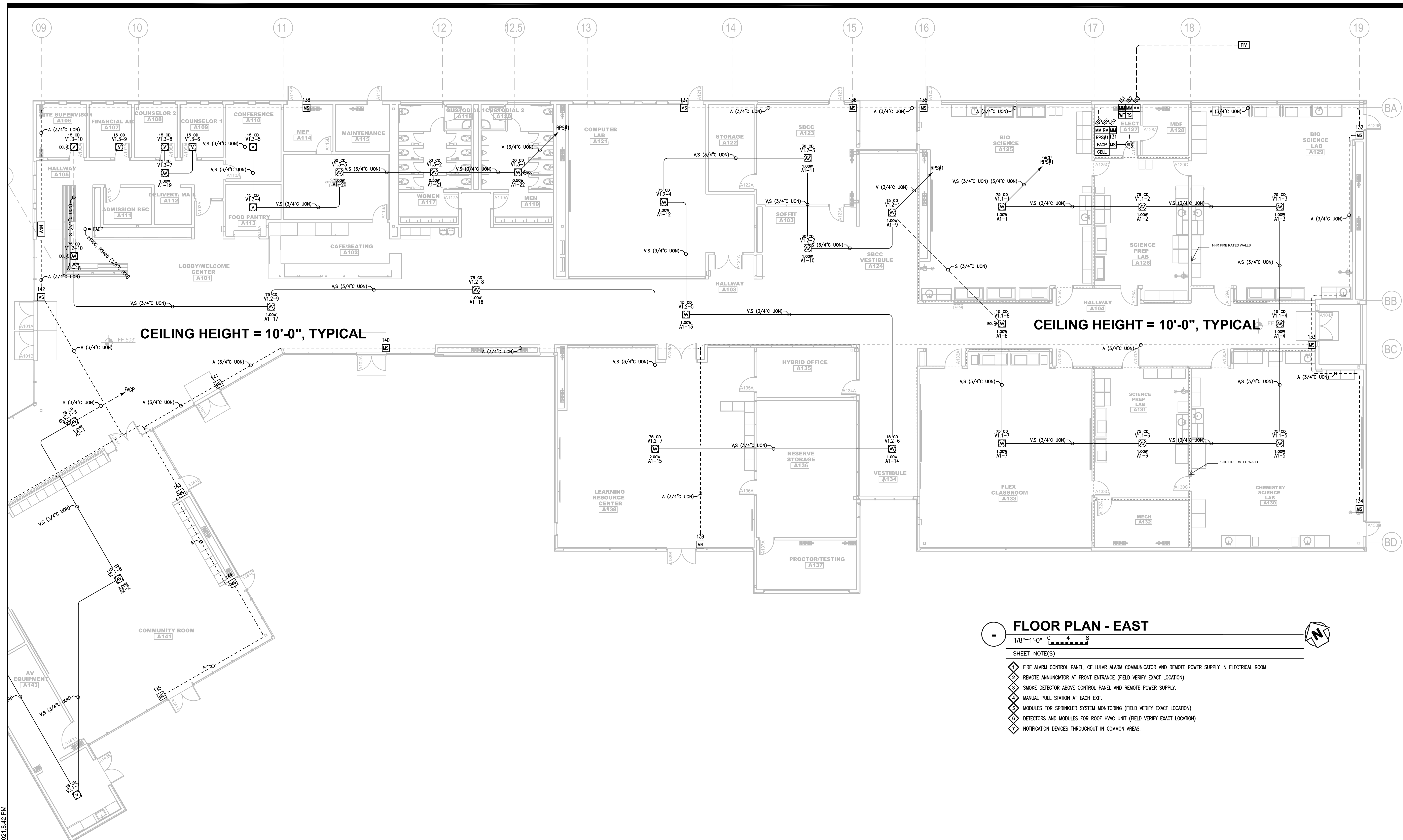
FLOOR PLAN - WEST

1/8"=1'-0" 0 4 8

SHEET NOTE(S)

- ◆ FIRE ALARM CONTROL PANEL, CELLULAR ALARM COMMUNICATOR AND REMOTE POWER SUPPLY IN ELECTRICAL ROOM
- ◆ REMOTE ANNUNCIATOR AT FRONT ENTRANCE (FIELD VERIFY EXACT LOCATION)
- ◆ SMOKE DETECTOR ABOVE CONTROL PANEL AND REMOTE POWER SUPPLY.
- ◆ MANUAL PULL STATION AT EACH EXIT.
- ◆ MODULES FOR SPRINKLER SYSTEM MONITORING (FIELD VERIFY EXACT LOCATION)
- ◆ DETECTORS AND MODULES FOR ROOF HVAC UNIT (FIELD VERIFY EXACT LOCATION)
- ◆ NOTIFICATION DEVICES THROUGHOUT IN COMMON AREAS.

B:\McLeod\architect\Basis for ARCHICAD\2211897.00 GAVILAN COLLEGE\819192021842.PLM



CEILING HEIGHT = 10'-0", TYPICAL

CEILING HEIGHT = 10'-0", TYPICAL

FLOOR PLAN - EAST

1/8"=1'-0" 0 4 8

SHEET NOTE(S)

- ◆ FIRE ALARM CONTROL PANEL, CELLULAR ALARM COMMUNICATOR AND REMOTE POWER SUPPLY IN ELECTRICAL ROOM
- ◆ REMOTE ANNUNCIATOR AT FRONT ENTRANCE (FIELD VERIFY EXACT LOCATION)
- ◆ SMOKE DETECTOR ABOVE CONTROL PANEL AND REMOTE POWER SUPPLY.
- ◆ MANUAL PULL STATION AT EACH EXIT.
- ◆ MODULES FOR SPRINKLER SYSTEM MONITORING (FIELD VERIFY EXACT LOCATION)
- ◆ DETECTORS AND MODULES FOR ROOF HVAC UNIT (FIELD VERIFY EXACT LOCATION)
- ◆ NOTIFICATION DEVICES THROUGHOUT IN COMMON AREAS.



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12/09/21	80% CD
01/22/22	-

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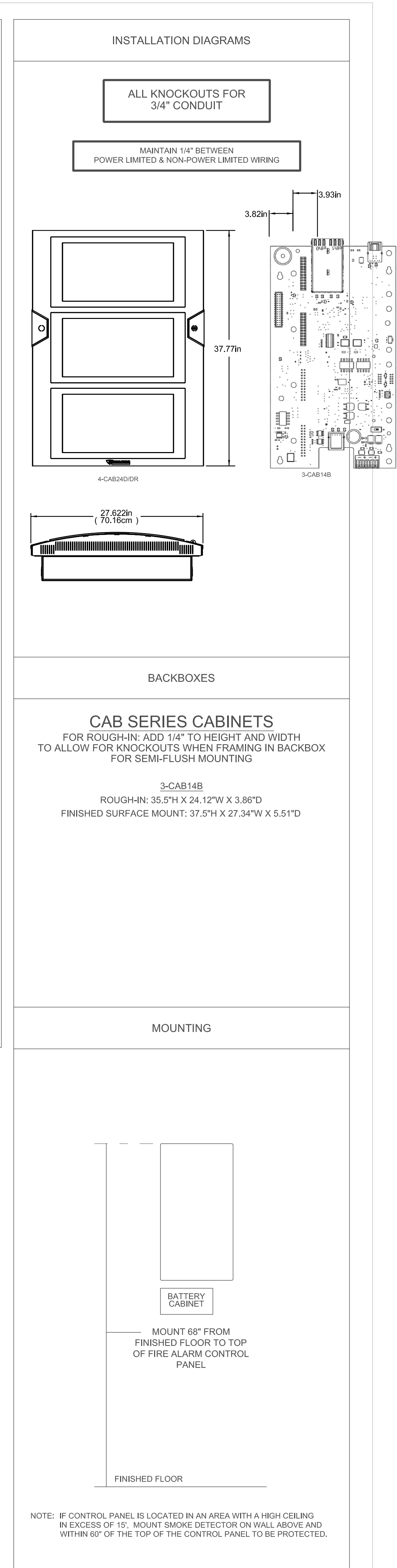
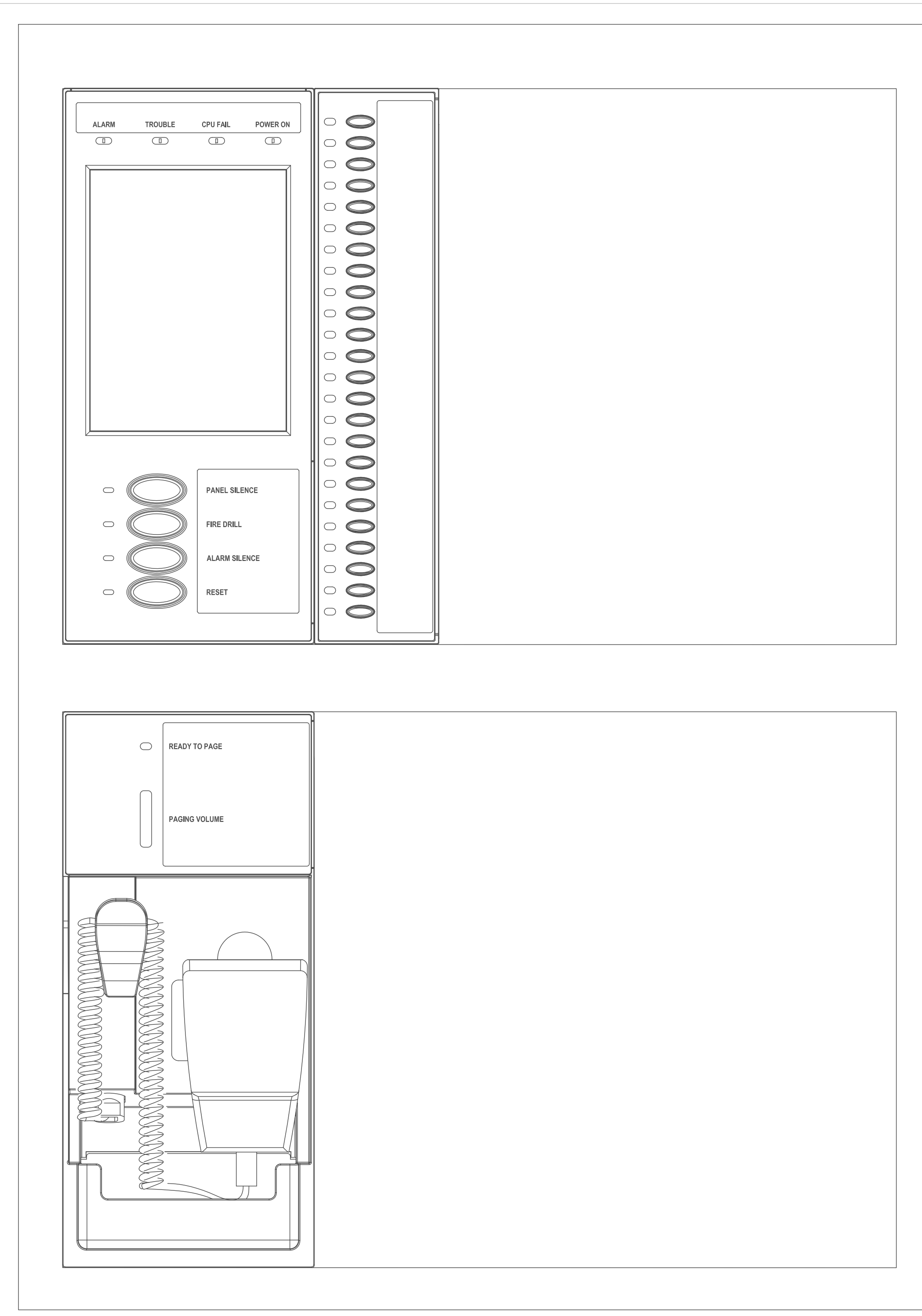
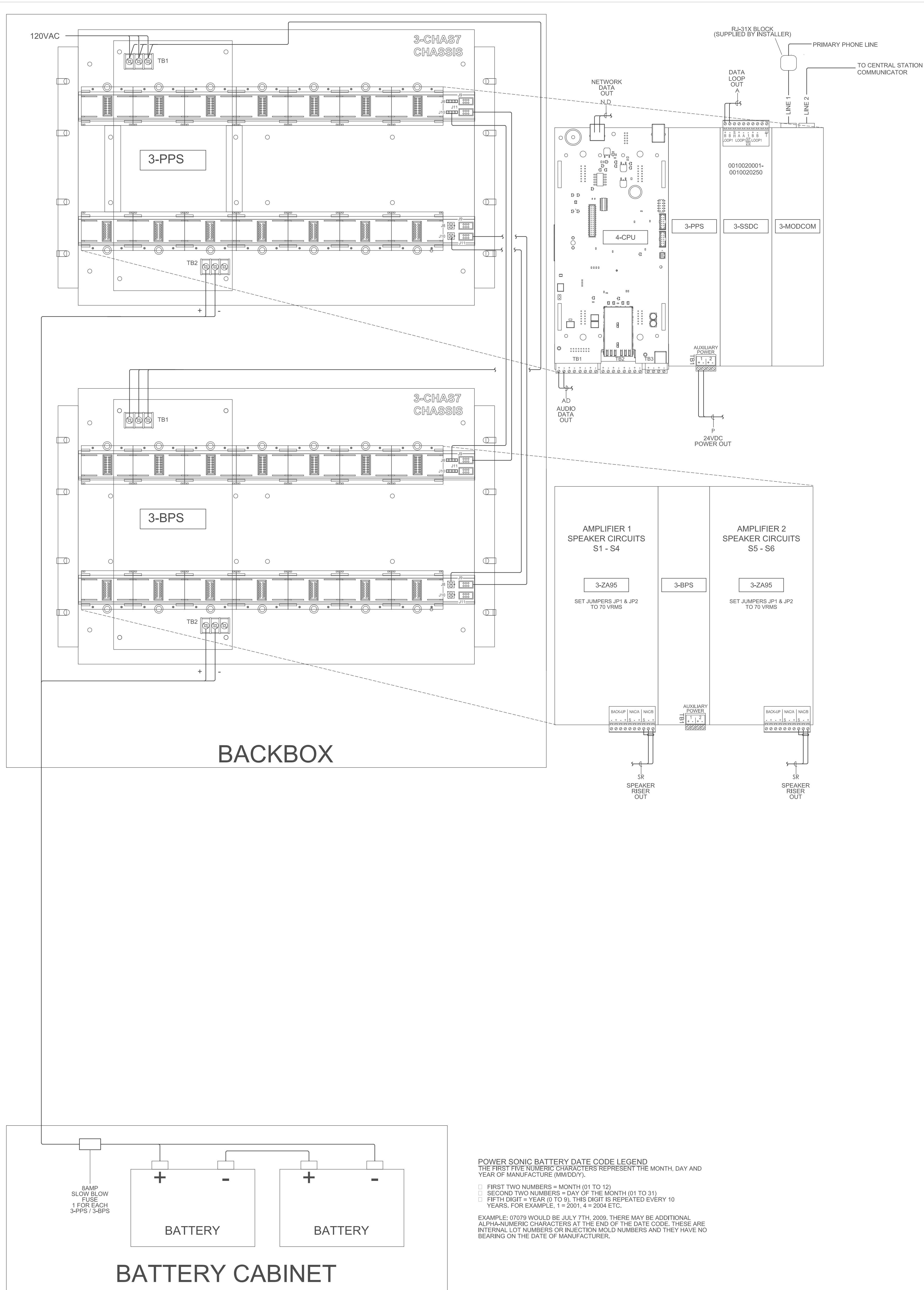
SHEET TITLE

FLOOR PLAN EAST

SHEET NUMBER

FA-1.02

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SHEET TITLE

DETAILS

SHEET NUMBER

FA-3.01

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A

EST-4 FIRE ALARM CONTROL PANEL
TYPICAL WIRING DETAIL

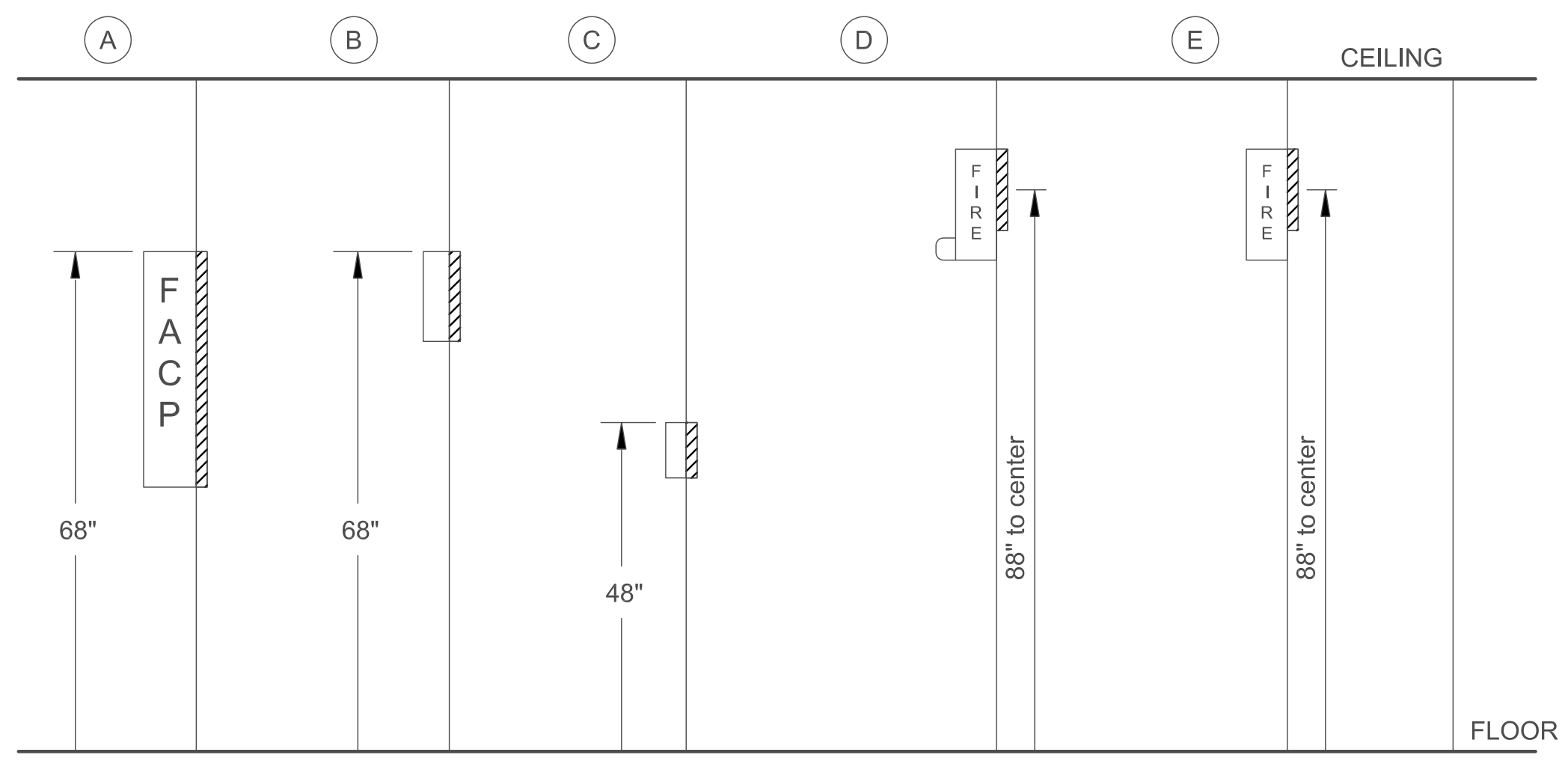
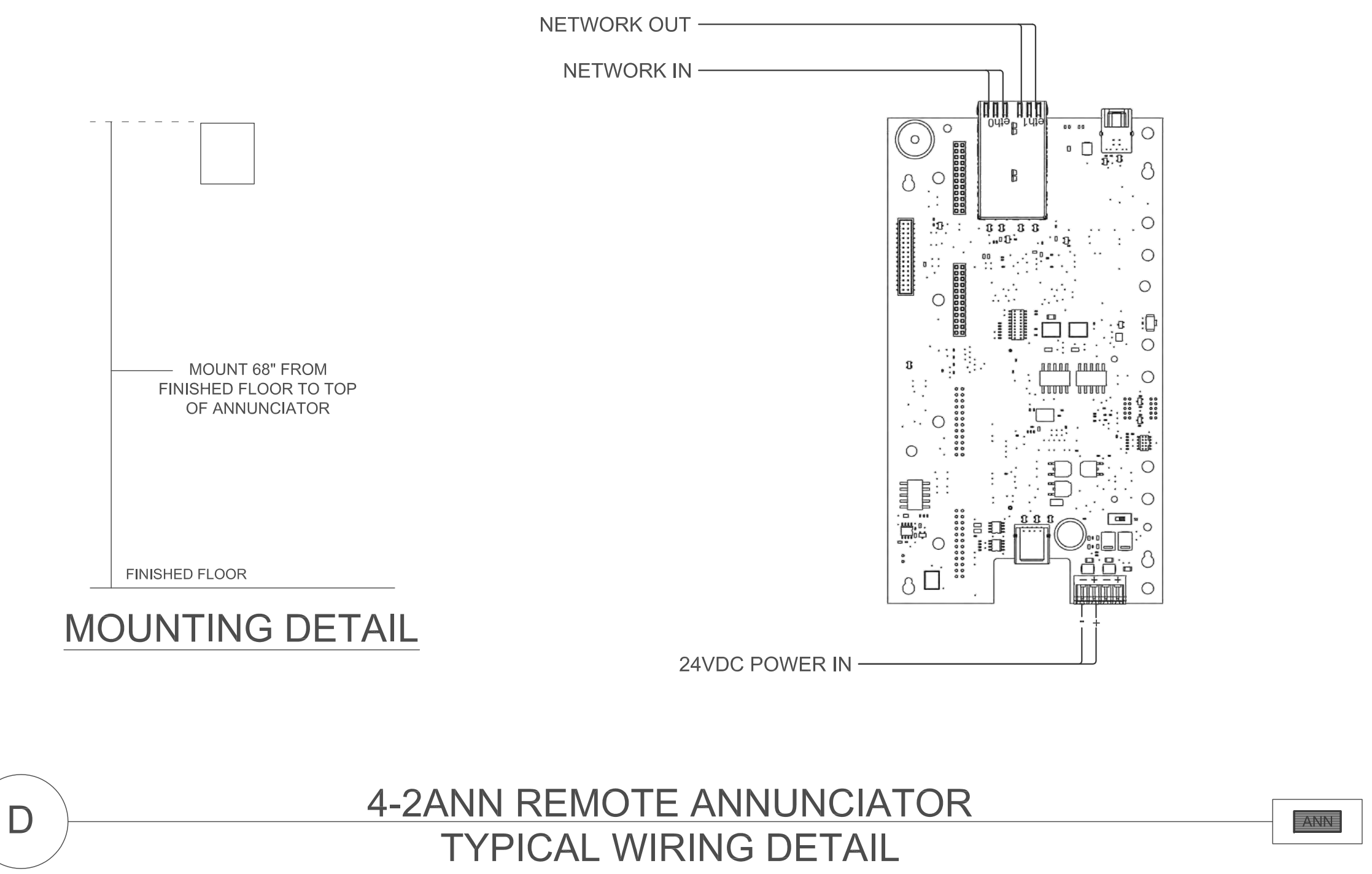
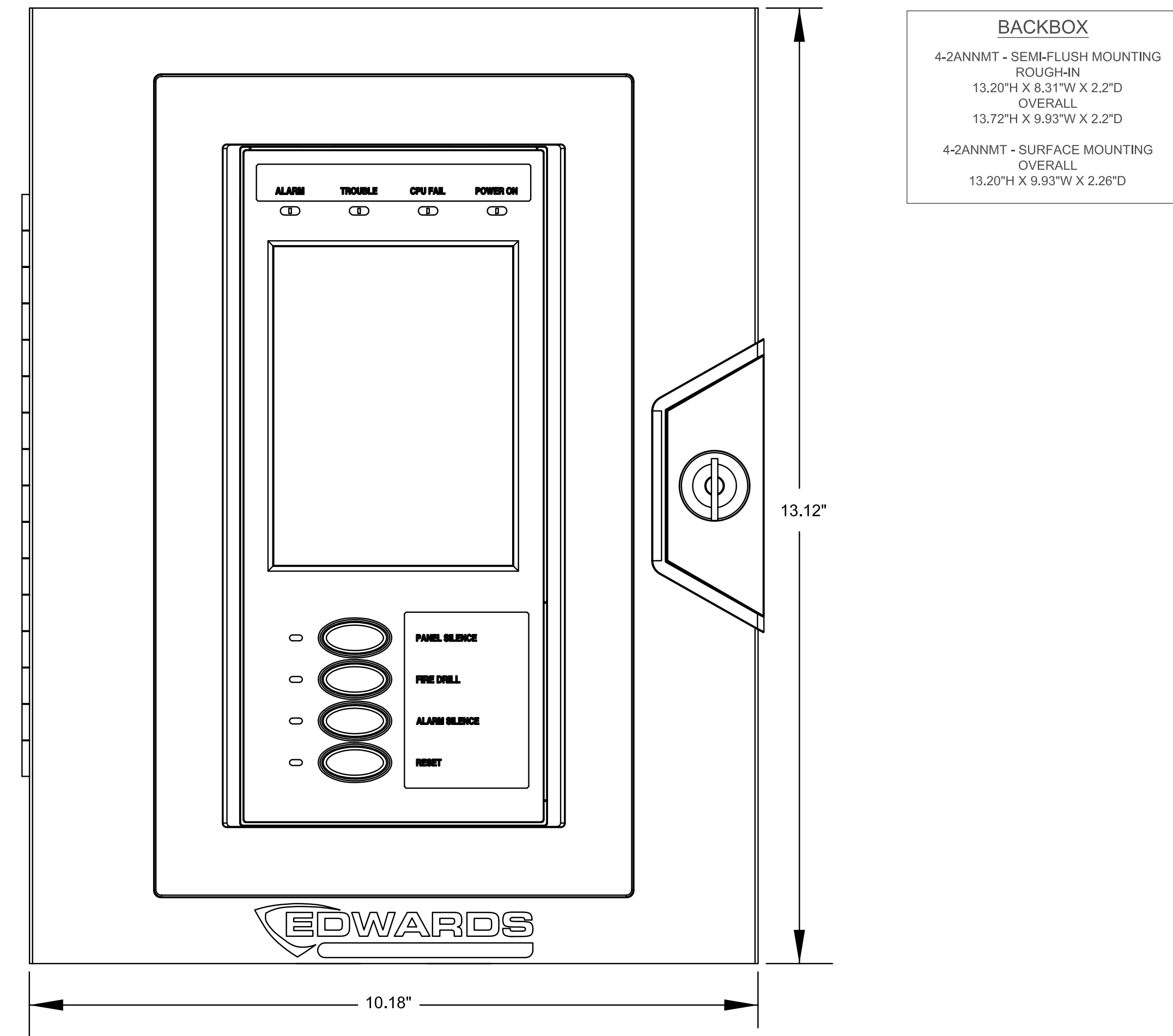
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A NOT USED

B NOT USED

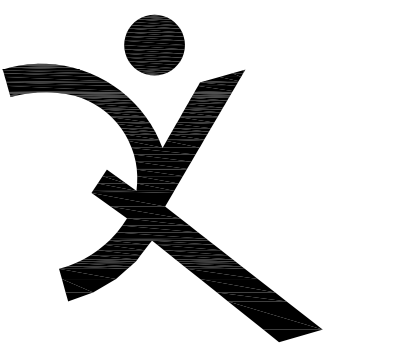
E NOT USED

F



- A. FIRE ALARM CONTROL PANEL.** Fire Alarm Panels must not be higher than 6 feet and system status display should be at eye level (60 inches AFF). If control panel is located in an area with a high ceiling in excess of 15', mount smoke detector on wall above and within 60" of the top of the control panel to be protected.
- B. FIRE ALARM ANNUNCIATORS.** Mount top of annunciator 68 inches AFF.
- C. FIRE ALARM PULL STATIONS.**
 The operable part of each manual fire alarm box shall be not less than 42 in. and not more than 48 in. above floor level.
- D. FIRE ALARM SPEAKER/STROBE OR STROBE NOTIFICATION APPLIANCES.**
 Wall-mounted appliances shall be mounted such that the entire lens is not less than 80 in. and not greater than 96 in. above the finished floor. Mount Speaker/Strobe back box at 88" from finished floor to center line of box.
- E. FIRE ALARM SPEAKER/AUDIBLE ONLY NOTIFICATION APPLIANCES.** If ceiling heights allow, wall-mounted appliances shall have their tops above the finished floors at heights of not less than 90 in. and below the finished ceilings at heights of not less than 6 in. This requirement shall not preclude ceiling-mounted or recessed appliances. Mount Speaker back box at 88" from finished floor to center line of box.

TYPICAL MOUNTING HEIGHTS



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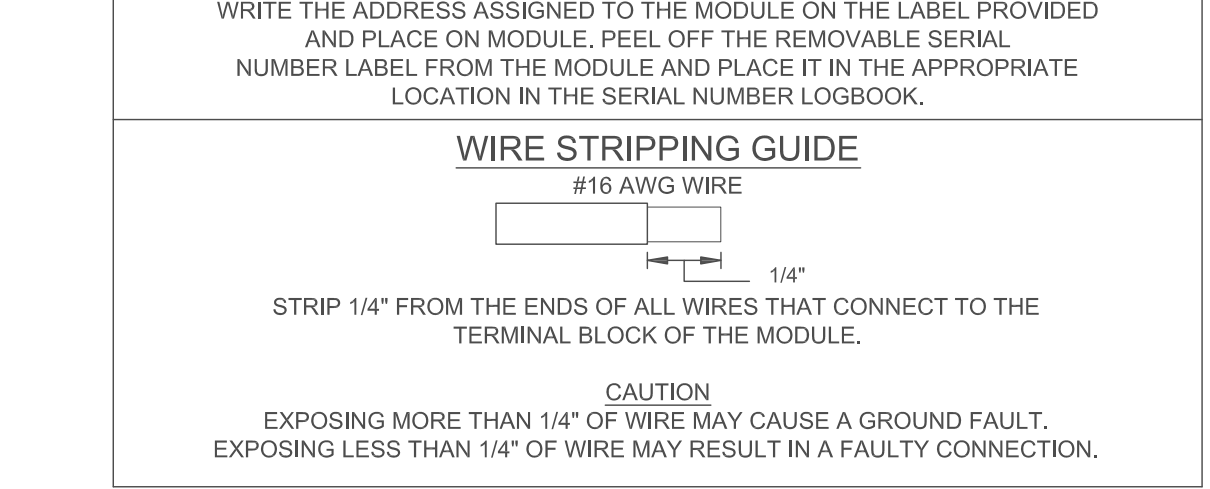
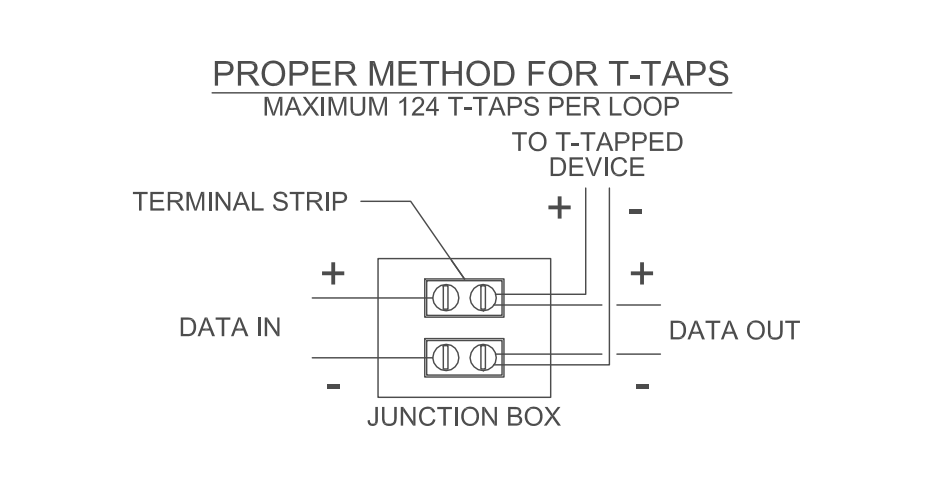
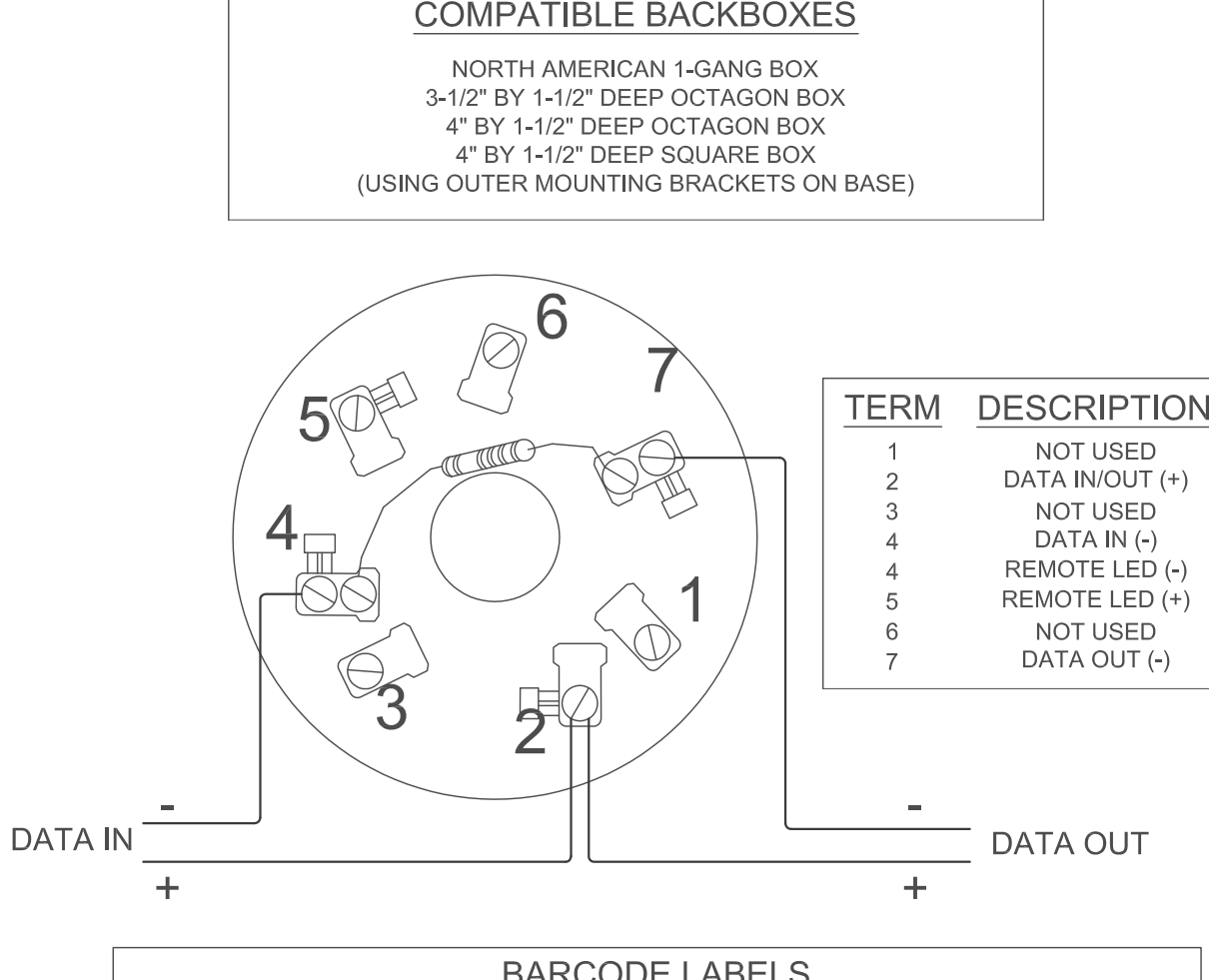
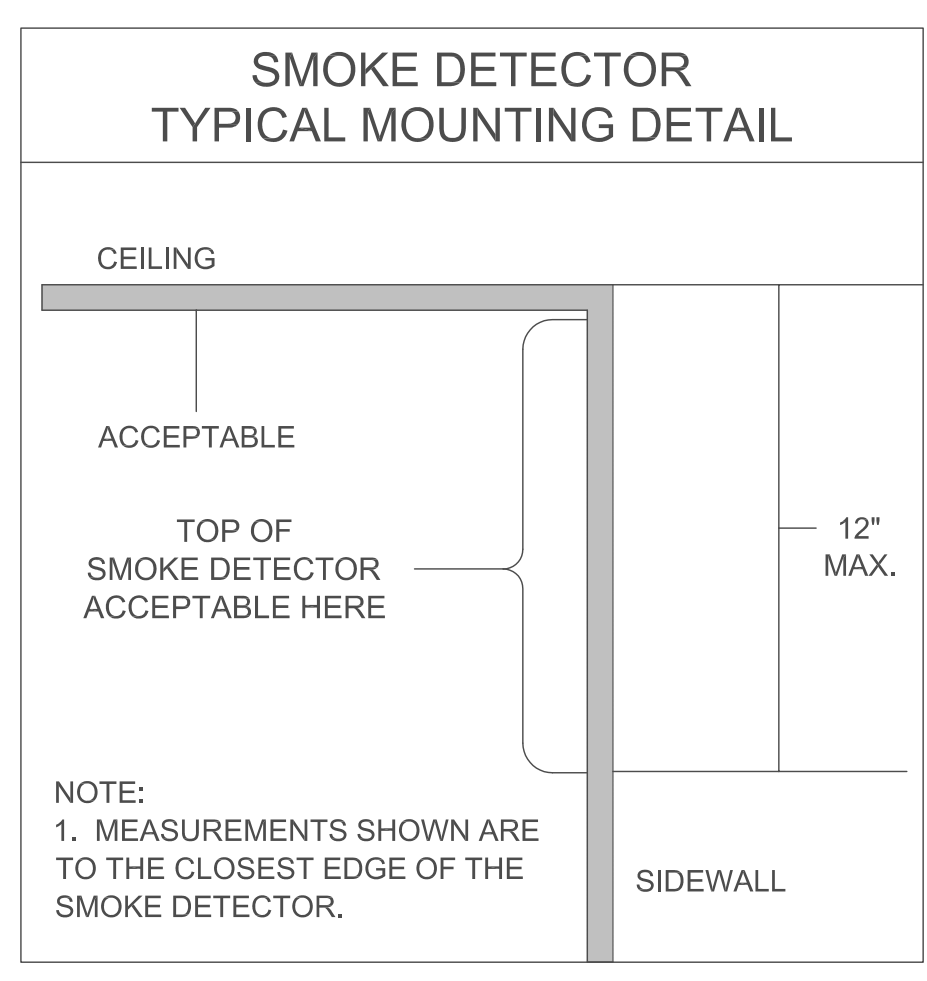
FEBRUARY 4, 2022

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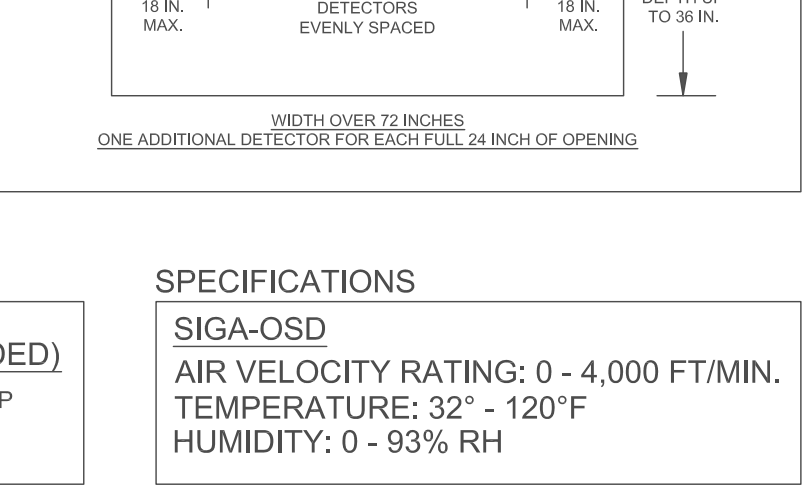
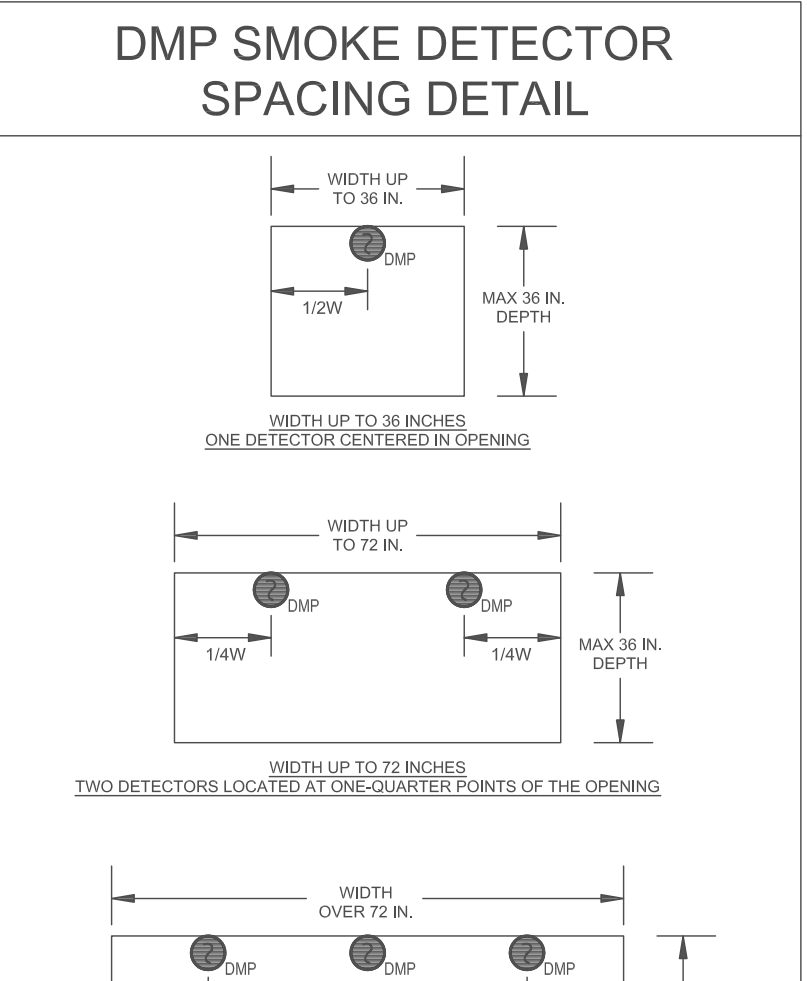
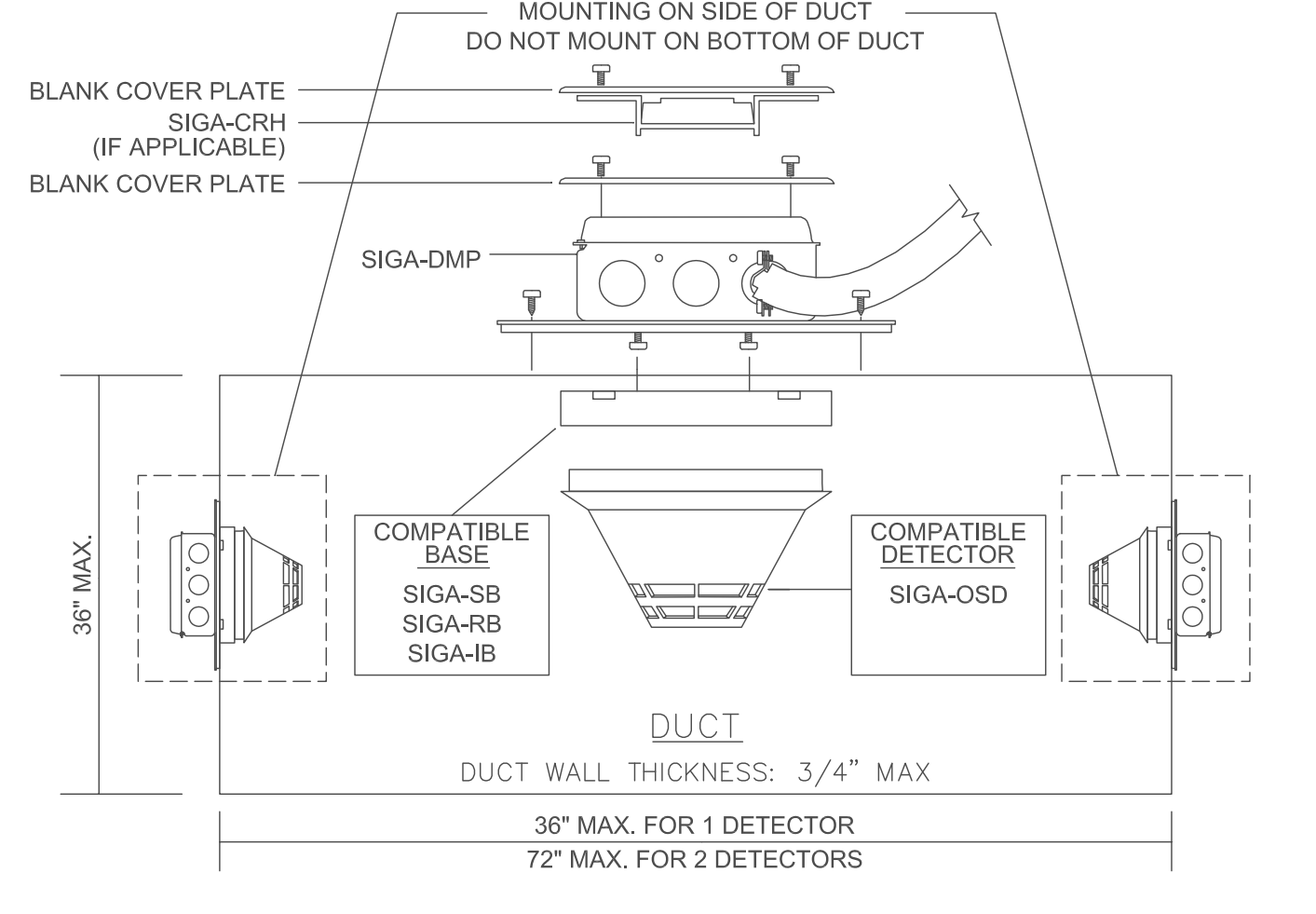
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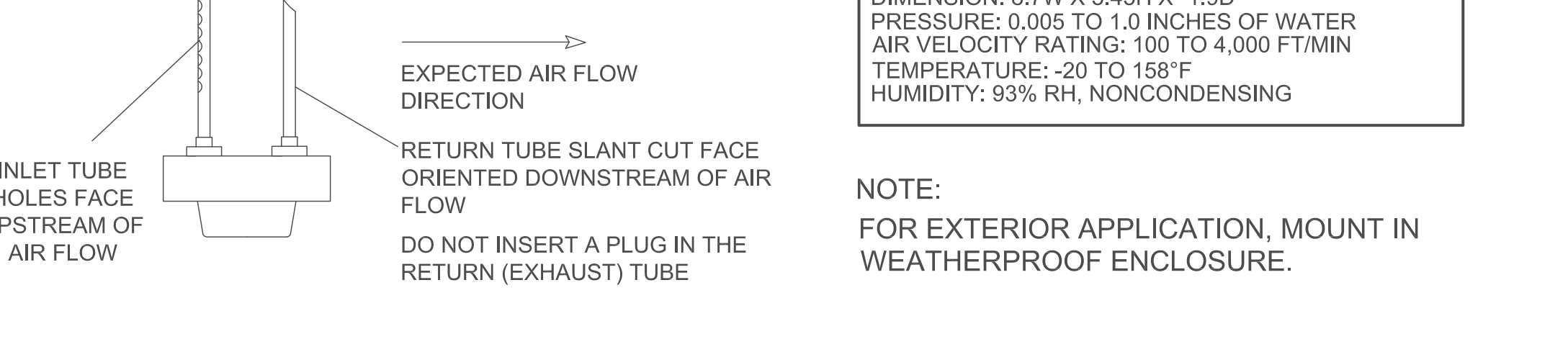
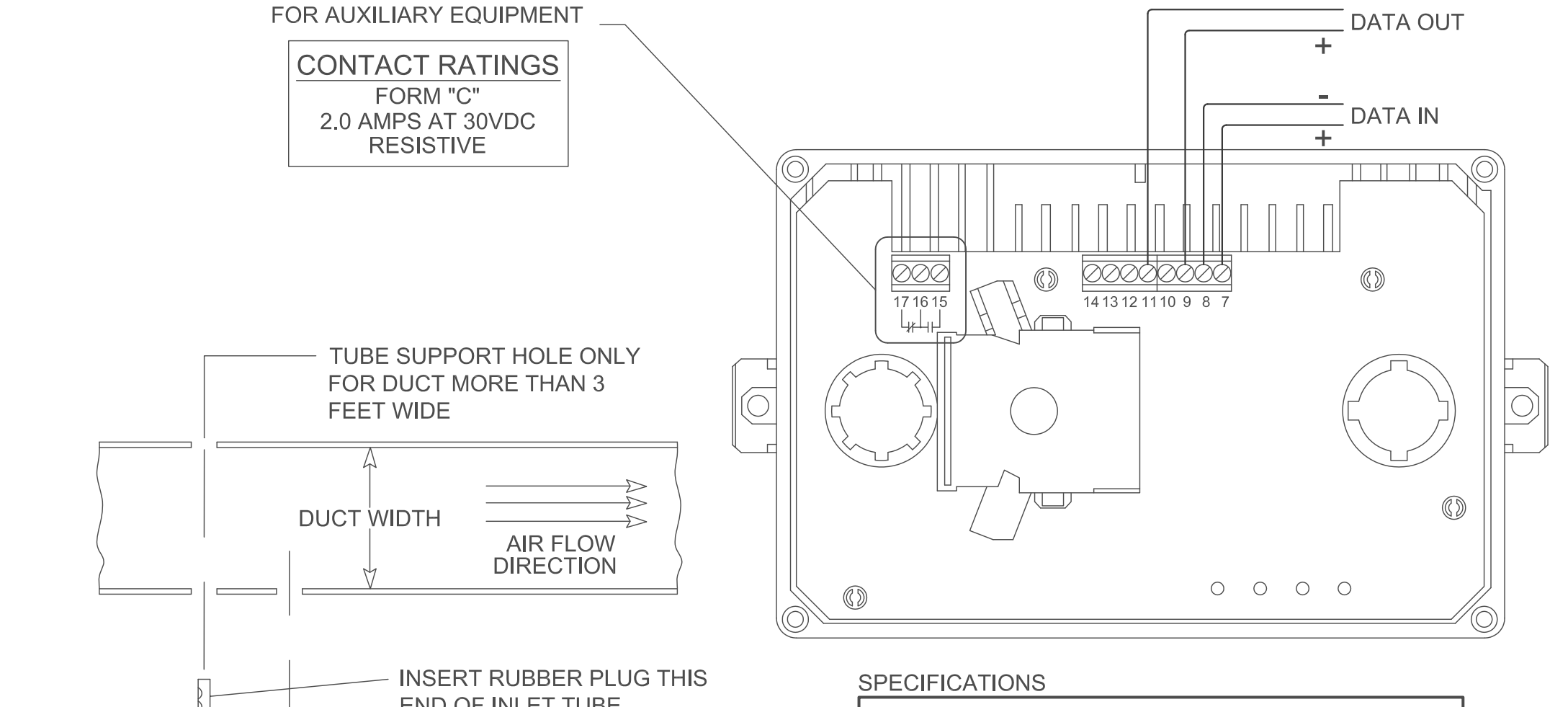
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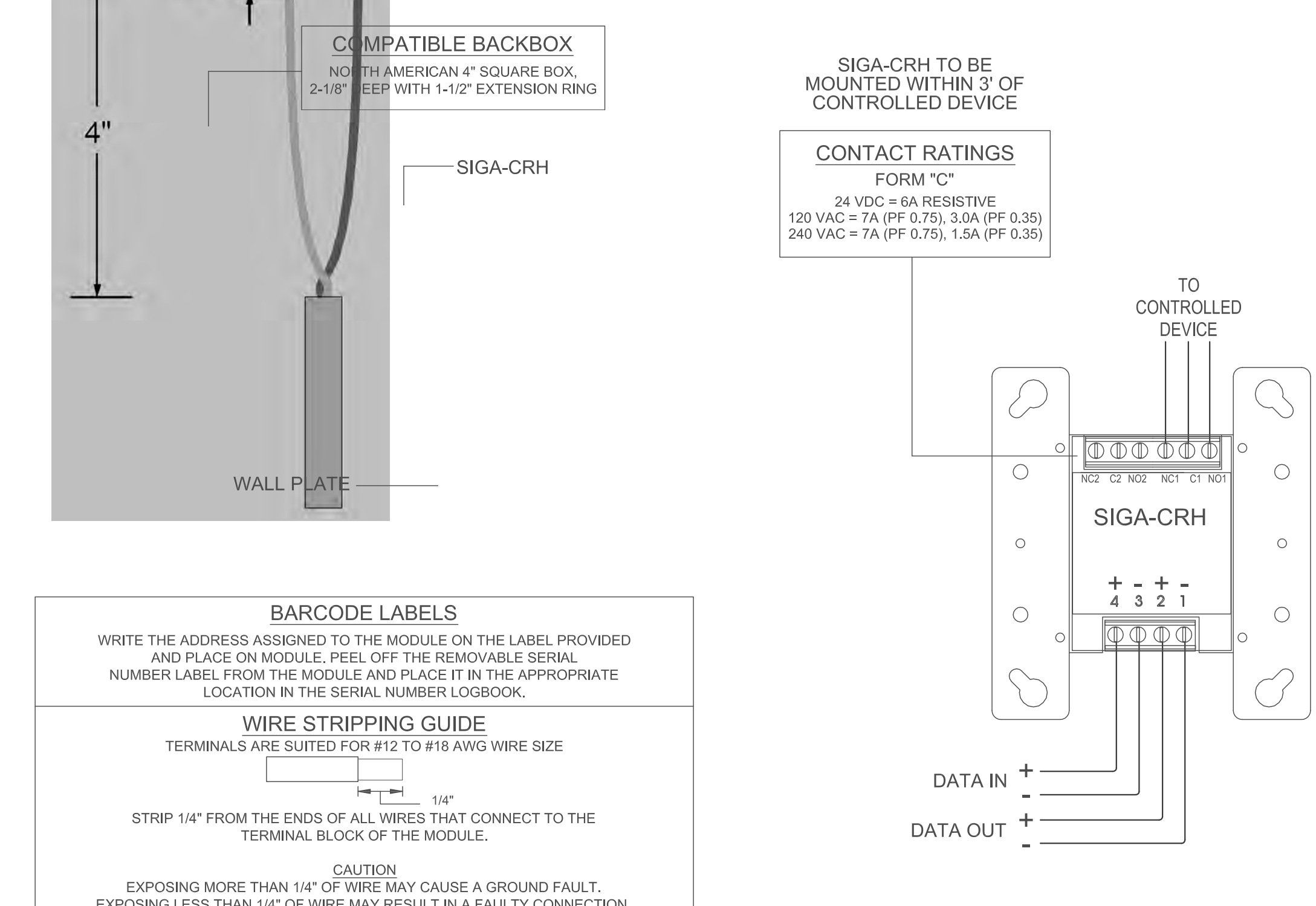
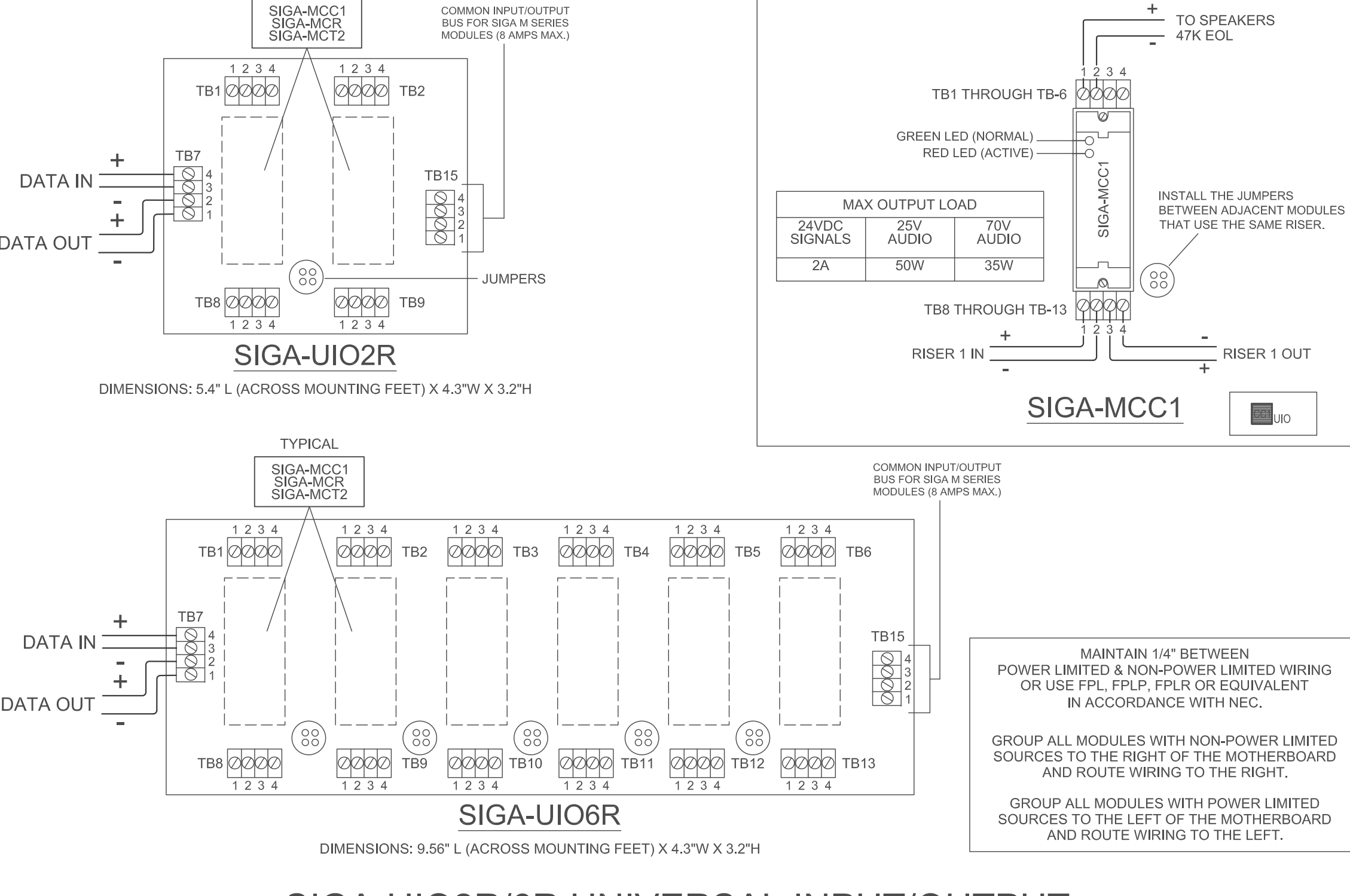
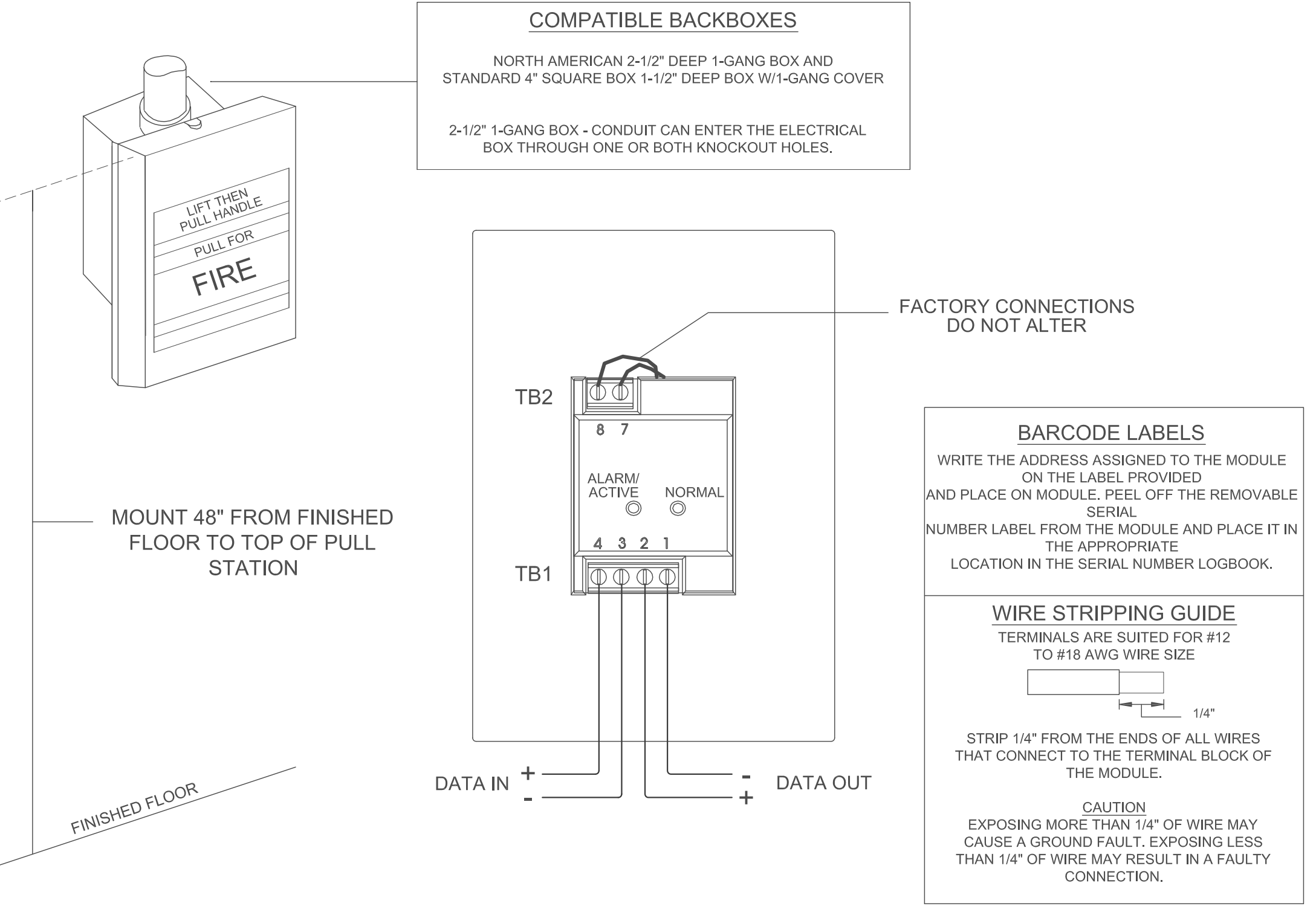
A SIGA-OSD SMOKE DETECTOR WITH SIGA-SB4 BASE TYPICAL WIRING DETAIL



B SIGA-DMP WITH SIGA-OSD & SIGA-SB BASE TYPICAL WIRING DETAIL



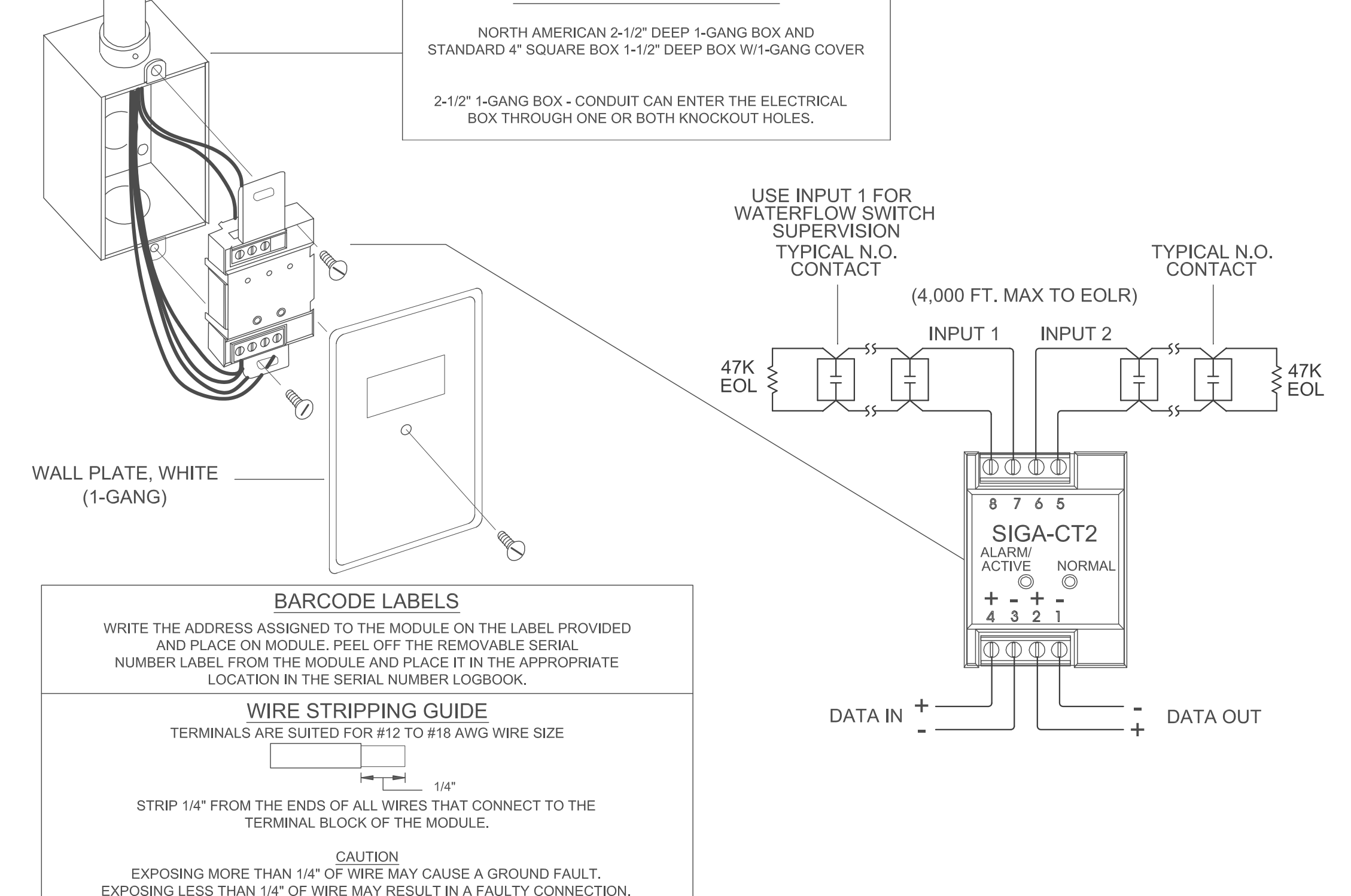
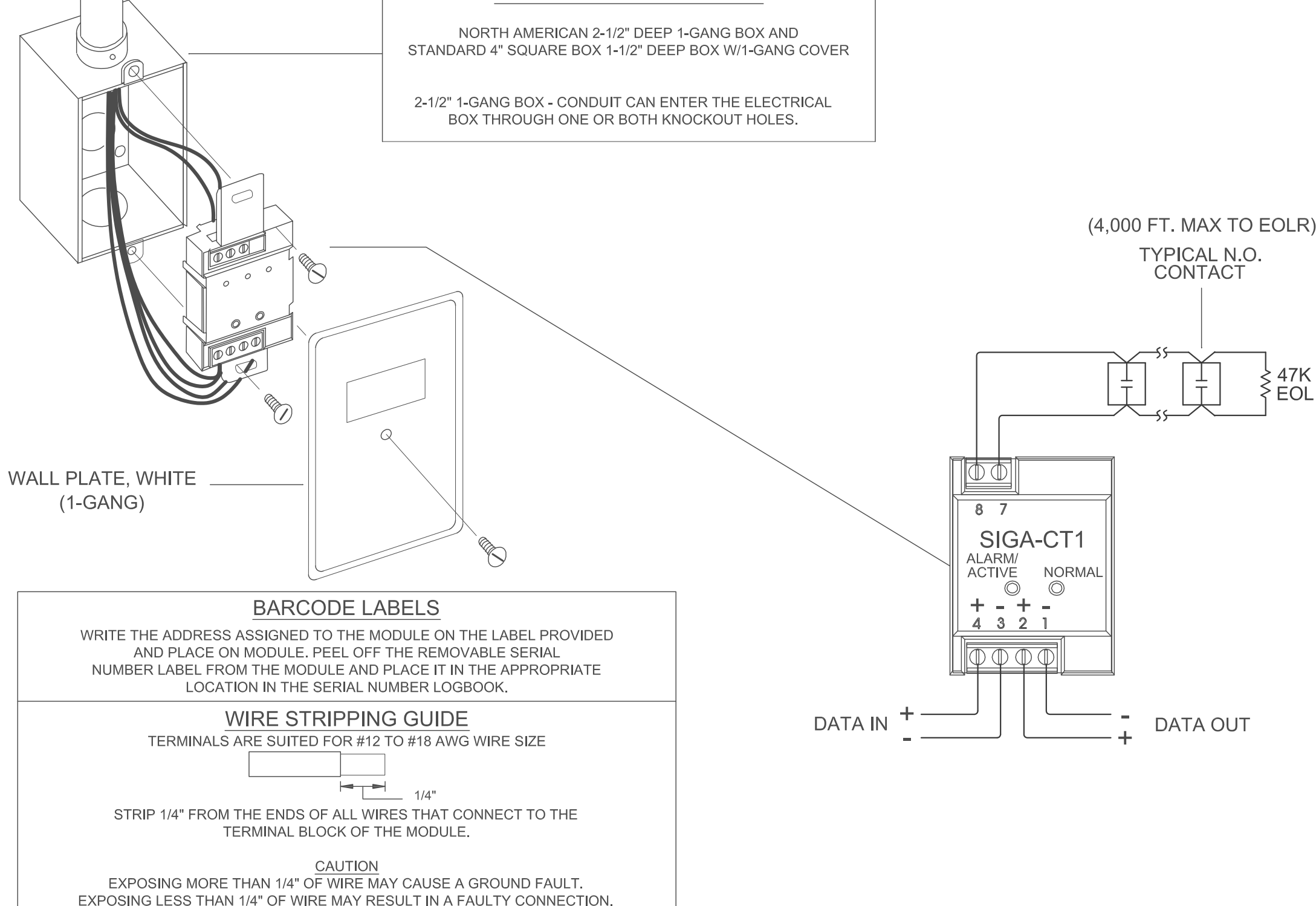
C SIGA-SD DUCT SMOKE DETECTOR TYPICAL WIRING DETAIL



D SIGA-278 MANUAL PULL STATION TYPICAL WIRING DETAIL

E SIGA-UIO2R/6R UNIVERSAL INPUT/OUTPUT MODULE MOTHERBOARD AND SIGA-MCC1 TYPICAL WIRING DETAIL

F SIGA-CRH HIGH POWER CONTROL RELAY MODULE TYPICAL WIRING DETAIL



G SIGA-CT1 SINGLE INPUT MODULE TYPICAL WIRING DETAIL

H SIGA-CT2 DUAL INPUT MODULE TYPICAL WIRING DETAIL

I NOT USED

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GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

06/07/21	DESIGN INITIATED
09/17/21	50% CD
12/09/21	80% CD
01/22/22	-

DSA APP NO. 01-119906

ARCH PROJECT NO. 1897.00

DRAWN BY: PTN: N/A FILE NO: 43-C4

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FEBRUARY 4, 2022

SHEET TITLE

DETAILS

SHEET NUMBER

FA-3.03

B:\McCloud_architect\Bids\Bids\Basic for ARCHICAD 22\1897.00_GAVILAN COLLEGE\8/19/2022_18:42 PM

GAVILAN COLLEGE VOICE / DATA SYSTEM

505 FAIRVIEW ROAD,
HOLLISTER, CA 95023

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
LOW VOLTAGE DRAWINGS	
LV001	TITLE SHEET
LV003	KEY PLAN AND BACKBONE RISER
LV101	LEVEL 01 - SECTOR A
LV102	LEVEL 01 - SECTOR B
LV103	LEVEL 01 - SECTOR C
LV901	LEVEL 01 - DETAILS



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PTN: N/A FILE NO: 43-C4

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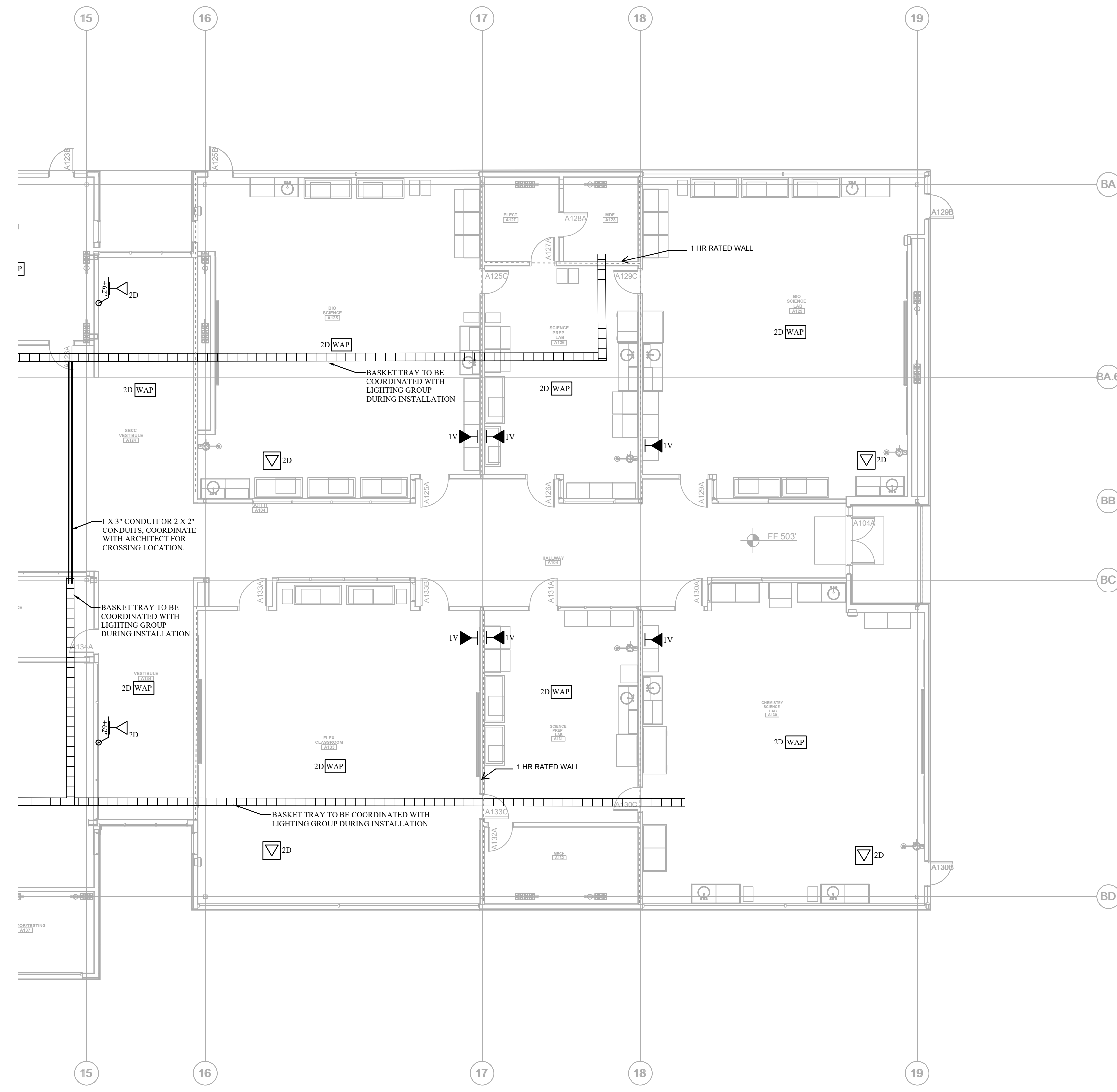
TITLE SHEET

SHEET NUMBER

LV001

LOW VOLTAGE NOTES:

- NOTE 1: AV DATA DROPS WILL BE PROVIDED AFTER COORDINATION WITH AV EQUIPMENT. T.B.D.
- 1V DATA VOIP LINE - 1 X CAT6A DATA DROP.
 - 2D DATA OUTLET - 2 X CAT6A DATA DROP. HOLD STANDARD PROJECT OUTLET HEIGHT UNLESS NOTED WITH "-XX" AT SYMBOL LOCATION.
 - 1V, 1P DATA VOIP OUTLET - 2 X CAT6A DATA DROP.
 - 2D WAP WAP LOCATION - 2 X CAT6A DATA DROP.
 - PR PRINTER LOCATION (BY OTHERS).
 - 2D IN FLOORBOX OR MULTI-TRADE FLOOR POKE-THRU DATA OUTLET - 2 X CAT6A DATA DROP.



1 LOW VOLTAGE PLAN - LEVEL 01 - SECTOR C
SCALE: 1/8" = 1'-0"

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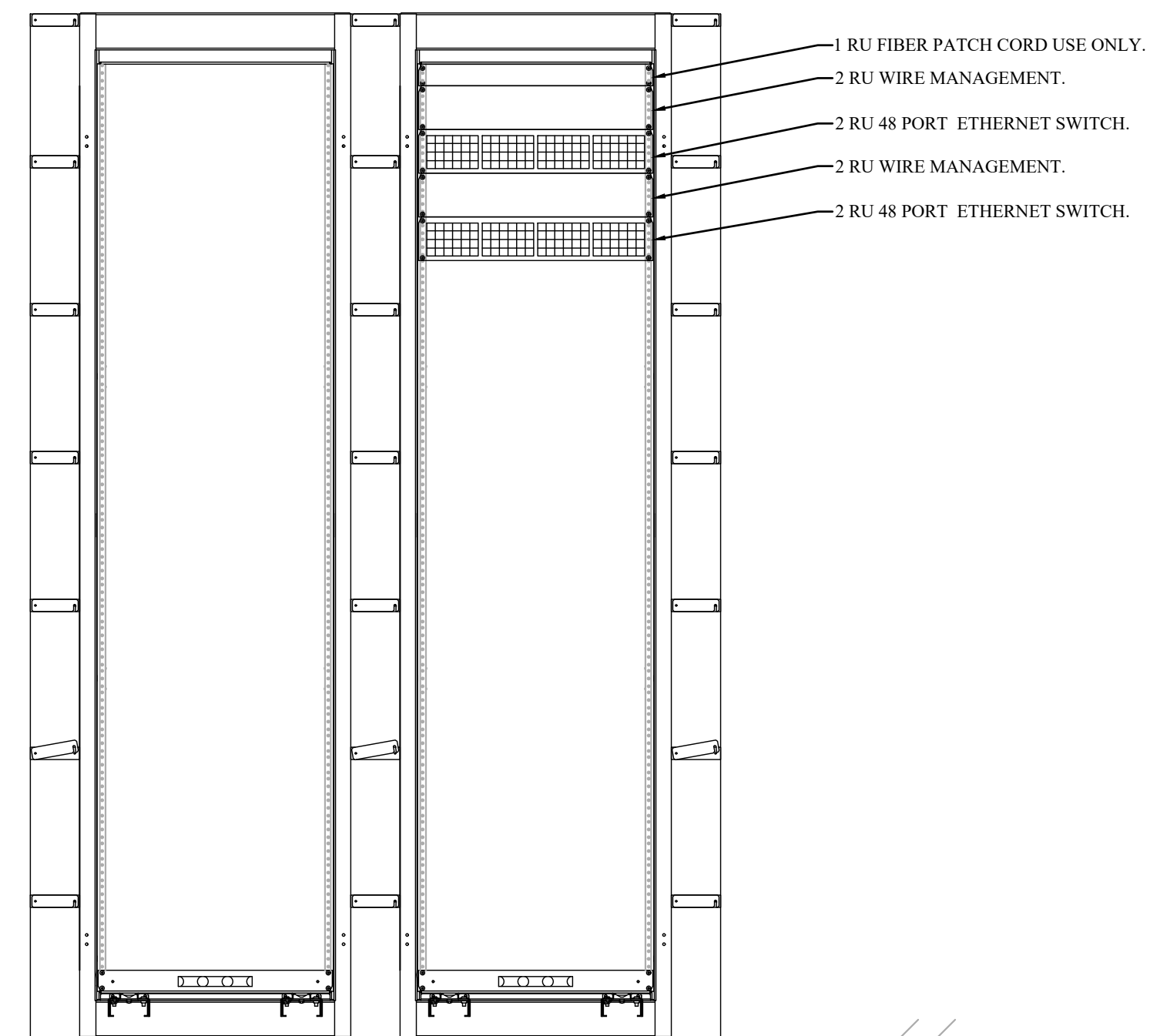
LEVEL 01 - SECTOR C

SHEET NUMBER
LV103

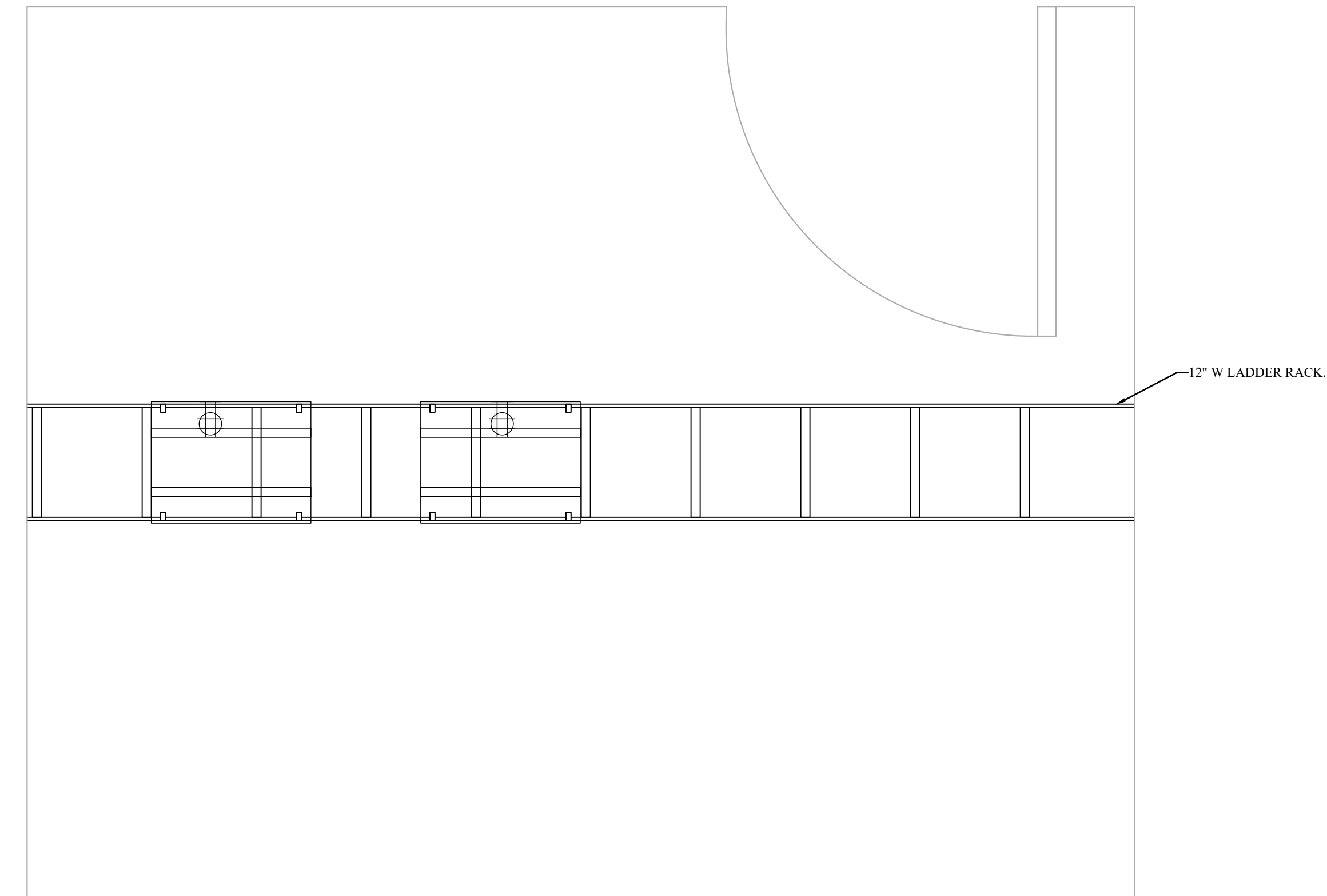
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F.F.

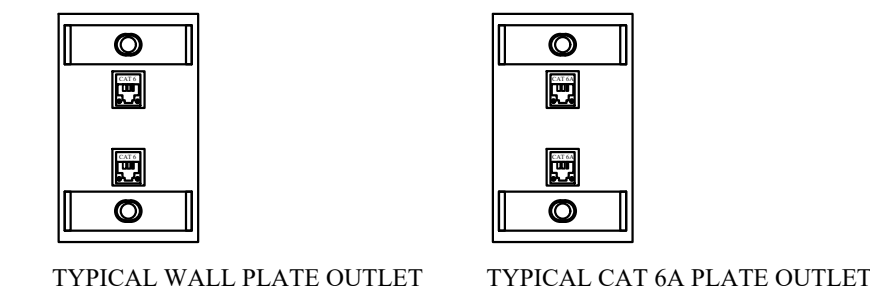
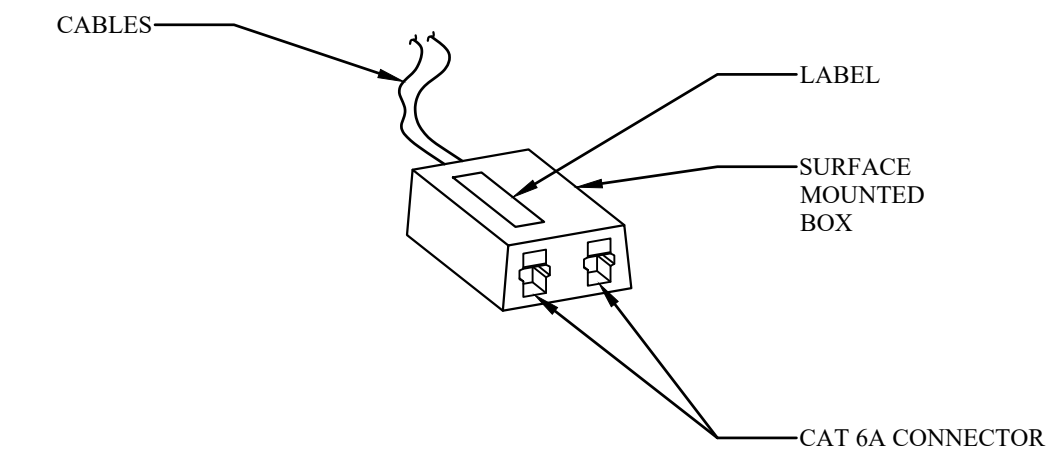
1 RACK ELEVATION
SCALE: N.T.S.



2 DETAIL-LADDER RACK PLAN
SCALE: N.T.S.

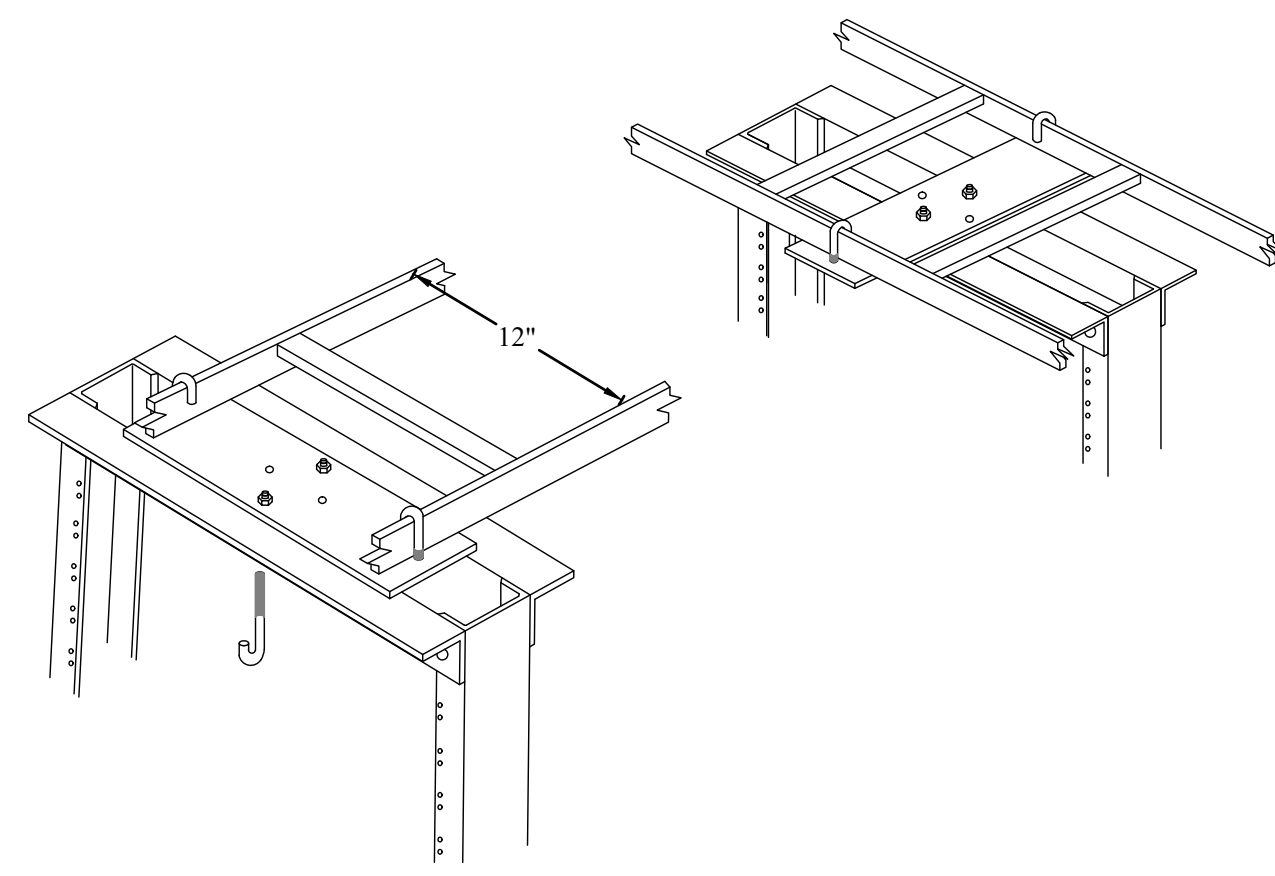


3 DETAIL-WAP SURFACE MOUNT BOX
SCALE: N.T.S.

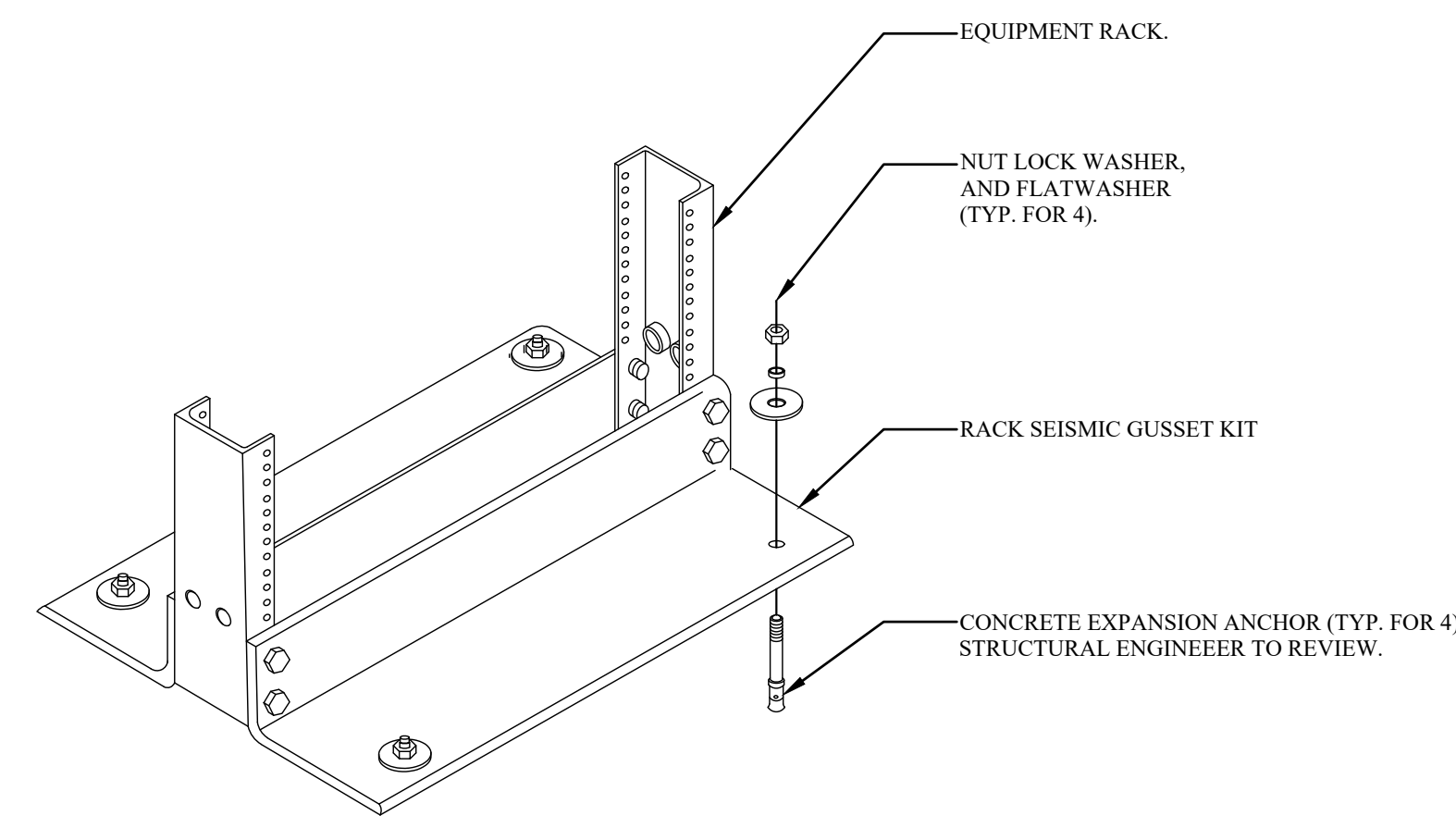


4 DETAIL-TYPICAL OUTLETS
SCALE: N.T.S.

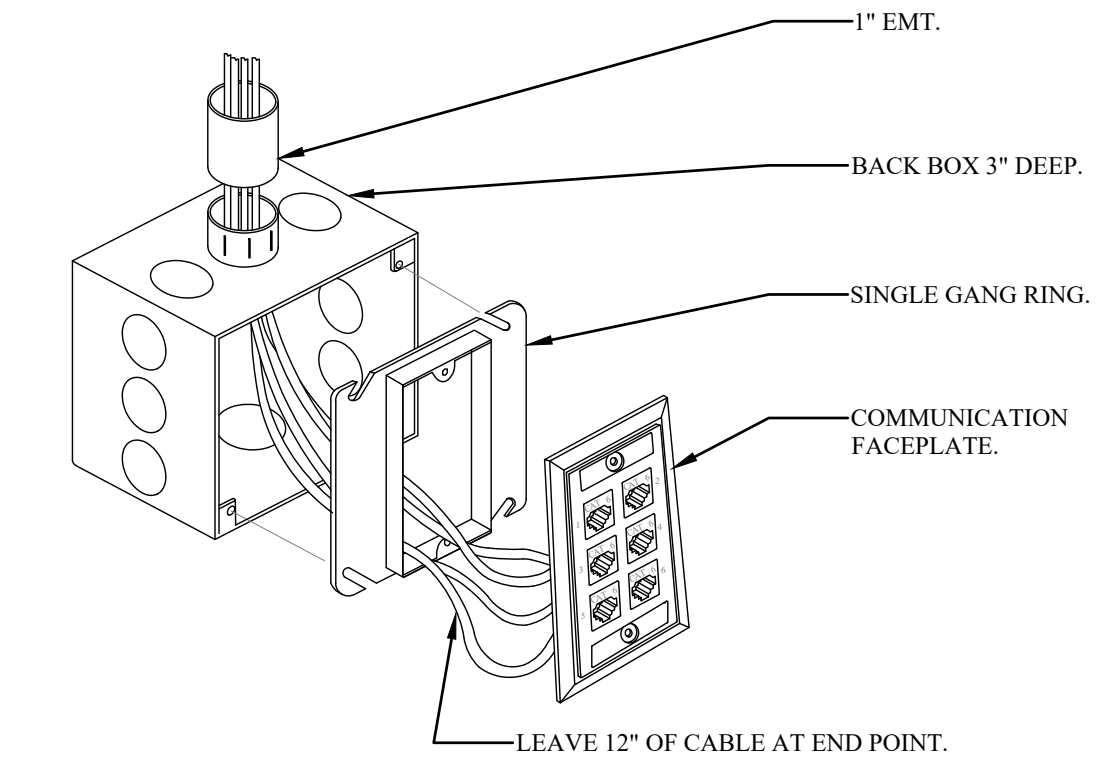
5 DETAIL-RACK TO RUNWAY
SCALE: N.T.S.



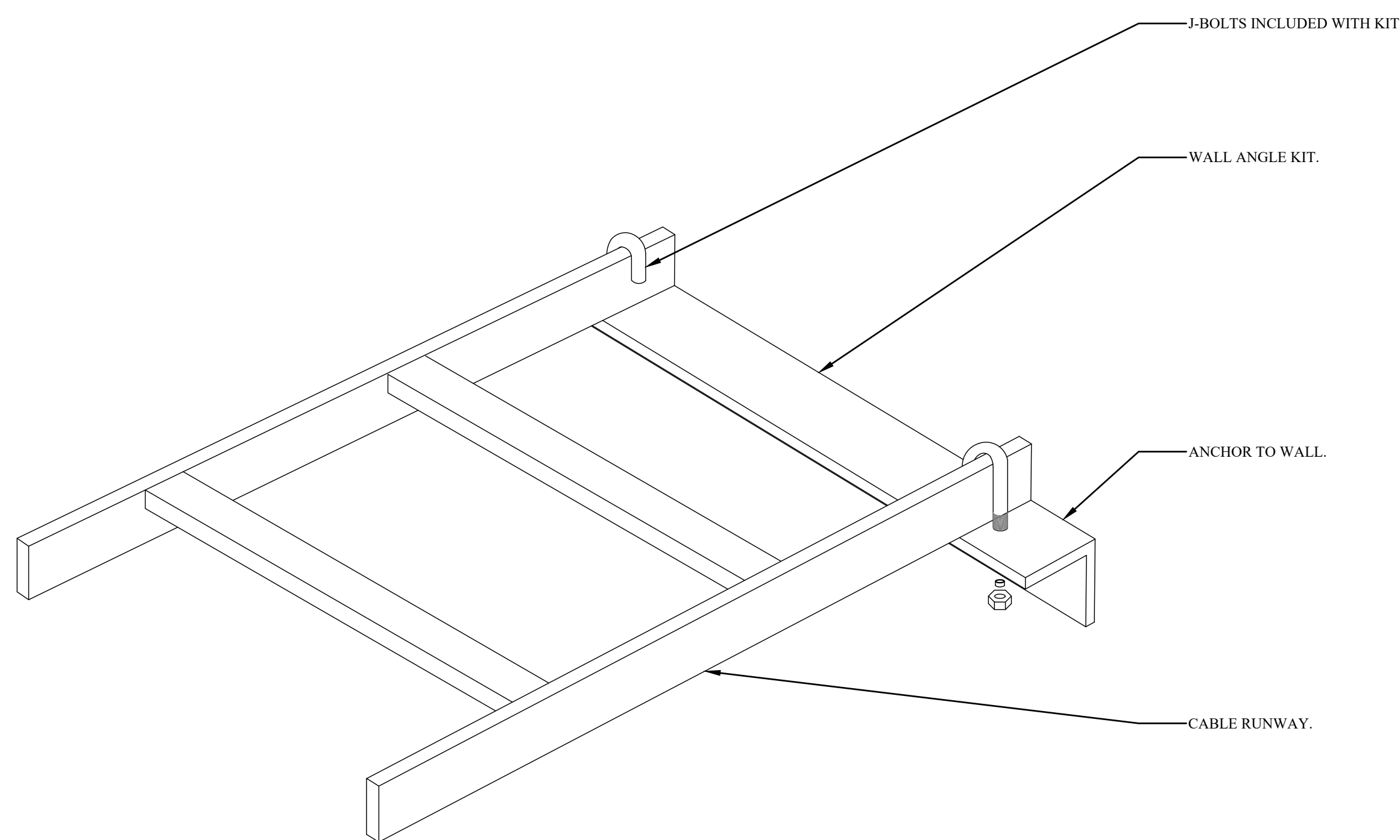
6 DETAIL-RACK TO FLOOR
SCALE: N.T.S.



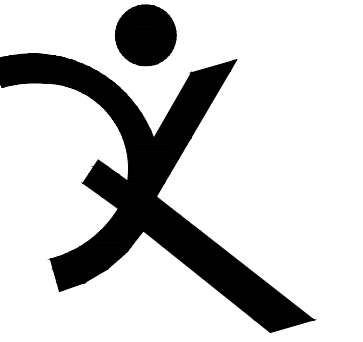
7 DETAIL-BACK BOX
SCALE: N.T.S.



8 DETAIL-CABLE TRAY END-TO-WALL BRACKET DETAIL
SCALE: N.T.S.



BIMcloud: archserver - BIMcloud Basic for ARCHICAD 22/1897.00 GAVILAN COLLEGE/8/19/2021 8:42 PM



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LEVEL 01 -
DETAILS

SHEET NUMBER

LV501

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Gilroy, CA 95020

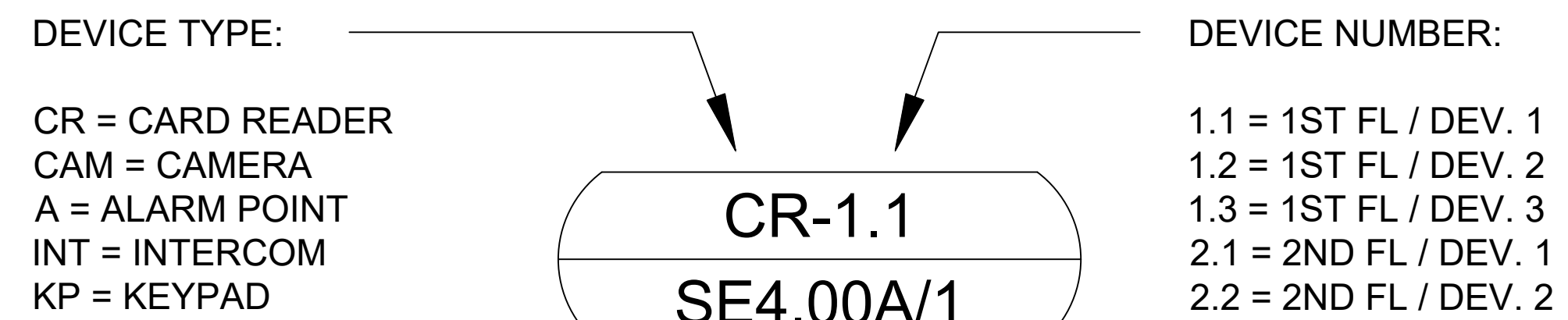


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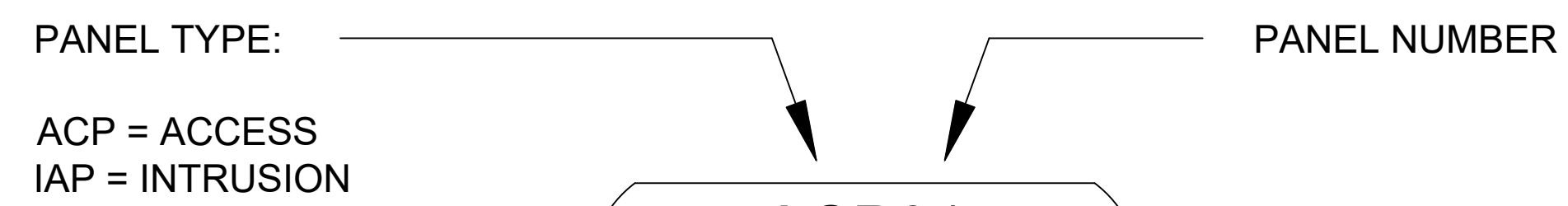
LEGEND

CR CARD READER	WR WIRELESS RECEIVER
CR_K CARD READER WITH KEYPAD	PS POWER SUPPLY
CR_M CARD READER MULLION MOUNT	J SECURITY JUNCTION BOX
DC MAGNETIC DOOR CONTACT	DSA DOOR STATUS ANNUNCIATOR
R REQUEST TO EXIT MOTION SENSOR	ARM ARMING STATION
ACP ACCESS CONTROL PANEL	PoE POWER OVER ETHERNET SWITCH
IAP INTRUSION ALARM PANEL	IC INTERCOM STATION
EL ELECTRIFIED LOCKSET	ICM INTERCOM MASTER STATION
EL_R ELECTRIFIED LOCKSET WITH REX	IC_V VIDEO INTERCOM STATION
ES ELECTRIC STRIKE	ICM_V VIDEO INTERCOM MASTER STATION
CB CRASH BAR	ET ENTRY/EMERGENCY TELEPHONE
CB_R CRASH BAR WITH REX	BP BADGE PRINTER
ML MAGNETIC LOCK	WS WORK STATION
BL ELECTRIC BOLT LOCK	BR BIOMETRIC READER
EDR EMERGENCY DOOR RELEASE	LB LOCK BOX
DR DOOR RELEASE BUTTON	TS TEMPERATURE SENSOR
EB EXIT BUTTON	MS MOISTURE SENSOR
A ALARM POINT - DOOR CONTACT	NVR NETWORK VIDEO RECORDER
LA LOCAL ALARM	DVR DIGITAL VIDEO RECORDER
M MOTION DETECTOR - WALL MOUNT	UPS UPS BATTERY BACKUP
M MOTION DETECTOR - CEILING MOUNT	IR IR-LED ILLUMINATOR
LM LONG RANGE MOTION DETECTOR	FIX IP FIXED DOME CAMERA
GB GLASS BREAK - CEILING MOUNT	PTZ IP PAN/TILT/ZOOM DOME CAMERA
GB GLASS BREAK - WALL MOUNT	FIX IP 180° F.O.V. DOME CAMERA
FA FIRE ALARM RELAY (BY OTHERS)	FIX IP 360° F.O.V. DOME CAMERA
KP KEYPAD	
S SOUNDER	
DB DURESS BUTTON	
DB_W WIRELESS DURESS BUTTON	

CONVENTIONS



SHEET NUMBER DETAIL NUMBER



SHEET / DETAIL NUMBER

SHEET INDEX

SE0.01:	COVER SHEET
SE0.02:	GENERAL NOTES & INFORMATION
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SE1.01A:	FIRST FLOOR SOUTH SECURITY PLAN
SE1.01B:	FIRST FLOOR NORTH SECURITY PLAN
SE4.00:	DOOR DETAILS
SE4.02:	DEVICE MOUNTING DETAIL
SE4.03:	PANEL MOUNTING DETAILS

ABBREVIATIONS

ACAMS - ACCESS CNTRL & ALRM MONITOR SYS.	NC - NORMALLY CLOSED
ACP - ACCESS CONTROL PANEL	NIC - NOT IN CONTRACT
A.F.F. - ABOVE FINISHED FLOOR	NO - NORMALLY OPEN
AWG - AMERICAN WIRE GAUGE	No. - NUMBER
C. - CONDUIT	NTS - NOT TO SCALE
CAT6 - CATEGORY 6 TWISTED PAIR CABLE	NVR - NETWORK VIDEO RECORDER
CCTV - CLOSED CIRCUIT TELEVISION	O.H. - OPPOSITE HAND
COND - CONDUCTOR	OC - ON CENTER
DVR - DIGITAL VIDEO RECORDER	PNL - PANEL
DWG - DRAWING	PR. - PAIR
(E) - EXISTING	P.S. - POWER SUPPLY
EMT - ELECTRICAL METALLIC TUBING	PTZ - PAN/TILT/ZOOM
(F) - FUTURE	REX - REQUEST TO EXIT
FA - FIRE ALARM	TBD - TO BE DETERMINED
FACP - FIRE ALARM CONTROL PANEL	TS - TAMPER SWITCH
F.C. - FLEX CONDUIT	TYP. - TYPICAL
IAP - INTRUSION ALARM PANEL	U.O.N. - UNLESS OTHERWISE NOTED
IFP - INTELLIGENT FIELD PROCESSOR	UPS - UNINTERRUPTABLE POWER SUPPLY
JB - JUNCTION BOX	VAC - VOLTS A.C. POWER
MAX - MAXIMUM	VDC - VOLTS D.C. POWER
MIN - MINIMUM	TBD - TO BE DETERMINED
MTG - MOUNTING	TS - TAMPER SWITCH
(N) - NEW	WP - WEATHERPROOF

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SE0.01

GENERAL NOTES

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- SECURITY DRAWINGS ARE NOT TO BE USED FOR ARCHITECTURAL OR ENGINEERING PURPOSES. THE SECURITY SYSTEM DRAWINGS SHOULD ONLY BE USED FOR SECURITY SYSTEMS INSTALLATION AND COORDINATION.
- LOCAL SECURITY VENDOR SHALL COORDINATE WITH GENERAL CONTRACTOR/CUSTOMER/FIRE SYSTEM PROVIDER TO PROVIDE ALL NECESSARY DRY CONTACT OUTPUTS FROM THE FIRE SYSTEM TO INTERFACE WITH THE LOCK POWER SUPPLIES AS REQUIRED TO MEET LOCAL CODE.
- LOCAL SECURITY VENDORS MAY NOT SUBCONTRACT ANY SCOPE OF WORK WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NETRONIX INTEGRATION.
- VERIFY AND COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.
- DRAWINGS INDICATE APPROXIMATE LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE EXACT LOCATIONS WITH LIGHTING FIXTURES AND OTHER DEVICES.
- MOUNTING HEIGHT ARE FROM FINISHED FLOOR TO THE HORIZONTAL CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.
- MOUNTING HEIGHT OF ALL USER INTERFACE EQUIPMENT (CARD READERS, KEYPADS, ETC.) SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

RESPONSIBILITY SCHEDULE

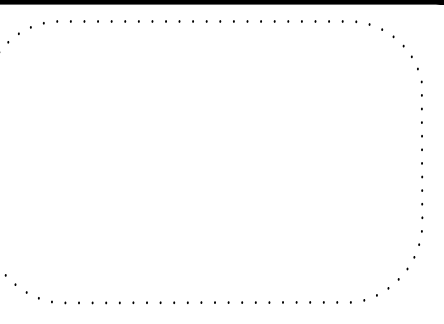
TASK	SUPPLIED BY:			INSTALLED BY:		
	GEN. CONT.	CLIENT	NETRONIX	GEN. CONT.	CLIENT	NETRONIX
CONDUITS / CABLE TRAYS / CONTAINMENT	X			X		
ACCESS CONTROL SYSTEM (ACS)						
DEVICES			X			X
CABLING			X			X
ACCESS CONTROL PANEL (ACP) MOUNTING BOARD			X			X
ACP & POWER SUPPLY UNIT (PSU)			X			X
DEDICATED MAINS OUTLET FOR ACS	X			X		
NETWORK PORT		X			X	
DOOR HARDWARE						
DEVICES (ELECTRONIC DOOR HARDWARE)- LOCKS	X			X		
CABLING			X			X
CCTV SYSTEM:						
DEVICES			X			X
CABLING			X			X
EXTERNAL CONDUITS (IF NEEDED)	X			X		
DEDICATED MAINS OUTLET FOR CCTV EQUIPMENT	X			X		
NETWORK PORT (PoE)		X			X	
INTRUSION SYSTEM:						
DEVICES			X			X
CABLING			X			X
INTRUSION SYSTEM PSU			X			X
DEDICATED MAINS OUTLET FOR IDS	X			X		
NETWORK PORT		X			X	
SECURITY PROJECT CLOSE OUT:						
IT INFORMATION RECORD		X			X	
TESTING / COMMISSIONING		X			X	
O & M MANUALS (OR AGREED ALTERNATIVE)		X			X	
AS-BUILTS DRAWINGS		X			X	

CONDUIT/CABLE NOTES

- ALL CONDUIT AND BACK BOXES SHALL CONFORM TO BUILDING STANDARD ELECTRICAL SPECIFICATIONS. ALL CABLES SHALL BE PLENUM RATED WHERE REQUIRED.
- ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL CONDUIT USED IN POTENTIALLY DAMP OR WET LOCATIONS, EXPOSED OUTDOORS, OR IN HAZARDOUS AREAS SHALL BE INTERMEDIATE STEEL CONDUIT (IMC). ALL EXTERIOR CONDUIT IN CONCRETE SLAB SHALL BE PVC. ALL CONDUIT OTHER THAN SPECIFIED TO BE IMC OR PVC SHALL BE ELECTRICAL METALLIC TUBING (EMT).
- ALL CONDUIT SHALL BE ROUTED ABOVE CEILINGS, BELOW FLOORS, OR WITHIN WALLS. NO CONDUIT SHALL BE EXPOSED WITHOUT APPROVAL BY THE ARCHITECT.
- ALL CONDUITS SHALL HAVE PLASTIC BUSHINGS INSTALLED AT OPEN ENDS BEFORE PULLING CABLE.
- ALL BACKBOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.
- ALL BACKBOXES MOUNTED WITHIN FIRE RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.
- COORDINATE EXACT LOCATION OF ALL PULL AND BACKBOXES WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- PROVIDE WATERTIGHT SEALING ASSEMBLIES WITH PRESSURE BUSHINGS AS REQUIRED FOR EXTERIOR PENETRATIONS.
- JUNCTION, PULL, AND MOUNTING BOXES IN EXTERIOR LOCATIONS SHALL BE WATERPROOF. ALL SEALS, GASKETS, OR OTHER WATERPROOFING DEVICES SUPPLIED WITH BOXES AND DEVICES SHALL BE IN PLACE AND USED AS INTENDED.
- ALL CABLE RUNS IN CEILING AREAS WHERE CONDUIT OR CABLE TRAY IS NOT SPECIFIED SHALL BE SUPPORTED WITH SIMILAR SUPPORT OR WITH THE USE OF J-HOOKS AT 5' INTERVALS ABOVE CEILING TILES.
- ALL CABLE PATHWAYS AND CONDUIT TO BE PROVIDED BY OTHERS UNLESS OTHERWISE NOTED.

CABLE SCHEDULE

I.D.	DESCRIPTION	REMARKS
A	24 AWG / 4 PAIR / SHIELDED	DATA, CARD READER
B	24 AWG / 2 PAIR / SHIELDED	DATA
C	24 AWG / 8 CONDUCTOR / SHIELDED	DEVICE
D	23 AWG / 4 PAIR (CAT6)	DATA
E	22 AWG / 4 CONDUCTOR / SHIELDED	DATA
F	22 AWG / 6 CONDUCTOR / SHIELDED	CARD READER
G	22 AWG / 4 CONDUCTOR / UNSHIELDED	DEVICE
H	22 AWG / 2 PAIR / SHIELDED	CARD READER (OSDP)
J	18 AWG / 2 CONDUCTOR / UNSHIELDED	POWER, DEVICE
K	18 AWG / 2 CONDUCTOR / SHIELDED	POWER, DEVICE
L	18 AWG / 4 CONDUCTOR / UNSHIELDED	POWER
M	18 AWG / 6 CONDUCTOR / SHIELDED	CARD READER
N	18 AWG / 4 CONDUCTOR / SHIELDED	POWER, DATA
P	16 AWG / 2 CONDUCTOR / UNSHIELDED	LOCK POWER
Q	FIBER OPTIC	DATA
R	RG-6/U COAXIAL CABLE	ANALOG VIDEO
S	RG-59U COAXIAL CABLE	ANALOG VIDEO
T	COMPOSITE - 22/3 PR SHLD, 18/4, 22/4, 22/2 UNSHLD	CARD READER DOOR
U	22 AWG / 2 CONDUCTOR / UNSHIELDED	DEVICE



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DSA APP NO. 01-119906
 ARCH PROJECT NO. 1897.00

DRAWN BY:
 DRAWING SCALE:
 PTN: N/A FILE NO: 43-C4

DSA SUBMITTAL

FEBRUARY 4, 2022

SHEET TITLE
GENERAL NOTES & INFORMATION

SHEET NUMBER

SE0.02



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JOB NUMBER
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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
HOLLISTER, CA 95023

GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT

DSA APP NO. 01-119906

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FEBRUARY 4, 2022

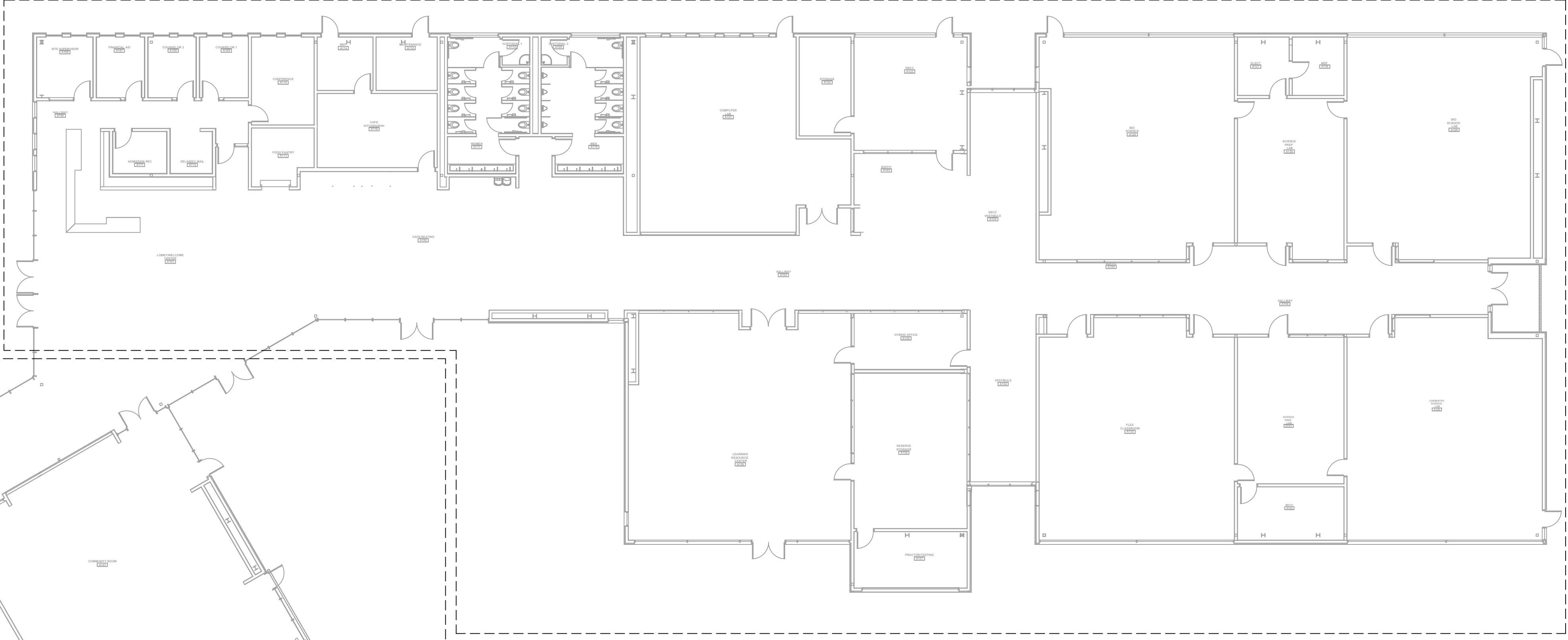
SHEET TITLE

1ST FLOOR
SITE PLAN

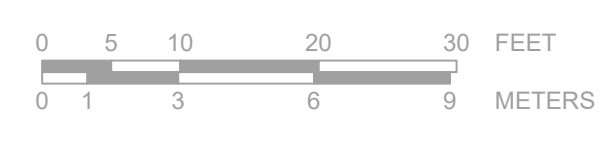
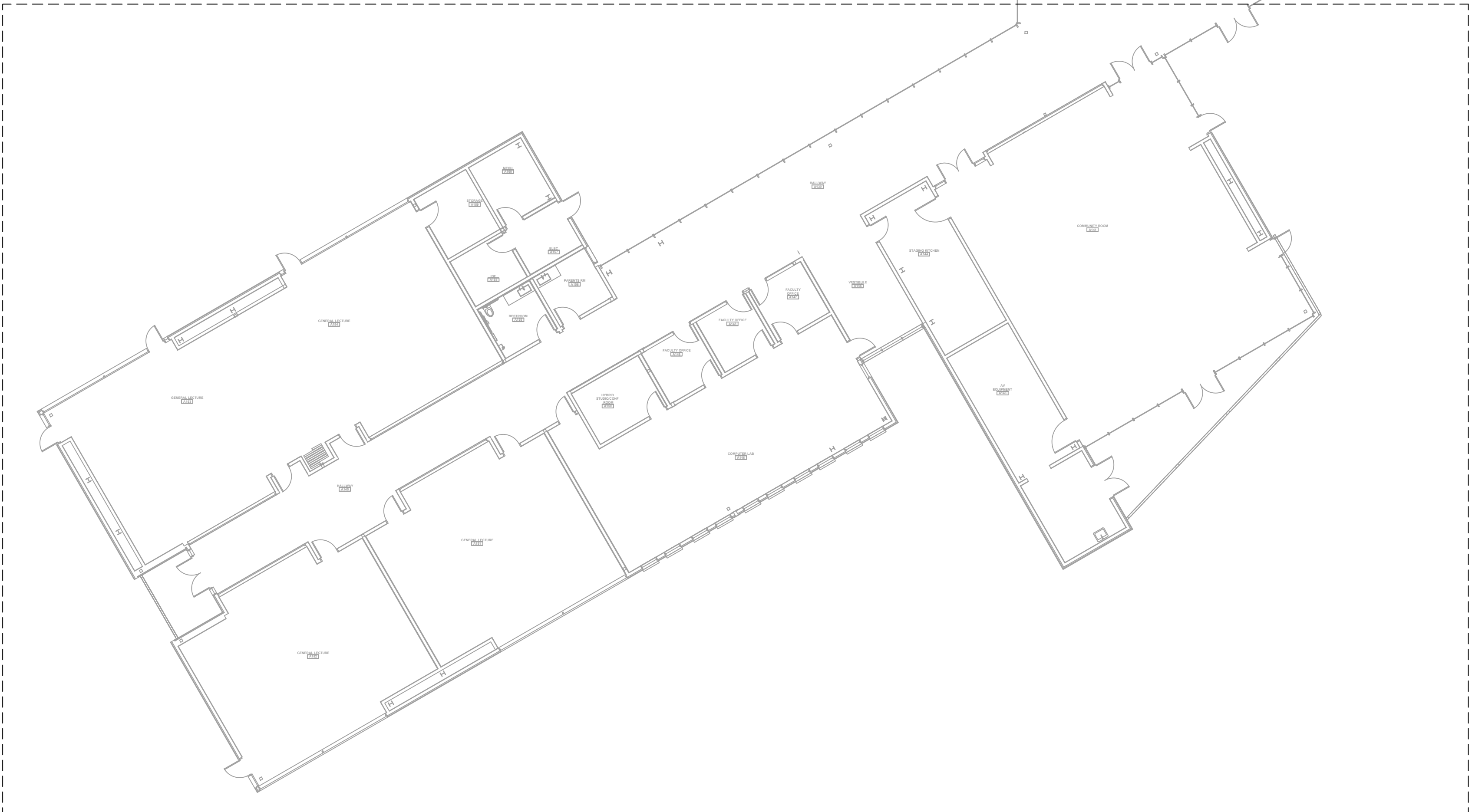
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SE1.00

MDF A128 DEVICES



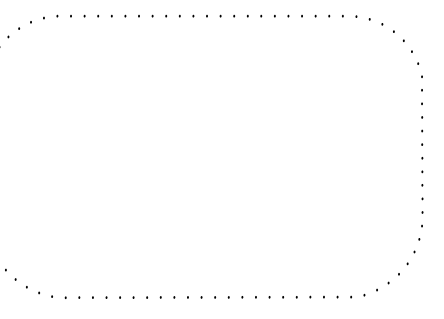
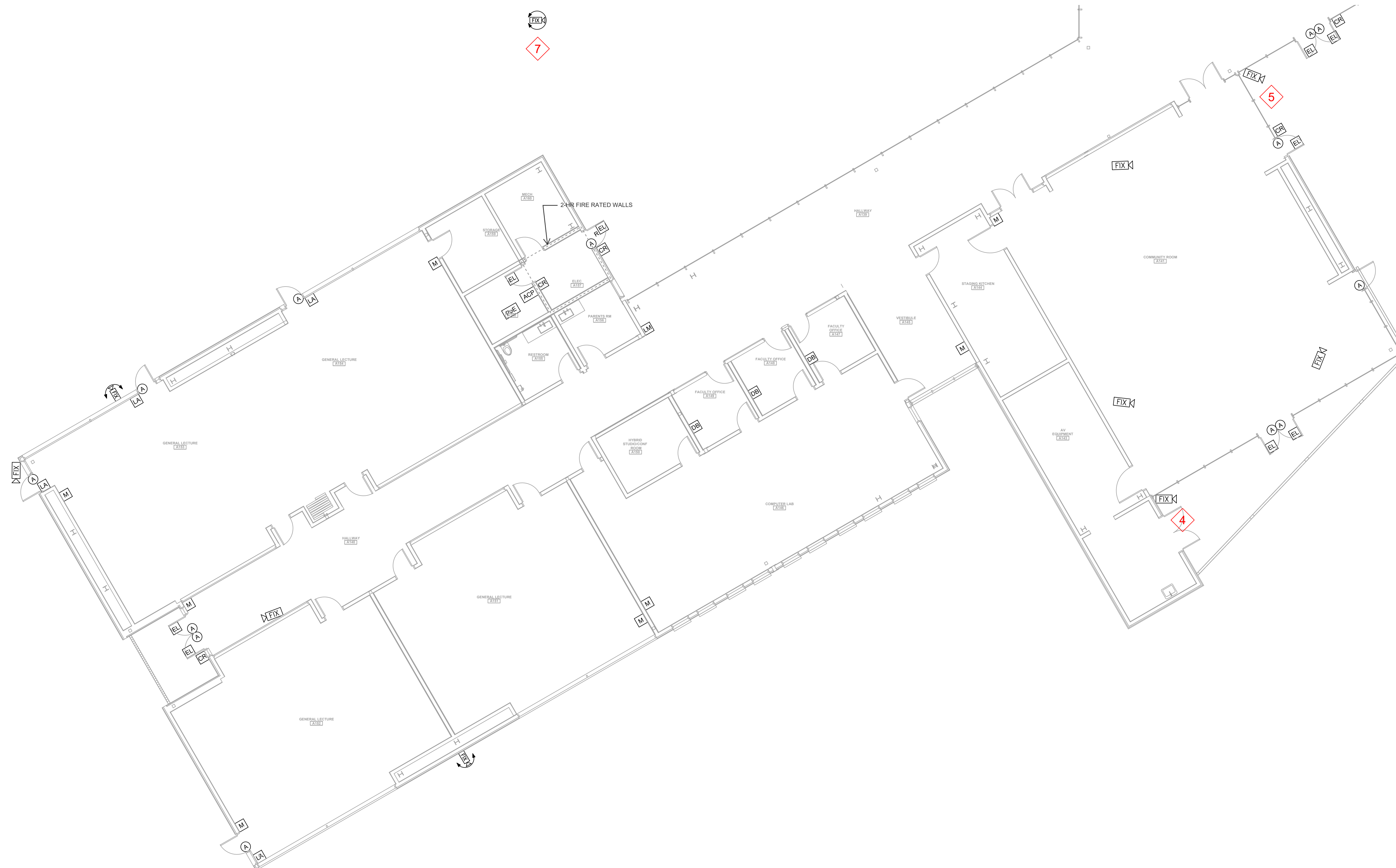
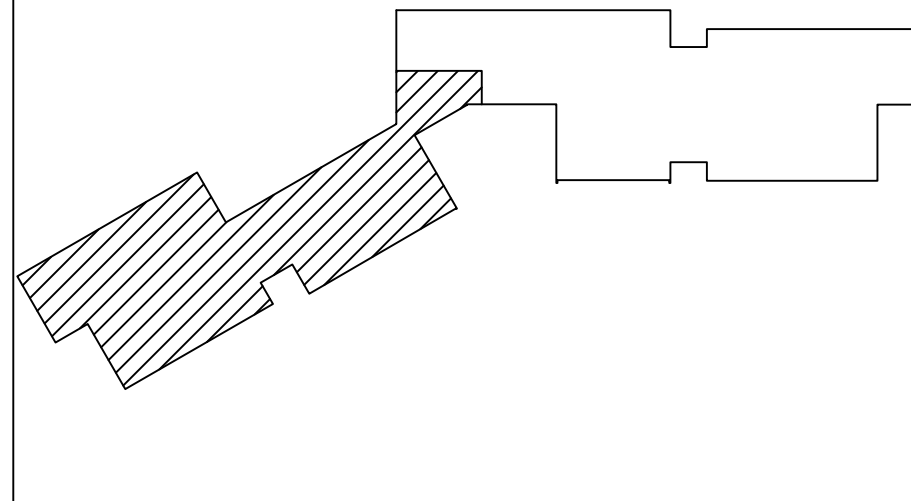
IDF A158 DEVICES



SHEET NOTES

- 1 ALL MOTION DETECTORS ARE CONNECTED TO THE INTRUSION PANEL AND ALSO INTEGRATED INTO THE ACCESS CONTROL SYSTEM THROUGH THE NETWORK FOR REDUNDANCY.
- 2 ALL DOOR CONTACTS ARE MONITORED ON INTRUSION SYSTEM ONLY.
- 3 ALL READERS ARE TO BE CONNECTED USING OSDP COMMUNICATIONS.
- 4 CAMERAS NOTED TO BE MOUNTED APPROXIMATELY 9' AFF.
- 5 CAMERAS NOTED TO BE SURFACE MOUNTED UNDER SOFFIT.
- 6 ALL DURESS BUTTONS ARE HARDWIRED TO ACCESS AND INTRUSION SYSTEMS TO PROVIDE PERIMETER DOOR LOCKDOWN AND ALERT THE OFFSITE MONITORING COMPANY.
- 7 POLE MOUNTED CAMERA. CONNECTS VIA CAT6 OSP CABLE TO IDF ROOM A158 AND PAINT TO MATCH COLOR OF LIGHT POLE.

KEY PLAN



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DSA APP NO. 01-119906
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SHEET TITLE
1ST FLOOR SOUTH SECURITY PLAN

SHEET NUMBER

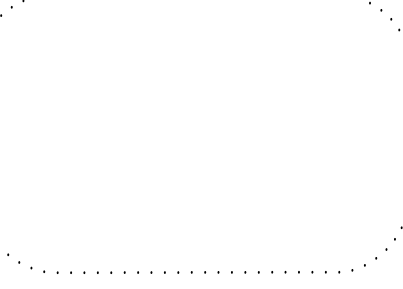
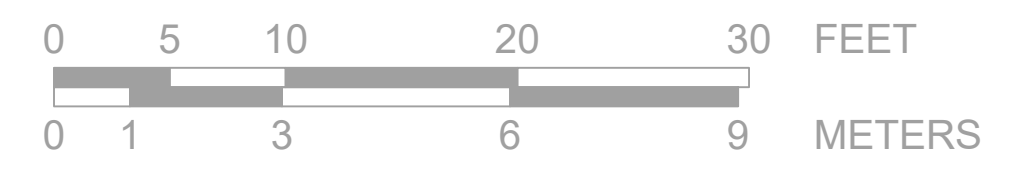
SE1.00A



SHEET NOTES

- 1 ALL MOTION DETECTORS ARE CONNECTED TO THE INTRUSION PANEL AND ALSO INTEGRATED INTO THE ACCESS CONTROL SYSTEM THROUGH THE NETWORK FOR REDUNDANCY.
- 2 ALL DOOR CONTACTS ARE MONITORED ON INTRUSION SYSTEM ONLY.
- 3 ALL READERS ARE TO BE CONNECTED USING OSDP COMMUNICATIONS.
- 4 CAMERAS NOTED TO BE MOUNTED APPROXIMATELY 9' AFF.
- 5 CAMERAS NOTED TO BE SURFACE MOUNTED UNDER SOFFIT.
- 6 ALL DURESS BUTTONS ARE HARDWIRED TO ACCESS AND INTRUSION SYSTEMS TO PROVIDE PERIMETER DOOR LOCKDOWN AND ALERT THE OFFSITE MONITORING COMPANY.
- 7 POLE MOUNTED CAMERA. CONNECTS VIA CAT6 OSP CABLE TO IDF ROOM A158 AND PAINT TO MATCH COLOR OF LIGHT POLE.
- 8 CAMERAS NOTED TO BE PENDENT MOUNTED FROM CEILING.

KEY PLAN



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GAVILAN COLLEGE

NEW COLLEGE CAMPUS

505 FAIRVIEW ROAD
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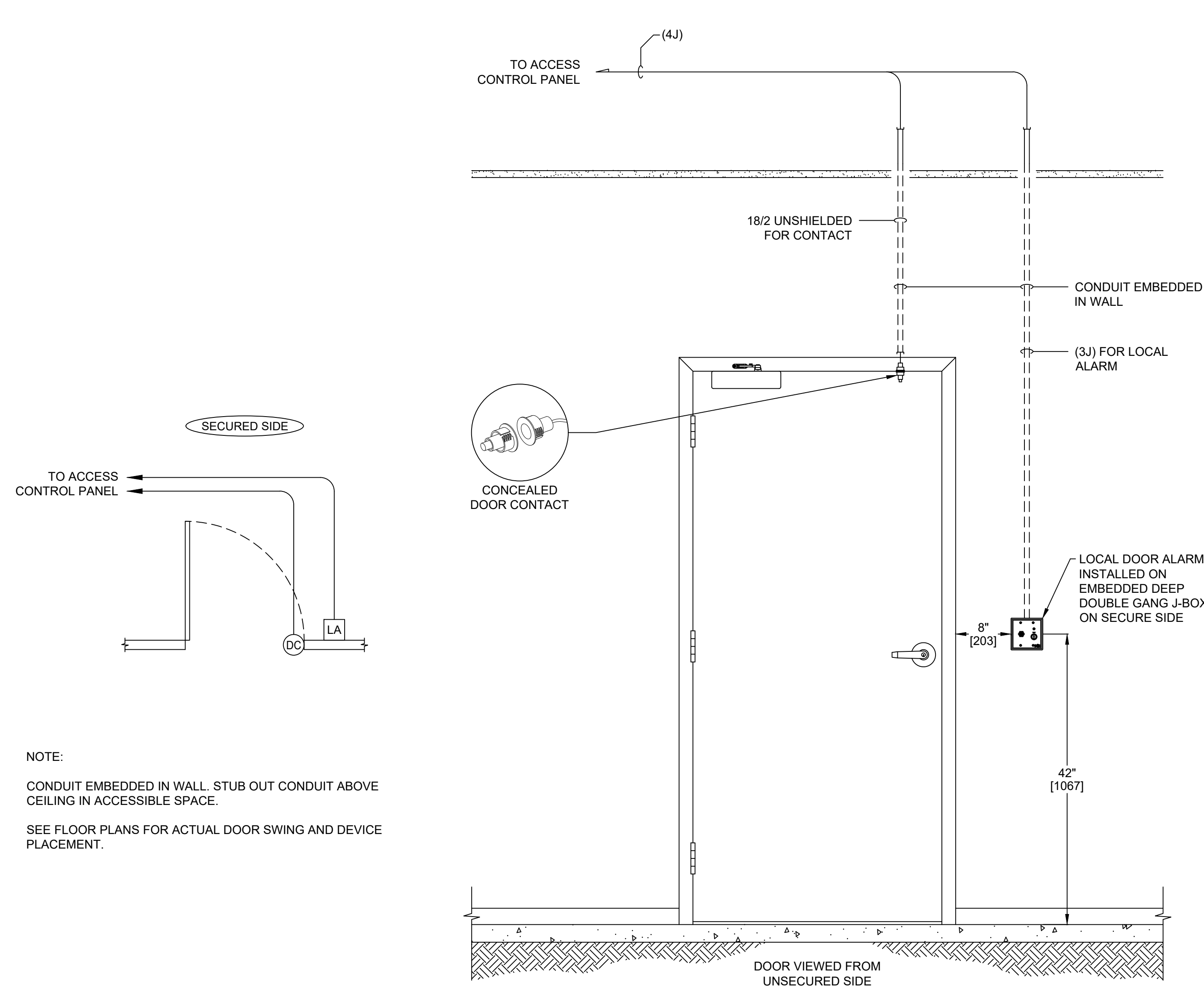
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

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 ARCH PROJECT NO. 1897.00
 DRAWN BY:
 DRAWING SCALE:
 PTN: N/A FILE NO. 43-C4
 DSA SUBMITTAL
 FEBRUARY 4, 2022

SHEET TITLE
1ST FLOOR NORTH SECURITY PLAN

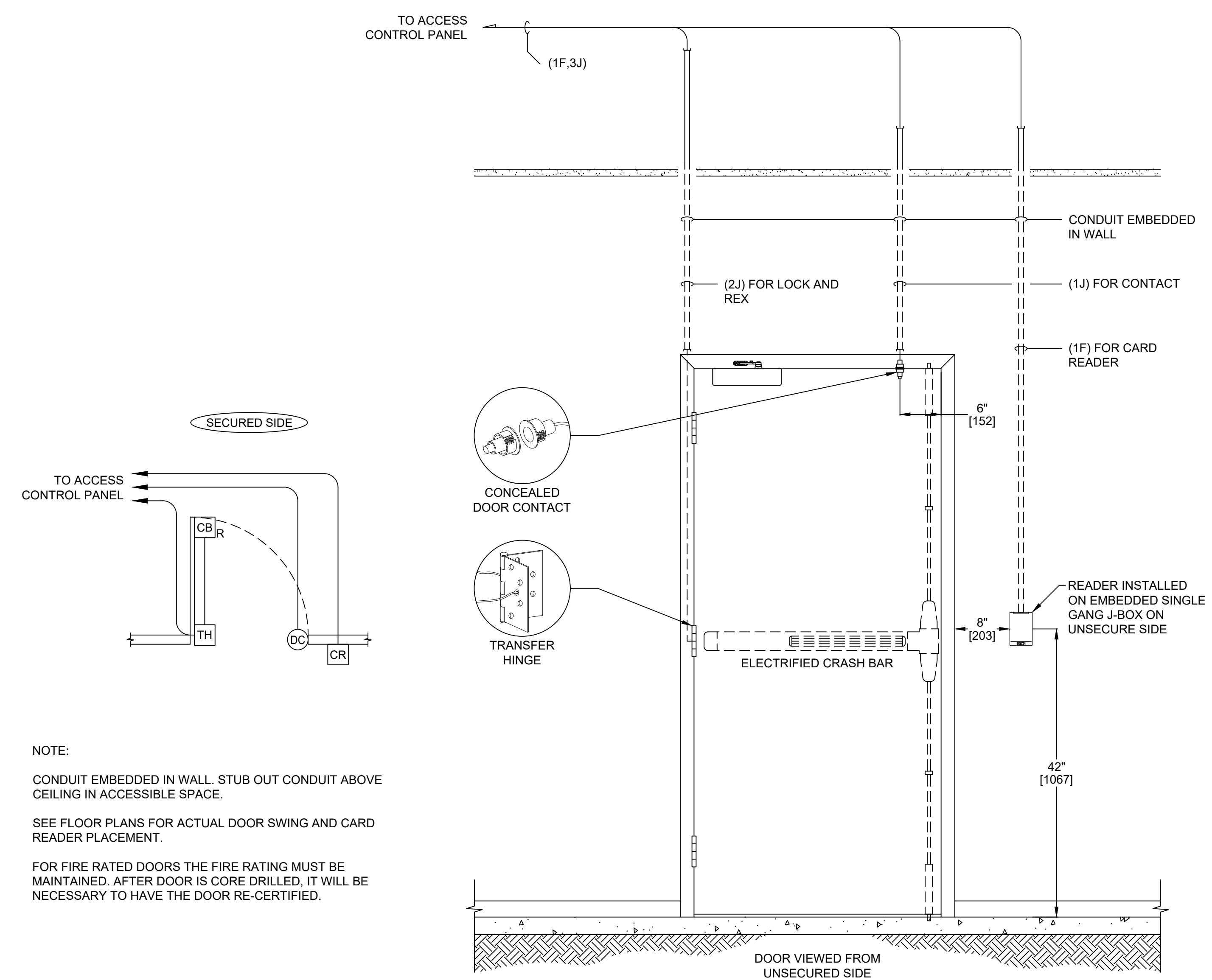
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SE1.00B

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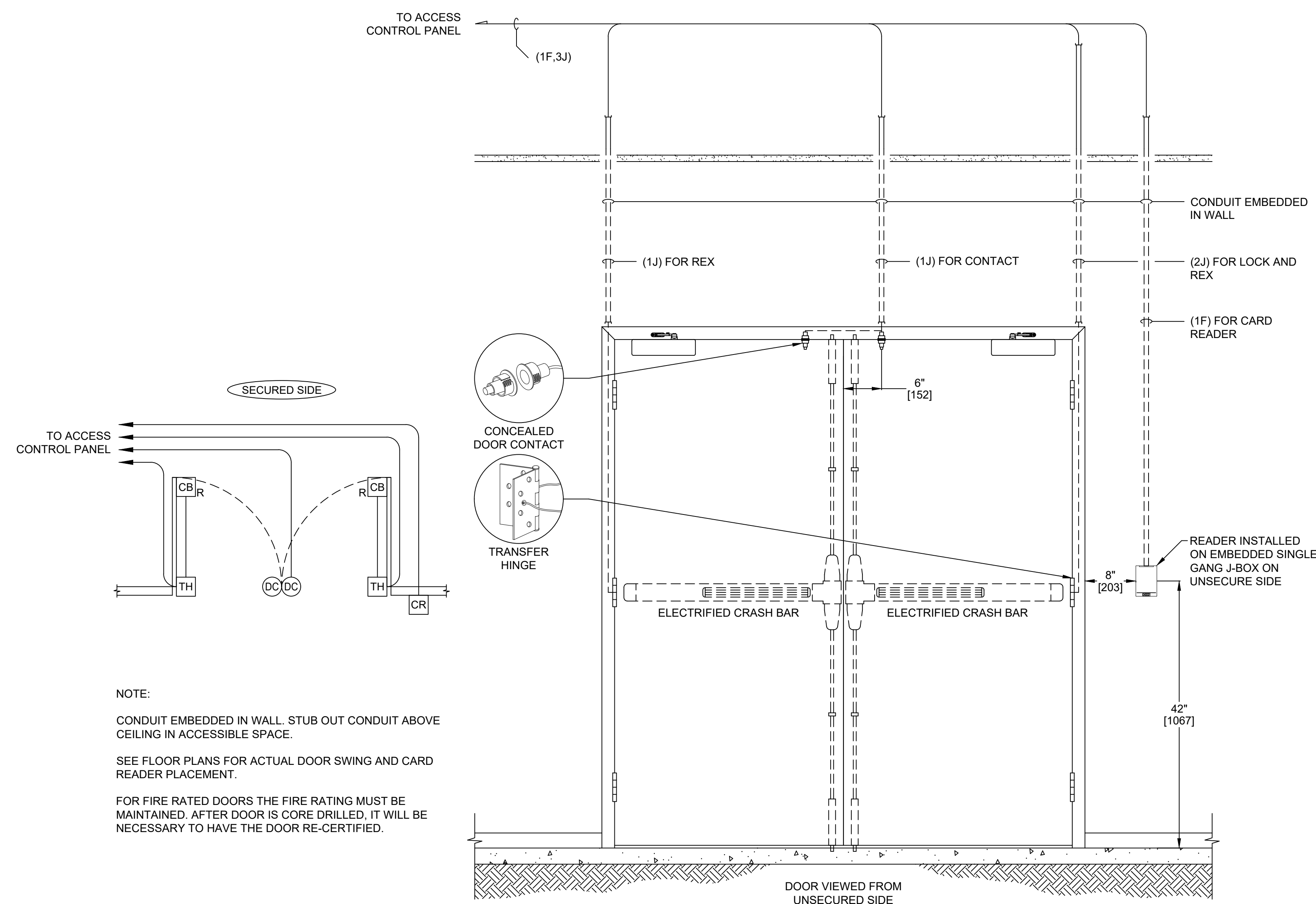
NOTE:
 CONDUIT EMBEDDED IN WALL. STUB OUT CONDUIT ABOVE CEILING IN ACCESSIBLE SPACE.
 SEE FLOOR PLANS FOR ACTUAL DOOR SWING AND DEVICE PLACEMENT.

1 SINGLE DOOR WITH DOOR CONTACT AND LOCAL DOOR ALARM
 N.T.S.



NOTE:
 CONDUIT EMBEDDED IN WALL. STUB OUT CONDUIT ABOVE CEILING IN ACCESSIBLE SPACE.
 SEE FLOOR PLANS FOR ACTUAL DOOR SWING AND CARD READER PLACEMENT.
 FOR FIRE RATED DOORS THE FIRE RATING MUST BE MAINTAINED. AFTER DOOR IS CORE DRILLED, IT WILL BE NECESSARY TO HAVE THE DOOR RE-CERTIFIED.

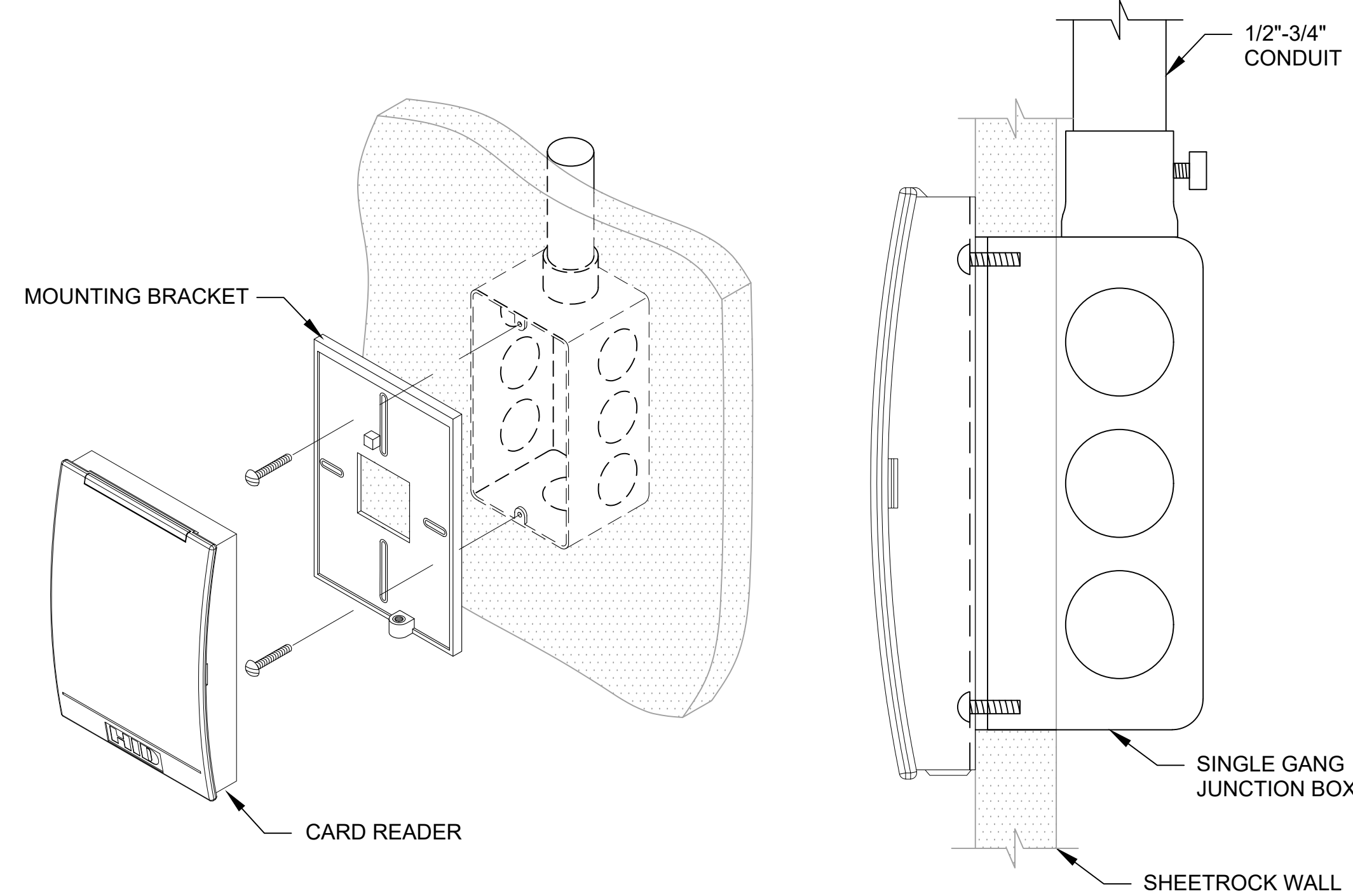
2 SINGLE DOOR WITH CARD READER WITH CRASH BAR W/REX
 N.T.S.



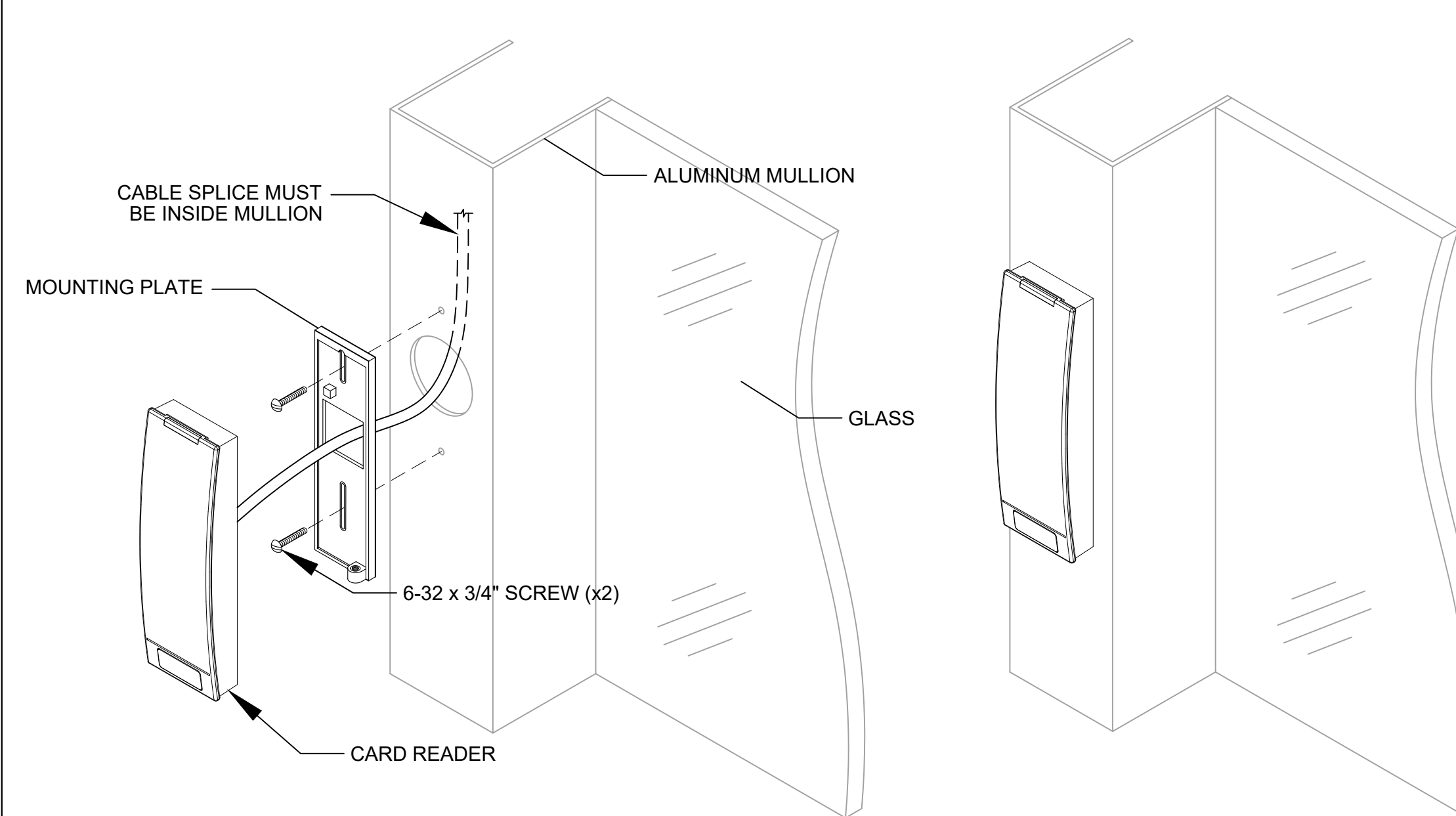
NOTE:
 CONDUIT EMBEDDED IN WALL. STUB OUT CONDUIT ABOVE CEILING IN ACCESSIBLE SPACE.
 SEE FLOOR PLANS FOR ACTUAL DOOR SWING AND CARD READER PLACEMENT.
 FOR FIRE RATED DOORS THE FIRE RATING MUST BE MAINTAINED. AFTER DOOR IS CORE DRILLED, IT WILL BE NECESSARY TO HAVE THE DOOR RE-CERTIFIED.

3 DOUBLE DOOR WITH CARD READER WITH CRASH BAR W/REX
 N.T.S.

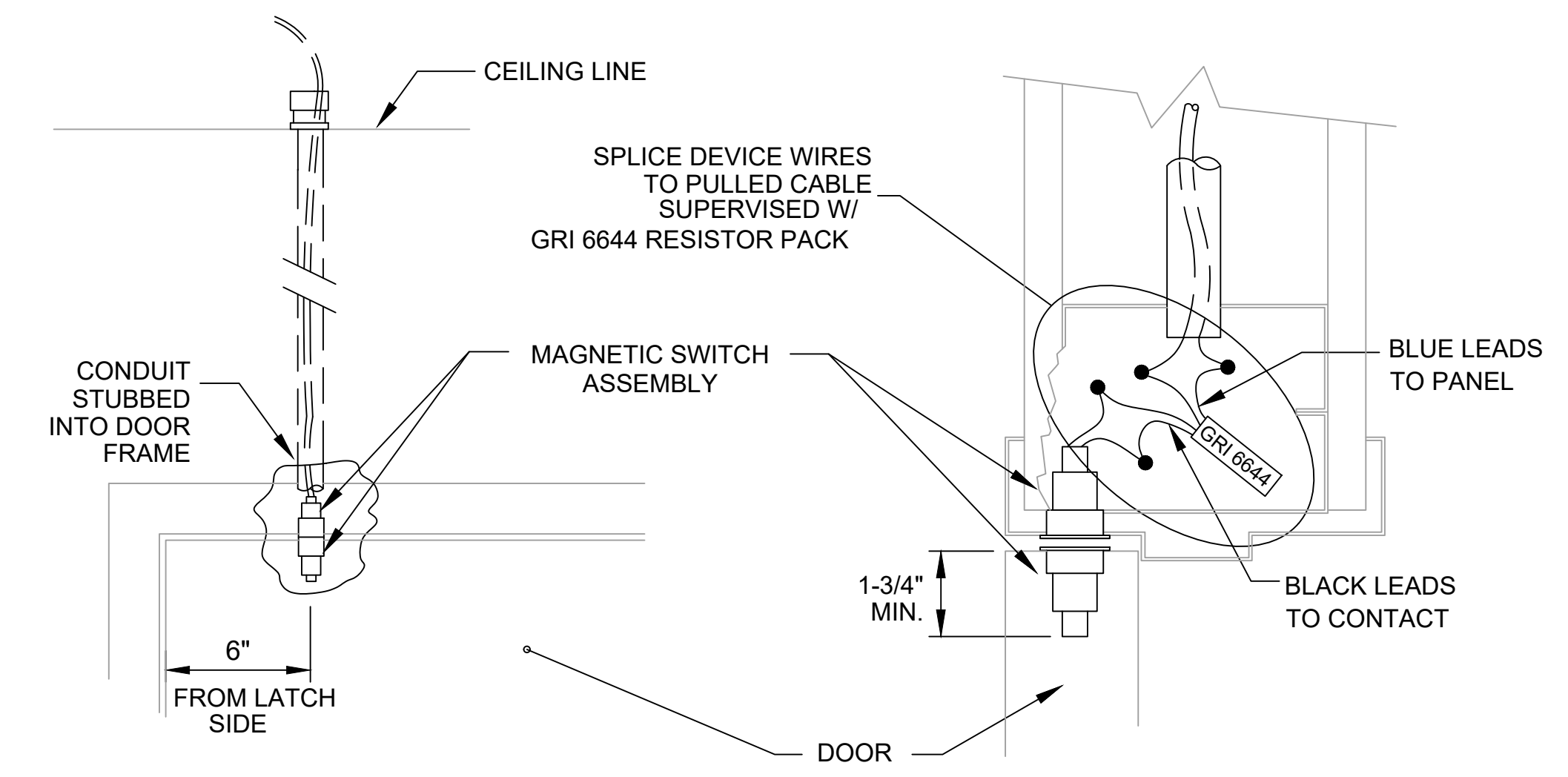
4 NOT USED
 N.T.S.



1 CARD READER MOUNTING DETAIL - J-BOX AND CONDUIT
N.T.S.



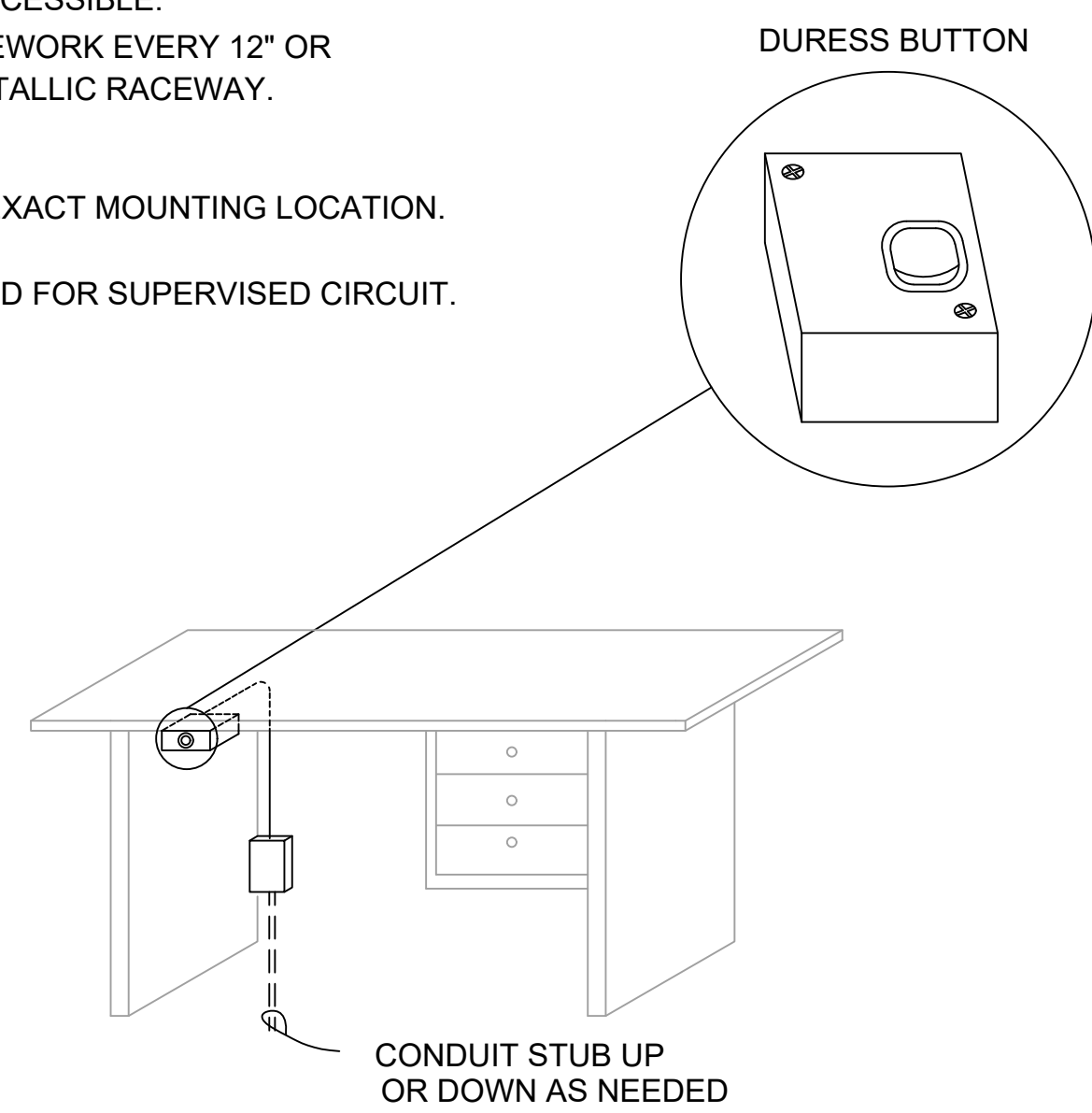
2 CARD READER MOUNTING DETAIL - MULLION MOUNT
N.T.S.



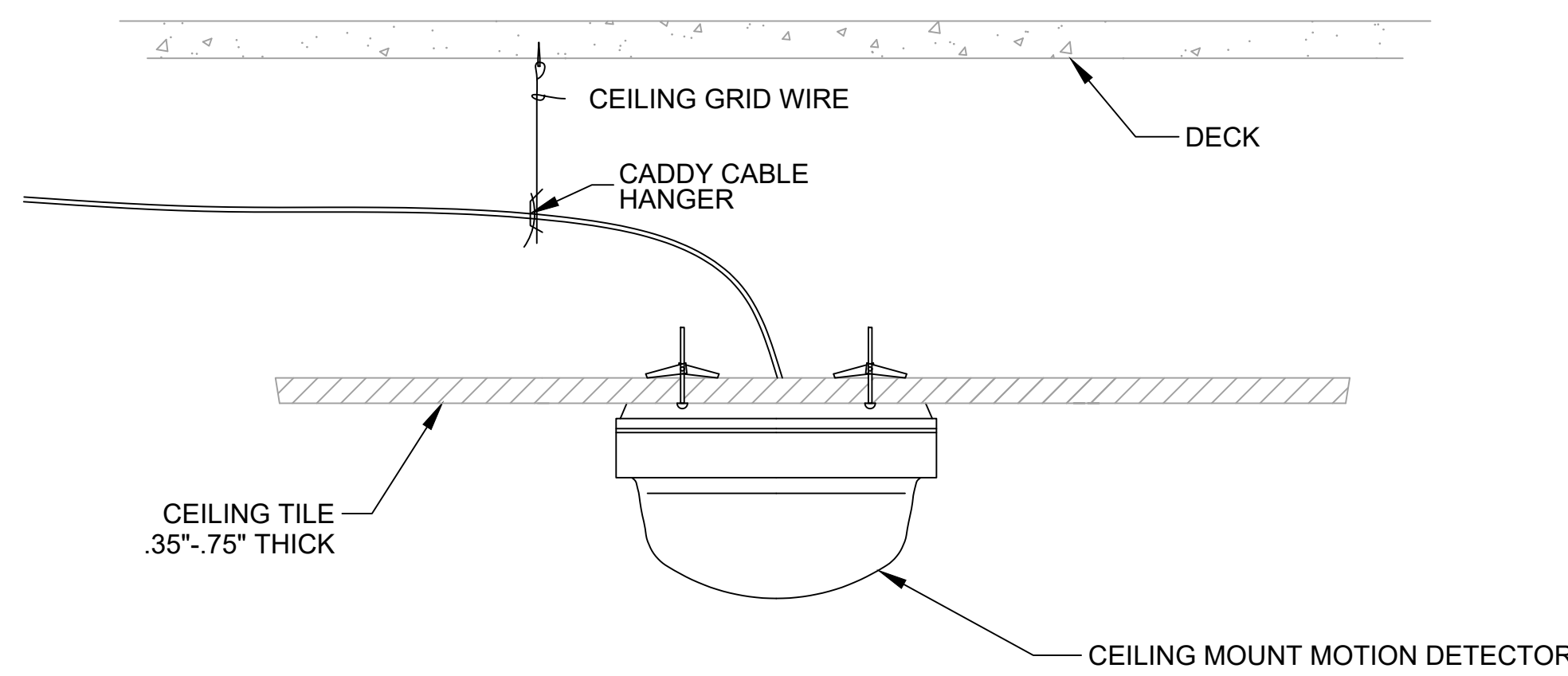
3 CONCEALED DOOR CONTACT MOUNTING DETAIL
N.T.S.

DRILL/PUNCH 3/4" DIA. HOLE OR DRILL PRESS SWITCH OR MAGNET IN PLACE. APPLICATION OF EPOXY OR CONTACT CEMENT MAY BE NECESSARY.
NOTES:
1. LEAVE 48" CABLE SLACK AT EACH DEVICE
2. BACK BOX NOT REQUIRED

NOTES:
ADEMCO MODEL 269R DURESS BUTTON.
WIRING SHALL BE RUN CONCEALED IN CASEWORK, WHERE WIRING HAS TO BE RUN EXPOSED & ACCESSIBLE. SECURELY ATTACH TO WALL AND CASEWORK EVERY 12" OR CONCEAL INSIDE SURFACE MOUNT METALLIC RACEWAY. SECURED TO WALL AND CASEWORK.
COORDINATE WITH ARCHITECTS FOR EXACT MOUNTING LOCATION.
PROVIDE E.O.L. RESISTOR AS REQUIRED FOR SUPERVISED CIRCUIT.

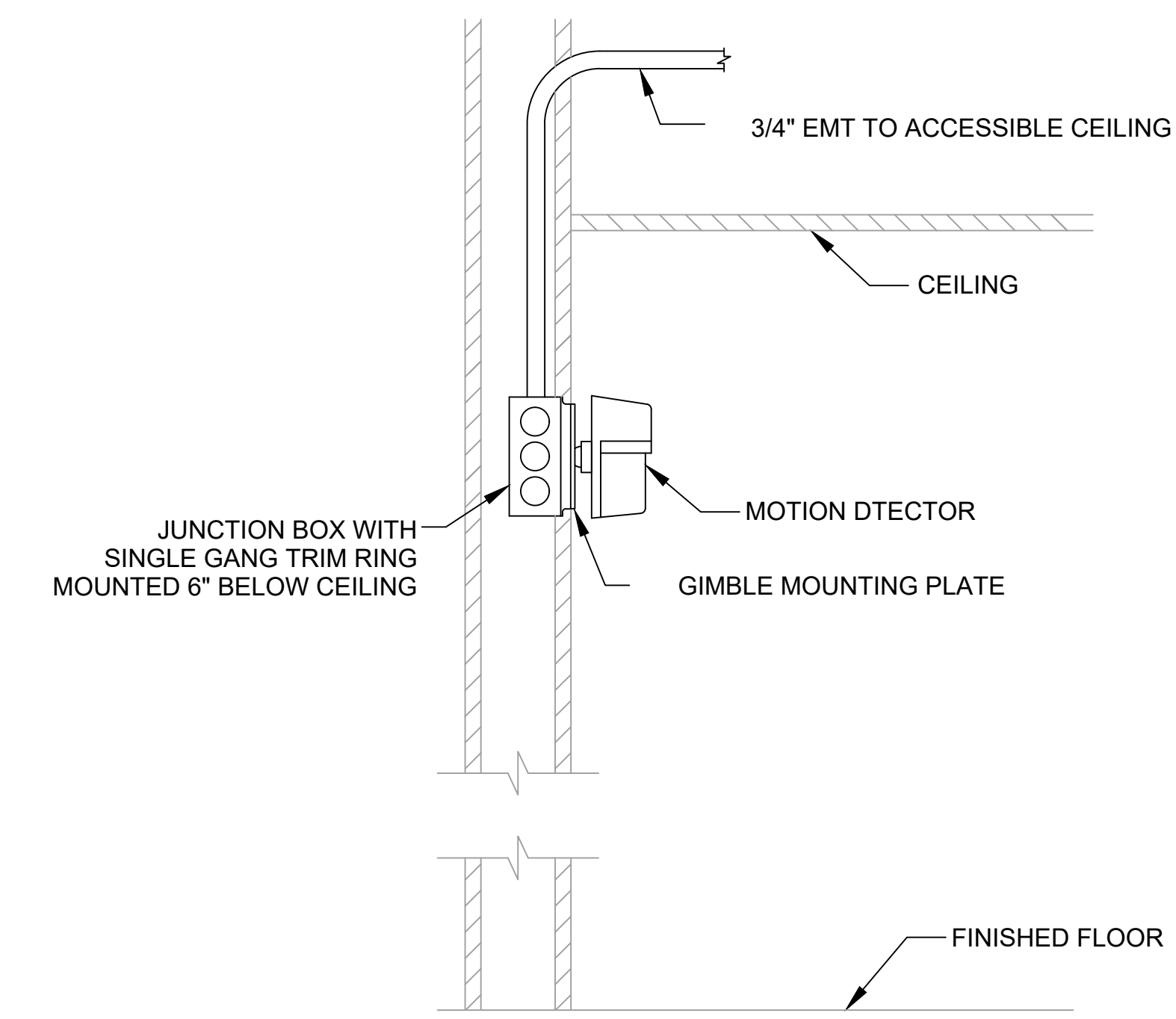


4 DURESS BUTTON MOUNTING DETAIL
N.T.S.

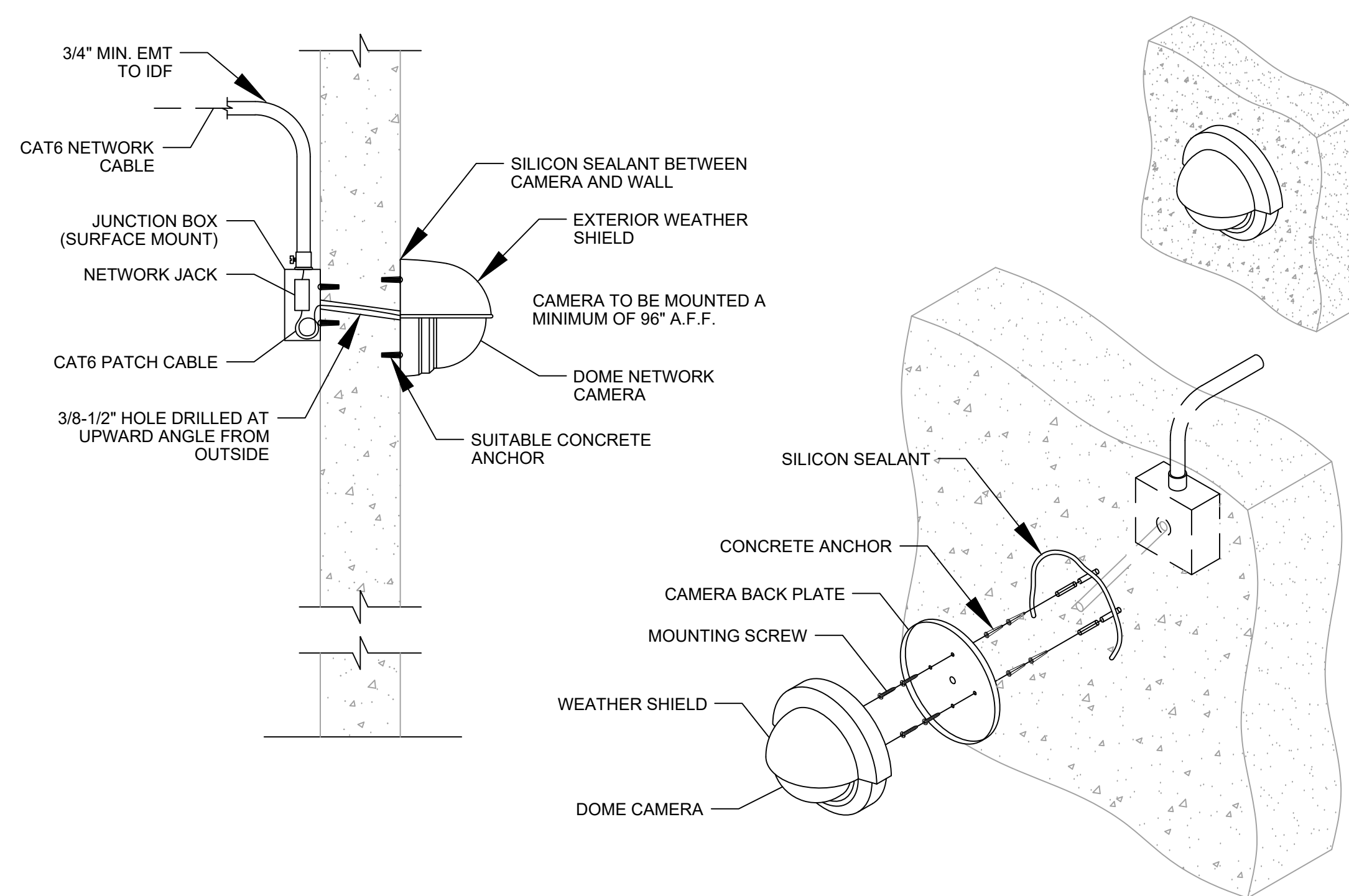


NOTES:
MOUNT MOTION DETECTOR ACCORDING TO MFG. RECOMMENDATION

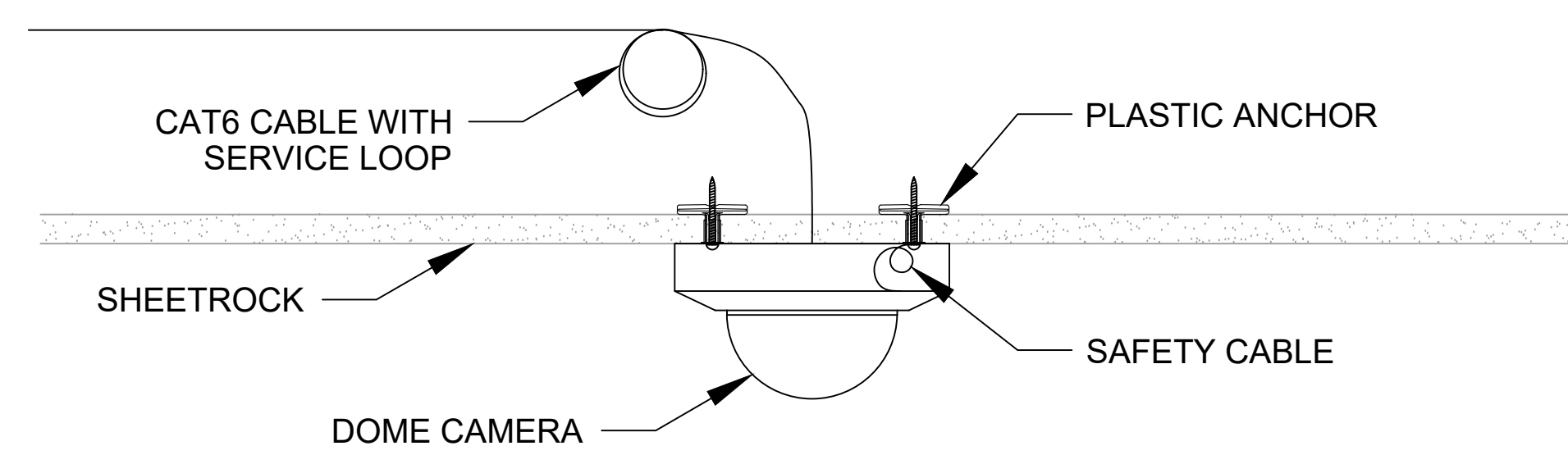
5 SUSPENDED CEILING MOTION DETECTOR MOUNTING DETAIL
N.T.S.



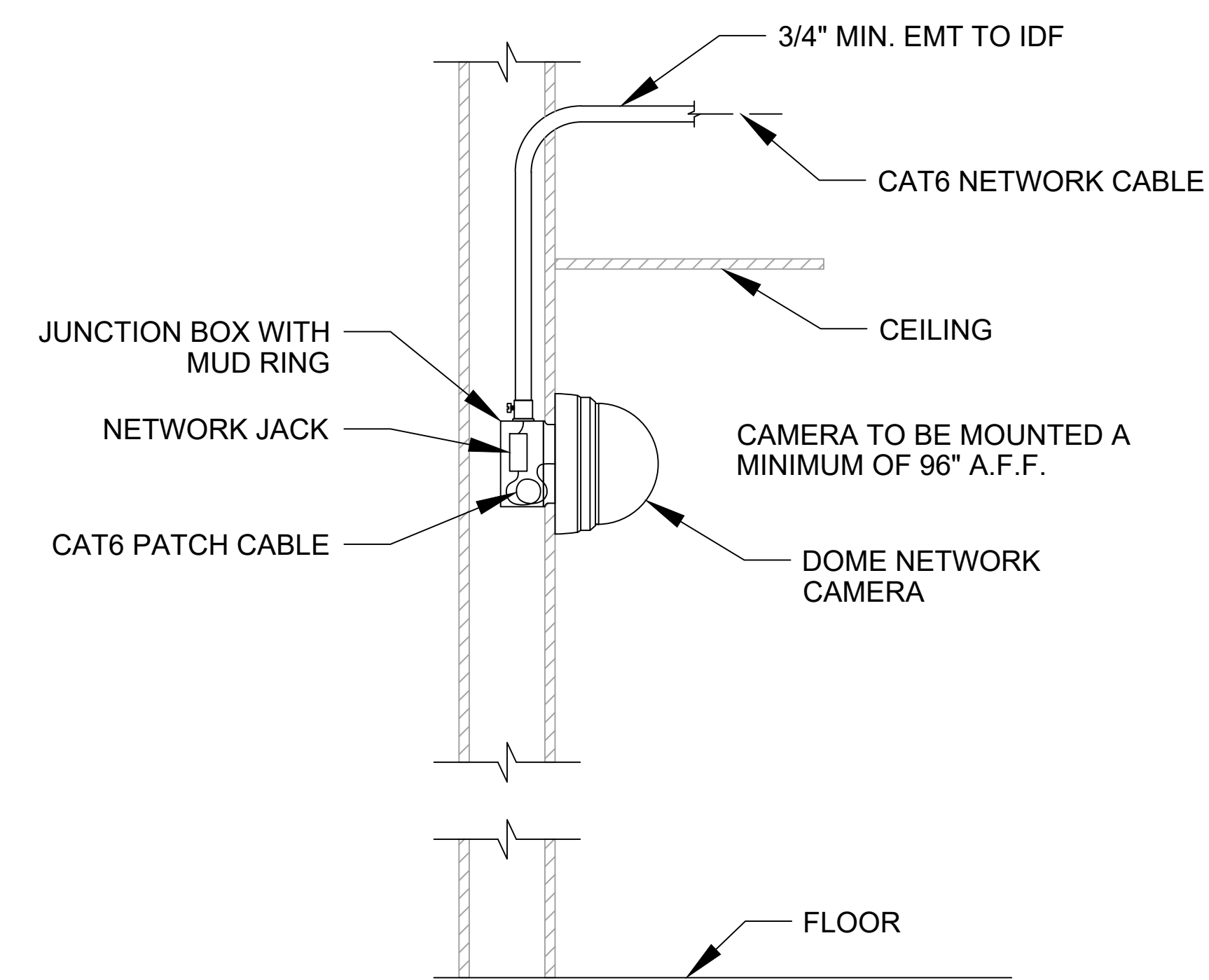
6 WALL MOUNT MOTION DETECTOR w/GIMBLE - MOUNTING DETAIL
N.T.S.



7 INTERIOR SURFACE MOUNT CAMERA - WALL MOUNT
N.T.S.



8 INTERIOR SURFACE MOUNT CAMERA - HARD CAP
N.T.S.



9 INTERIOR WALL MOUNT CAMERA - WITH CODUIT A J-BOX
N.T.S.

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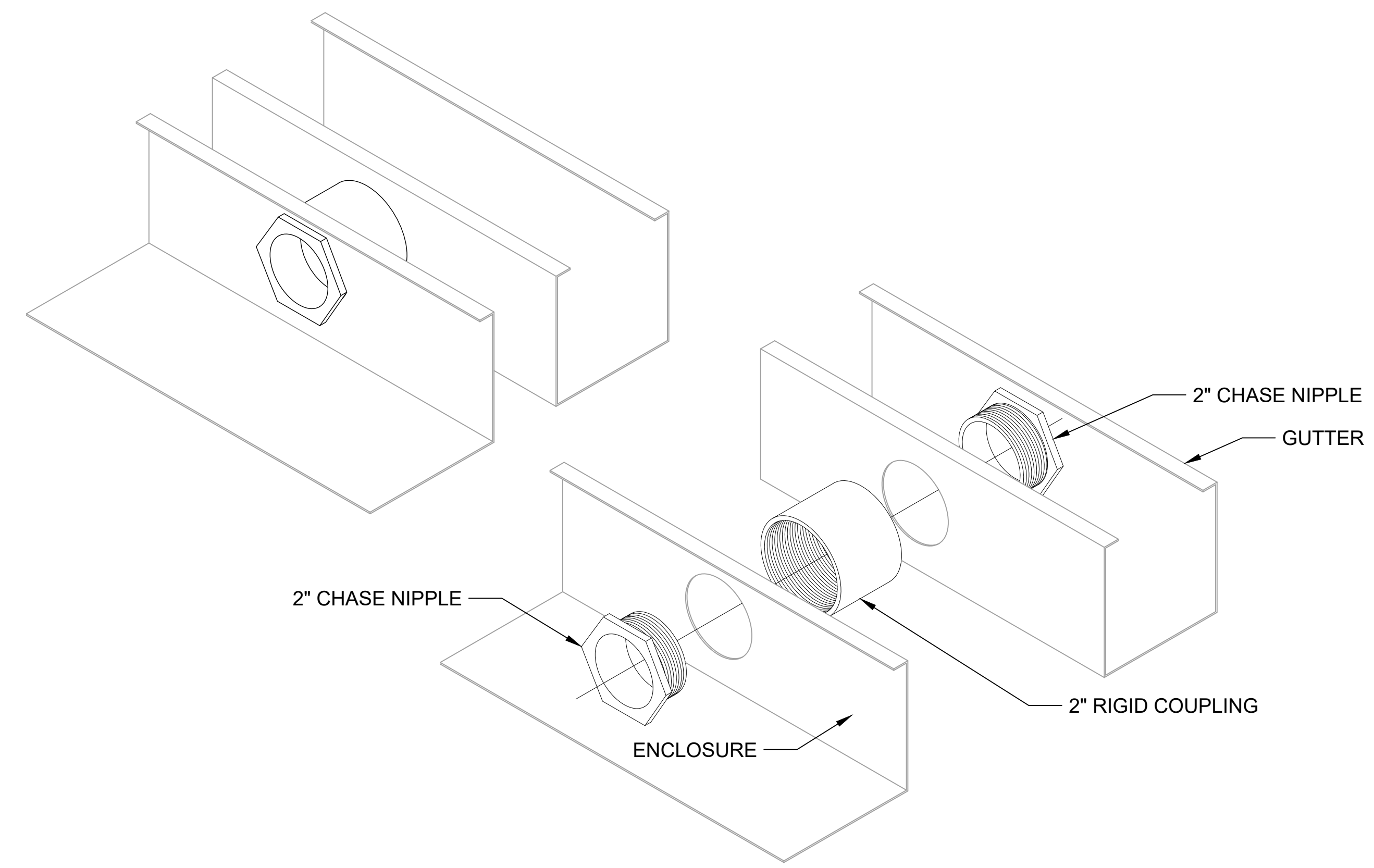
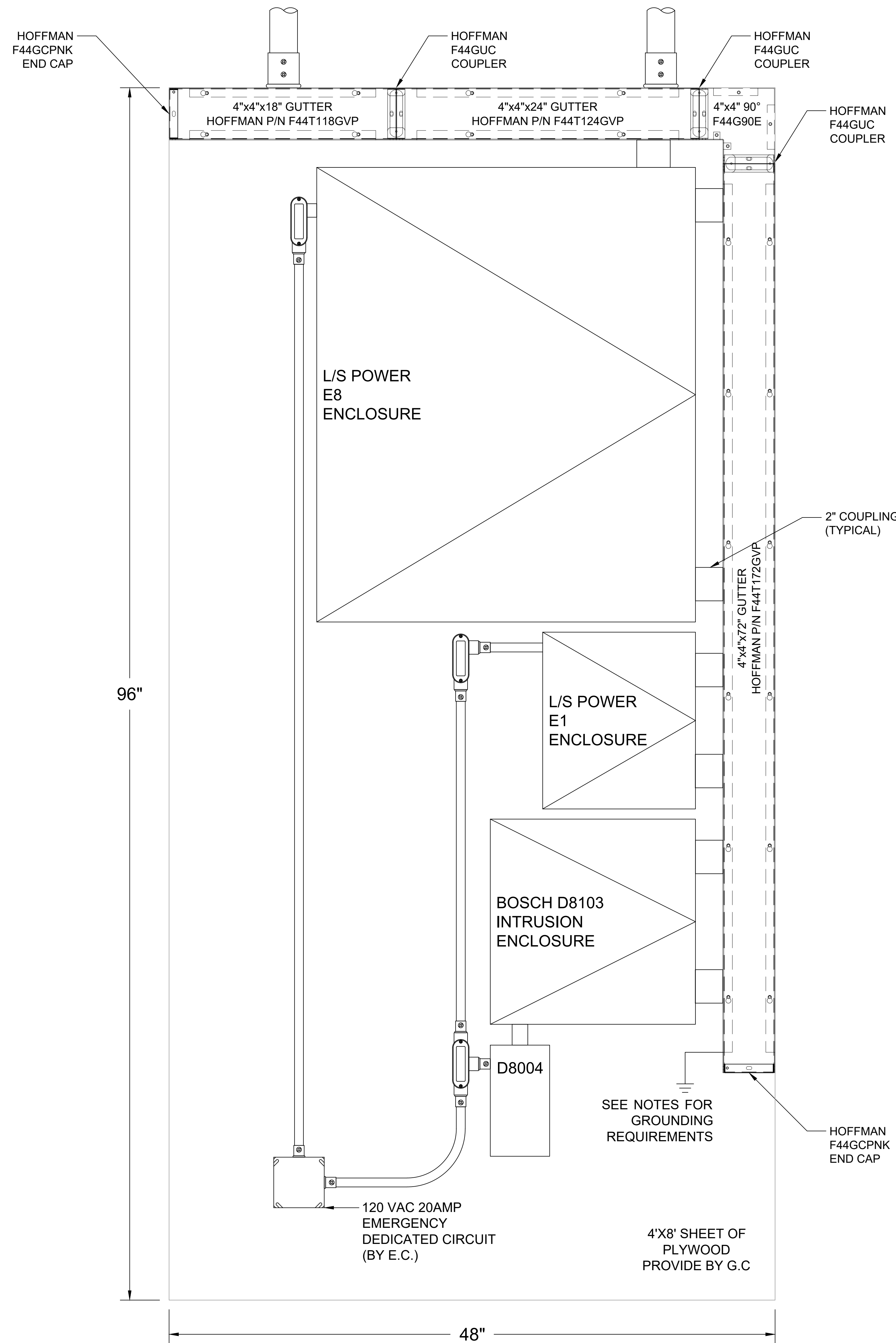
NETRONIX INTEGRATION
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GAVILAN JOINT COMMUNITY COLLEGE DISTRICT
DSA APP NO. 01-119906
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SHEET TITLE
DEVICE MOUNTING DETAILS
SHEET NUMBER
SE4.02

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NOTE: 120VAC MUST BE INSTALLED AS SHOWN. ENCLOSURES AND GUTTERS CAN NOT BE USED AS A RACEWAY TO RUN 120VAC. 120VAC MUST ENTER ENCLOSURES AS SHOWN TO KEEP LOW VOLTAGE SEPARATION FROM HIGH VOLTAGE.

GUTTERS AND ALL ENCLOSURES MUST BE GROUNDED TO TELECOM ROOM GROUND BUSS BAR. IF GROUND BUSS BAR NOT AVAILABLE, CONFIRM THAT AC CIRCUIT TO POWER SUPPLIES HAS A GROUND AND ALL ENCLOSURES AND GUTTERS ARE GROUNDED TO ELECTRICAL GROUND.

BILL OF MATERIAL

MANUFACTURER	DESCRIPTION	PART NUMBER	QTY.
LSP	ACCESS CONTROL ENCLOSURE	E8	1
LSP	POWER SUPPLY ENCLOSURE	E1	1
BOSCH	INTRUSION ENCLOSURE	D8103	1
BOSCH	TRANSFORMER ENCLOSURE	D8004	1
HOFFMAN	4"x4"x18" GUTTER	F44T118GVP	1
HOFFMAN	4"x4"x24" GUTTER	F44T124GVP	1
HOFFMAN	4"x4"x72" GUTTER	F44T172GVP	1
HOFFMAN	4"x4" - 90 ° CORNER GUTTER	F44G90E	1
HOFFMAN	4"x4" GUTTER END CAP	F44GCPNK	2
HOFFMAN	4"x4" GUTTER COUPLING	F44GUC	3
N/A	2" RIGID PIPE COUPLING	N/A	7
N/A	1" RIGID PIPE COUPLING	N/A	1
N/A	2" CHASE NIPPLE	N/A	10
N/A	1" CHASE NIPPLE	N/A	2

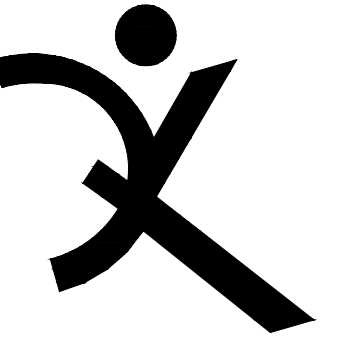
1 SECURITY EQUIPMENT SINGLE PANEL LAYOUT (TYPICAL)

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GAVILAN COLLEGE AV SYSTEMS

505 FAIRVIEW ROAD,
HOLLISTER, CA 95023

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
FACILITIES & ELECTRICAL DRAWINGS	
AV001	TITLE SHEET
AV002	STANDARD NOTES & ABBREVIATIONS
AV003	KEY PLAN
AV101	FACILITIES PLAN - SECTION A
AV102	FACILITIES PLAN - SECTION B
AV103	FACILITIES PLAN - SECTION C
AV201	ELECTRICAL PLAN - SECTION A
AV202	ELECTRICAL PLAN - SECTION B
AV203	ELECTRICAL PLAN - SECTION C
AV301	FACILITIES RCP - SECTION A
AV302	FACILITIES RCP - SECTION B
AV303	FACILITIES RCP - SECTION C
AV401	ELECTRICAL RCP - SECTION A
AV402	ELECTRICAL RCP - SECTION B
AV403	ELECTRICAL RCP - SECTION C
AV501	DETAILS & ELEVATIONS 1 OF 2
AV502	DETAILS & ELEVATIONS 2 OF 2
FUNCTIONAL DIAGRAMS	
AV701	COMMUNITY ROOM
AV702	GENERAL LECTURE
AV703	L&R CENTER, FLEX CLASS-STUDIO, COMPUTER LABS, SCIENCE LABS
AV704	OPEN COLLAB, CONFERENCE, SBCC, CAFE MENU, DS, SPARE ALS
AV901	RACK ELEVATIONS



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**GAVILAN
COLLEGE**

**NEW COLLEGE
CAMPUS**

505 FAIRVIEW ROAD
HOLLISTER, CA 95023

GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT

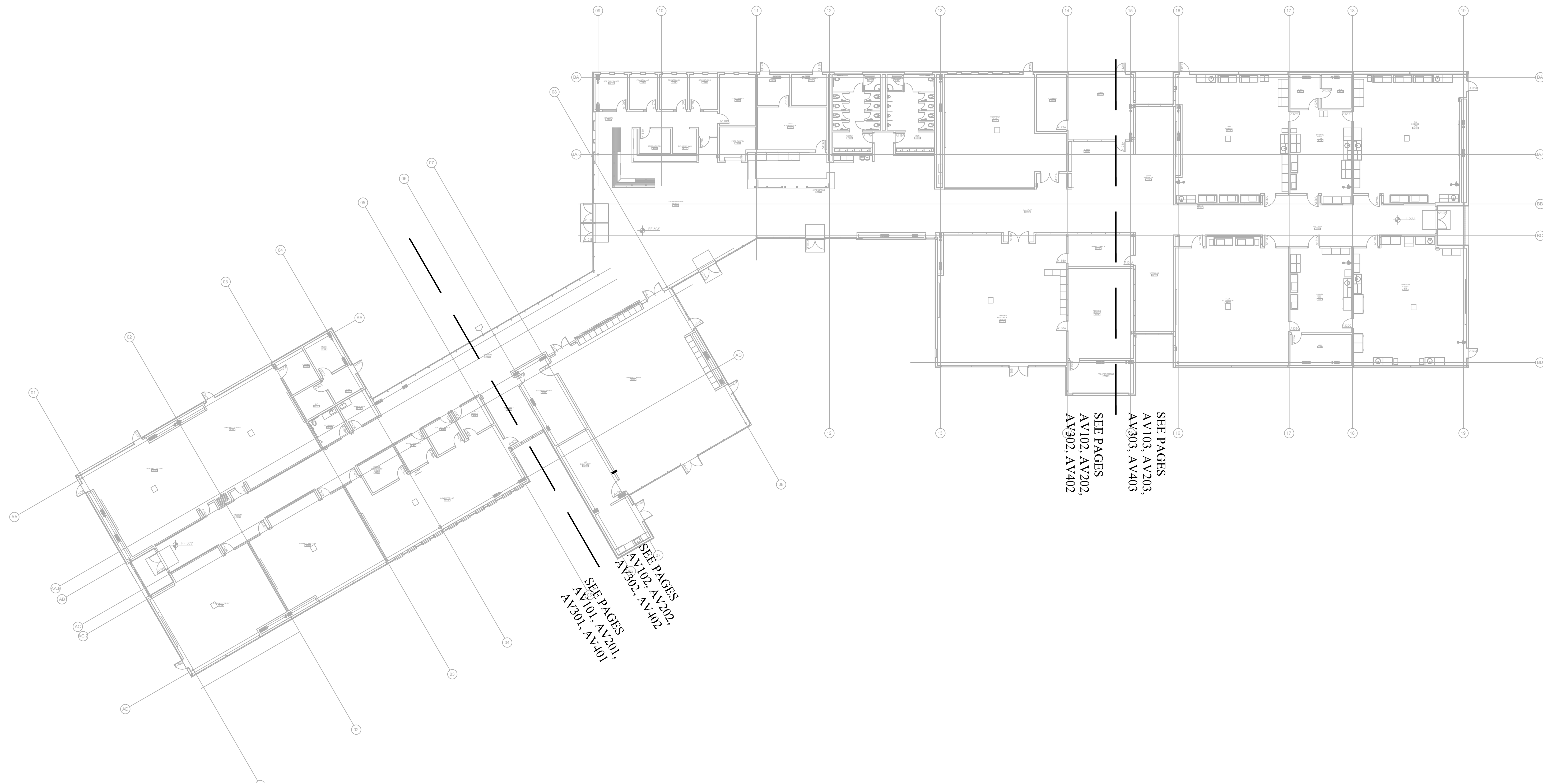
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DSA SUBMITTAL	
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SHEET TITLE	

TITLE SHEET

SHEET NUMBER

AV001

KEY PLAN LEGEND
 [Symbol] AREAS IN SCOPE



1 KEY PLAN
 SCALE: NTS



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KEY PLAN

SHEET NUMBER

AV003

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1 FACILITIES PLAN - FACILITIES PLAN - SECTION B
SCALE: 1/8" = 1'-0"

FACILITIES NOTES:

- A55** WALL MOUNTED 55" DISPLAY WITH WALL BOX BEHIND DISPLAY.
MFR. MODEL: T.B.D. (DISPLAY), SLIM PROFILE (MOUNT), CHIEF PAC326 (WALL BOX).
- A55A** WALL MOUNTED 55" DISPLAY.
MFR. MODEL: T.B.D. (DISPLAY), SLIM PROFILE (MOUNT).
- A65** WALL MOUNTED 65" DISPLAY WITH WALL BOX BEHIND DISPLAY.
MFR. MODEL: T.B.D. (DISPLAY), SLIM PROFILE (MOUNT), CHIEF PAC326 (WALL BOX).
- A85** WALL MOUNTED 85" DISPLAY WITH WALL BOX BEHIND DISPLAY.
MFR. MODEL: T.B.D. (DISPLAY), SLIM PROFILE (MOUNT), CHIEF PAC326 (WALL BOX).
- ALL** WALL MOUNTED ASSISTED LISTENING ANTENNA.
MFR. MODEL: T.B.D. (ANTENNA).
- BPI** WALL MOUNTED BUTTON PANEL.
MFR. MODEL: T.B.D. (BUTTON PANEL).
- CI** WALL MOUNTED PTZ CAMERA.
MFR. MODEL: VADDDO 999-9950-200W (CAMERA), VADDDO 999-2225-021 (RECESSED MOUNT).
- CMU** TABLE MOUNTED 22" CONFERENCE MONITOR.
MFR. MODEL: T.B.D. (MONITOR), T.B.D. (MOUNT).
- FBI** MULTI-TRADE IN FLOOR BOX. SEE ELECTRICAL PLANS FOR REQUESTED LOADOUT FOR AV USE ONLY.
MFR. MODEL: T.B.D. (FLOORBOX).
- IOI** WALL MOUNTED AV INPUT/OUTPUT PLATE.
MFR. MODEL: T.B.D. (PLATE).
- IPI** WALL MOUNTED AV HDMI INPUT PLATE.
MFR. MODEL: EXTRON WPD 100 (70-726-63) (PLATE).
- RI** DESK MOUNTED AV RACK.
MFR. MODEL: T.B.D. (RACK).
- R2** FLOOR MOUNTED AV RACK.
MFR. MODEL: T.B.D. (RACK).
- PSI** WALL MOUNTED 123" DIAGONAL 16:10 PROJECTION SCREEN.
MFR. MODEL: T.B.D. (SCREEN).
- SPI** WALL MOUNTED LOUDSPEAKER.
MFR. MODEL: T.B.D.
- TPI** 7" TABLE STANDING ROOM TOUCH PANEL.
MFR. MODEL: EXTRON TLP PRO 7321 (60-1562-02) (CONTROL PANEL).
- VW** WALL MOUNTED 135" VIDEO WALL.
MFR. MODEL: T.B.D. (VIDEO WALL), T.B.D. (MOUNT).
- WPI** WALL MOUNTED WIRELESS MICROPHONE WAP.
MFR. MODEL: SHURE MXWAPTS (WAP).



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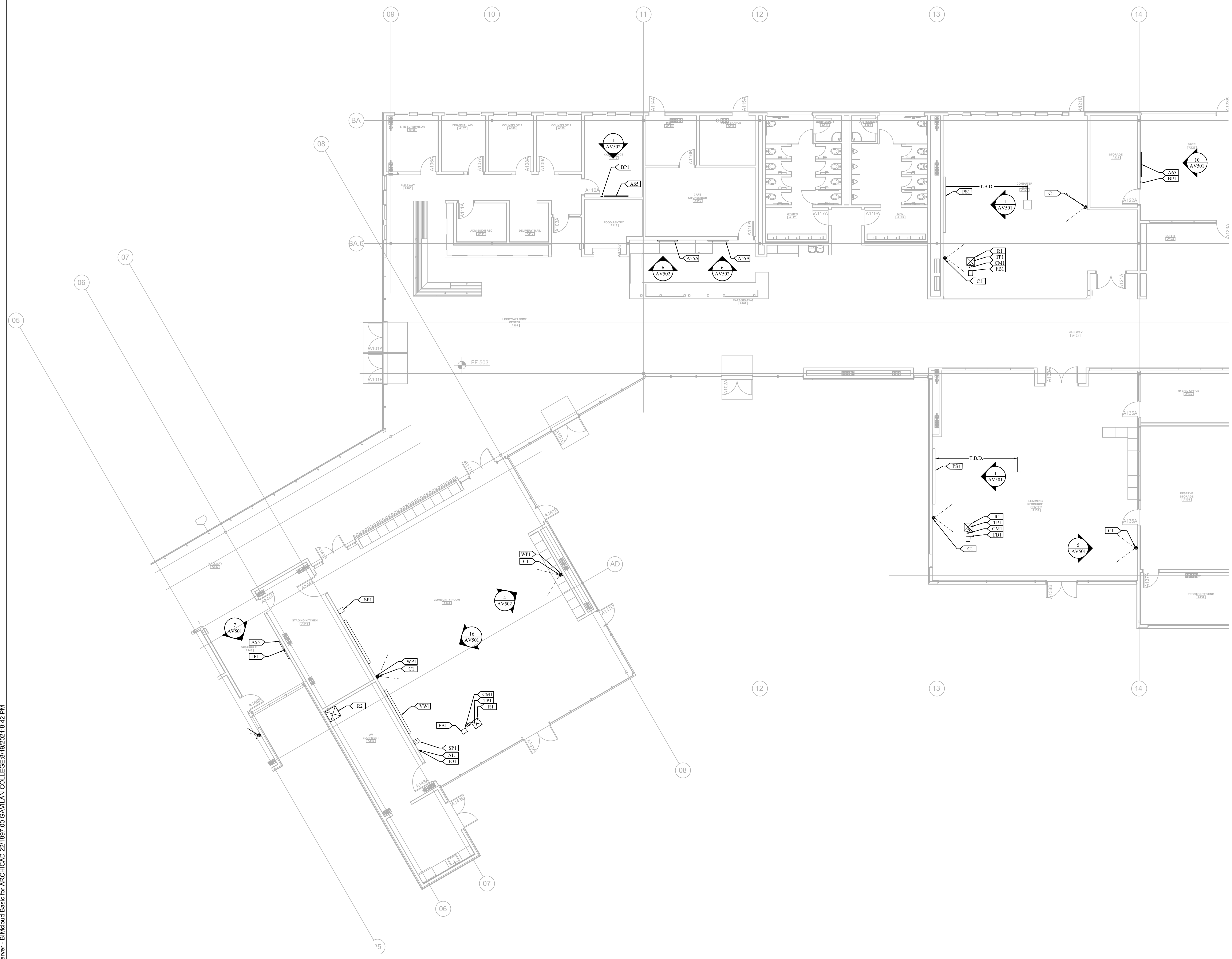
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SHEET TITLE	

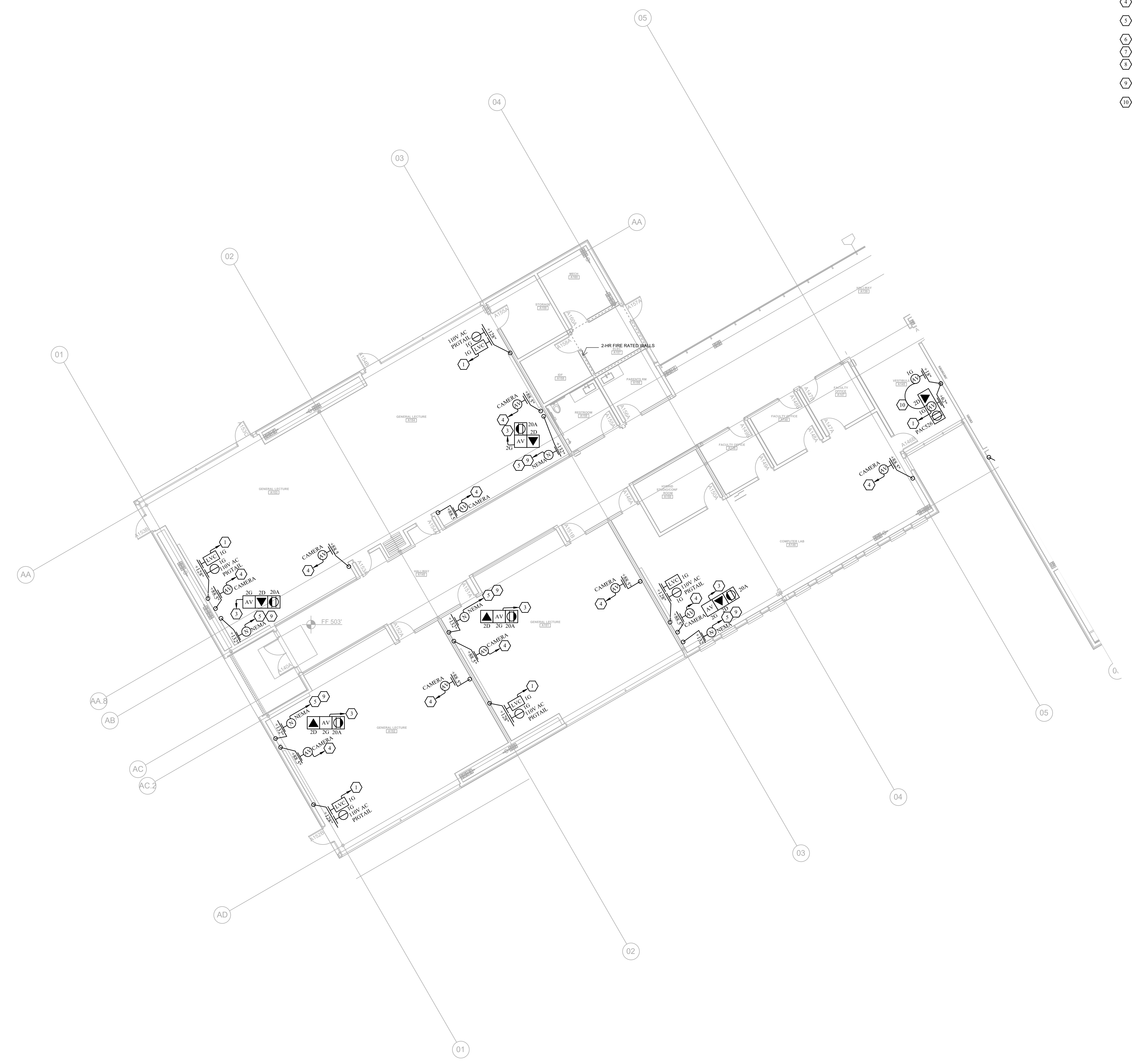
FACILITIES PLAN - SECTION B

SHEET NUMBER
AV102



ELECTRICAL NOTES:

- NOTE 1: ALL ELECTRICAL PLAN INFORMATION IS A SUGGESTION. HEIGHTS AND LOCATIONS FOR ALL AV EQUIPMENT TO BE CONFIRMED BY THE PROJECT ARCHITECT OR GENERAL CONTRACTOR.
- NOTE 2: ALL HEIGHTS NOTED ON THESE PLANS ARE TO CENTERLINE OF BOX, OUTLET OR CONDUIT.
- NOTE 3: ALL CONDUITS AND INFRASTRUCTURE REQUESTED ARE FOR AV USE ONLY AND WILL NOT BE SHARED WITH ANY OTHER CONTRACTOR.
- NOTE 4: DATA DROPS AND ANY DATA CONDUITS REFER TO DATA CONTRACTORS PLANS. AV REQUESTS DATA DROPS AS SHOWN AND ARE FOR AV USE ONLY.
- 1 PROVIDE 3/4" CONDUIT TO AV COLLECTION BOX VIA ACCESSIBLE CEILING SPACE.
 - 2 PROVIDE 1-1/4" CONDUIT TO AV COLLECTION BOX IN ACCESSIBLE CEILING SPACE.
 - 3 PROVIDE 2 X 1-1/4" CONDUITS VIA FLOORCORE TO AV COLLECTION BOX IN ACCESSIBLE CEILING SPACE.
 - 4 PROVIDE 1" CONDUIT FROM BOX TO AV COLLECTION BOX VIA ACCESSIBLE CEILING SPACE.
 - 5 PROVIDE 2 X 1-1/4" CONDUITS FROM NEMA COLLECTION BOX TO FLOORBOX LOCATION VIA FLOORCORE.
 - 6 PROVIDE 3 X 1.25" CONDUITS TO OVERHEAD CABLE TRAY.
 - 7 PROVIDE 2 X 1.25" CONDUIT BETWEEN BOXES.
 - 8 PROVIDE 2 X 1.25" CONDUITS FROM AV COLLECTION TO BOX TO AV RACK LOCATION VIA CONDUIT SLEEVES AND CABLE TRAY.
 - 9 PROVIDE 2 X 1-1/4" CONDUIT STUBS AT AV COLLECTION BOX FOR AV CABLE ROUTING.
 - 10 PROVIDE 1-1/4" CONDUIT BETWEEN BOXES.



1 ELECTRICAL PLAN - ELECTRICAL PLAN - SECTION A
SCALE: 1/8" = 1'-0"

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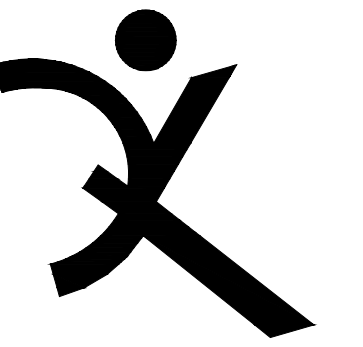
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ARCH PROJECT NO.	1897.00
DRAWN BY:	
DRAWING SCALE:	
PTN:	N/A
FILE NO:	43-C4
DSA SUBMITTAL	
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SHEET TITLE	

ELECTRICAL PLAN - SECTION A

SHEET NUMBER
AV201

FACILITIES REFLECTED CEILING NOTES:

- (C1) CEILING MOUNTED LHD PTZ CAMERA. MFR./MODEL: T.B.D. (CAMERA). VADDIO 999-8200-000 (CEILING MOUNT).
- (M1) CEILING MOUNTED FROM POLE, MULTI-ELEMENT MICROPHONE. SEE DETAIL 10/AV-502. MFR./MODEL: SHURE MXA910 (ANTENNA).
- (P1) CEILING MOUNTED PROJECTOR. SEE DETAIL 9/AV-502. MFR./MODEL: T.B.D. (PROJECTOR), T.B.D. (MOUNT), T.B.D. (CEILING INTERFACE BRACKET), T.B.D. (POLE).
- (S1) CEILING MOUNTED PENDENT LOUDSPEAKER. SEE DETAIL 8/AV-502. MFR./MODEL: EXTRON SF 26PT [60-1752-03] (LOUDSPEAKER).
- (S2) CEILING MOUNTED PENDENT LOUDSPEAKER. BOTTOM OF SPEAKER TO MATCH BOTTOM OF SOFFIT AT +17' AFF. SEE DETAIL 8/AV-502. MFR./MODEL: T.B.D. (LOUDSPEAKER).



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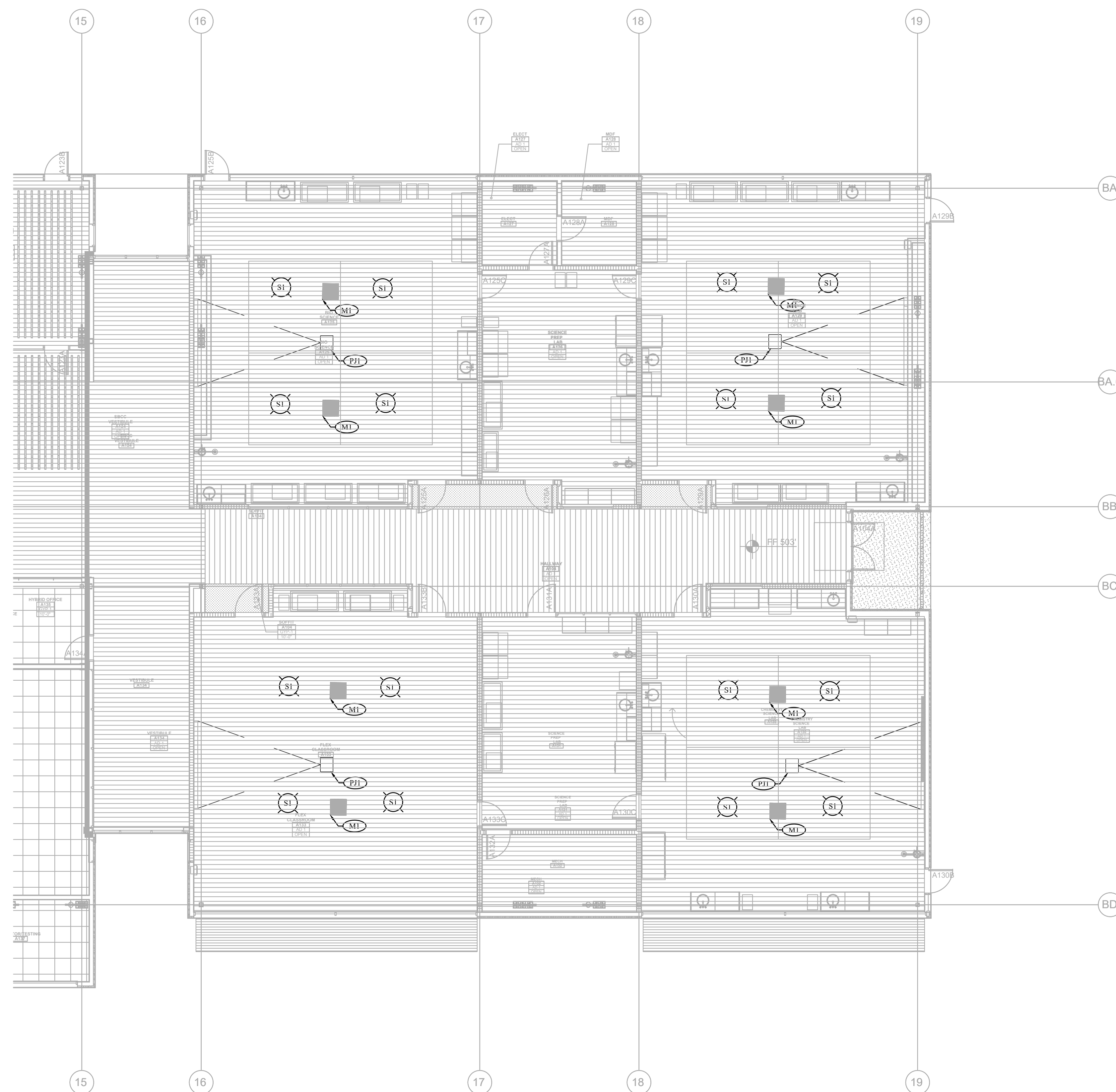
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FACILITIES RCP - SECTION C

SHEET NUMBER

AV303



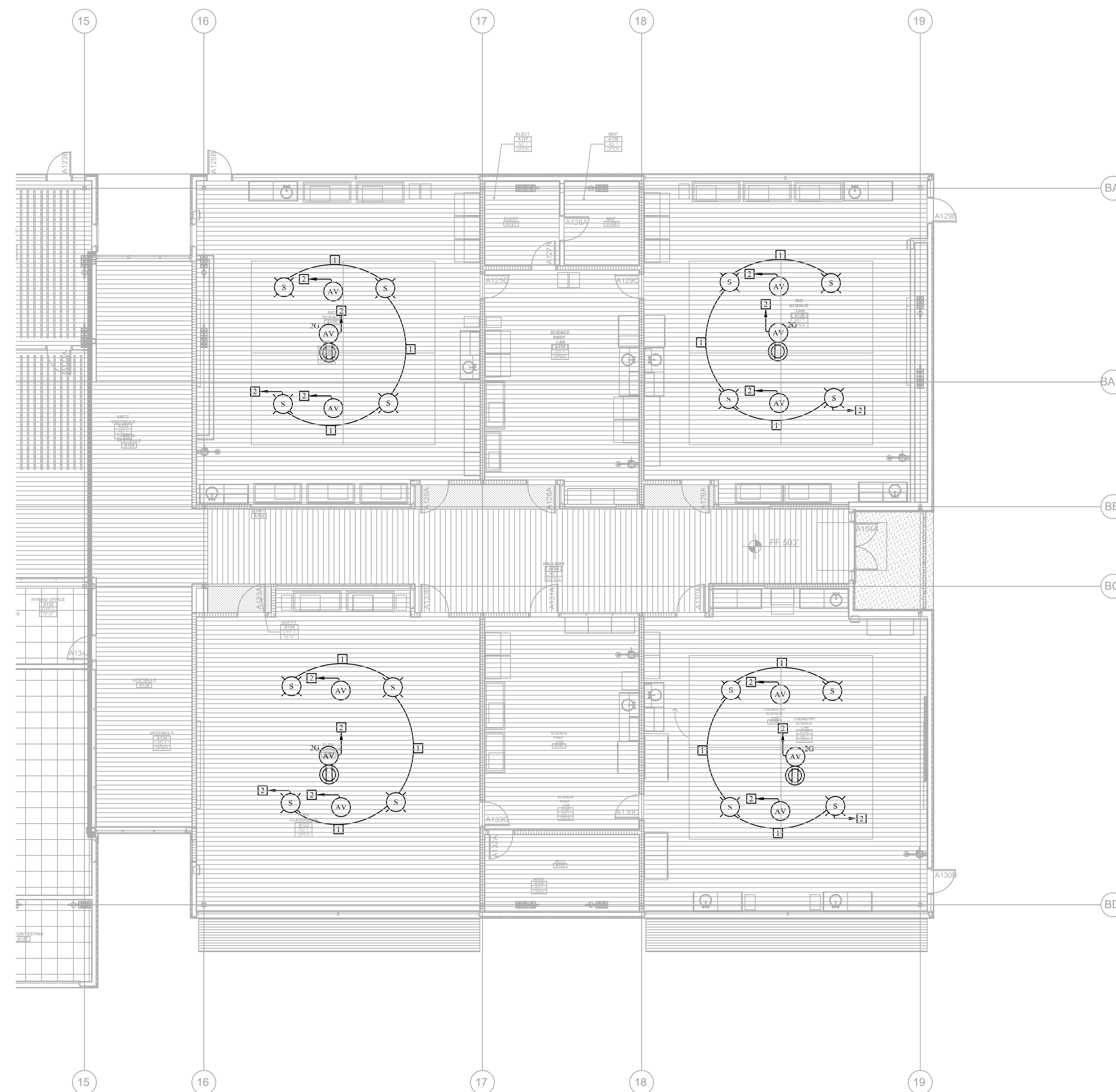
1 FACILITIES REFLECTED CEILING PLAN - FACILITIES RCP - SECTION C
 SCALE: 1/8" = 1'-0"

ELECTRICAL REFLECTED CEILING NOTES:

NOTE 1: ALL ELECTRICAL PLAN INFORMATION IS A SUGGESTION. HEIGHTS AND LOCATIONS FOR ALL AV EQUIPMENT TO BE CONFIRMED BY THE PROJECT ARCHITECT OR GENERAL CONTRACTOR.

NOTE 2: ALL HEIGHTS NOTED ON THESE PLANS ARE TO CENTERLINE OF BOX, OUTLET OR CONDUIT.

- 1 PROVIDE CABLE PATHWAY VIA 3/4" FLEX CONDUIT OR FREEFLOAT CABLE FROM SPEAKER TO SPEAKER.
- 2 PROVIDE CABLE PATHWAY TO CONDUIT STUB ABOVE AV RACK LOCATION.
- 3 PROVIDE 2 X 2" CONDUIT SLEEVES BETWEEN ROOMS.



1 ELECTRICAL REFLECTED CEILING PLAN - ELECTRICAL RCP - SECTION C
SCALE: 1/8" = 1'-0"



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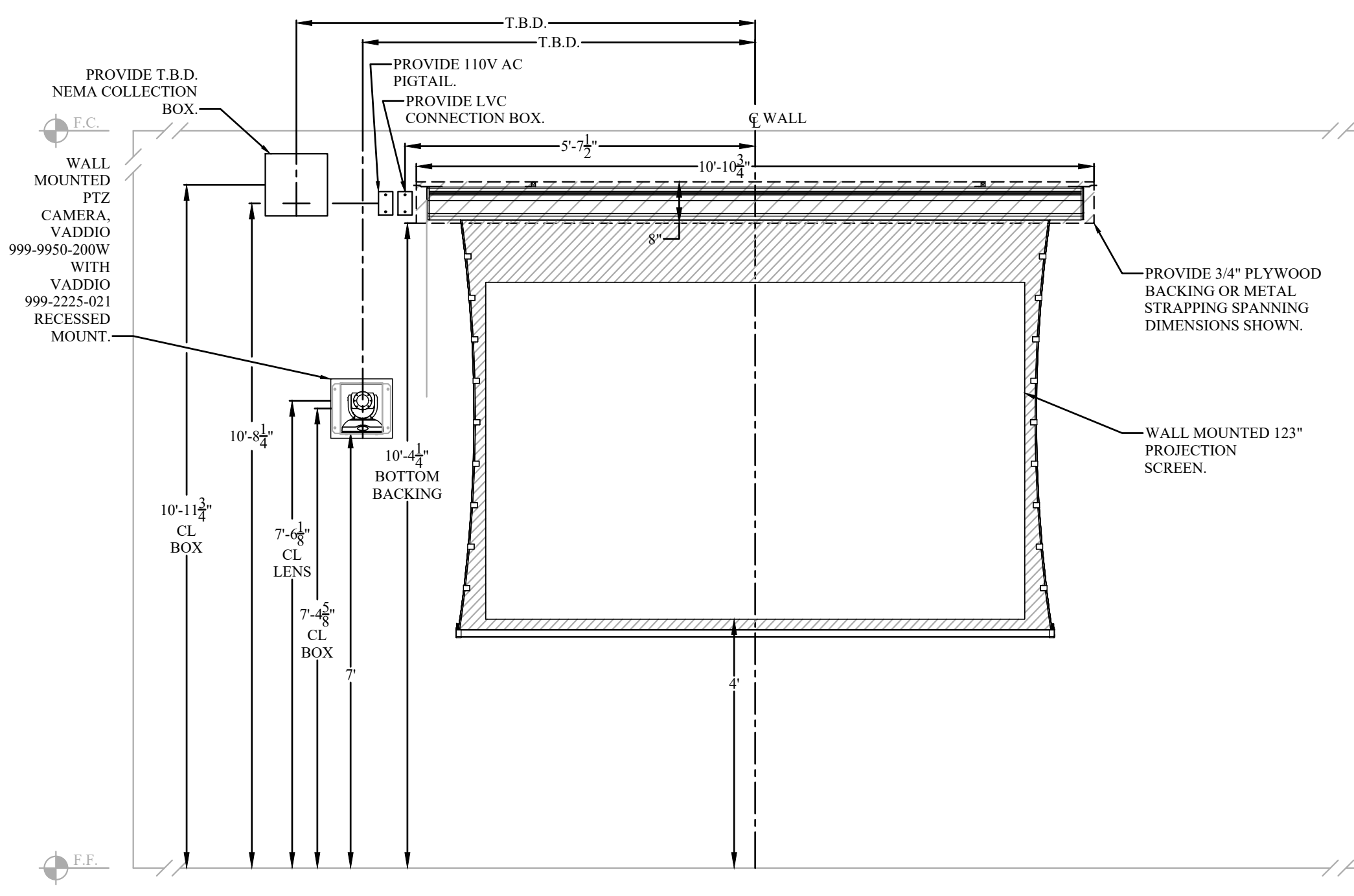
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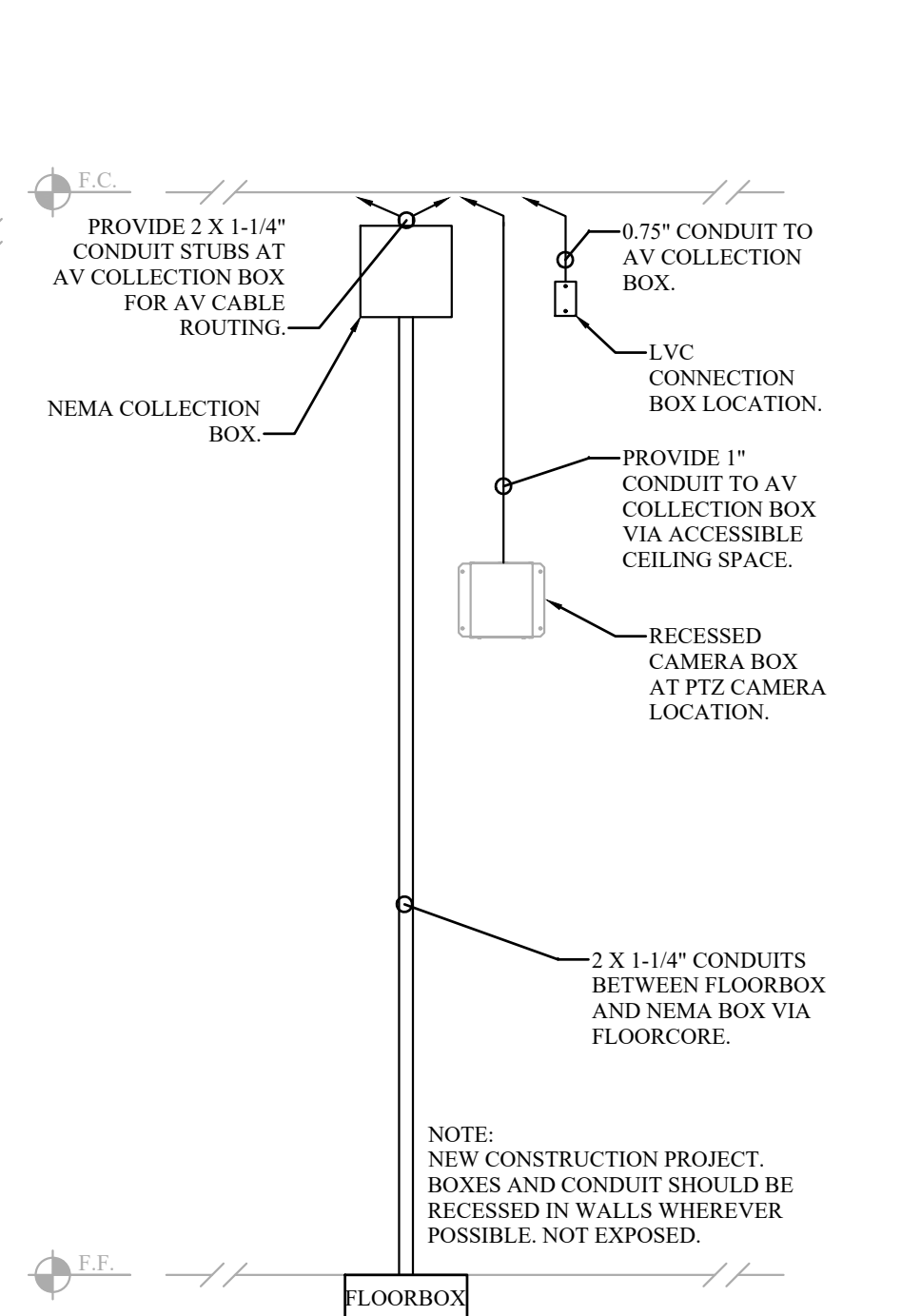
**ELECTRICAL RCP
- SECTION C**

SHEET NUMBER

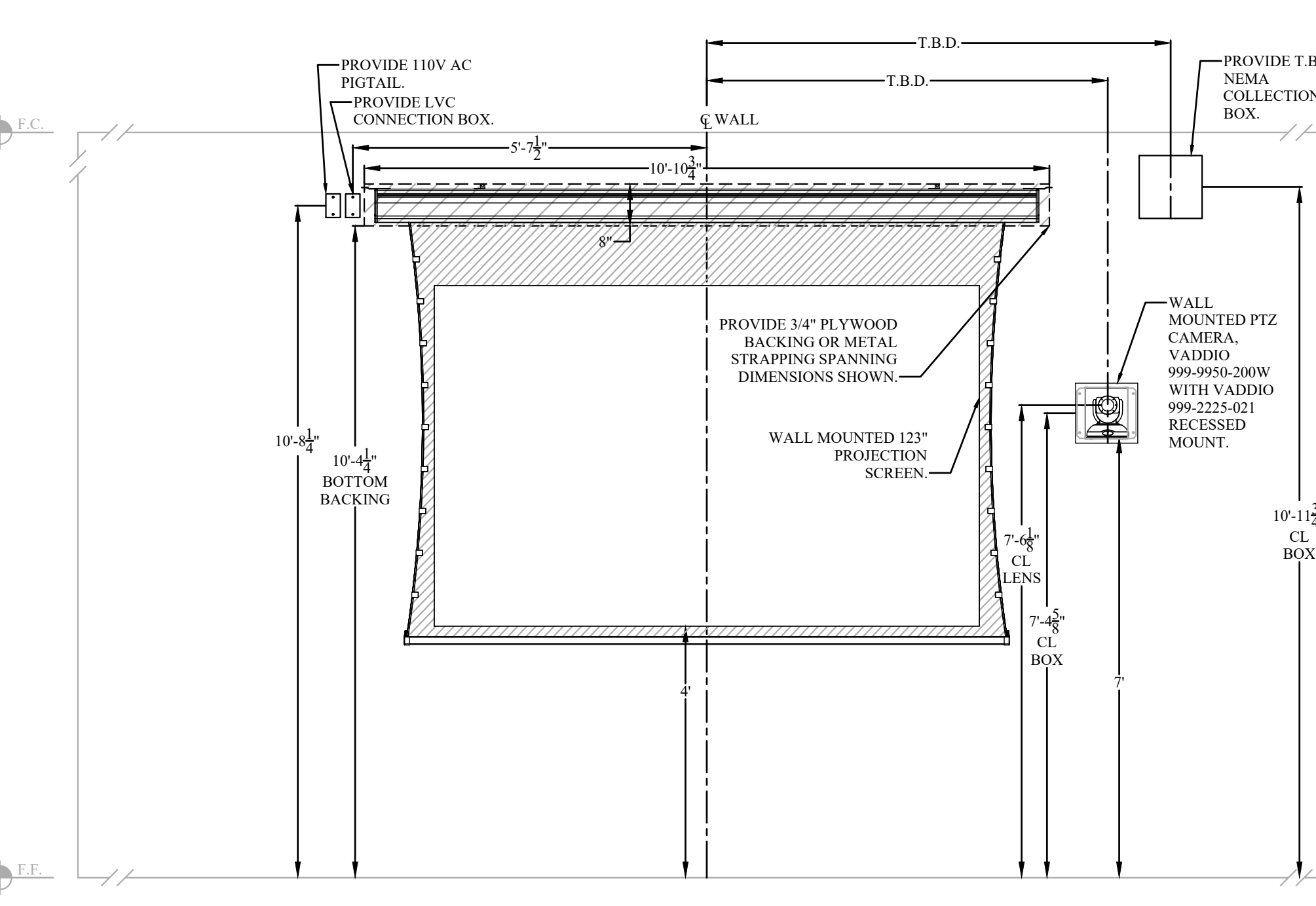
AV403



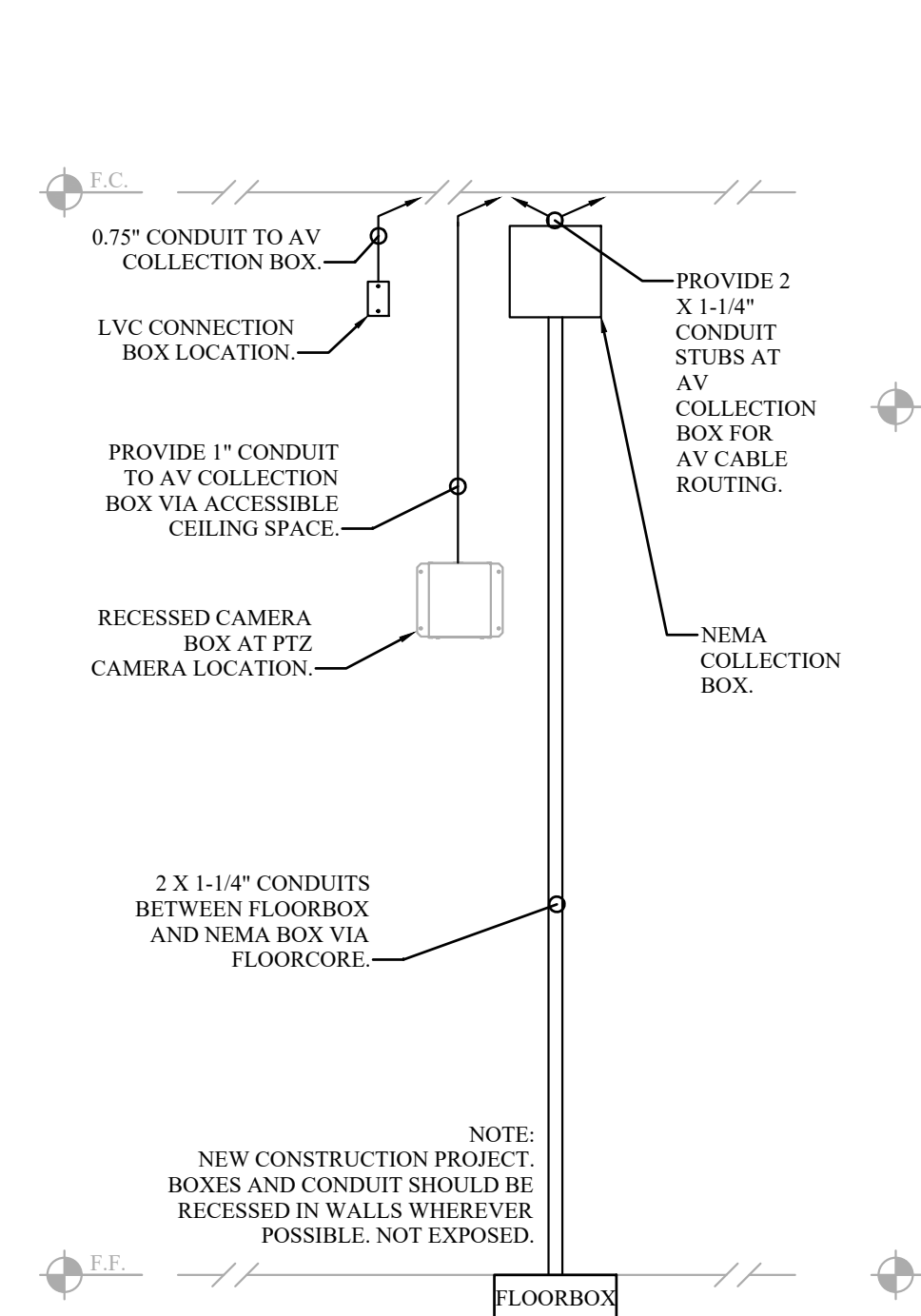
1 DISPLAY ELEVATION - GENERAL LECTURE 153, COMPUTER LAB 121, 146, SCIENCE A125, FLEX CLASSROOM A133
SCALE: 1/2" = 1'-0"



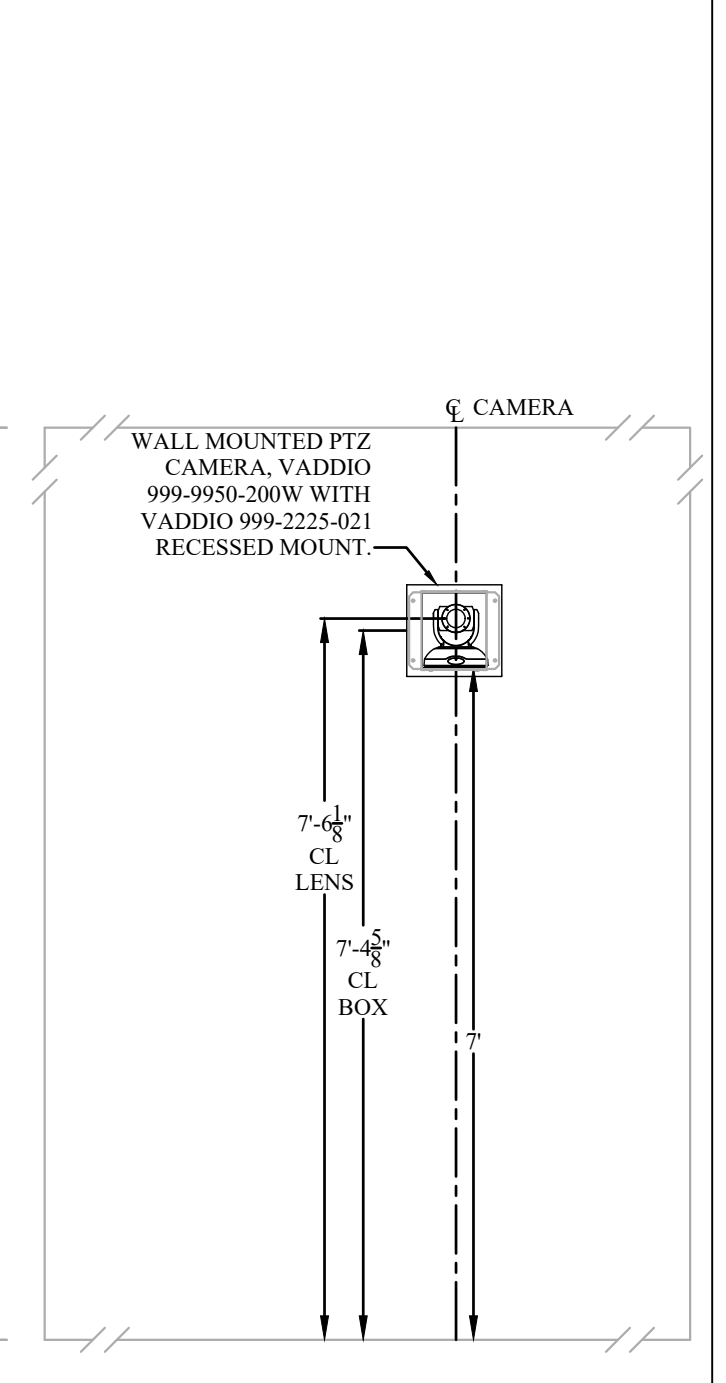
2 RISER ELEVATION - GENERAL LECTURE 153, COMPUTER LAB 121, 146, SCIENCE A125, FLEX CLASSROOM A133
SCALE: 1/2" = 1'-0"



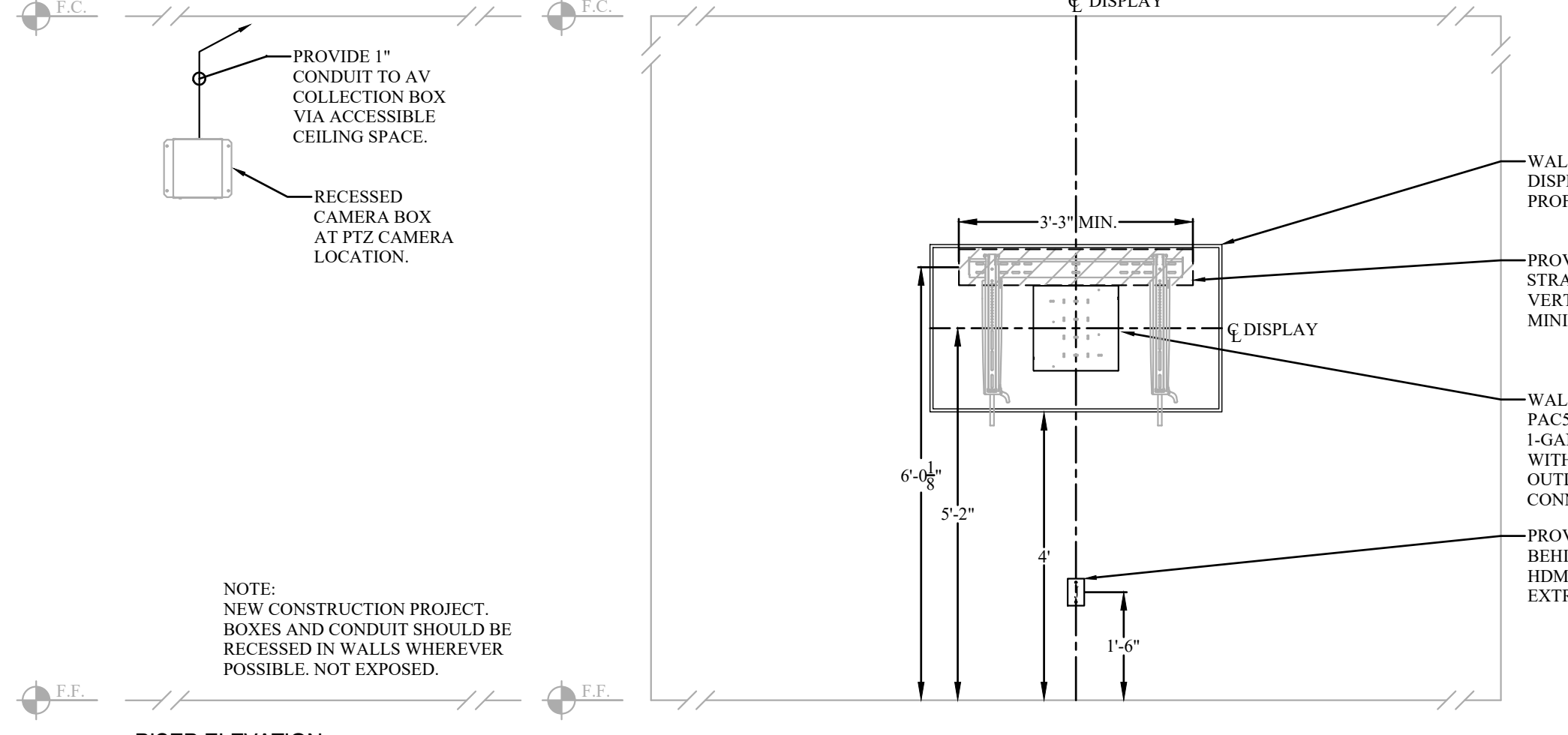
3 DISPLAY ELEVATION - GENERAL LECTURE 151, 152, 154, SCIENCE A129, A130
SCALE: 1/2" = 1'-0"



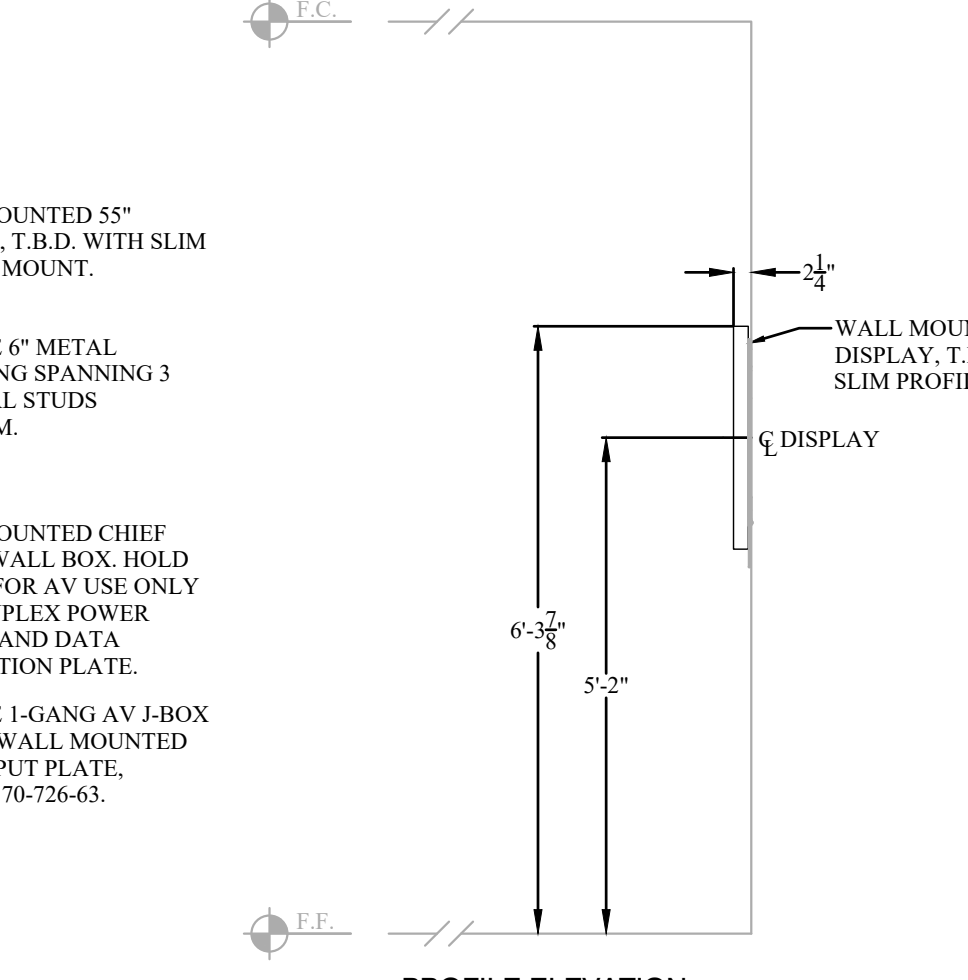
4 PROFILE ELEVATION - GENERAL LECTURE 151, 152, 154, SCIENCE A129, A130
SCALE: 1/2" = 1'-0"



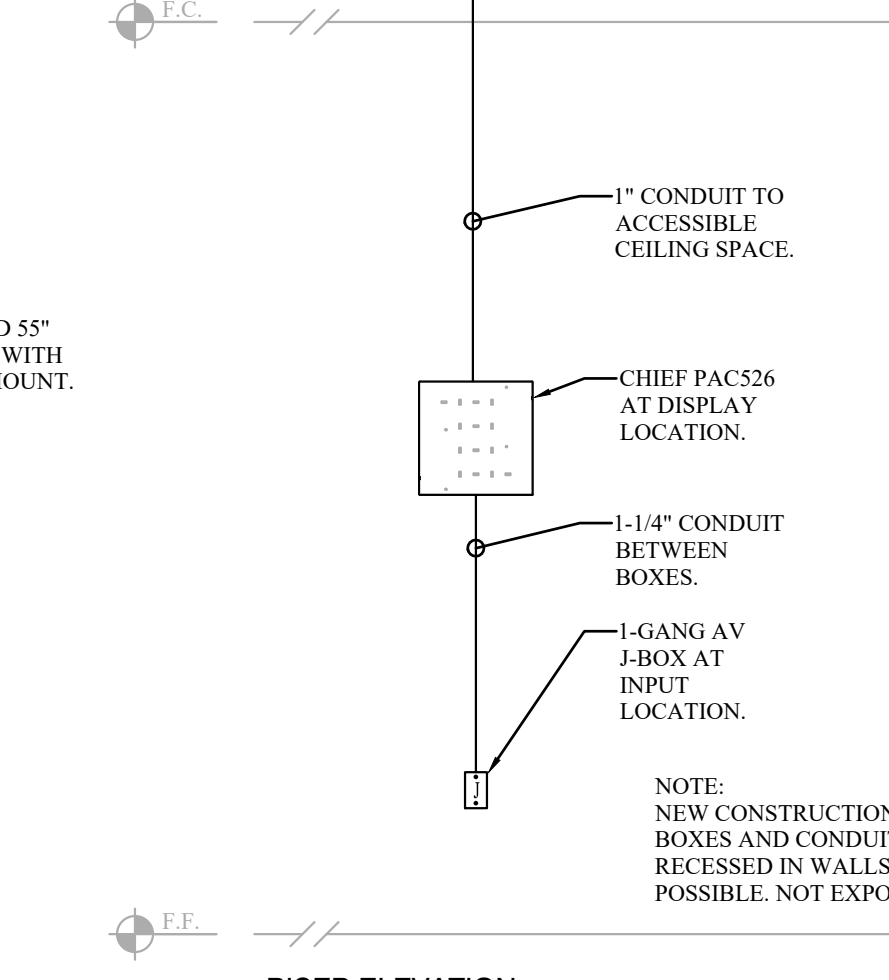
5 TYPICAL ELEVATION - IN-WALL PTZ CAMERA
SCALE: 1/2" = 1'-0"



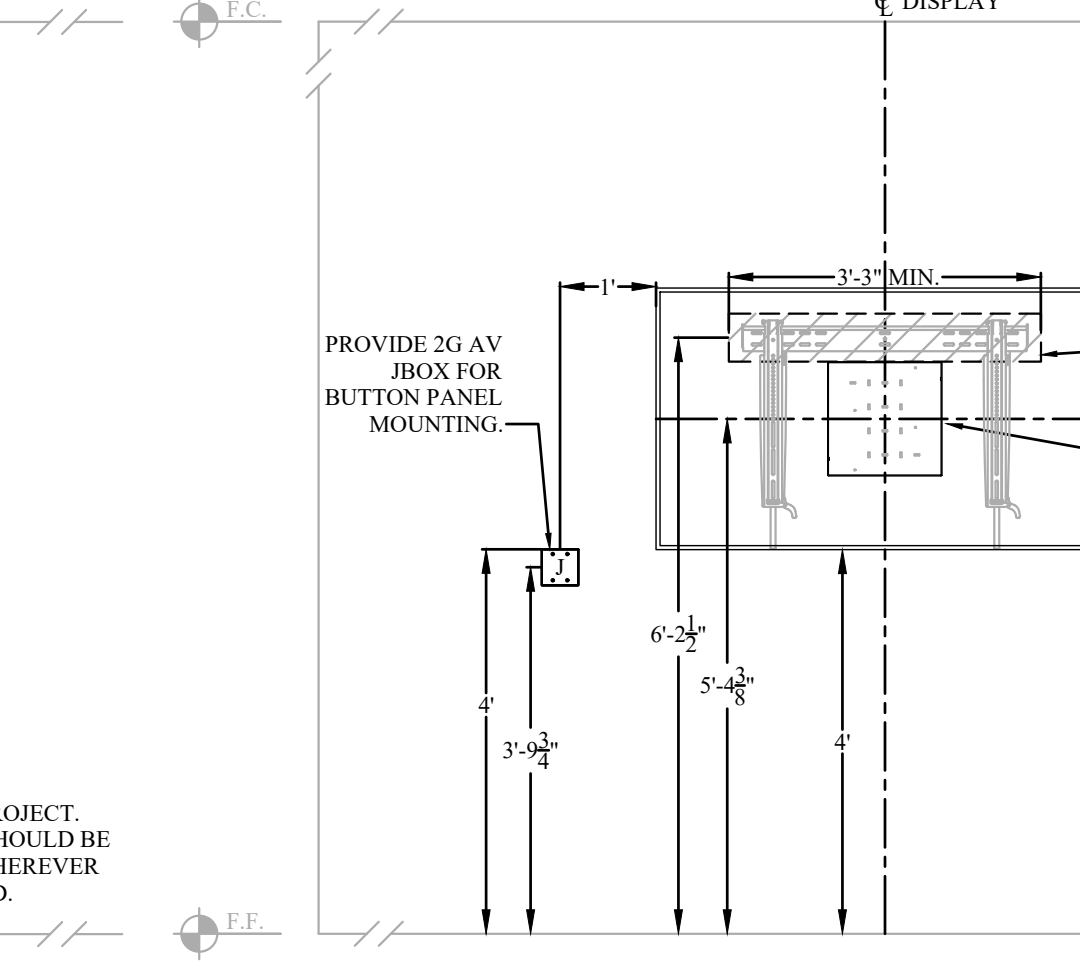
6 RISER ELEVATION - IN-WALL PTZ CAMERA
SCALE: 1/2" = 1'-0"



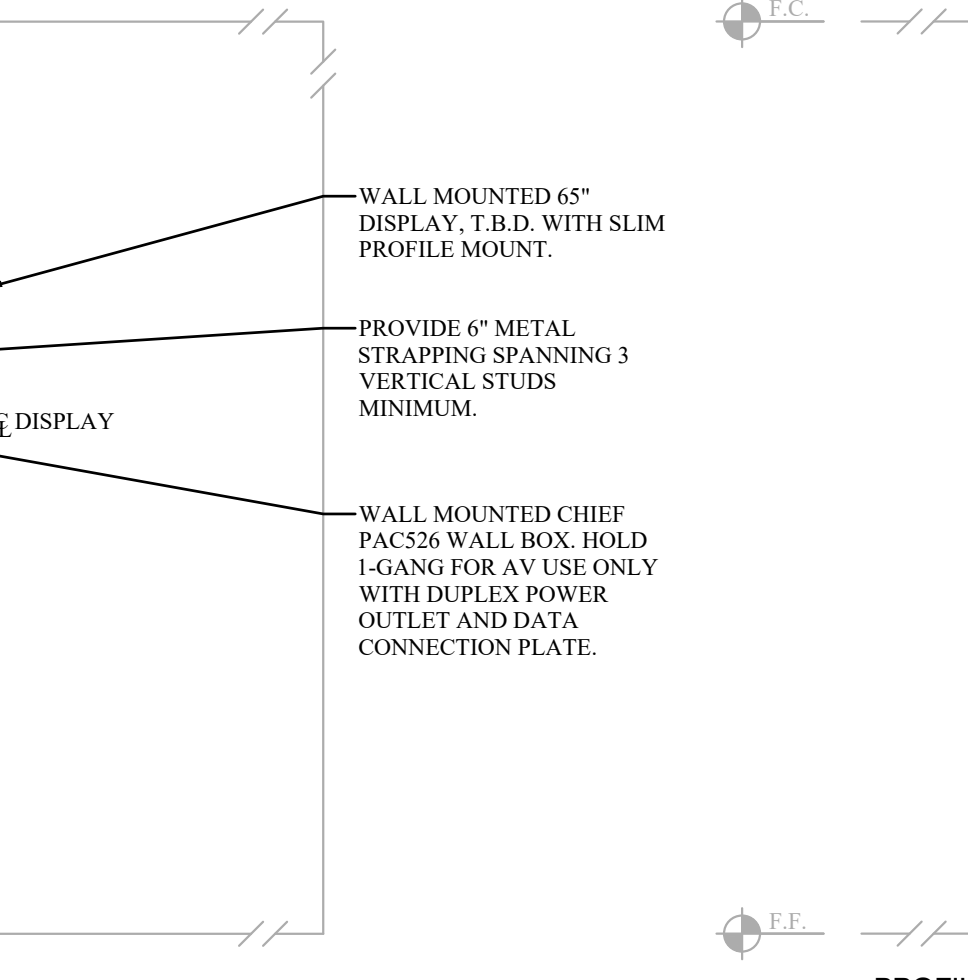
7 DISPLAY ELEVATION - TYPICAL 55" DISPLAY WITH INPUT BELOW
SCALE: 1/2" = 1'-0"



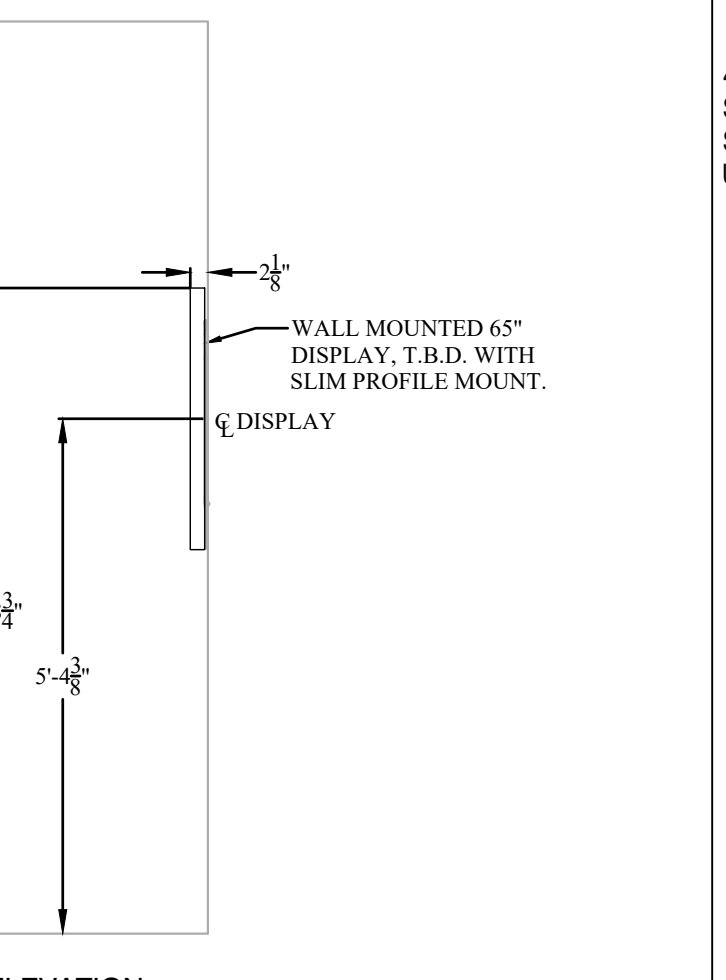
8 PROFILE ELEVATION - TYPICAL 55" DISPLAY WITH INPUT BELOW
SCALE: 1/2" = 1'-0"



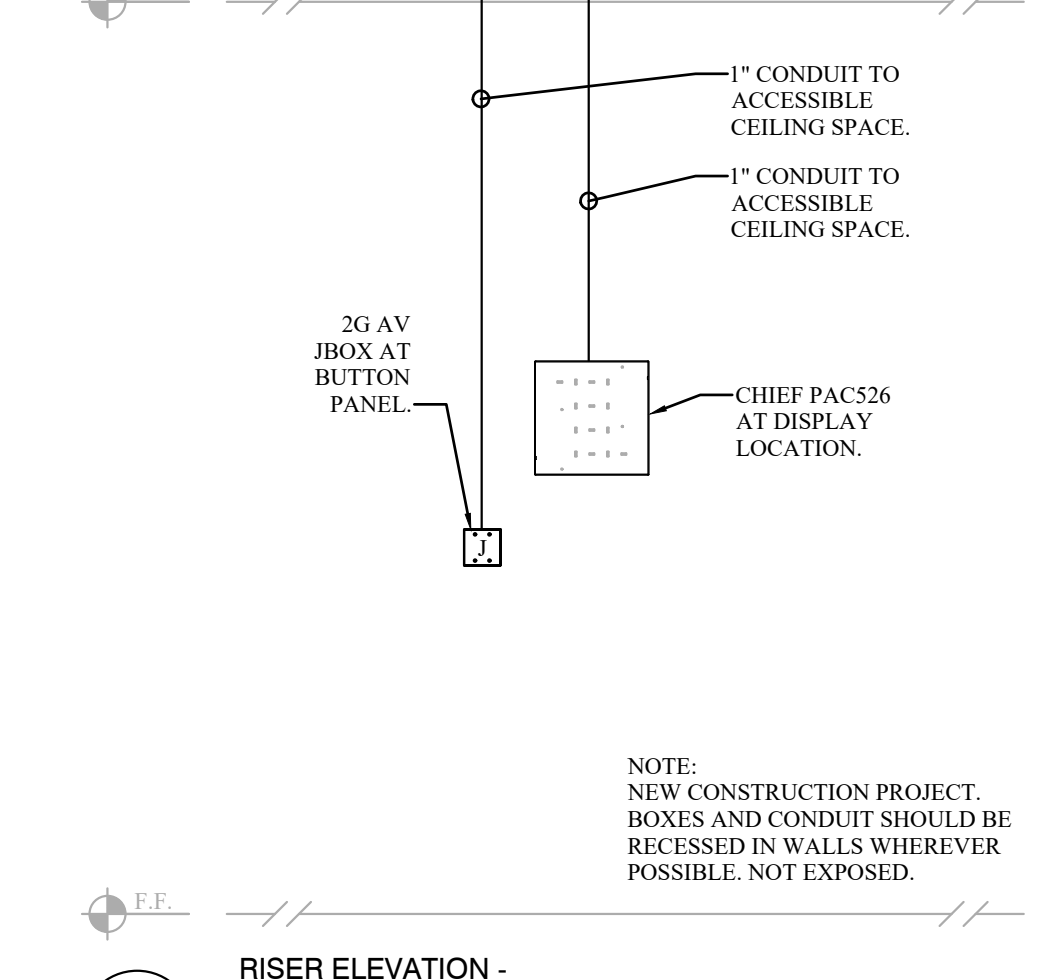
9 RISER ELEVATION - TYPICAL 55" DISPLAY WITH INPUT BELOW
SCALE: 1/2" = 1'-0"



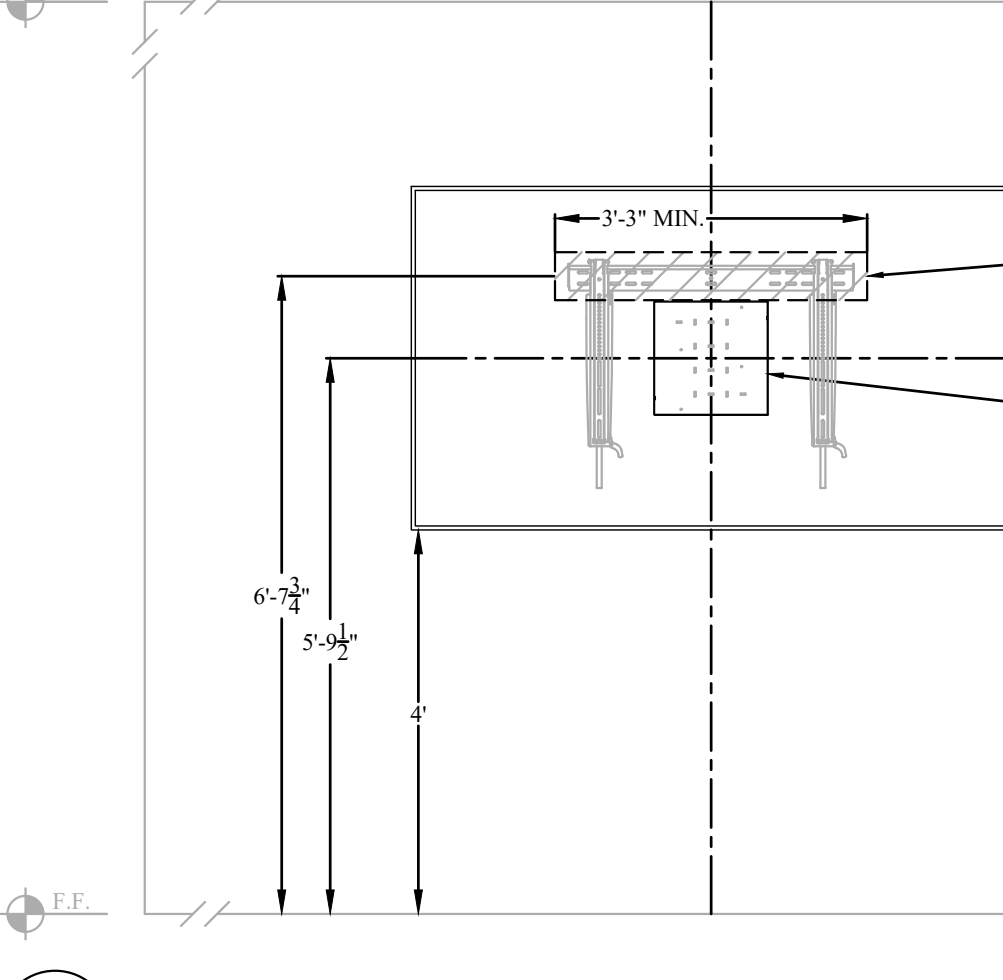
10 DISPLAY ELEVATION - TYPICAL 65" DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



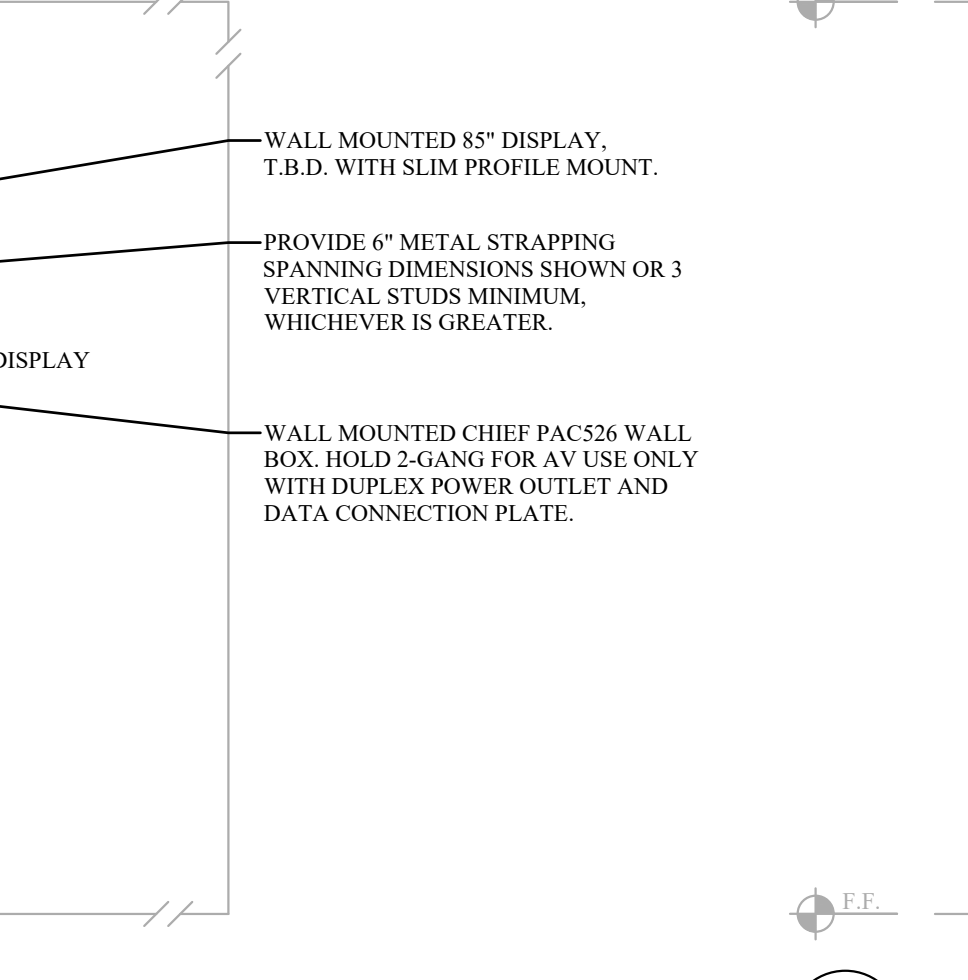
11 PROFILE ELEVATION - TYPICAL 65" DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



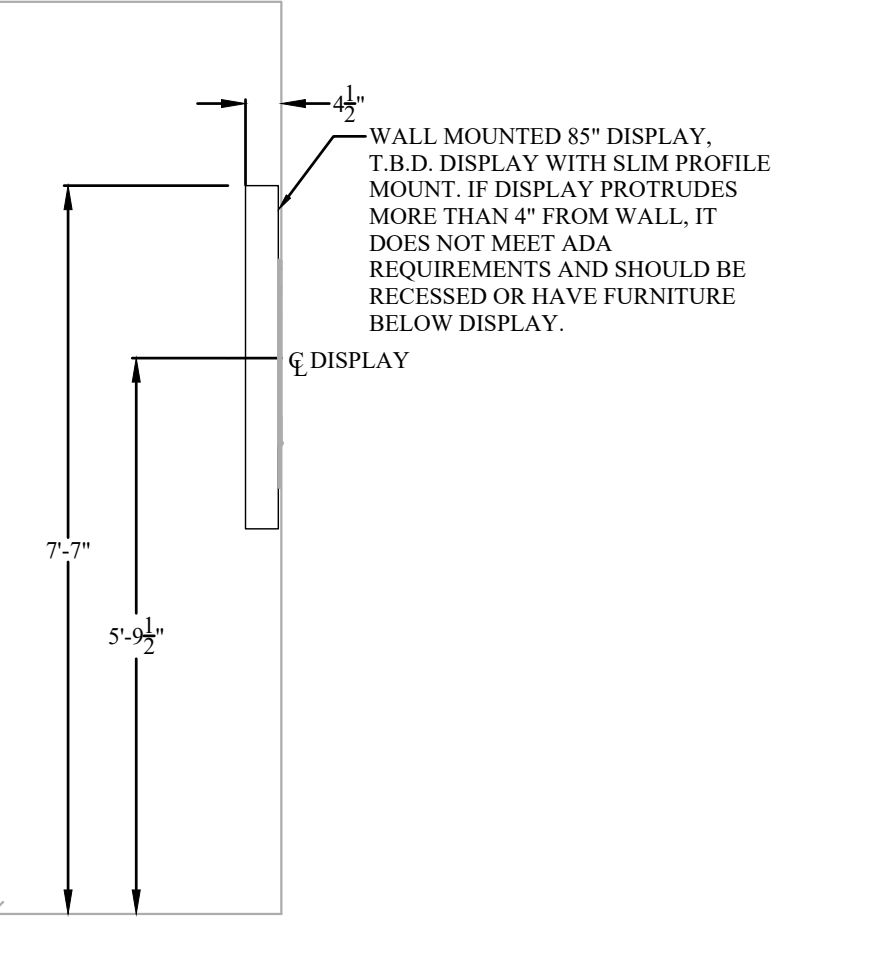
12 RISER ELEVATION - TYPICAL 65" DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



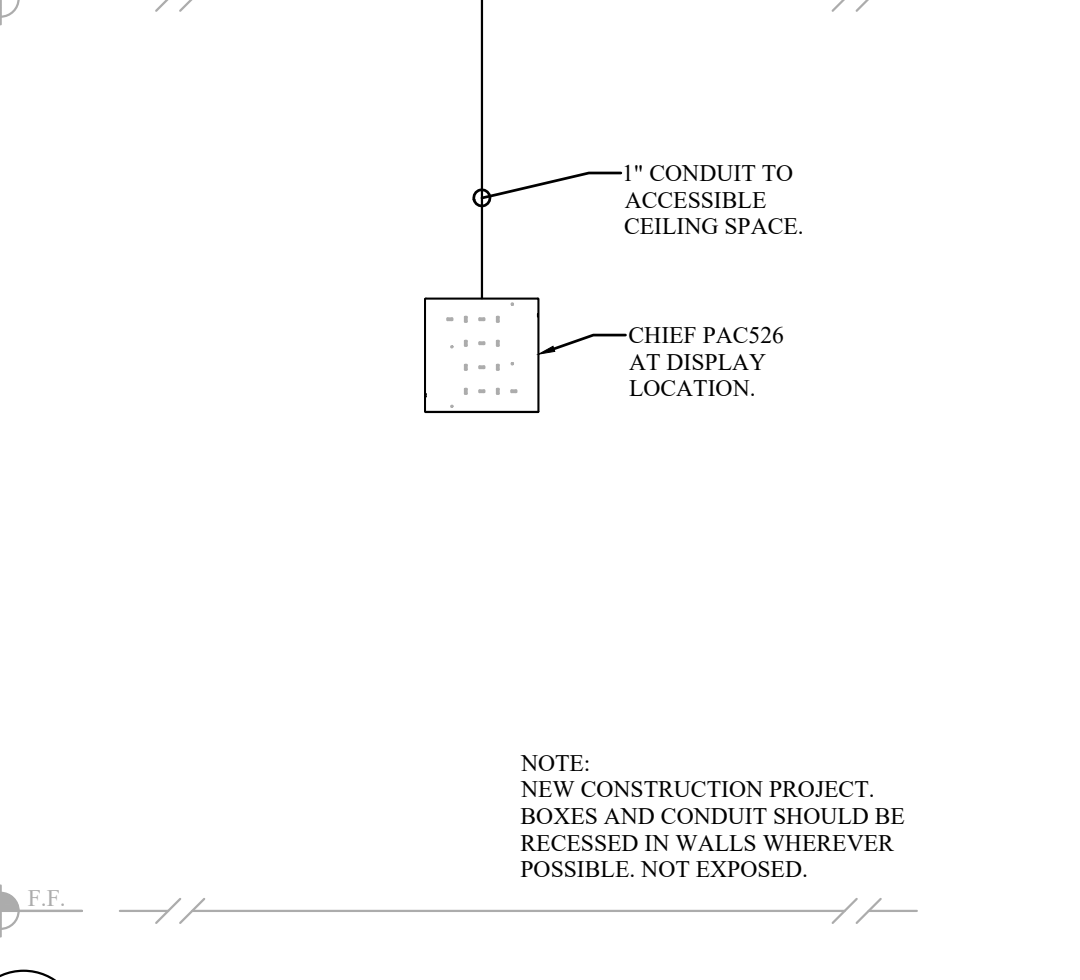
13 DISPLAY ELEVATION - TYPICAL 85" DISPLAY
SCALE: 1/2" = 1'-0"



14 PROFILE ELEVATION - TYPICAL 85" DISPLAY
SCALE: 1/2" = 1'-0"



15 RISER ELEVATION - TYPICAL 85" DISPLAY
SCALE: 1/2" = 1'-0"



16 DISPLAY ELEVATION - COMMUNITY ROOM 141
SCALE: 1/2" = 1'-0"



17 RISER ELEVATION - COMMUNITY ROOM 141
SCALE: 1/2" = 1'-0"

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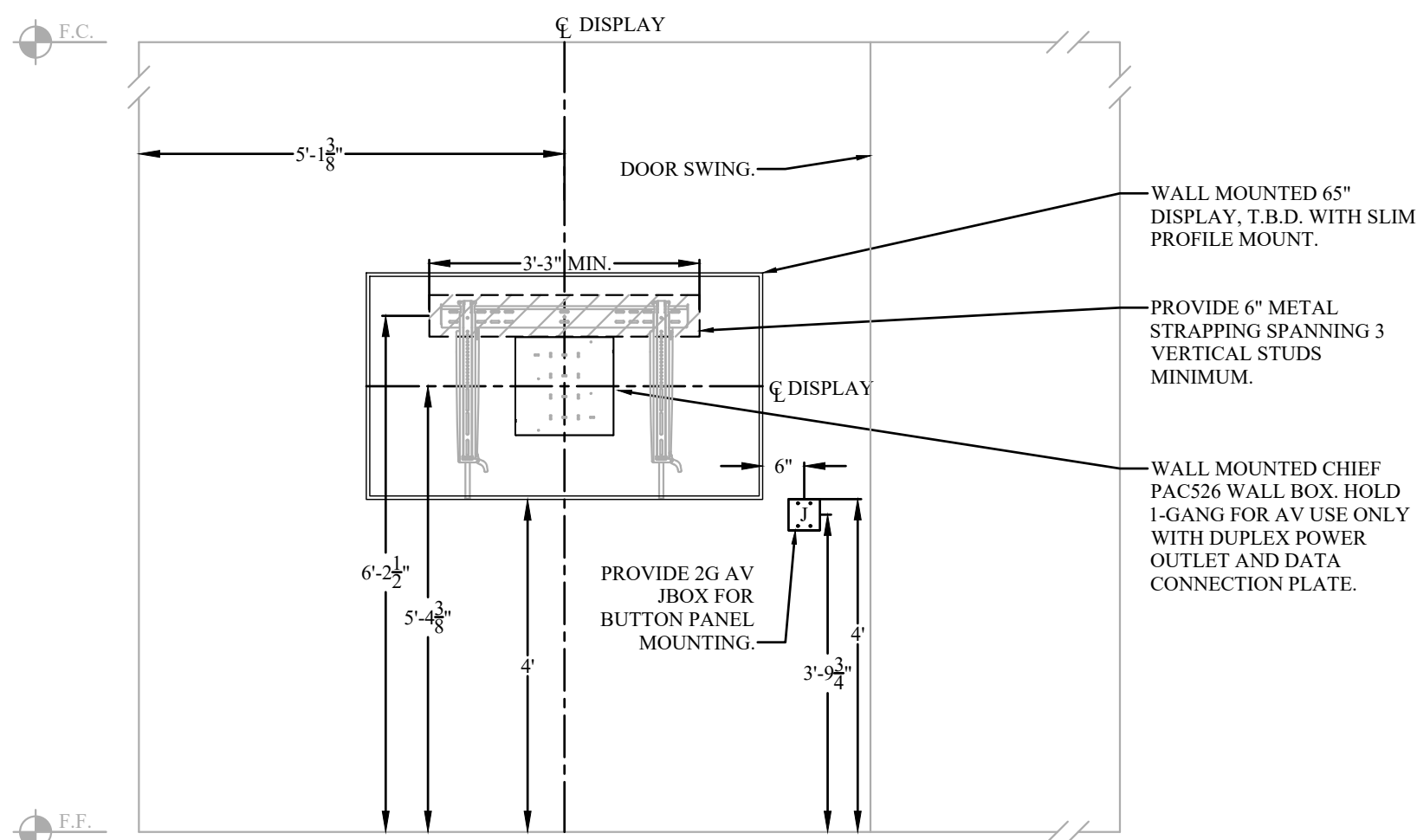
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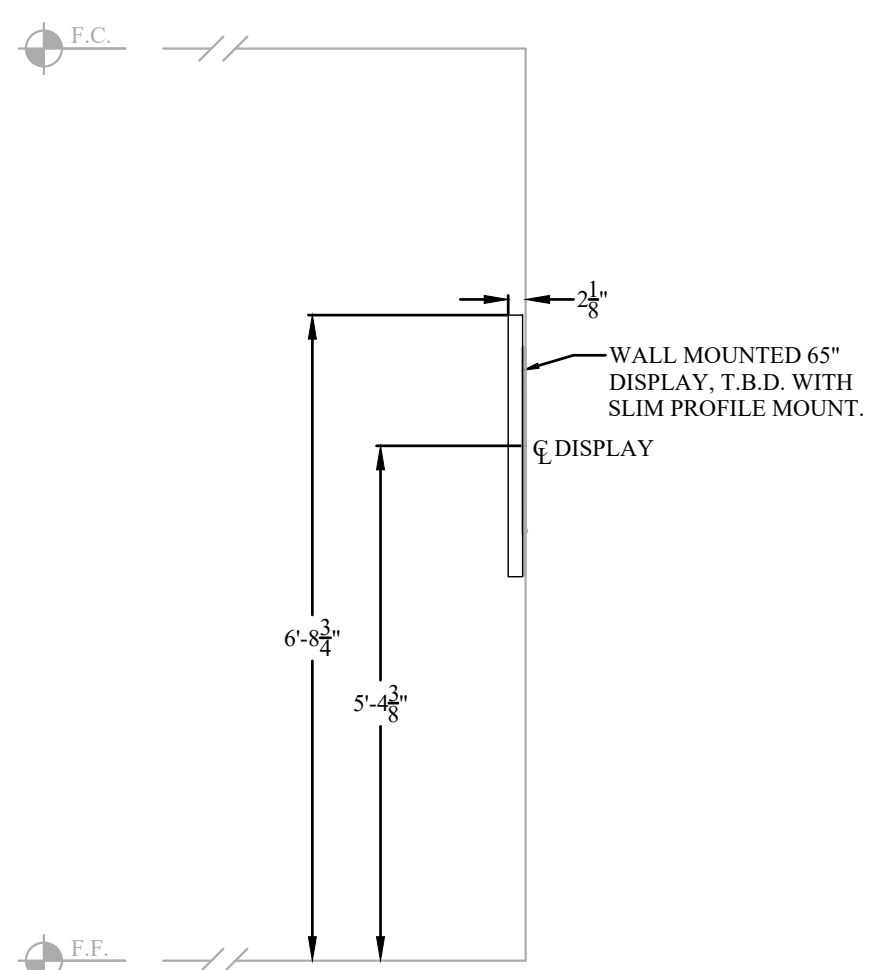
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DETAILS & ELEVATIONS 1 OF 2

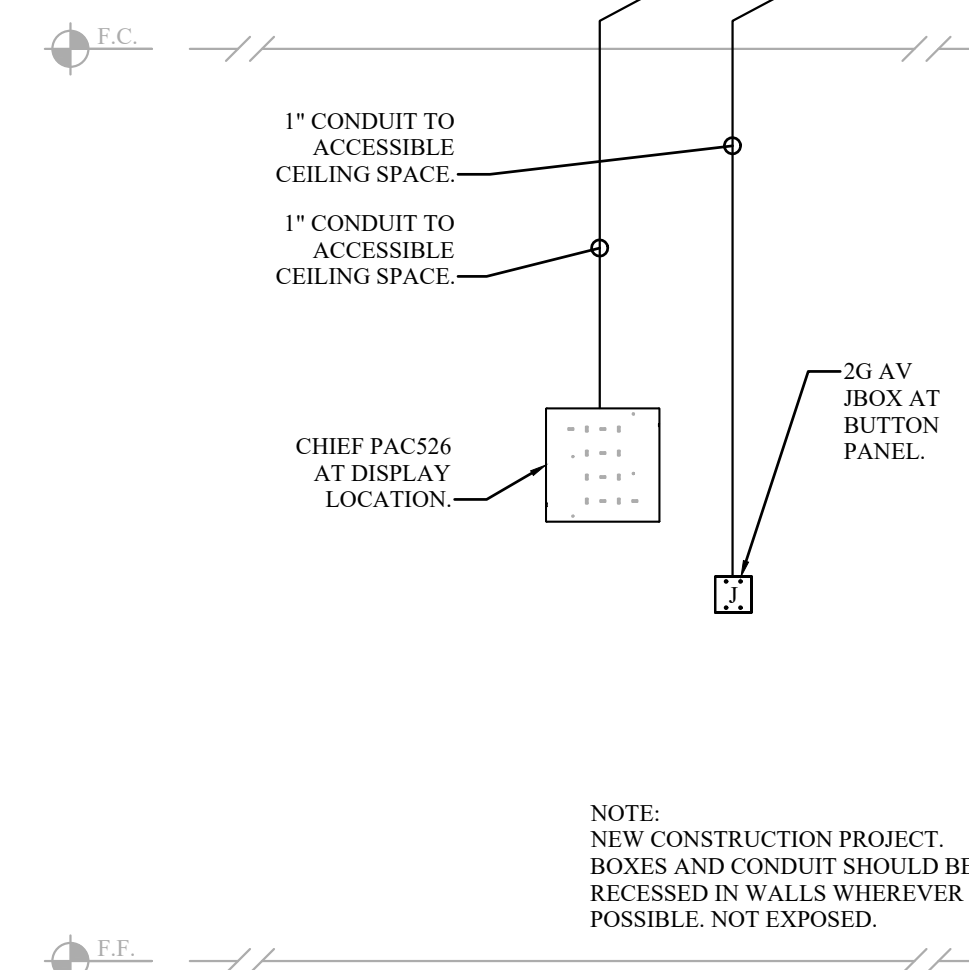
AV501



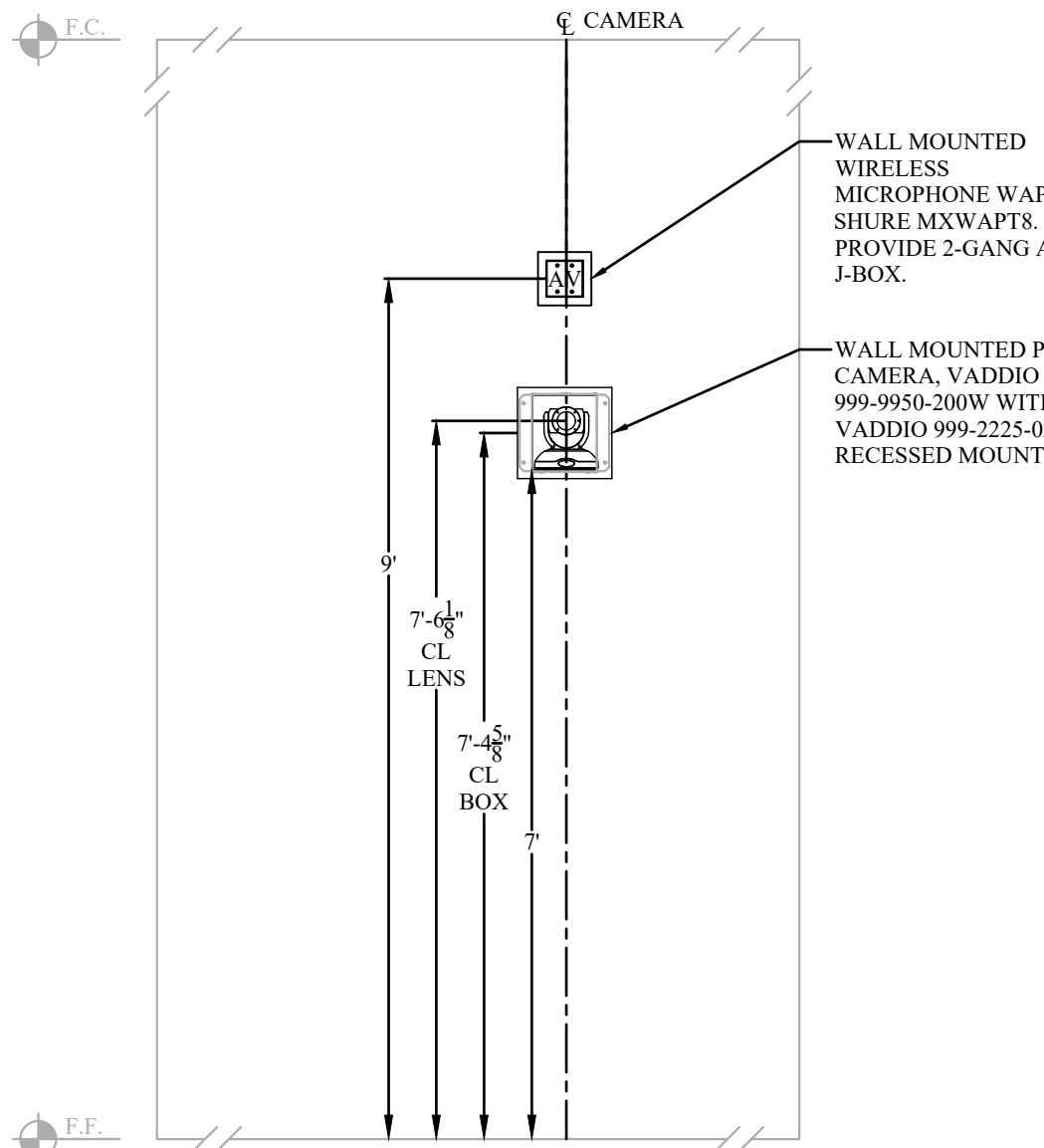
1 DISPLAY ELEVATION - CONFERENCE ROOM A110 - DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



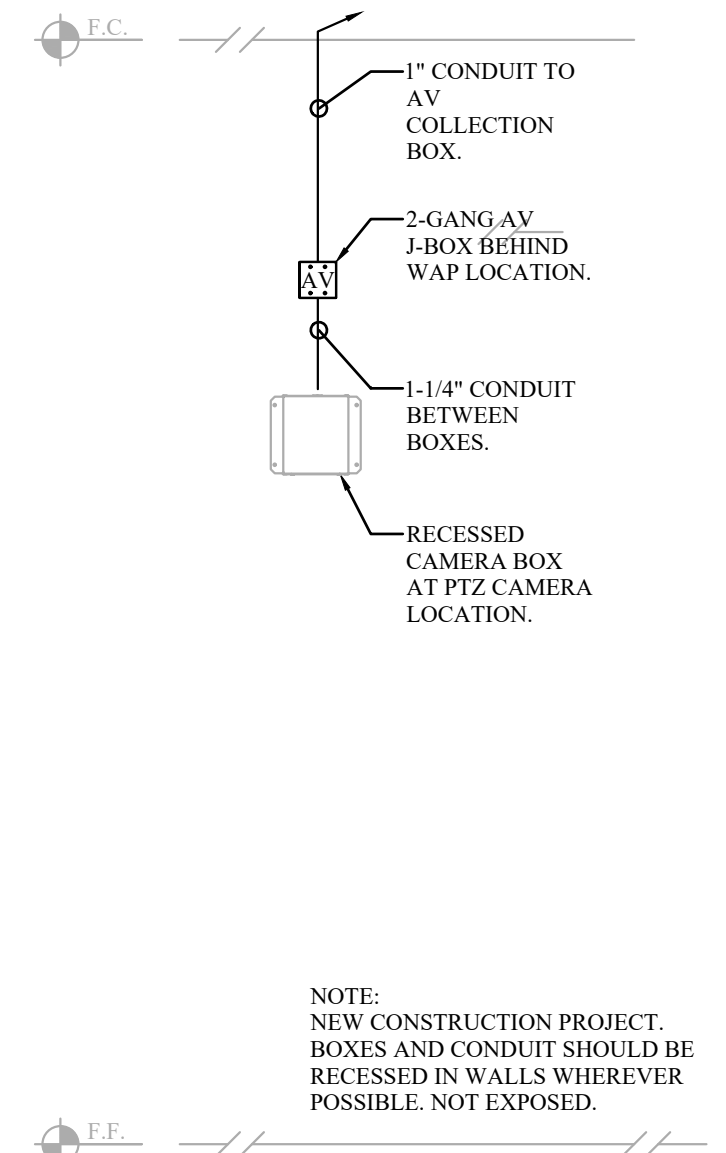
2 PROFILE ELEVATION - CONFERENCE ROOM A110 - DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



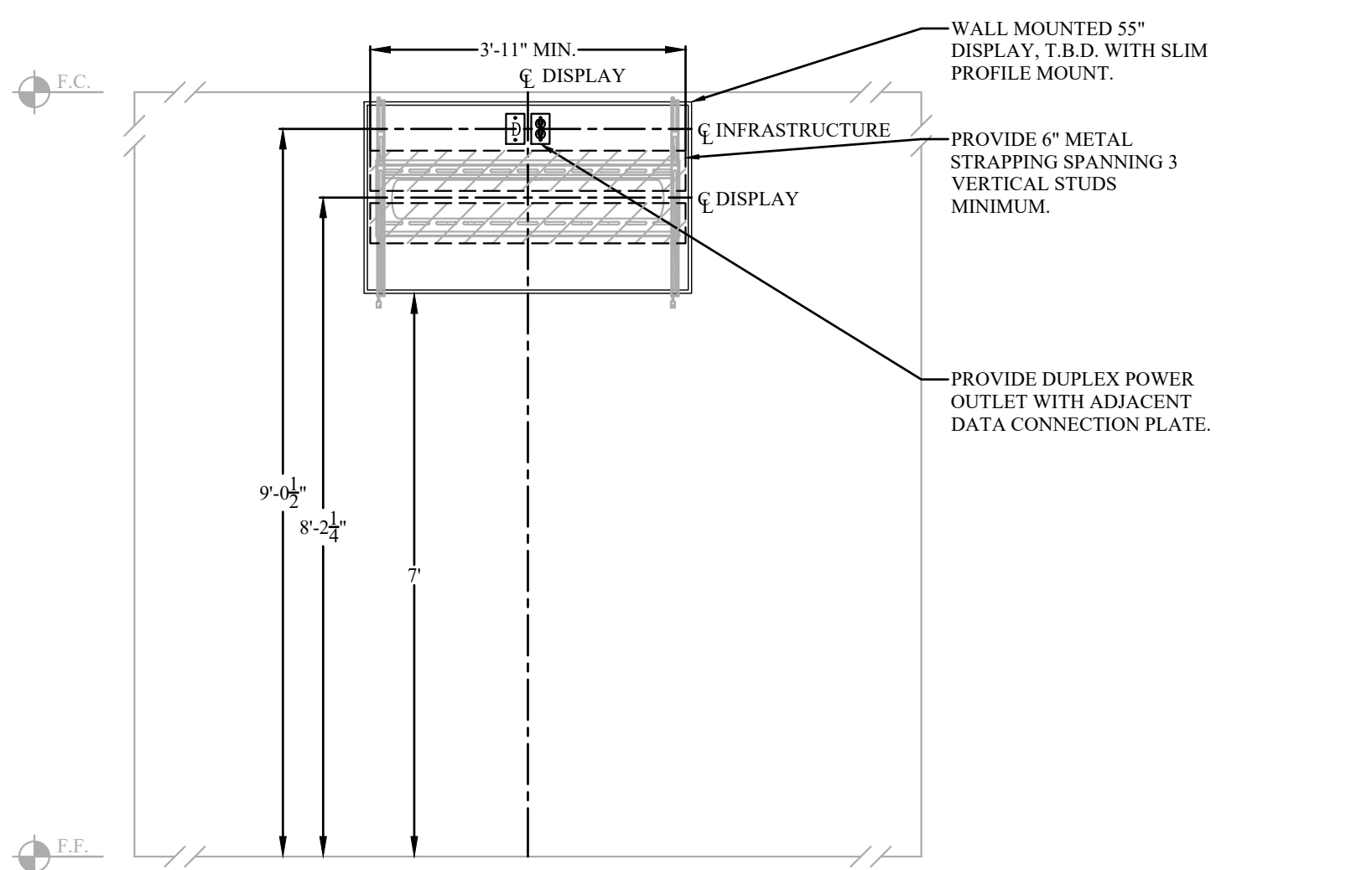
3 RISER ELEVATION - CONFERENCE ROOM A110 - DISPLAY WITH BUTTON PANEL
SCALE: 1/2" = 1'-0"



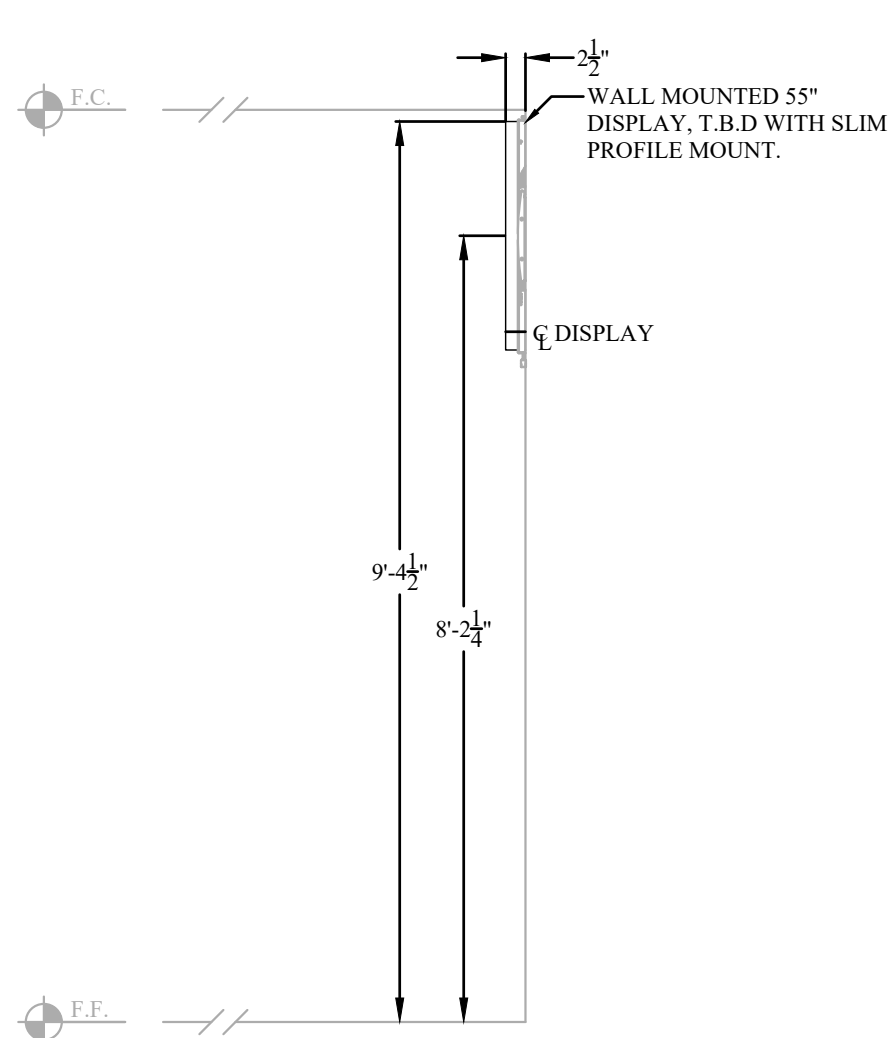
4 TYPICAL ELEVATION - IN-WALL PTZ CAMERA WITH WAP
SCALE: 1/2" = 1'-0"



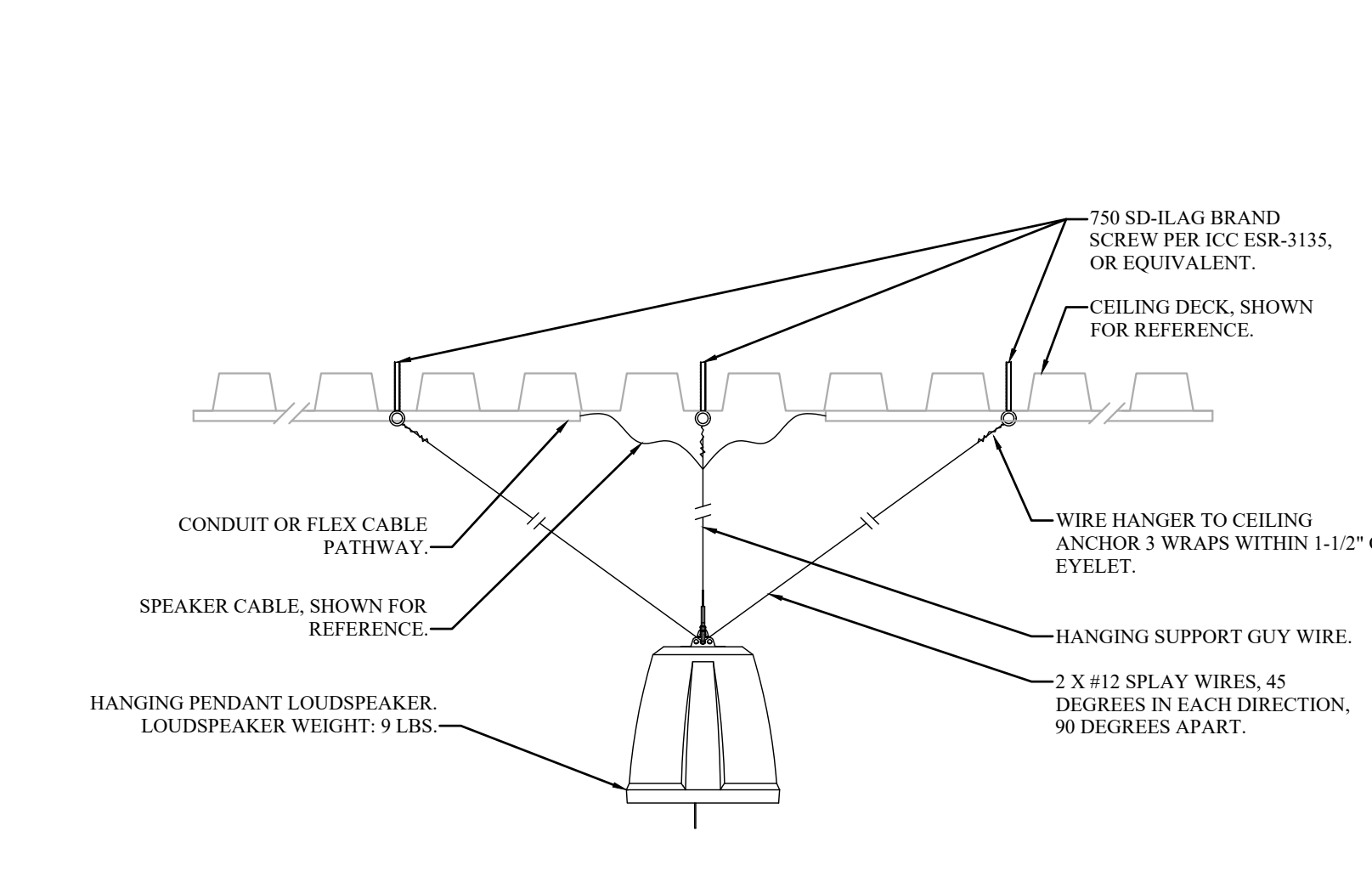
5 RISER ELEVATION - IN-WALL PTZ CAMERA WITH WAP
SCALE: 1/2" = 1'-0"



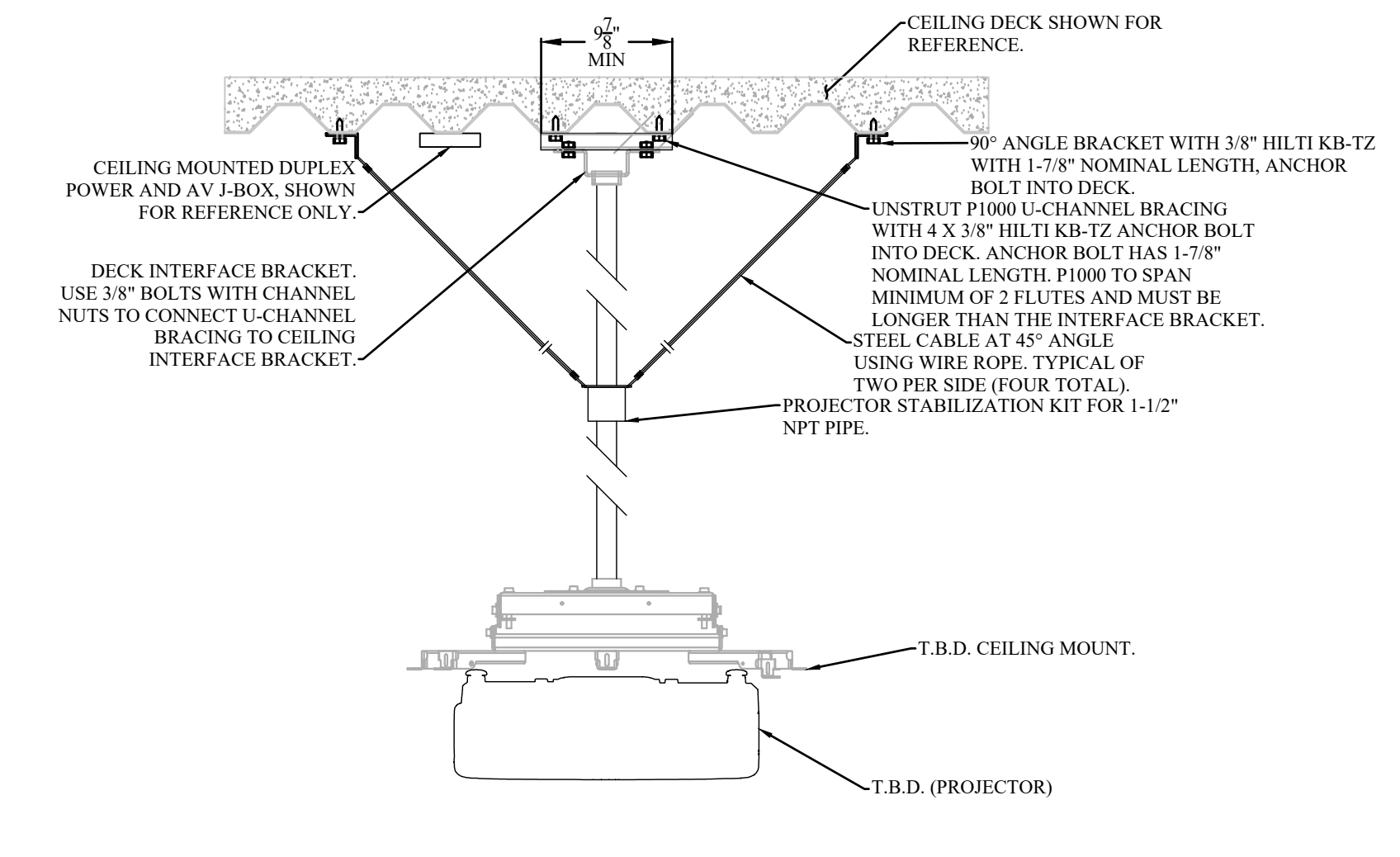
6 DISPLAY ELEVATION - CAFE
SCALE: 1/2" = 1'-0"



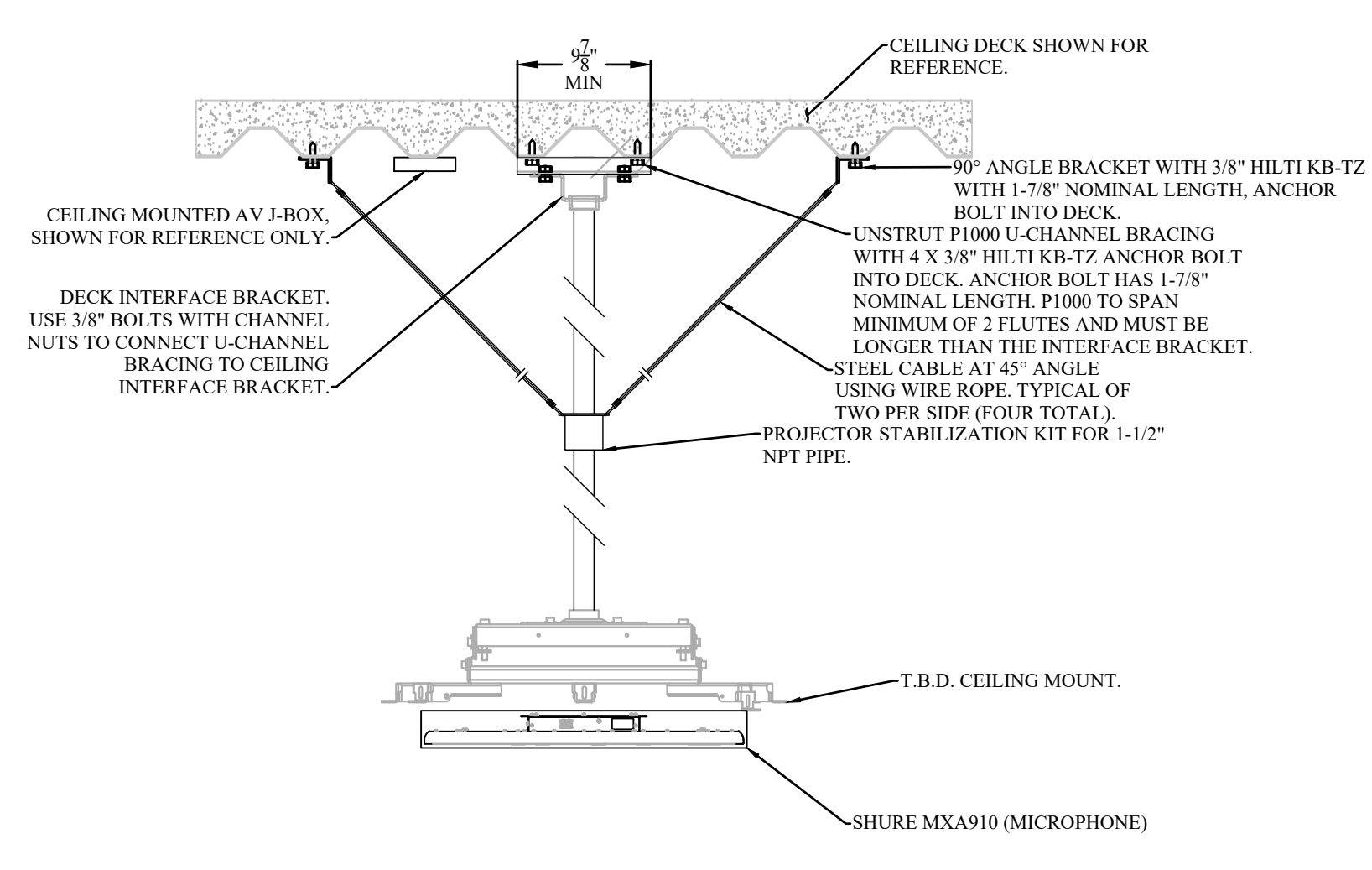
7 DISPLAY ELEVATION - CAFE
SCALE: 1/2" = 1'-0"



8 PROJECT DETAILS - PENDANT LOUDSPEAKER MOUNTING
SCALE: NTS



9 PROJECT DETAILS - PROJECTOR MOUNTING AT OPEN CEILING
SCALE: NTS



10 PROJECT DETAILS - MXA910 MOUNTING AT OPEN CEILING
SCALE: NTS

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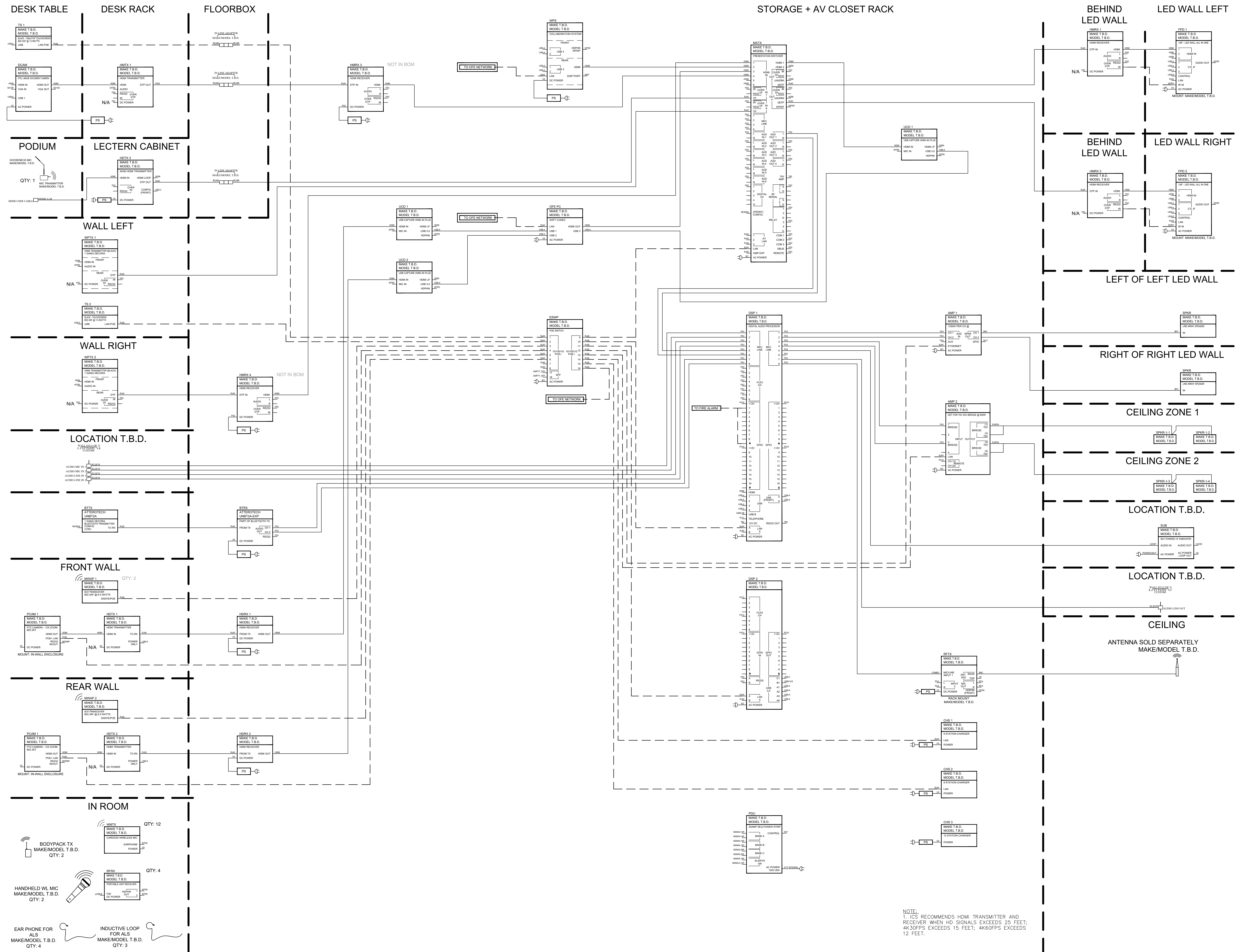
DETAILS & ELEVATIONS
2 OF 2

SHEET NUMBER

AV502

WIRING DIAGRAMS T.B.D. UPON CLARIFICATION OF AV SCOPE.

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1 COMMUNITY ROOM - TYP 1
SCALE: NTS

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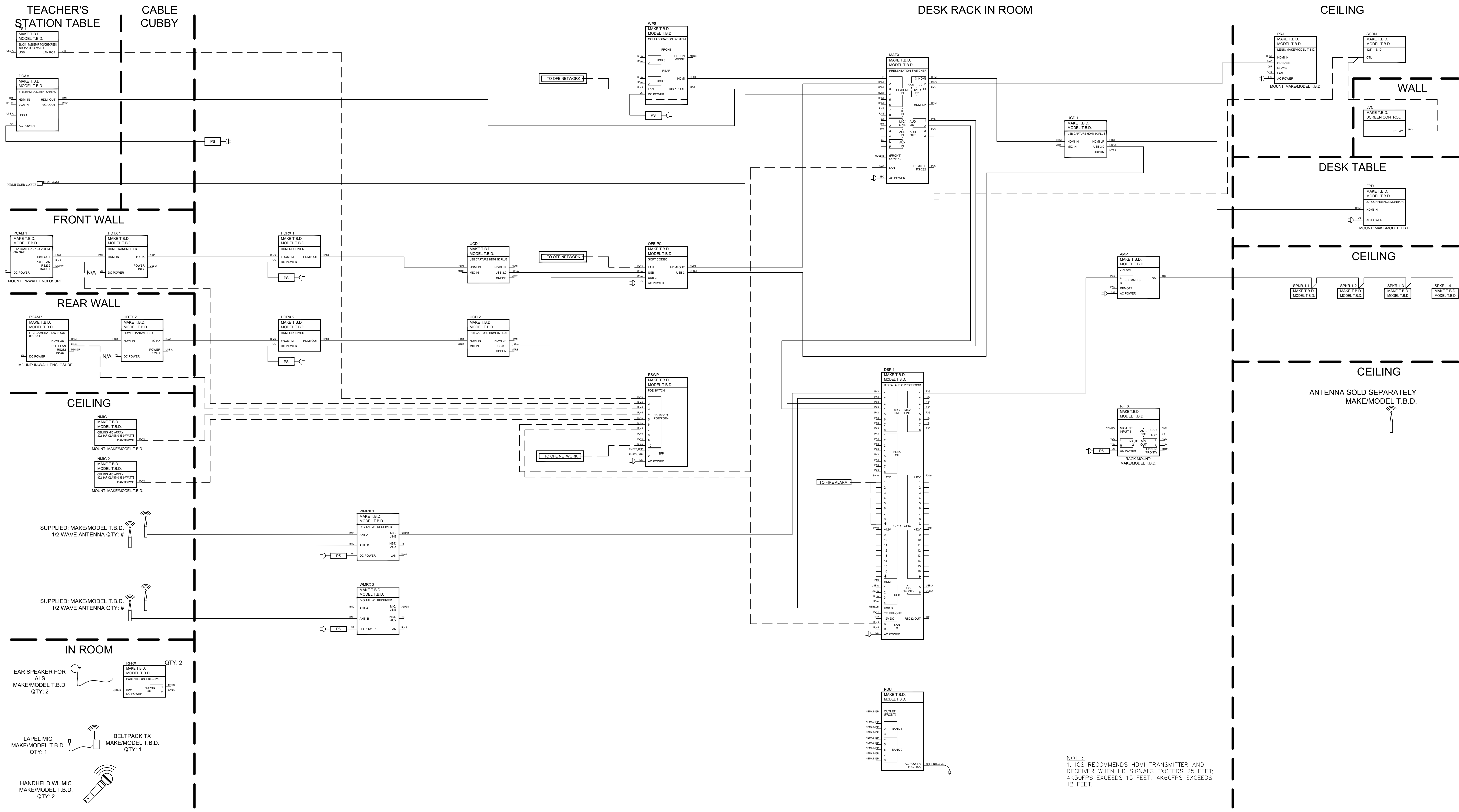
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COMMUNITY ROOM

SHEET NUMBER

AV701

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NOTE:
 1. ICS RECOMMENDS HDMI TRANSMITTER AND RECEIVER WHEN HD SIGNALS EXCEEDS 25 FEET; 4K30FPS EXCEEDS 15 FEET; 4K60FPS EXCEEDS 12 FEET.

1 GENERAL LECTURE - TYP 4
 SCALE: NTS

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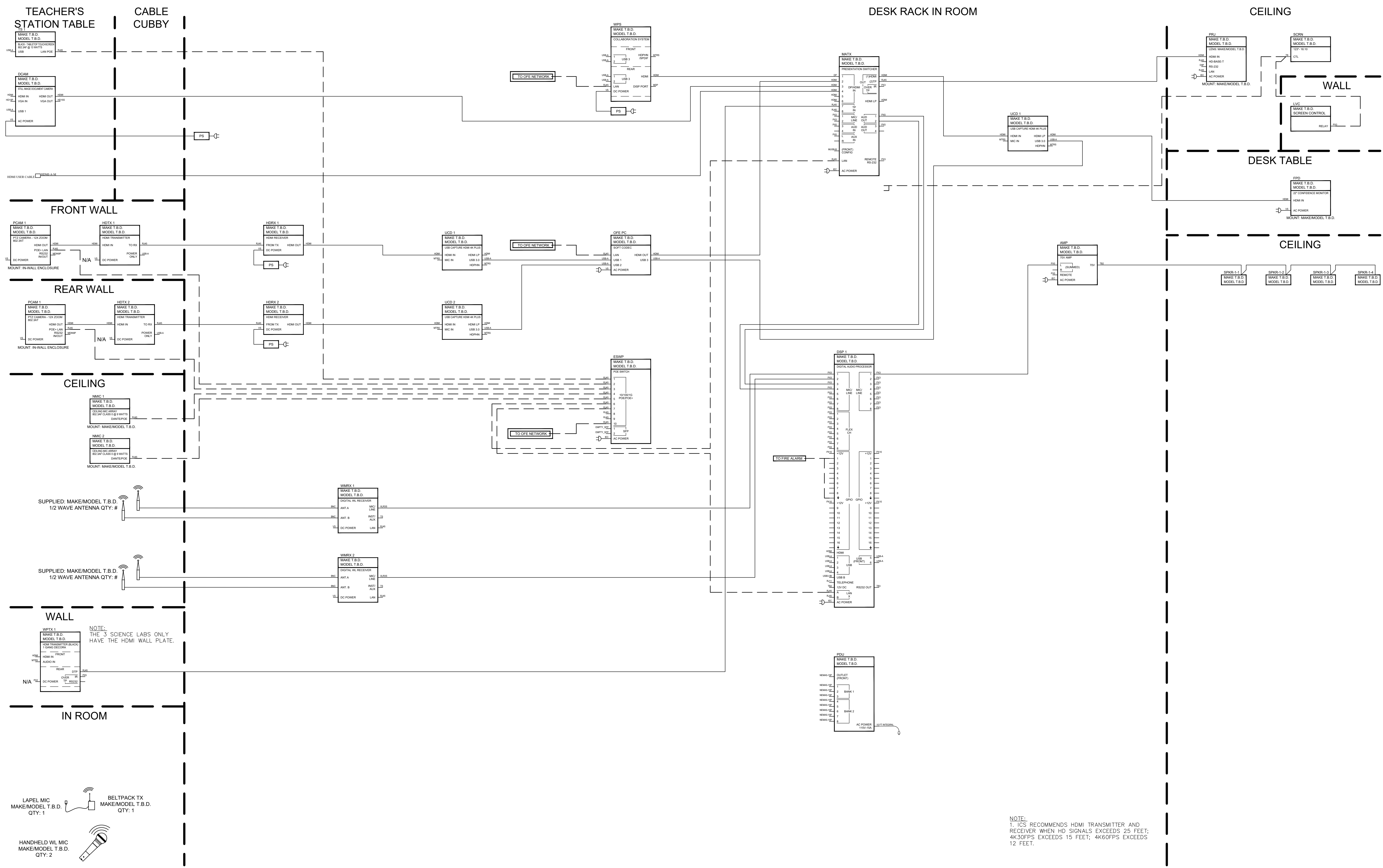
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GENERAL LECTURE

SHEET NUMBER
AV702

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1 LEARNING & RESOURCE CENTER - TYP 1, FLEXIBLE CLASSROOM/STUDIO - TYP 1, COMPUTER LABS - TYP 2, SCIENCE LABS - TYP 3
SCALE: NTS

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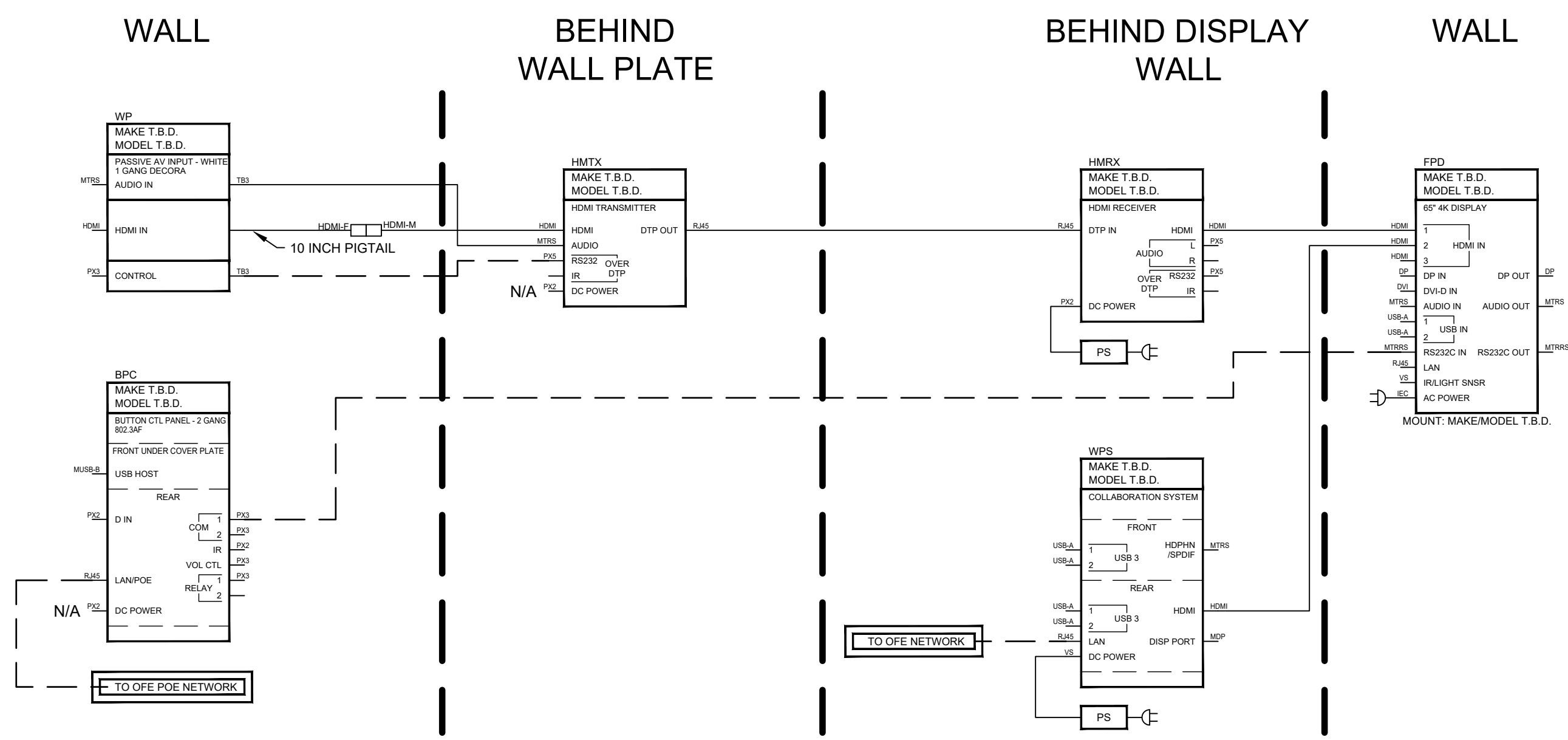
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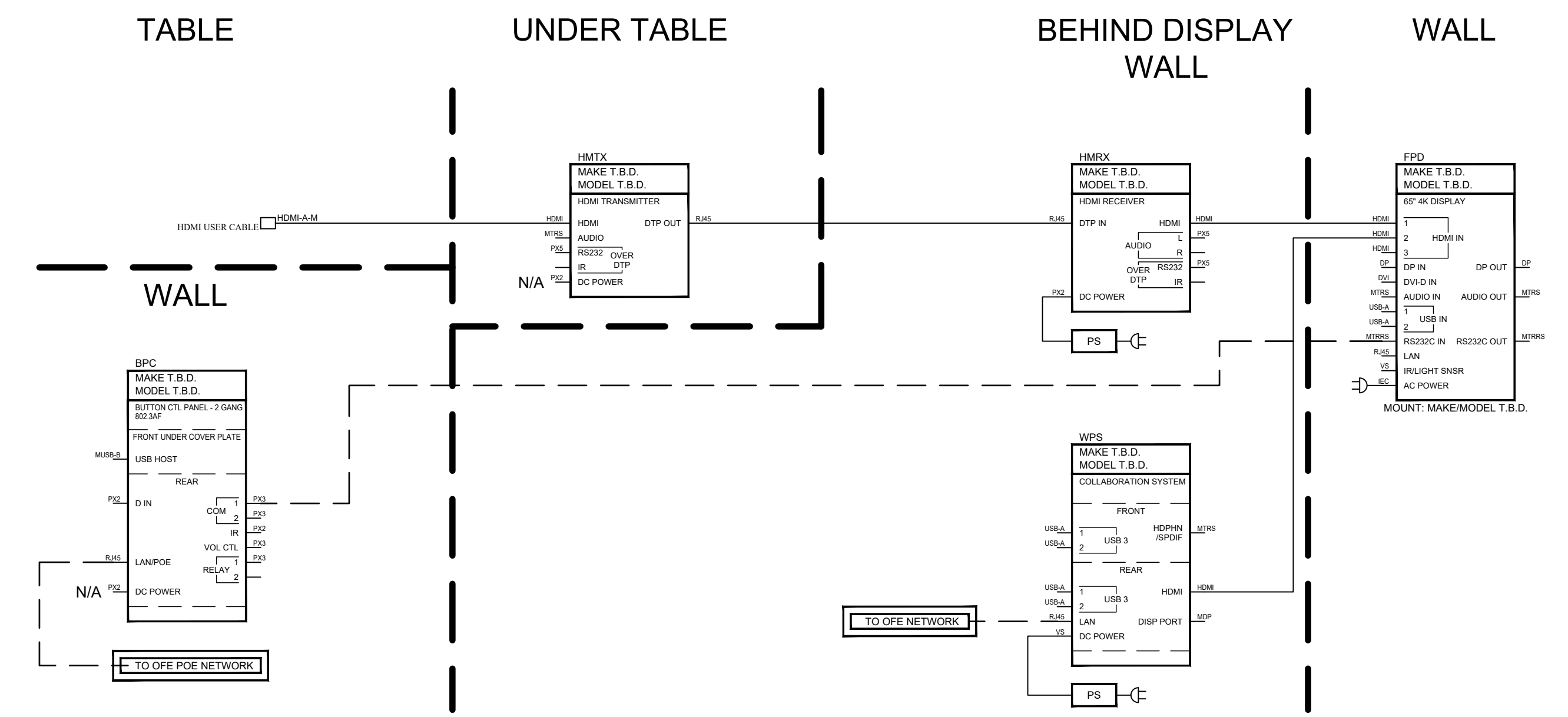
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L&R CENTER, FLEX CLASS-STUDIO, COMPUTER LABS, SCIENCE LABS

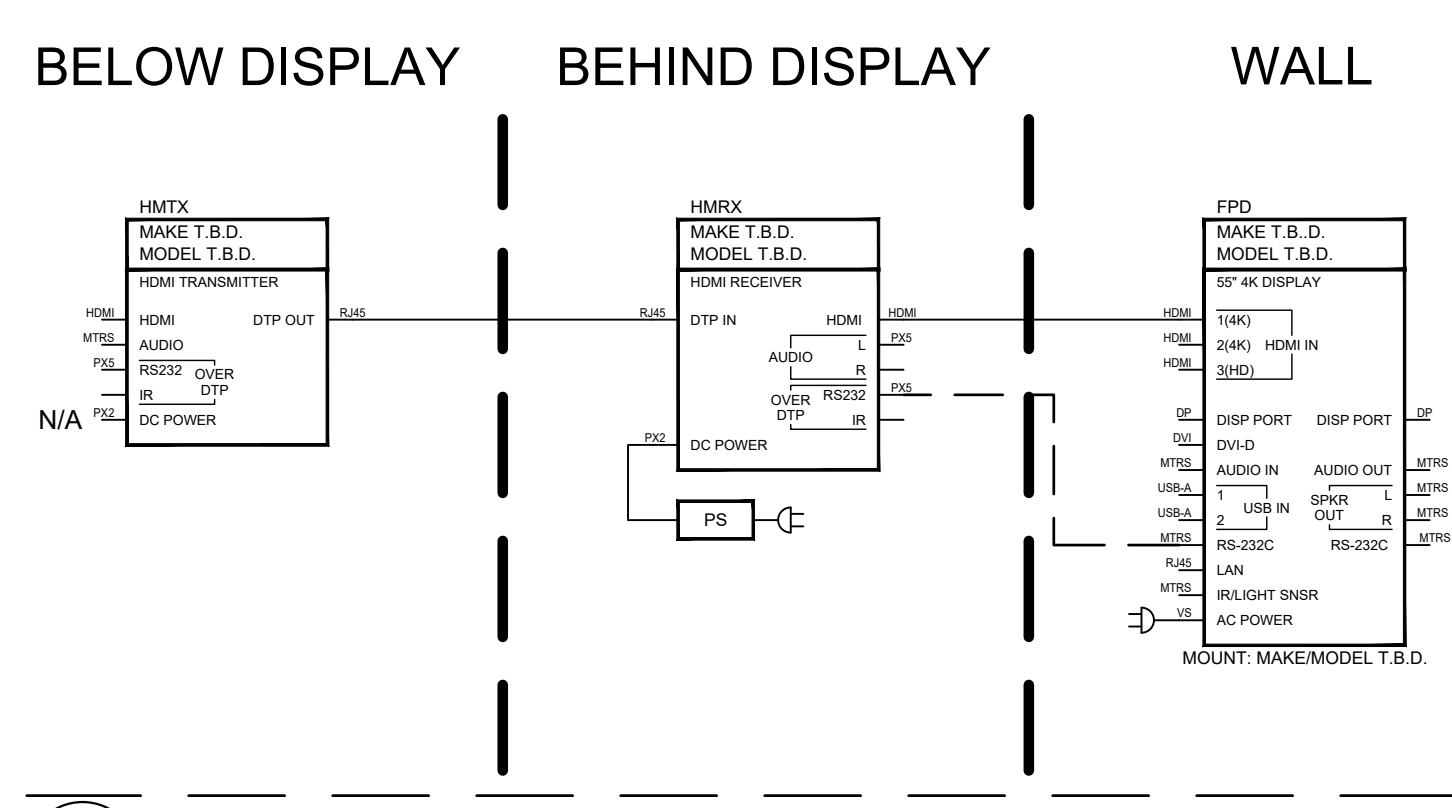
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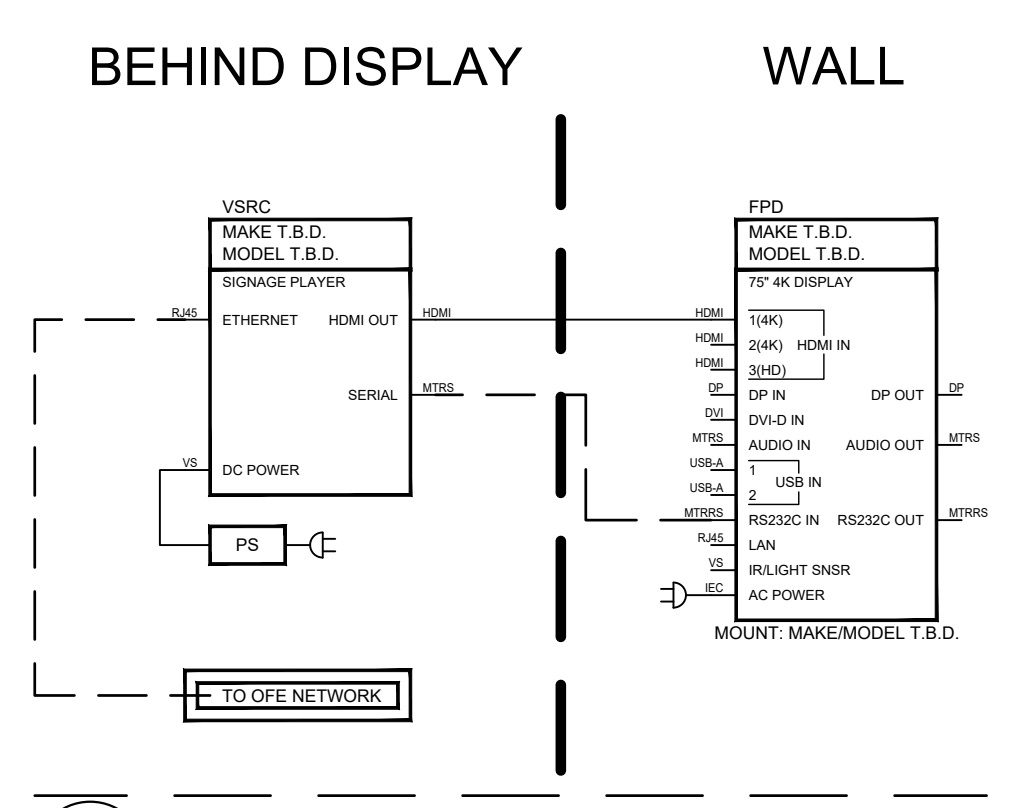
1 OPEN COLLABORATION - TYP 3
SCALE: NTS



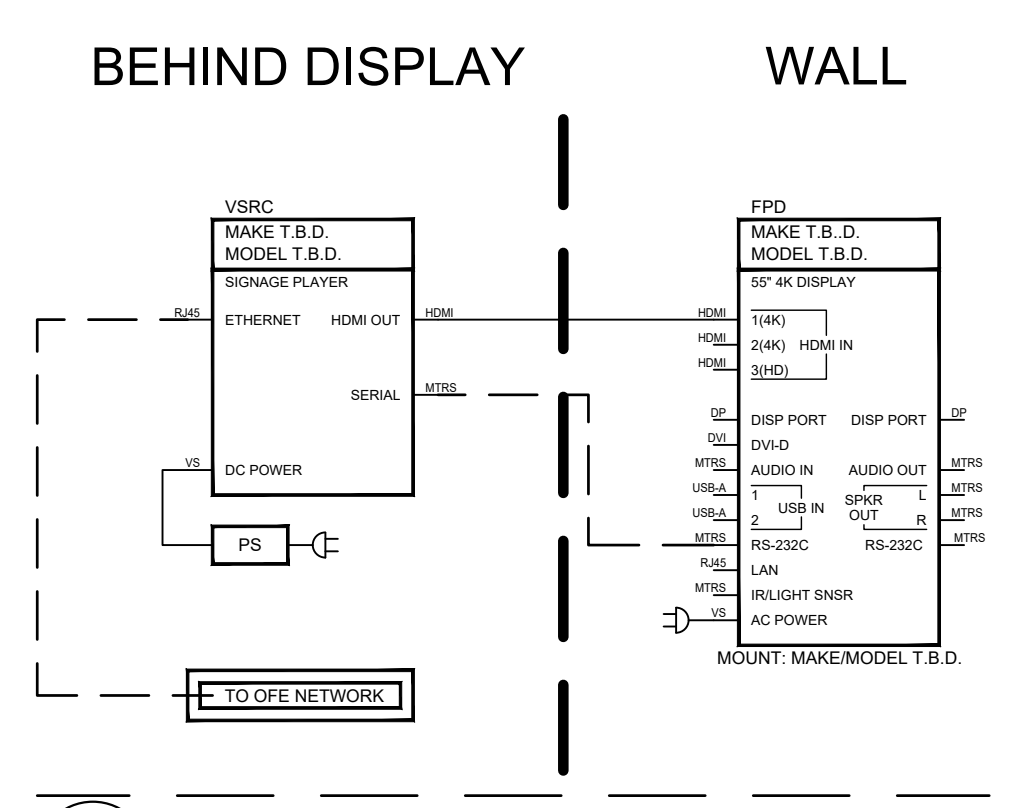
2 CONFERENCE ROOM - TYP 1 & SBCC - TYP 1
SCALE: NTS



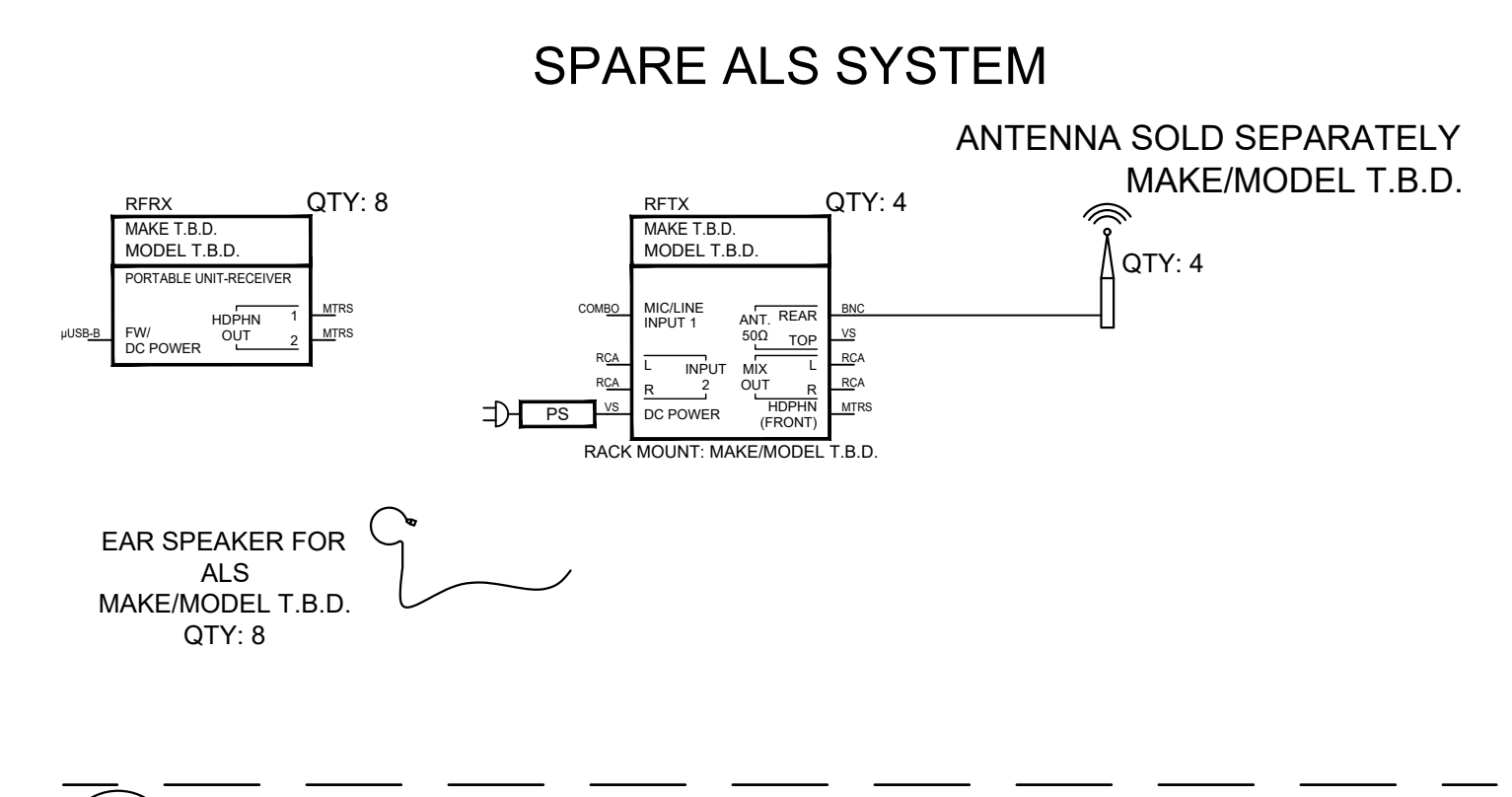
3 CAFE MENU - TYP 2
SCALE: NTS



4 DIGITAL SIGNAGE LOBBY 75' - TYP 1
SCALE: NTS



5 DIGITAL SIGNAGE 55' - TYP 3
SCALE: NTS



6 SPARE ALS SYSTEMS - TYP 4
SCALE: NTS

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**GAVILAN
COLLEGE**

**NEW COLLEGE
CAMPUS**

505 FAIRVIEW ROAD
HOLLISTER, CA 95023

GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT

DSA APP NO. 01-119906
ARCH PROJECT NO. 1897.00

DRAWN BY:
DRAWING SCALE:
PTN: N/A FILE NO: 43-C4

DSA SUBMITTAL
DECEMBER 17, 2021

SHEET TITLE
**OPEN COLLAB,
CONFERENCE,
SBCC, CAFE
MENU, DS,
SPARE ALS**

SHEET NUMBER

AV704

COMMUNITY ROOM

UNITS HEIGHT

31	54.25	RFTX MAKE/MODEL T.B.D.	(ALS TX)	ALS SHELF MAKE/MODEL T.B.D.
30	52.5			
29	50.75			
28	49.0			
27	47.25	CHS 1 MAKE/MODEL T.B.D.	(FOR MICS)	CHS 2 MAKE/MODEL T.B.D.
26	45.5			
25	43.75			
24	42.0	CHS 3 MAKE/MODEL T.B.D.	(FOR ALS)	
23	40.25			
22	38.5	AMP 1 MAKE T.B.D.		MODEL T.B.D.
21	36.75			
20	35.0			
19	33.25	AMP 2 MAKE T.B.D.		MODEL T.B.D.
18	31.5			
17	29.75			
16	28.0	DSP 2 MAKE/MODEL T.B.D.		WPS (COLLAB SYS) MAKE/MODEL T.B.D.
15	26.25			
14	24.5	DSP 1		MAKE T.B.D. MODEL T.B.D.
13	22.75			
12	21.0	ESWP POE SWITCH		MAKE T.B.D. MODEL T.B.D.
11	19.25			
10	17.5	HDRX 1 MAKE/MODEL T.B.D.	HDRX 2 MAKE/MODEL T.B.D.	HMRX 3 MAKE/MODEL T.B.D.
9	15.75			HMRX 4 MAKE/MODEL T.B.D.
8	14.0	OFE PC SOFT CODEC		MAKE T.B.D. MODEL T.B.D.
7	12.25			
6	10.5	UCD 1 MAKE/MODEL T.B.D.	UCD 2 MAKE/MODEL T.B.D.	UCD 3 MAKE/MODEL T.B.D.
5	8.75			
4	7.0	MATX MAKE T.B.D.		PRESENTATION SWITCHER
3	5.25	MODEL T.B.D.		
2	3.5			
1	1.75	PDU PWR SEQ		MAKE T.B.D. MODEL T.B.D.

17 POWER OUTLETS REQUIRED

1 COMMUNITY ROOM - TYP 1
SCALE: NTS

GENERAL LECTURE

UNITS HEIGHT

12	21.0	RFTX MAKE/MODEL T.B.D.	(ALS TX)	ALS SHELF MAKE/MODEL T.B.D.
11	19.25			
10	17.5	WMRX 1 MAKE/MODEL T.B.D.	(DIGITAL WL RX)	WMRX 2 MAKE/MODEL T.B.D.
9	15.75	AMP MAKE/MODEL T.B.D.		
8	14.0	DSP 1		MAKE T.B.D. MODEL T.B.D.
7	12.25	ESWP POE SWITCH		MAKE T.B.D. MODEL T.B.D.
6	10.5			
5	8.75	HDRX 1 MAKE/MODEL T.B.D.	HDRX 2 MAKE/MODEL T.B.D.	WPS (COLLAB SYS) MAKE/MODEL T.B.D.
4	7.0	OFE PC SOFT CODEC		MAKE T.B.D. MODEL T.B.D.
3	5.25	UCD 1 MAKE/MODEL T.B.D.	UCD 2 MAKE/MODEL T.B.D.	UCD 3 MAKE/MODEL T.B.D.
2	3.5	MATX PRESENTATION SWR		MAKE T.B.D. MODEL T.B.D.
1	1.75	PDU PWR SEQ		MAKE T.B.D. MODEL T.B.D.

12 POWER OUTLETS REQUIRED

2 GENERAL LECTURE - TYP 4
SCALE: NTS

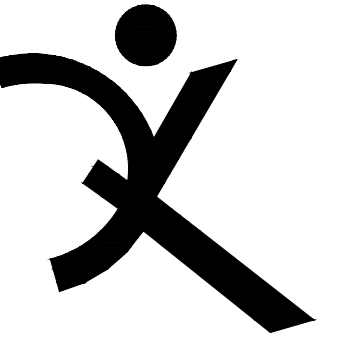
LEARNING & RESOURCE CENTER
FLEXIBLE CLASSROOM/STUDIO
COMPUTER LABS
SCIENCE LABS

UNITS HEIGHT

12	21.0			
11	19.25			
10	17.5	WMRX 1 MAKE/MODEL T.B.D.	(DIGITAL WL RX)	WMRX 2 MAKE/MODEL T.B.D.
9	15.75	AMP MAKE/MODEL T.B.D.		
8	14.0	DSP 1		MAKE T.B.D. MODEL T.B.D.
7	12.25	ESWP POE SWITCH		MAKE T.B.D. MODEL T.B.D.
6	10.5			
5	8.75	HDRX 1 MAKE/MODEL T.B.D.	HDRX 2 MAKE/MODEL T.B.D.	WPS (COLLAB SYS) MAKE/MODEL T.B.D.
4	7.0	OFE PC SOFT CODEC		MAKE T.B.D. MODEL T.B.D.
3	5.25	UCD 1 MAKE/MODEL T.B.D.	UCD 2 MAKE/MODEL T.B.D.	UCD 3 MAKE/MODEL T.B.D.
2	3.5	MATX PRESENTATION SWR		MAKE T.B.D. MODEL T.B.D.
1	1.75	PDU PWR SEQ		MAKE T.B.D. MODEL T.B.D.

11 POWER OUTLETS REQUIRED

3 LEARNING & RESOURCE CENTER - TYP 1, FLEXIBLE CLASSROOM/STUDIO - TYP 1,
COMPUTER LABS - TYP 2, SCIENCE LABS - TYP 3
SCALE: NTS



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DSA SUBMITTAL

DECEMBER 17, 2021

SHEET TITLE

RACK
ELEVATIONS

SHEET NUMBER

AV801

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Project Address:	505 Fairview Road Hollister 95023	Calculation Date/Time:	08:21, Wed, Dec 15, 2021
Input File Name:	QKA-082_Gavilan_DSA.cibd19x		

A. GENERAL INFORMATION			
1	Project Location (city)	Hollister	8
2	CA Zip Code	95023	9
3	Climate Zone	4	10
4	Total Conditioned Floor Area in Scope	34,948 ft ²	11
5	Total Unconditioned Floor Area	213 ft ²	12
6	Total # of Stories (Habitable Above Grade)	1	13
7	Total # of dwelling units	0	14

B. PROJECT SUMMARY			
Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.			
Building Components Complying via Performance		Building Components Complying Prescriptively	
Envelope (see Table G)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	Covered Process: Commercial Kitchens	<input type="checkbox"/> Performance <input type="checkbox"/> Not Included
Mechanical (see Table H)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	Covered Process: Computer Rooms	<input type="checkbox"/> Performance <input type="checkbox"/> Not Included
Domestic Hot Water (see Table I)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	Covered Process: Laboratory Exhaust	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included
Lighting (Indoor Conditioned, see Table K)	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included		
Solar Thermal Water Heating (see Table L)	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included		

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ² -yr)			
COMPLIES			
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	12.69	10.90	1.79
Space Cooling	69.38	38.36	31.02
Indoor Fans	23.18	44.46	-21.28
Heat Rejection	--	--	--
Pumps & Misc.	0.07	--	0.07
Domestic Hot Water	11.29	26.31	-15.02
Indoor Lighting	42.27	38.09	4.18
ENERGY STANDARDS COMPLIANCE TOTAL	158.88	158.12	0.76 (0.5%)

¹ Notes: The number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS ¹			
<input type="checkbox"/> This project is pursuing CalGreen Tier 1 <input type="checkbox"/> This project is pursuing CalGreen Tier 2			
Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Receptacle	65.75	65.75	--
Process	1.42	1.42	--
Other Ltg	0.14	0.14	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	226.19	225.43	0.8 (0.3%)

¹ Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

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C3. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	15.5	--	216.9	--	--
Space Cooling	54.1	26.8	27.3	--	--	--
Indoor Fans	25.8	49.9	-24.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	0.1	--	0.1	--	--	--
Domestic Hot Water	8.6	34.7	-26.1	91.4	--	--
Indoor Lighting	51.7	46.6	5.1	--	--	--
Compliance Total	140.3	173.5	-33.2	308.3	0.0	--
Receptacle	81.5	81.5	0.0	1.5	1.5	0.0
Process	1.8	1.8	0.0	--	--	--
Other Ltg	0.2	0.2	0.0	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	223.8	257.0	-33.2	309.8	1.5	308.3

D. EXCEPTIONAL CONDITIONS
The proposed building claims credit for non-mandatory lighting control credits via Power Adjustment Factors (PAFs) as outlined in Standards Table 140.6-A. Review NRCC-PRF-LTI DETAILS Table A to ensure that credit is not claimed for mandatory controls.
This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION
This Section Does Not Apply

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)			
1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ¹	4,181 ft ²	749 ft ²	17.9%
East-Facing ²	8,937 ft ²	4,043 ft ²	45.2%
South-Facing ³	4,872 ft ²	879 ft ²	18.0%
West-Facing ⁴	9,274 ft ²	3,538 ft ²	38.2%
Total	27,264 ft²	9,209 ft²	33.8%
Roof	34,010 ft ²	80 ft ²	00.2%

Notes:
¹North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
²East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
³South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
⁴West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY									
1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status ¹
Ext Wall10	ExteriorWall	27556	Wood	21	10	U-Factor	0.038	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.	N
Slab On Grade15	UndergroundFloor	35161	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	N

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY									
1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status ¹
Project Roof17	Roof	34223	Metal	15	30	U-Factor	0.028	Metal Standing Seam - 3/16 in. Gypsum Board - 5/8 in. Compliance Insulation R30.00 Gypsum Board - 5/8 in. Metal Framed wall, 16in. OC, 3.5in., R-15 Metal Deck - 1/16 in.	N
Int Wall19	InteriorWall	31631	Wood	21	NA	U-Factor	0.063	Gypsum Board - 5/8 in. Wood Framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 5/8 in.	N
Project Roof171	Ceiling	939	Metal	15	30	U-Factor	0.028	Metal Standing Seam - 3/16 in. Gypsum Board - 5/8 in. Compliance Insulation R30.00 Gypsum Board - 5/8 in. Metal framed wall, 16in. OC, 3.5in., R-15 Metal Deck - 1/16 in.	N

¹ Status: N - New, A - Altered, F - Existing

G4. OPAQUE DOOR SUMMARY		
1	2	3
Assembly Name	Overall U-Factor	Status ¹
Metal Door425	0.700	N

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G5. FENESTRATION ASSEMBLY SUMMARY								
1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area ft ²	Overall U-Factor	Overall SHGC	Overall VT	Status ²
Project Glazing	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	9209	0.45	0.23	0.55	N
Project Skylight	Skylight FixedWindow N/A	NFRC Rated	Manufactured	80	0.45	0.23	0.55	N

¹ Newly installed fenestration shall have a certified NFRC label Certificate or use the CEE default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
² Status: N - New, A - Altered, F - Existing

G6. OVERHANG DETAILS					
1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
103	South	12.0	8.6	0.0	12.0
105	East	4.0	8.6	0.0	0.0
119	East	4.0	8.6	0.0	0.0
133	East	1.0	8.6	0.0	0.0
134	East	1.0	8.6	0.0	0.0
135	East	1.0	8.6	0.0	0.0
136	East	1.0	8.6	0.0	0.0
137	East	1.0	8.6	0.0	0.0
138	East	1.0	8.6	0.0	0.0
139	East	1.0	8.6	0.0	0.0
140	East	1.0	8.6	0.0	0.0
141	East	1.0	8.6	0.0	0.0
142	East	1.0	8.6	0.0	0.0
197	North	15.0	17.1	10.0	0.0
198	North	15.0	17.1	10.0	0.0

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G6. OVERHANG DETAILS					
1	2	3	4	5	6
Fenestration Tag/ID	Orientation	Depth(ft.)	Height from Bottom of Sill to Overhang(ft)	Right Extent(ft)	Left Extent(ft)
200	East	10.0	17.1	0.0	15.0
202	East	10.0	17.1	0.0	15.0
242	East	10.0	17.1	0.0	15.0
249	South	15.0	17.1	10.0	0.0
303	West	8.0	17.1	8.0	8.0
593	East	4.0	7.1	0.0	0.0
608	East	4.0	7.1	0.0	0.0
612	North	12.0	7.1	0.0	12.0
630	North	10.0	5.1	0.0	15.0

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)											
1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating			Cooling			Economizer Type (if present)	Status ¹	
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit			Efficiency
HP-1	SZHP (Packaged3Phase)	1	46	0	HSPF	8.30	48	SEER EER	14.00 12.20	NoEconomizer	N
HP-2	SZHP (Packaged3Phase)	1	46	0	HSPF	8.30	48	SEER EER	16.20 11.70	DifferentialDryBulb	N
HP-3	SZHP (Packaged3Phase)	1	46	0	HSPF	8.30	48	SEER EER	16.20 11.70	DifferentialDryBulb	N
HP-4	SZHP (Packaged3Phase)	1	46	0	HSPF	8.30	48	SEER EER	16.20 11.70	DifferentialDryBulb	N
HP-5	SZHP (Packaged3Phase)	1	46	0	HSPF	8.30	48	SEER EER	16.20 11.70	DifferentialDryBulb	N

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H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)											
1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	Equipment Type	Qty	Heating			Cooling			Economizer Type (if present)	Status ¹	
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit			Efficiency
HP-6	SZVAHP (Packaged3Phase)	1	116	0	COP	3.50	124	EER	12.3	DifferentialDryBulb	N
HP-7	SZVAHP (Packaged3Phase)	1	116	0	COP	3.50	124	EER	12.3	DifferentialDryBulb	N
HP-8	SZHP (Packaged3Phase)	1	34	0	HSPF	8.30	36	SEER EER	14.00 12.20	NoEconomizer	N
HP-9	SZHP (Packaged3Phase)	1	34	0	HSPF	8.30	36	SEER EER	16.20 11.70	DifferentialDryBulb	N
HP-10	SZHP (Packaged3Phase)	1	47	0	HSPF	8.30	50	SEER EER	11.70	DifferentialDryBulb	N
HP-11	SZHP (Packaged3Phase)	1	47	0	HSPF	8.30	50	SEER EER	16.20 11.70	DifferentialDryBulb	N

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1	2	3	4	5	6	7
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H2O)
Cafe BOH400	9-Cafe BOH	1	1,300	0.250	218.0	0.79

1	2	3	4	5	6	7	8	9	10	11	12	
Name or Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Pumps					Notes
							Qty	GPM	HP	VSD (Y/N)		
<i>Notes: N - New, A - Altered, F - Existing</i>												

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
HP-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
HP-2	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-3	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-4	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-5	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control

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1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
HP-6	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-7	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-8	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
HP-9	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-10	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-11	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-12	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-13	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
HP-14	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control

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1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
HP-15	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	1 Zones With CO2Sensor Vent. Control, No DDC Differential Drybulb Economizer No Supply Air Temp. Control
FC-2/ CU-2	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
FC-1/ CU-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
DHW-11 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC
DHW-2639 - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-082E.

1	2	3	4	5	6	7	8	9
Zone Name	Ventilation Function	Mechanical Ventilation			Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both	
		# hotel rooms	# of people	# of bedrooms				
1-Classroom	Education - Lecture/postsecondary classroom General - Corridors	0	30.51	0	497	0	1582	NA
2-Classroom	Education - Lecture/postsecondary classroom General - Corridors Exhaust - Toilets, public	0	32.15	0	507	0	2093	NA
3-Classroom	Education - Lecture/postsecondary classroom	0	27.09	0	406	0	1084	NA
4-Classroom	Education - Lecture/postsecondary classroom	0	26.04	0	391	0	1041	NA

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1	2	3	4	5	6	7	8	9
Zone Name	Ventilation Function	Mechanical Ventilation			Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
		# hotel rooms	# of people	# of bedrooms				
5-Classroom	Education - Lecture/postsecondary classroom Office - Office space General - Conference/meeting	0	33.87	0	531	0	1555	NA
6-Community Room	General - Conference/meeting General - Unoccupied	0	113.86	0	1701	0	3712	NA
7-Lobby	Office - Main entry lobbies General - Corridors Exhaust - Toilets, public Office - Office space	0	149.26	0	2449	0	8420	NA
8-Conference	General - Conference/meeting Office - Office space	0	9.66	0	189	0	789	NA
9-Cafe BOH	Exhaust - Kitchensettes General - Unoccupied	0	1.50	0	0	1300	693	NA
10-Classroom	Education - Lecture/postsecondary classroom Office - Office space General - Conference/meeting	0	43.66	0	669	0	1763	NA
11-Classroom	Education - Lecture/postsecondary classroom General - Corridors	0	43.09	0	733	0	2644	NA
12-Classroom	Education - Lecture/postsecondary classroom General - Corridors	0	54.36	0	860	0	2651	NA

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1	2	3	4	5	6	7	8	9
Zone Name	Ventilation Function	Mechanical Ventilation			Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
		# hotel rooms	# of people	# of bedrooms				
13-LRC	Assembly - Libraries (reading rooms and stack areas) Office - Office space Office - Occupiable storage rooms for dry materials	0	19.27	0	408	0	2722	NA
14-Classroom	Education - Lecture/postsecondary classroom	0	36.20	0	543	0	1448	NA
15-Classroom	Education - Lecture/postsecondary classroom	0	54.42	0	816	0	2177	NA
17-Elec/Mech	General - Unoccupied	0	0.35	0	0	0	232	NA
18-Elec/Mech	General - Unoccupied	0	0.51	0	0	0	341	NA

Multi-family or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY) No

Does the Project include Zonal Systems? No

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Classroom-Trm	1-Classroom	Uncontrolled	NA	NA	1605	NA	0.00	NA	NA	NA	<input type="checkbox"/>
2-Classroom-Trm	2-Classroom	Uncontrolled	NA	NA	1605	NA	0.00	NA	NA	NA	<input type="checkbox"/>
3-Classroom-Trm	3-Classroom	Uncontrolled	NA	NA	1605	NA	0.00	NA	NA	NA	<input type="checkbox"/>
4-Classroom-Trm	4-Classroom	Uncontrolled	NA	NA	1605	NA	0.00	NA	NA	NA	<input type="checkbox"/>

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1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
5-Classroom-Trm	5-Classroom	Uncontrolled	NA	NA	1600	NA	0.00	NA	NA	NA	<input type="checkbox"/>
6-Community Room-Trm	6-Community Room	VAV/NoReheatBox	NA	NA	4000	2640	0.66	NA	NA	NA	<input type="checkbox"/>
7-Lobby-Trm	7-Lobby	VAV/NoReheatBox	NA	NA	4000	2640	0.66	NA	NA	NA	<input type="checkbox"/>
8-Conference-Trm	8-Conference	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	<input type="checkbox"/>
9-Cafe BOH-Trm	9-Cafe BOH	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	<input type="checkbox"/>
10-Classroom-Trm	10-Classroom	Uncontrolled	NA	NA	1990	NA	0.00	NA	NA	NA	<input type="checkbox"/>
11-Classroom-Trm	11-Classroom	Uncontrolled	NA	NA	1990	NA	0.00	NA	NA	NA	<input type="checkbox"/>
12-Classroom-Trm	12-Classroom	VAV/NoReheatBox	NA	NA	2400	1585	0.66	NA	NA	NA	<input type="checkbox"/>
13-LRC-Trm	13-LRC	VAV/NoReheatBox	NA	NA	3000	1980	0.66	NA	NA	NA	<input type="checkbox"/>
14-Classroom-Trm	14-Classroom	Uncontrolled	NA	NA	1980	NA	0.00	NA	NA	NA	<input type="checkbox"/>
15-Classroom-Trm	15-Classroom	VAV/NoReheatBox	NA	NA	3400	2245	0.66	NA	NA	NA	<input type="checkbox"/>
17-Elec/Mech-Trm	17-Elec/Mech	Uncontrolled	NA	NA	380	NA	0.00	NA	NA	NA	<input type="checkbox"/>
18-Elec/Mech-Trm	18-Elec/Mech	Uncontrolled	NA	NA	380	NA	0.00	NA	NA	NA	<input type="checkbox"/>

This Section Does Not Apply

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-Value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	1st Hour Rating or Flow Rate (gal)	Tank Location or Ambient Condition
RHEEM - ELDS2-182	Electricity	Storage	2	50.00	6.0	kW	0.94	UEF	NA	NA	NA	NA	NA

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-Value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	1st Hour Rating or Flow Rate (gal)	Tank Location or Ambient Condition
RHEEM - ELDB0-TB3	Electricity	Storage	2	80.00	12.0	kW	0.94	UEF	NA	NA	NA	NA	NA
Bradford White - LEH2W3-1640	Electricity	Storage	1	12.00	4.0	kW	0.94	EF	NA	NA	NA	NA	NA

1	2	3	4	5	6
Occupancy Type 1	Conditioned Floor Area 2 (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	13,796	8,820	713	0	0
Corridor Area	5,891	4,706	0	0	0
Restrooms	1,254	1,056	0	0	0
Office Area (<250 square feet)	1,520	882	0	0	0
Convention, Conference, Multipurpose and Meeting Area	4,143	2,803	0	0	0
Electrical, Mechanical, Telephonic Rooms	1,120	410	0	0	0
Main Entry Lobby	3,782	2,726	0	0	0
Office Area (>250 square feet)	701	254	0	0	0
Kitchenette or Residential Kitchen	457	246	0	0	0

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1	2	3	4	5	6
Occupancy Type 1	Conditioned Floor Area 2 (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Library (Reading Area)	1,644	1,000	52	0	0
Commercial/Industrial Storage (Warehouse)	641	240	0	0	0
Building Totals:	34,949	23,143	765	0	0

¹ See Table 240.6-C
² See NRCC-01-01-E for unconditioned spaces
³ Lighting information for existing spaces installed is not included in the table

1	2	3	4	5	6
Name or Item Tag					

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K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft ² in offices)		Installed Watts (Conditioned)			
1	2	3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number of Luminaires	Installed Watts
M20	M20	240	According to §130.0(c)	1	240
M3	M3	36	According to §130.0(c)	2	72
M8	M8	96	According to §130.0(c)	21	2,016
N	N	65	According to §130.0(c)	8	520
P13	P13	92	According to §130.0(c)	2	184
P14	P14	99	According to §130.0(c)	2	198
P16	P16	114	According to §130.0(c)	2	228
P18	P18	166	According to §130.0(c)	2	332
P4	P4	28	According to §130.0(c)	3	84
P6	P6	43	According to §130.0(c)	1	43

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified - none specified - none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-2-Corridors	Corridor Area	NA	0.00 0.00 0.00 0.00	H	216.0	3	216	0
S-2-Corridors	Corridor Area	NA	0.00 0.00 0.00 0.00	F	47.0	2	47	0
S-3-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified - none specified - none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-4-Corridors	Corridor Area	NA	0.00 0.00 0.00 0.00	F	94.0	4	94	0
S-4-Corridors	Corridor Area	NA	0.00 0.00 0.00 0.00	H	432.0	6	432	0
S-5-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	F	47.0	2	47	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-5-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	C4	47.0	1	47	0
S-5-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	D2	28.0	1	28	0
S-5-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	C4	47.0	1	47	0
S-5-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0
S-6-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified - none specified - none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-7-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified - none specified - none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-8-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00	F	23.5	1	24	0
S-8-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified - none specified - none specified -	0.10 0.00 0.00 0.00	B13	650.0	5	650	65
S-9-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00	B4	80.0	2	80	0
S-9-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00	B4	80.0	2	80	0
S-9-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00	B4	80.0	2	80	0
S-10-Conference	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	B8	160.0	2	160	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	D2	56.0	2	56	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	D3	46.0	1	46	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	D4	180.0	3	180	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	D6	90.0	1	90	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	H1	1512.0	21	1512	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	G	76.0	4	76	0
S-11-Community Room	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	A	123.0	3	123	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-12-AV Closet	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	123.0	3	123	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	F	23.5	1	24	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	M20	240.0	1	240	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	M12	144.0	1	144	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	M8	1056.0	11	1056	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	G	57.0	3	57	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	F	23.5	1	24	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	M3	72.0	2	72	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	M8	960.0	10	960	0
S-13-Lobby	Main Entry Lobby	NA	0.00 0.00 0.00 0.00	K3 (3 @ 25W)	150.0	2	150	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	H	1008.0	14	1008	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	F	47.0	2	47	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	H	936.0	13	936	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	D2	56.0	2	56	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	P6	43.0	1	43	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	P4	84.0	3	84	0
S-14-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	P13	184.0	2	184	0
S-15-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	C12	141.0	1	141	0
S-15-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	F	282.0	12	282	0

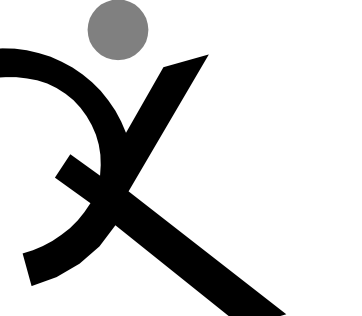
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6384 Report Generated at: 2021-12-15 08:23:34

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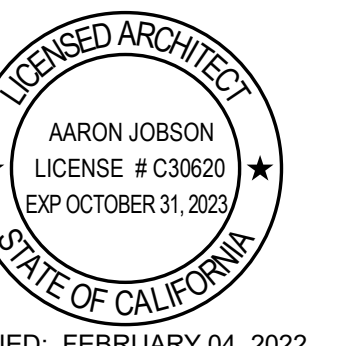
K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-15-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	C12	141.0	1	141	0
S-15-Restroom	Restrooms	NA	0.00 0.00 0.00 0.00	F	282.0	12	282	0
S-16-Office	Office Area (>250 square feet)	NA	0.00 0.00 0.00 0.00	P14	198.0	2	198	0
S-16-Office	Office Area (>250 square feet)	NA	0.00 0.00 0.00 0.00	D2	56.0	2	56	0
S-17-Conference	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00 0.00	P16	228.0	2	228	0
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00	B4	80.0	2	80	0

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45 Fremont Street, Suite 1500, San Francisco, CA 94105, United States
Tel 415.433.3700, Fax 415.836.4599

GAVILAN COLLEGE

NEW COLLEGE CAMPUS

Project Name:	Gavilan CollegeSan Benito County Campus	NRCC-PRF-01-E	Page 28 of 37
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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	B4	80.0	2	80	0
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	B4	80.0	2	80	0
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	B4	80.0	2	80	0
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	B6	40.0	1	40	0
S-18-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	B4	40.0	1	40	0
S-19-Cafe BOH	Kitchenette or Residential Kitchen	NA	0.00 0.00 0.00	A	164.0	4	164	0
S-19-Cafe BOH	Kitchenette or Residential Kitchen	NA	0.00 0.00 0.00	A	82.0	2	82	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
			0.00 0.00 0.00					
S-20-Maintenance	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00	A	41.0	1	41	0
S-20-Maintenance	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00	A	41.0	1	41	0
S-21-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00	H	144.0	2	144	0
S-21-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00	B24	720.0	3	720	0
S-22-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00	A	82.0	2	82	0
S-23-Conference	Convention, Conference, Multipurpose and Meeting Area	NA	0.00 0.00 0.00	P18	332.0	2	332	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-24-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified -- none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-25-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	F	70.5	3	71	0
S-25-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	H	576.0	8	576	0
S-25-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	D2	84.0	3	84	0
S-25-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	H	144.0	2	144	0
S-25-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	K6 (6 @ 25W)	300.0	2	300	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-26-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified -- none specified -- none specified -- none specified	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-26-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00	B12	360.0	3	360	0
S-27-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	H	360.0	5	360	0
S-27-Corridor	Corridor Area	NA	0.00 0.00 0.00 0.00	F	23.5	1	24	0
S-28-LRC	Library (Reading Area)	DaylightDimmingPlusOff- none specified -- none specified -- none specified -- none specified -	0.10 0.00 0.00 0.00	N	520.0	8	520	52
S-28-LRC	Library (Reading Area)	NA	0.00 0.00 0.00 0.00	D4	480.0	8	480	0
S-29-Office	Office Area (<250 square feet)	NA	0.00 0.00	B6	80.0	2	80	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-29-Office	Office Area (<250 square feet)	NA	0.00 0.00 0.00 0.00	B6	80.0	2	80	0
S-30-Storage	Commercial/Industrial Storage (Warehouse)	NA	0.00 0.00 0.00 0.00	B6	240.0	6	240	0
S-31-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified -- none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-32-Classroom	Classroom, Lecture, Training, Vocational Areas	DaylightDimmingPlusOff- none specified -- none specified -- none specified -- none specified -	0.10 0.00 0.00 0.00	B27	810.0	3	810	81
S-32-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00	B12	360.0	3	360	0
S-32-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00	A	82.0	2	82	0

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K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS								
Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)								
1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-34-Elec/Mech	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0
S-34-Elec/Mech	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0
S-35-Elec/Mech	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0
S-35-Elec/Mech	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0
S-35-Elec/Mech	Electrical, Mechanical, Telephone Rooms	NA	0.00 0.00 0.00 0.00	A	41.0	1	41	0

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K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS									
Building Level Controls					Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)				
Mandatory Demand Response §110.12(c)					Shut-Off Controls §130.1(c)				
Required					Required				
4	5	6	7	8	9	10			
Area Description	Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary Daylighting §130.1(d)	Secondary Daylighting §140.5(d)			

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DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/	
Building Component	Form/Title
Envelope	NRCC-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCC-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCC-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCC-LTI-01-E - Must be submitted for all buildings NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance

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DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/	
Building Component	Form/Title
Envelope	NRCC-ENV-02-F - NRCC label verification for fenestration
Indoor Lighting	NRCC-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCC-LTI-04-A - Demand Responsive Lighting Controls
Mechanical	NRCC-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCC-MCH-03-A Constant Volume Single Zone HVAC NRCC-MCH-05-A Air Economizer Controls NRCC-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints NRCC-MCH-07-A Supply Fan Variable Flow Controls NRCC-MCH-12-A FDD for Packaged Direct Expansion Units NRCC-MCH-20-Multifamily Ventilation

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name:	Signature:
Company: Guttman & Blaevoet Consulting Engineers	<i>Matt Hargadon</i>
Address: 2351 Powell St	Signature Date: 2021-12-15
City/State/Zip: San Francisco CA 94133	CEA/HERS Certification Identification (if applicable):
Phone: 4156554000	

RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Envelope Designer Name:	Signature:
Company: Quattrocchi Kwok Architects	<i>William Estes</i>
Address: 636 Fifth Street	Date Signed: 12/15/21
City/State/Zip: Santa Rosa CA 95404	Title: Principal License #: C30620
Phone: 707.578.0829	
Responsible Lighting Designer Name:	Signature:
Company: Aurum Consulting Engineers	<i>Eldridge O. Bell</i>
Address: 404 W. Franklin St. #100	Date Signed: 12/15/2021
City/State/Zip: Monterey CA 93940	
Phone: 831-646-3330	Title: Electrical Engineer License #: E17789
Responsible Mechanical Designer Name - specify:	Signature:
Company: Axiom Engineers, Inc.	<i>William Estes</i>
Address: 22 Lower Ragsdale, Suite A	Date Signed: 12/15/2021
City/State/Zip: Monterey, CA 93940	Title: Mechanical Engineer License #: M24908
Phone: 831.649.8000	

DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
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Building Component	Form/Title
Envelope	NRCC-ENV-02-F - NRCC label verification for fenestration
Indoor Lighting	NRCC-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCC-LTI-04-A - Demand Responsive Lighting Controls
Mechanical	NRCC-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCC-MCH-03-A Constant Volume Single Zone HVAC NRCC-MCH-05-A Air Economizer Controls NRCC-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints NRCC-MCH-07-A Supply Fan Variable Flow Controls NRCC-MCH-12-A FDD for Packaged Direct Expansion Units NRCC-MCH-20-Multifamily Ventilation

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SIGNED: FEBRUARY 04,