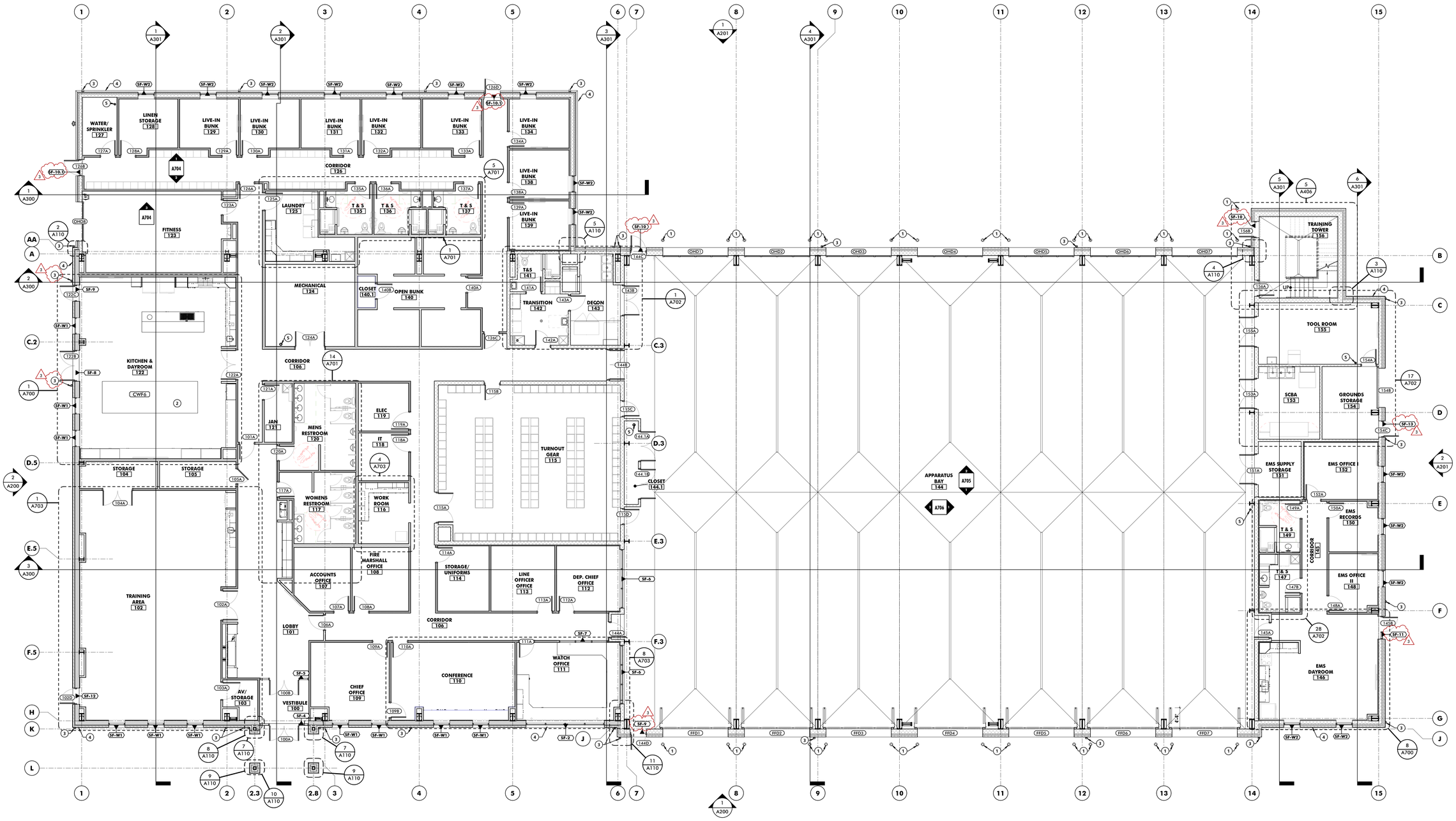
GENERAL REFERENCE PLAN NOTES

1	FURNITURE SHOWN FOR REFERENCE PURPOSES ONLY.

REFERENCED NOTES - NEW CONSTRUCTION

0	
1	REMOVABLE BOLLARD, SEE SITE PLAN
2	RAISED PLATFORM. SEE ENLARGED PLAN. FINAL SIZE AND FLOOR POWER BOXES TO BE COORDINATED WITH OWNER-PROVIDED FURNITURE.
3	4" X 5" PREFINISHED ALUMINUM DOWNSPOUT WITH RECTANGULAR CAST IRON BOOT AND CLEANOUT. COLOR TO MATCH FASCIA.
4	CAST STONE SILL
5	RADON/SOIL GAS RISER - SEE SPECIFICATIONS



1 FIRST FLOOR REFERENCE PLAN

1/8" = 1'-0"

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SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF PENNSYLVANIA.

LICENSE NUMBER: #RA405311
EXPIRATION DATE: 6-30-2027

EXETER TOWNSHIP EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING, PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	2026-10-29

LAST PROJECT REVISION: No 3 | 2026-10-29

REFERENCE PLAN

SHEET NUMBER:

A101

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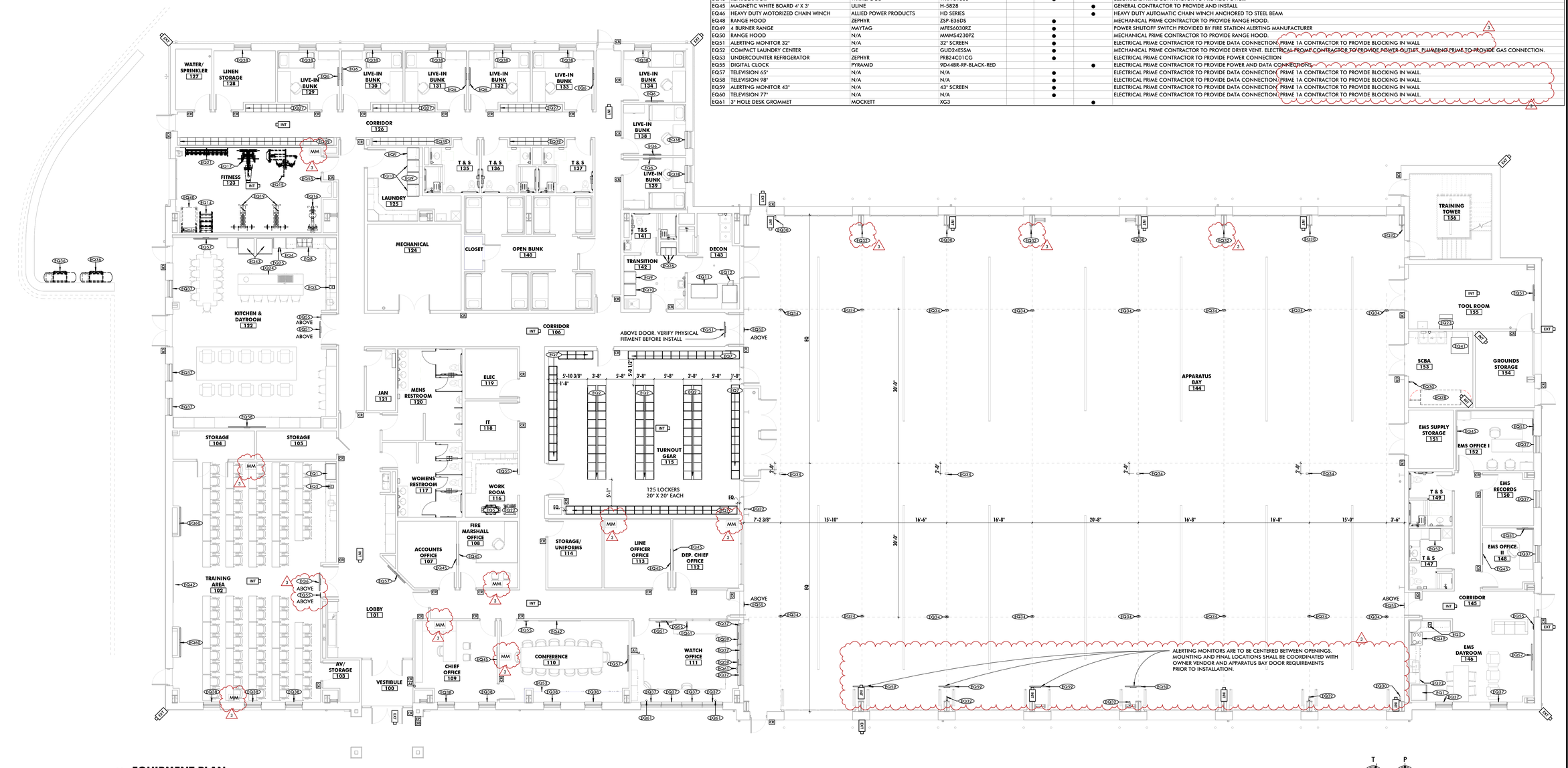
LEGEND - SPECIALTY SYSTEMS

TAG	FIXTURE / ACCESSORY	MANUFACTURER/MODEL
CR	CARD READER LOCATION	SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER VENDOR, INCLUDING ALL ASSOCAITED DEVICES AND LOW-VOLTAGE WIRING. EC SHALL PROVIDE CONDUIT/CABLE TRAYS/PATHWAYS ONLY.
AI$_D$	INTERCOM STATION - DOOR LOCATION	SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER VENDOR, INCLUDING ALL ASSOCAITED DEVICES AND LOW-VOLTAGE WIRING. EC SHALL PROVIDE CONDUIT/CABLE TRAYS/PATHWAYS ONLY.
AI$_M$	INTERCOM STATION - MASTER LOCATION	SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER VENDOR, INCLUDING ALL ASSOCAITED DEVICES AND LOW-VOLTAGE WIRING. EC SHALL PROVIDE CONDUIT/CABLE TRAYS/PATHWAYS ONLY.
EP	EMERGENCY PHONE LOCATION	
DB	DOOR BUZZER LOCATION	SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER VENDOR, INCLUDING ALL ASSOCAITED DEVICES AND LOW-VOLTAGE WIRING. EC SHALL PROVIDE CONDUIT/CABLE TRAYS/PATHWAYS ONLY.
INT	CAMERA LOCATION - GENERAL INTERIOR	SYSTEM SHALL BE PROVIDED AND INSTALLED BY OWNER VENDOR, INCLUDING ALL ASSOCAITED DEVICES AND LOW-VOLTAGE WIRING. EC SHALL PROVIDE CONDUIT/CABLE TRAYS/PATHWAYS ONLY.
EXT	CAMERA LOCATION - GENERAL EXTERIOR	
MM	THIS IS A LOCATION WHERE BLOCKING IN WALL, POWER, AND DATA CONNECTIONS ARE REQUIRED. COORDINATE WITH OWNER/ OWNER VENDOR.	BY OWNER'S VENDOR

SCHEDULE - EQUIPMENT

MARK	DESCRIPTION	BOD MANUFACTURER	BOD MODEL	OWNER FURNISH AND INSTALL	OWNER FURNISH CONTRACTOR INSTALL	CONTRACTOR FURNISH AND INSTALL	COMMENTS
EQ1	REFRIGERATOR	WHIRLPOOL	WRFF3536S		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ2	STANDARD LOCKERS - TUBULAR FRAME - 20x20x83	GEAR GRID	STANDARD FIRE STATION FRAME MOUNT LOCKERS		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER CONNECTION WITH POWER BAR ACCESSORY
EQ3	COFFEE MAKER	T.B.D.	T.B.D.		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER OUTLETS ABOVE COUNTER.
EQ4	MICROWAVE	SHARP	SMC2266KS		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER OUTLETS ABOVE COUNTER
EQ5	PRINTER	T.B.D.	T.B.D.	●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION
EQ6	TELEVISION 43"	T.B.D.	T.B.D.		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL.
EQ7	WALL MOUNTED 20X20X74 1/2 TURNOUT GEAR LOCKERS	GEAR GRID	WALL MOUNTED STORAGE SYSTEM		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER TO OWNER PROVIDED POWER BAR ACCESSORY
EQ8	6 BURNER GAS RANGE	BLUE STAR	RNB366BV2		●		GAS SHUTOFF SWITCH PROVIDED BY FIRE STATION ALERTING MANUFACTURER
EQ9	CLOTHES DRYER	GE	GFD65GSSVWW		●		MECHANICAL PRIME CONTRACTOR TO PROVIDE DRYER VENT. ELECTRICAL PROME CONTRACTOR TO PROVIDE POWER OUTLET. PLUMBING PRIME CONTRACTOR TO PROVIDE GAS CONNECTION.
EQ10	CLOTHES WASHER	GE	GFW655SSVWW		●		PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ11	PPE DRYING CABINET	CIRCUL-AIR-CORP	PPE EXPRESS 6		●		MECHANICAL PRIME CONTRACTOR TO PROVIDE DRYER VENT. ELECTRICAL PROME CONTRACTOR TO PROVIDE POWER OUTLET. PLUMBING PRIME CONTRACTOR TO PROVIDE GAS CONNECTION.
EQ12	WASHER EXTRACTOR	CIRCUL-AIR-CORP	CACMWHD-55		●		PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ14	CLIMBMILL	N/A	N/A	●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER OUTLET
EQ15	MULTI-PRESS	N/A	N/A	●			
EQ16	EXERCISE BIKE	N/A	N/A	●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER OUTLET
EQ17	LAT PULLDOWN/ LOW ROW	N/A	N/A	●			
EQ19	MULTI-ADJUST BENCHES	N/A	N/A	●			
EQ21	DUMBBELL RACK	N/A	N/A	●			
EQ22	OFFICE PAPER SHREDDER	N/A	N/A	●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER CONNECTION
EQ23	ICE MAKER	TRUE	TCIM-422		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ24	DISHWASHER	MIELE	G 5056 SCVi		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ25	UNDER-COUNTER ICE MAKER	WHIRLPOOL	P6WG2KL		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ26	12"X12"X78" SIX-TIER PLASTIC LOCKERS	ASI STORAGE SOLUTIONS INC.	TRADITIONAL PLUS SERIES			●	RECESSED IN WALL 8" A.F.F., LATCHES TO RECEIVE OWNER PROVIDED LOCKS. GENERAL CONTRACTOR TO INSTALL/PROVIDE. LOCKERS TO BE THE ASI BURGUNDY FINISH
EQ27	18X18X72 SINGLE-TIER PLASTIC LOCKERS	ASI STORAGE SOLUTIONS INC.	TRADITIONAL PLUS SERIES			●	ELECTRICAL PRIME CONTRACTOR TO PROVIDE LED LIGHTING AT UNDERSIDE OF TOE KICK. LIGHTING TO BE TIED INTO FIRE STATION ALERTING SYSTEM. LOCKERS TO BE THE ASI BURGUNDY FINISH
EQ28	SCBA COMPRESSOR	STALLION AIR INC.	CENTAUR 3-G2	●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER CONNECTION AND WALL MOUNT DISCONNECT SWITCH
EQ30	AIR HOSE PORT	REELCRAFT	RS7850OLP			●	
EQ32	WATER HOSE REEL	REELCRAFT	D83075OOLP			●	PLUMBING PRIME CONTRACTOR TO INSTALL. AT COLUMN LOCATIONS, MOUNT BOTTOM OF UNIT AT 7' A.F.F.
EQ33	DISHWASHER	FRIGIDAIRE	FFBD2420US		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ34	ELECTRICAL CORD REEL	HUBBELL WIRING DEVICE-KELLEMS	HBLC25163C			●	
EQ35	VERTICAL COMPRESSOR - 60GAL	INGERSOLL RAND	2340L5			●	PLUMBING PRIME CONTRACTOR TO INSTALL.
EQ36	GAS GRILL	N/A	N/A	●			PLUMBING PRIME CONTRACTOR TO PROVIDE GAS CONNECTION. ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER CONNECTION. GAS SHUTOFF SWITCH PROVIDED BY FIRE STATION ALERTING MANUFACTURER
EQ37	MANUAL ROLLER SHADE	MECHO SHADE	MECHO/ 5X ECOVEIL SHEER 6855 CLAY			●	1% LIGHT FILTERING
EQ38	MANUAL DUAL ROLLER SHADE	MECHO SHADE	MECHO/ 5X ECHOVEIL SHEER 6855 CLAY AND CHELSEA 0262 SLATE			●	1% LIGHT FILTERING AND BLACKOUT, MOUNTING BRACKET #10
EQ39	18X18X72 (2) TIER PLASTIC LOCKERS	ASI STORAGE SOLUTIONS INC.	TRADITIONAL PLUS SERIES			●	ELECTRICAL PRIME CONTRACTOR TO PROVIDE LED LIGHTING AT UNDERSIDE OF TOE KICK. LIGHTING TO BE TIED INTO FIRE STATION ALERTING SYSTEM. LOCKERS TO BE THE ASI BURGUNDY FINISH
EQ40	TREADMILL			●			ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER OUTLET
EQ41	SCBA WASHER	CIRCUL-AIR-CORP	SCBA WASHER ROTO DECON		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER. PLUMBING PRIME CONTRACTOR TO PROVIDE WATER CONNECTION
EQ42	MAGNETIC WHITE BOARD 8' X 4'	ULINE	H-5830			●	GENERAL CONTRACTOR TO PROVIDE AND INSTALL
EQ43	REFRIGERATOR	WHIRLPOOL	WRFF3136S		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER.
EQ45	MAGNETIC WHITE BOARD 4' X 3'	ULINE	H-5828			●	GENERAL CONTRACTOR TO PROVIDE AND INSTALL
EQ46	HEAVY DUTY MOTORIZED CHAIN WINCH	ALLIED POWER PRODUCTS	HD SERIES			●	HEAVY DUTY AUTOMATIC CHAIN WINCH ANCHORED TO STEEL BEAM
EQ48	RANGE HOOD	ZEPHYR	ZSP-E36DS		●		MECHANICAL PRIME CONTRACTOR TO PROVIDE RANGE HOOD.
EQ49	4 BURNER RANGE	MAYTAG	MFES6030RZ		●		POWER SHUTOFF SWITCH PROVIDED BY FIRE STATION ALERTING MANUFACTURER
EQ50	RANGE HOOD	N/A	MMMS4230PZ		●		MECHANICAL PRIME CONTRACTOR TO PROVIDE RANGE HOOD.
EQ51	ALERTING MONITOR 32"	N/A	32" SCREEN		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL
EQ52	COMPACT LAUNDRY CENTER	GE	GUD24ESSM		●		MECHANICAL PRIME CONTRACTOR TO PROVIDE DRYER VENT. ELECTRICAL PROME CONTRACTOR TO PROVIDE POWER OUTLET. PLUMBING PRIME TO PROVIDE GAS CONNECTION.
EQ53	UNDERCOUNTER REFRIGERATOR	ZEPHYR	PRB24C01CG		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER CONNECTION
EQ55	DIGITAL CLOCK	PYRAMID	9D448R-RF-BLACK-RED			●	ELECTRICAL PRIME CONTRACTOR TO PROVIDE POWER AND DATA CONNECTIONS.
EQ57	TELEVISION 65"	N/A	N/A		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL.
EQ58	TELEVISION 98"	N/A	N/A		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL.
EQ59	ALERTING MONITOR 43"	N/A	43" SCREEN		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL.
EQ60	TELEVISION 77"	N/A	N/A		●		ELECTRICAL PRIME CONTRACTOR TO PROVIDE DATA CONNECTION. PRIME 1A CONTRACTOR TO PROVIDE BLOCKING IN WALL.
EQ61	3" HOLE DESK GROMMET	MOCKETT	XG3			●	



1 EQUIPMENT PLAN
1/8" = 1'-0"

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LICENSE NUMBER: #RA405311
EXPIRATION DATE: 6-30-2027

EXETER TOWNSHIP EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING, PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
1	2026-10-15
3	2026-10-29

LAST PROJECT REVISION: No 3 | 2026-10-29

EQUIPMENT PLAN

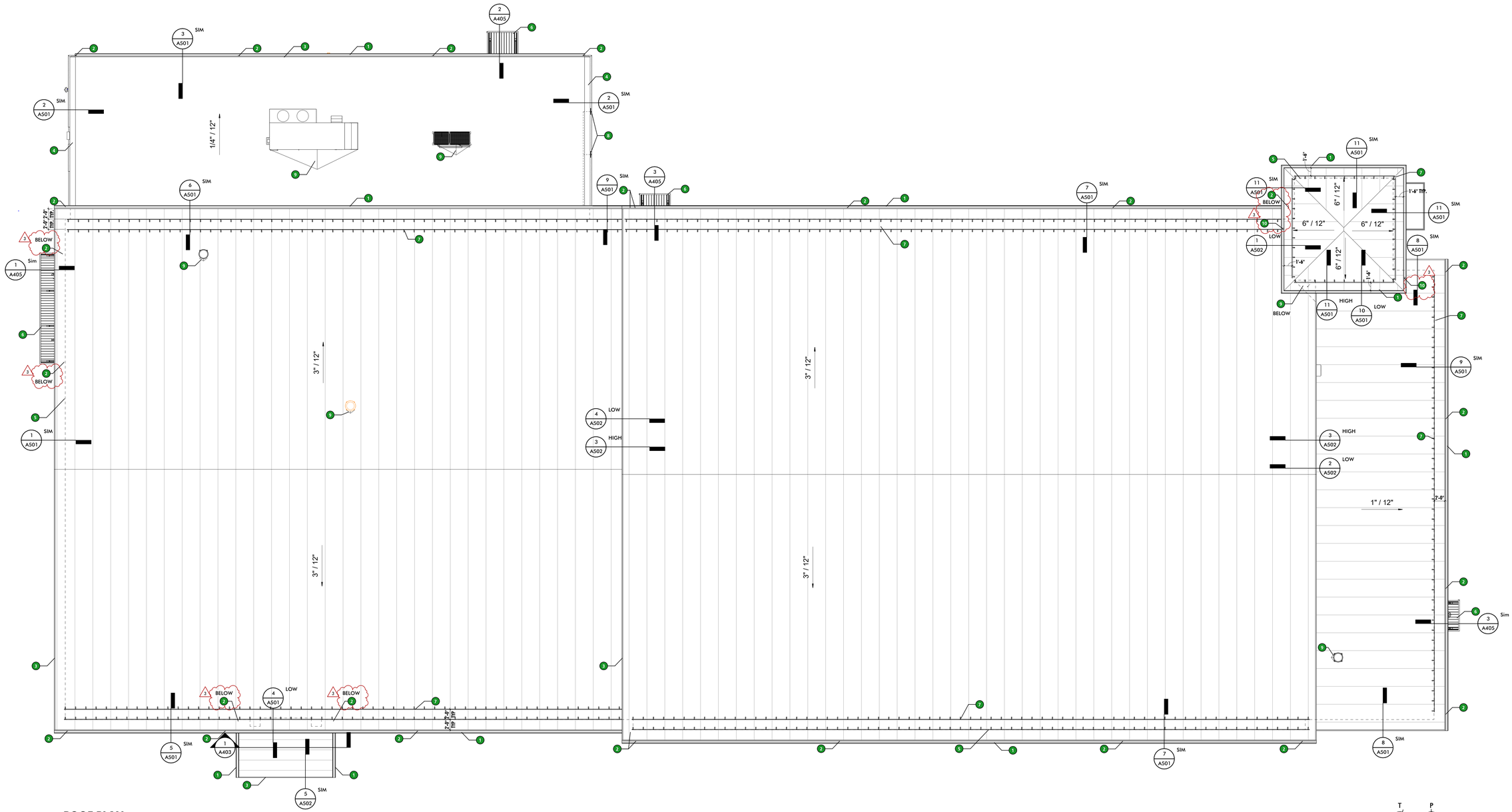
SHEET NUMBER:

A106

10/29/2026 3:06:52 PM

0	REFERENCED NOTES - ROOF PLANS
1	6" X 6" PREFINISHED ALUMINUM GUTTER. COLOR TO MATCH FASCIA.
2	4" X 5" PREFINISHED ALUMINUM DOWNSPOUT WITH RECTANGULAR CAST IRON BOOT. DOWNSPOUT COLOR TO MATCH FASCIA. SITE CONTRACTOR SHALL PROVIDE THE BOOT AND ALL ASSOCIATED UNDERGROUND PIPING. THE GENERAL CONTRACTOR SHALL PROVIDE THE DOWNSPOUT AND MAKE FINAL CONNECTIONS TO THE BOOT. SITE CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE DOWNSPOUT LOCATIONS FOR ACCURATE PLACEMENT OF BOOTS/CONNECTION LOCATIONS.
3	PREFINISHED ALUMINUM FASCIA
4	PREFINISHED METAL PARAPET COPING
5	EXTERIOR FACE OF CMU BACK-UP OF WALL ASSMEBLY BELOW
6	PRE-FABRICATED METAL CANOPY W/ CABLE BRACING. BASIS OF DEISGN SHALL BE MAPES ARCHITECTURAL CANOPIES - SUPER LUMIDECK FLAT SOFFIT CANOPY SYSTEM.
7	NON-PENETRATING SNOW RETENTION SYSTEM CLAMPED TO STANDING SEAMS
8	RADIO COMMUNICATIONS SYSTEM ANTENNA LOCATION. SEE GENERAL PROJECT NOTES FOR MORE INFORMATION.
9	ROOF CRICKET AS REQUIRED
10	4" x 5" PREFINISHED ALUMINUM DOWNSPOUT W/ OPEN DISCHARGE ONTO ROOF BELOW. COLOR TO MATCH FASCIA. PROVIDE SPLASH BLOCK.

GENERAL ROOFING NOTES	
1	BLOCKING/MISCELLANEOUS FRAMING INDICATED WITHIN THE DOCUMENTS IS SHOWN FOR THE PURPOSES OF DESIGN INTENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY, WHETHER SHOWN OR NOT SHOWN, TO PROVIDE BLOCKING/MISCELLANEOUS FRAMING AS REQUIRED TO PROPERLY SUPPORT ALL SUBSTRATES, FLASHINGS, COPINGS, BRAKE METAL, SOFFITS, INSULATIONS, CLIPS, STOPS, MISCELLANEOUS ITEMS, ROOFING MEMBRANES OR SYSTEMS AND SIMILAR ITEMS REQUIRED TO COMPLETE THE WORK. WHERE ADDITIONAL BLOCKING/MISCELLANEOUS FRAMING, INCLUDING BUT NOT LIMITED TO THE REPLACEMENT OF INDICATED SHEATHING/DECKING, IS RECOMMENDED BY ONE OF THE ASSEMBLY COMPONENTS MANUFACTURER, THE CONTRACTOR SHALL PROVIDE AND INSTALL SUCH BLOCKING/MISCELLANEOUS FRAMING TO COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
2	CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL ROOFING SUBSTRATE REQUIREMENTS TO ENSURE SUCCESSFUL INSTALLATION OF ROOFING MATERIALS IN A MANNER THAT MAINTAINS THE FULL PRODUCT WARRANTY AND COMPLIES WITH ALL APPLICABLE BUILDING CODES OF THE AHJ.



1 ROOF PLAN
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SHEET REVISION SCHEDULE:

No.	DATE
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ROOF PLAN

SHEET NUMBER:

A500

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SCHEDULE - DOOR

	DOOR PANEL					FRAME								GLAZING		DETAILS			RATINGS			
							SIZE SUMMARY		FRAME PROFILE SUMMARY													
MARK	SIZE	TYPE	THICKNESS	MATERIAL	FINISH	FRAME TYPE	OVERALL HEIGHT	OVERALL WIDTH	DEPTH	THROAT	HEAD	JAMB	SIDE LITE WIDTH	MATERIAL	FINISH	THICKNESS	TYPE	HEAD	JAMB	THRESHOLD	FIRE (IN MINUTES)	HARDWARE SET	COMMENTS	MARK
101A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	- -		19.0		101A
102A	(2) 3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	6'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		12.0		102A
103A	3'-6" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-10"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-8		21.0		103A
104A	(2) 3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	6'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -		26.0		104A
105A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -		22.0		105A
106A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	- -		18.0		106A
107A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		107A
108A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		108A
109A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		109A
109B	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -		22.0		109B
110A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		21.0		110A
111A	3'-0" x 7'-0"	PANEL : FG	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	- -		27.0		111A
112A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		112A
113A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		113A
114A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-1		18.0		114A
115A	(2) 3'-0" x 7'-0"	PANEL : N2	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-2	J-2	TS-5		12.0		115A
115B	3'-0" x 7'-0"	PANEL : N2	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-2	J-2	TH-3		13.0		115B
115C	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-13		35.0		115C
115D	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-13		35.0		115D
117A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TH-1		34.0		117A
118A	3'-6" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-10"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-4		21.0		118A
119A	3'-6" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-10"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-5		21.0		119A
120A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TH-1		34.0		120A
121A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -		25.0		121A
122A	(2) 3'-0" x 7'-0"	PANEL : FG	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	6'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	- -		33.0		122A
123A	3'-0" x 7'-0"	PANEL : FG	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-3		22.0		123A
124A	(2) 3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	6'-4"	8 1/4"	7 1/4"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-5		17.0		124A
125A	3'-6" x 7'-0"	PANEL : N2	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-10"	8 1/4"	7 1/4"	2"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-1	J-1	- -		28.0		125A
126A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1R	H-1	J-1	TS-1	20	14.0		126A
126C	3'-0" x 7'-0"	PANEL : N2	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1R	H-1	J-1	TS-1	20	14.0		126C
127A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-7	20	11.0		127A
128A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		128A
129A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		129A
130A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		130A
131A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		131A
132A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		132A
133A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		133A
134A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		134A
135A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TH-2	20	32.0		135A
136A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TH-2	20	32.0		136A
137A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TH-2	20	32.0		137A
138A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		138A
139A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -	20	23.0		139A
140A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1R	H-1	J-1	- -	20	16.0		140A
140B	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	- -		29.0		140B
141A	3'-0" x 7'-0"	PANEL : F	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	- -		31.0		141A
142A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	TH-3		18.0		142A
143A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	- -		28.0		143A
143B	(2) 3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-10		26.0		143B
144.1A	(2) 3'-0" x 7'-0"	PANEL : LL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	- -		30.0		144.1A
144.1B	(2) 3'-0" x 7'-0"	PANEL : LL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	- -		30.0		144.1B
144A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-3	J-3	TH-3		7.0		144A
144B	(2) 3'-0" x 7'-0"	PANEL : G	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TH-3		6.0		144B
145A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-5	20	15.0		145A
147B	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-2		31.0		147B
148A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		148A
149A	3'-0" x 7'-0"	PANEL : F	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-1	J-1	TS-2		31.0		149A
150A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		21.0		150A
151A	(2) 3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	GL4	H-2	J-2	TS-10	20	9.0		151A
152A	3'-0" x 7'-0"	PANEL : G	1 3/4"	SOLID WOOD	PREFINISHED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-1	J-1	TS-1		20.0		152A
153A	(2) 3'-0" x 7'-0"	PANEL : NL : NL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-10		9.1		153A
154A	3'-0" x 7'-0"	PANEL : LL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	TS-8		18.0		154A
155A	(2) 3'-0" x 7'-0"	PANEL NL : NL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	6'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-10		9.1		155A
156A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	1"	GL4	H-2	J-2	TS-8		28.0		156A
156C	3'-0" x 4'-6"	PANEL : F	1 3/4"	INSULATED HOLLOW METAL	PREFINISHED	HM ST	4'-8"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	- -	- -	- -	- -	- -	- -	156C
156D	3'-0" x 4'-6"	PANEL : F	1 3/4"	INSULATED HOLLOW METAL	PREFINISHED	HM ST	4'-8"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	- -	- -	- -	- -	- -	- -	156D
156E	3'-0" x 7'-0"	PANEL : F	1 3/4"	INSULATED HOLLOW METAL	PREFINISHED	HM ST	7'-4"	3'-4"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	- -	- -	- -	- -	- -	- -	156E
200A	3'-0" x 7'-0"	PANEL : N2	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-2"	3'-4"	5 7/8"	4 7/8"	2"	2"	0"	HOLLOW METAL	PAINTED	1/4"	GL1	H-2	J-2	- -		19.0		200A
201A	3'-6" x 7'-0"	PANEL : LL	1 3/4"	INSULATED HOLLOW METAL	PAINTED	HM ST	7'-4"	3'-10"	5 7/8"	4 7/8"	4"	2"	0"	HOLLOW METAL	PAINTED	0"	- -	H-2	J-2	- -		24.0		201A

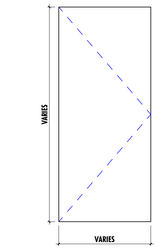
144C, 144D, 154C WERE MOVED TO THE STOREFRONT SCHEDULE ON A603 3

GENERAL DOOR NOTES

1	DETAILS MAY VARY AT EACH DOOR. VERIFY EACH CONDITION IN FIELD.
2	SEE PARTITION SCHEDULE, FLOOR PLAN, AND STRUCTURAL DRAWINGS FOR CONSTRUCTION OF WALLS AND PARTITIONS.
3	ALL DOORS SHALL BE SET WITHIN OPENINGS TO ENSURE ADA APPROACH COMPLIANCE AS INDICATED ON SHEET G003.
4	MOISTURE RESISTANT GYPSUM WALL BOARD SHALL BE UTILIZED IN ALL AREAS WHERE GYPSUM WALL BOARD IS TO BE DIRECTLY ADHERED TO CONCRETE OR MASONRY SURFACES IN INTERIOR APPLICATIONS. SUBSTRATE SHALL BE CLEANED AS REQUIRED AND FREE OF DUST, DEBRIS, AND MOISTURE PRIOR TO ADHESION AND FINISHING.
5	AT WALLS WITH INSULATION, CONTRACTOR SHALL SEAL DOOR FRAMES, GLAZED OPENING FRAMES, INTERSECTIONS, AND OTHER PENETRATIONS WITH ACOUSTICAL SEALANT.
6	SEE STOREFRONT/CURTAIN WALL SHEET FOR DOOR INFORMATION.

SCHEDULE - GLAZING

MARK	DESCRIPTION	COMMENTS
GL1	1/4" INTERIOR CLEAR SAFETY GLASS	TYPICAL INTERIOR GLAZING
GL1R	5/16" INTERIOR CLEAR RATED SAFETY GLASS	20 MIN RATED INTERIOR GLAZING
GL3	1" INSULATED, LOW-E, TINTED SAFETY GLAZING	TYPICAL EXTERIOR GLAZING
GL4	1" INSULATED, CLEAR GLASS	



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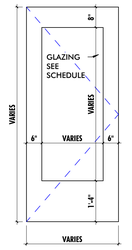

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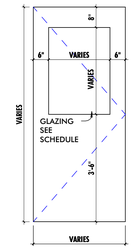
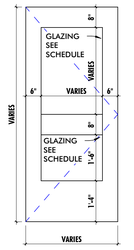
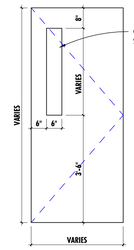


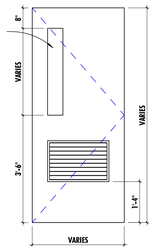
G



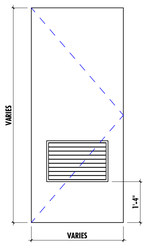
G2



N2



NL

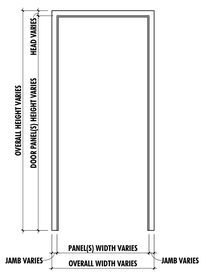


LL

1. SEE DOOR SCHEDULE FOR ACTUAL PANEL DIMENSIONS.
2. NOT ALL PANEL TYPES MAY BE USED IN THIS PROJECT, SEE DOOR SCHEDULE.
3. DIMENSIONS FOR GLAZING INDICATED SHALL CONSTITUTE THE FULL GLAZING WIDTH.
4. SEE STOREFRONT ELEVATIONS FOR CURTAIN WALL / STOREFRONT ENTRANCE

DOOR PANEL TYPES

1/2" = 1'-0"



HM ST	HOLLOW METAL STANDARD FRAME

1.) SEE DOOR SCHEDULE FOR FRAME DIMENSION VARIABLES

FRAME TYPES

1/2" = 1'-0"

MW STUDIOS
ARCHITECTURE + MASTER PLANNING
8098 SANDPIPER CIR, SUITE H
NOTTINGHAM, MD 21236
410-344-1460
INFO@MWSARCH.COM
WWW.MWSARCH.COM

SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF PENNSYLVANIA.

LICENSE NUMBER: #RA405311
EXPIRATION DATE: 6-30-2027

EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING, PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	2026-10-29

LAST PROJECT REVISION: No 3 | 2026-10-29

DOOR SCHEDULE & TYPES

SHEET NUMBER:

A600

10/29/2026 3:07:00 PM

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SCHEDULE - STOREFRONT DOOR

MARK	DOOR PANEL SIZE	TYPE	THICKNESS	MATERIAL	FINISH	Frame Type	FRAME SIZE SUMMARY OVERALL HEIGHT	FRAME SIZE SUMMARY OVERALL WIDTH	FRAME PROFILE SUMMARY DEPTH	FRAME PROFILE SUMMARY HEAD	FRAME PROFILE SUMMARY JAMB	FRAME PROFILE SUMMARY MATERIAL	FRAME PROFILE SUMMARY FINISH	GLAZING THICKNESS	GLAZING TYPE	RATINGS STC	RATINGS FIRE (IN MINUTES)	HARDWARE SET	COMMENTS	MARK
100A	6'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-4	8'-8"	10'-0"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	1.0		100A
100B	6'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-5	8'-8"	10'-0"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1/4"	GL1	N/A	0	1.0		100B
102D	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-12	8'-8"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	5.0		102D
122B	6'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-8	8'-8"	6'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	2.0		122B
122C	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-9	8'-8"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.0		122C
126B	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-10.1	7'-4"	3'-4"	4 1/2"	4"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.0		126B
126D	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-10.1	7'-4"	3'-4"	4 1/2"	4"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.0		126D
144C	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-10	7'-2"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.0		144C
144D	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-9	7'-2"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.0		144D
145B	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-11	7'-4"	4'-8"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	4.1		145B
154C	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-13	7'-2"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	0"	- -	N/A	0	8.0		154C
156B	3'-0" x 7'-0"	SEE ELEVATIONS	1 3/4"	FIBER REINFORCED PLASTIC	PREFINISHED	SF-10	7'-4"	3'-4"	4 1/2"	2"	2"	ALUMIMUM	PREFINISHED	1"	GL3	N/A	0	3.0		156B

144C, 144D, 154C WERE MOVED TO THIS SCHEDULE.
FRAME TYPES UPDATED

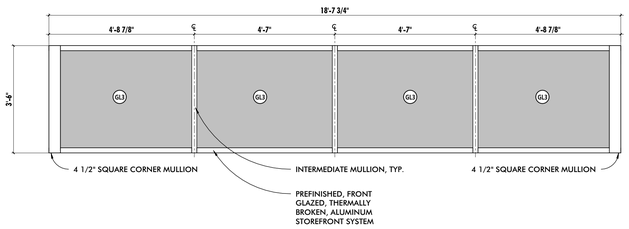
3

SCHEDULE - GLAZING

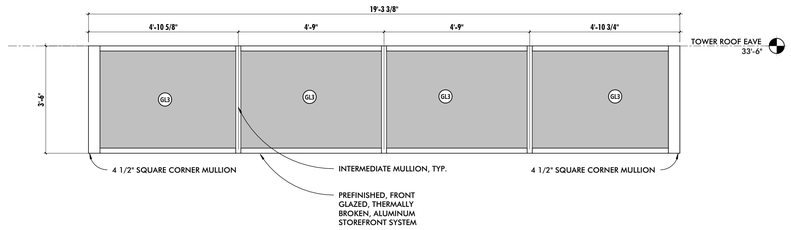
MARK	DESCRIPTION	COMMENTS
GL1	1/4" INTERIOR CLEAR SAFETY GLASS	TYPICAL INTERIOR GLAZING
GL1R	5/16" INTERIOR CLEAR RATED SAFETY GLASS	20 MIN RATED INTERIOR GLAZING
GL3	1" INSULATED, LOW-E, TINTED SAFETY GLAZING	TYPICAL EXTERIOR GLAZING
GL4	1" INSULATED, CLEAR GLASS	

GENERAL OPENING NOTES

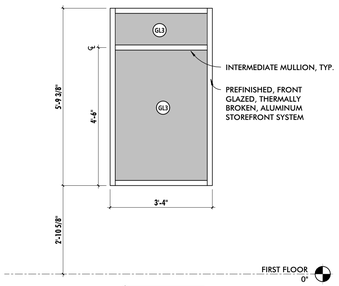
1	CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION OF DOORS, WINDOWS, STOREFRONT, ETC.



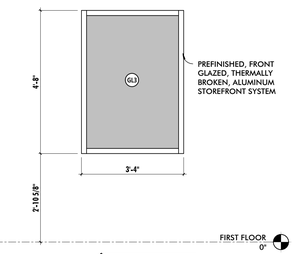
SF-1 HEAD: SF-H5 JAMB: N/A SILL: SF-S5



SF-1.1 HEAD: SF-H5 JAMB: N/A SILL: SF-S5



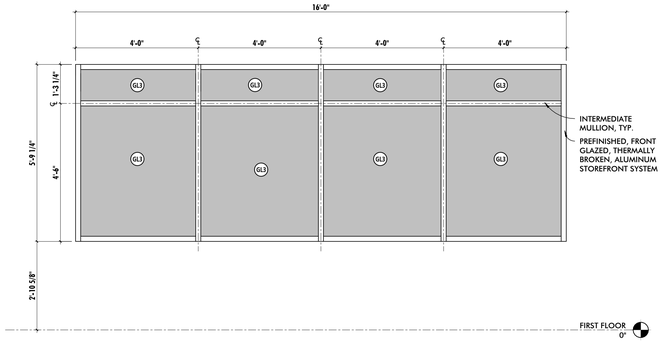
SF-W1 HEAD: SF-H1 JAMB: SF-J1 SILL: SF-S1



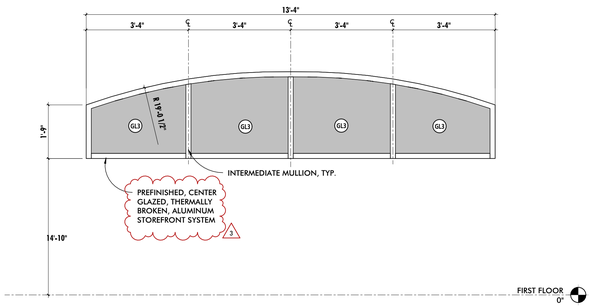
SF-W2 HEAD: SF-H2/SF-H3 JAMB: SF-J2/SF-J3 SILL: SF-S2

STOREFRONT WINDOW ELEVATIONS

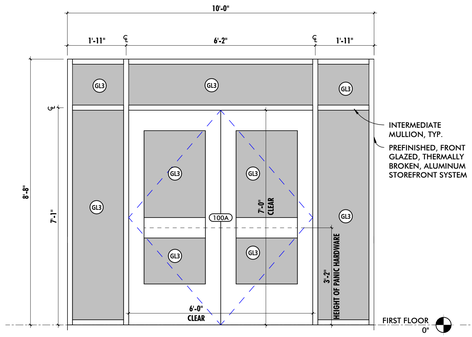
1/2" = 1'-0"



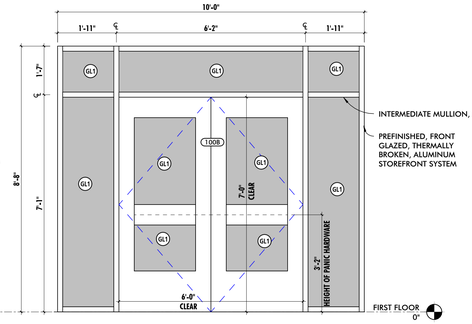
SF-2 HEAD: SF-H1 JAMB: SF-J1 SILL: SF-S1



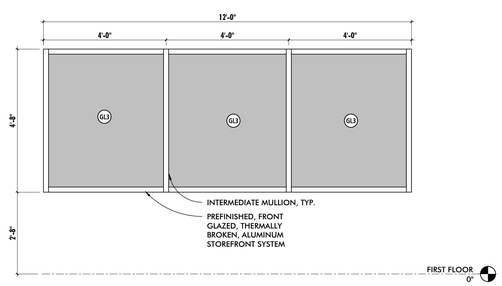
SF-3 HEAD: SF-H4 JAMB: SF-J4 SILL: SF-S3



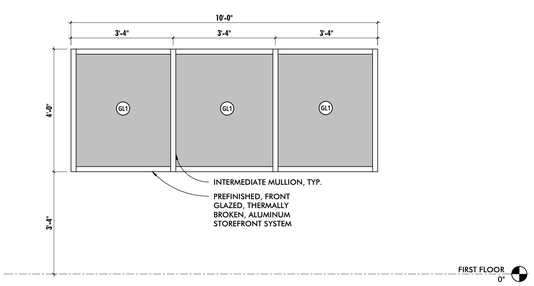
SF-4 HEAD: SF-H1 JAMB: SF-J1 SILL: SF-T3/SF-S9



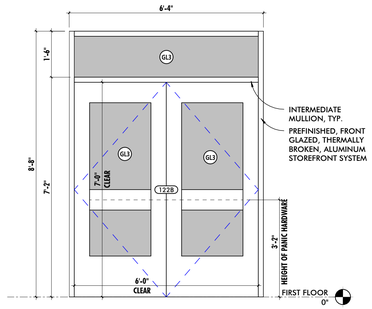
SF-5 HEAD: SF-H8 JAMB: SF-J8 SILL: SF-T2



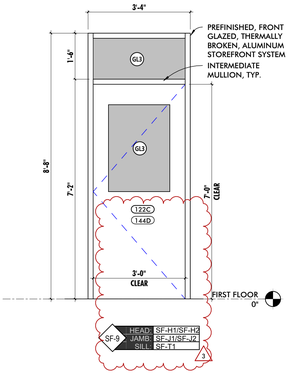
SF-6 HEAD: SF-H7 JAMB: SF-J7 SILL: SF-S7



SF-7 HEAD: SF-H8 JAMB: SF-J8 SILL: SF-S8

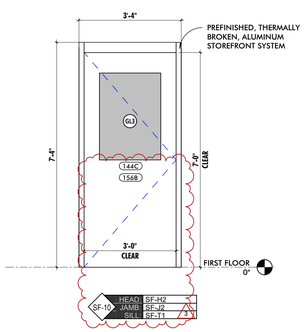


SF-8 HEAD: SF-H1 JAMB: SF-J1 SILL: SF-T1



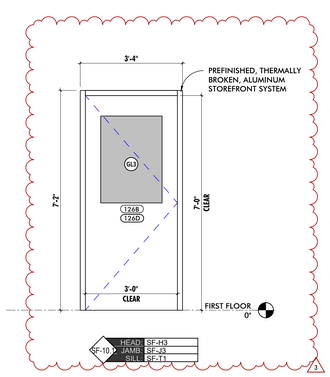
SF-9 HEAD: SF-H1/SF-H2 JAMB: SF-J1/SF-J2 SILL: SF-T1

4



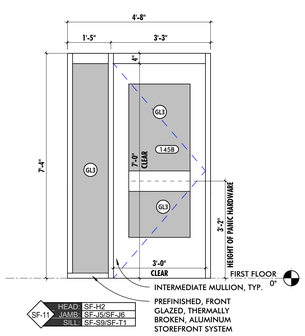
SF-10 HEAD: SF-H2 JAMB: SF-J2 SILL: SF-T1

4

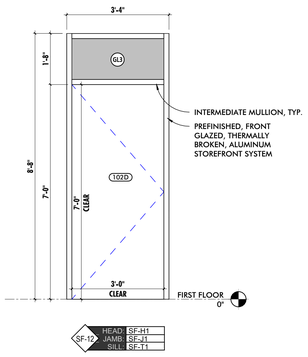


SF-10.1 HEAD: SF-H3 JAMB: SF-J3 SILL: SF-T1

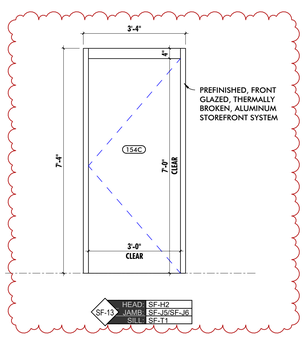
3



SF-11 HEAD: SF-H2 JAMB: SF-J5/SF-J6 SILL: SF-S9/SF-T1



SF-12 HEAD: SF-H1 JAMB: SF-J1 SILL: SF-T1



SF-13 HEAD: SF-H2 JAMB: SF-J5/SF-J6 SILL: SF-T1

STOREFRONT ELEVATIONS

1/2" = 1'-0"

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LICENSE NUMBER: #RA405311
EXPIRATION DATE: 6-30-2027

EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING, PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	2026-10-29

LAST PROJECT REVISION: No 3 | 2026-10-29

STOREFRONT ELEVATIONS

SHEET NUMBER:

A603

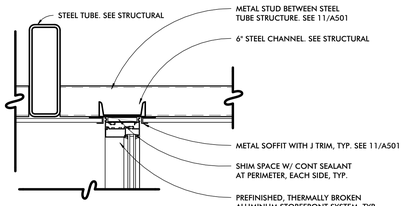
10/29/2026 3:07:03 PM

SCHEDULE - GLAZING

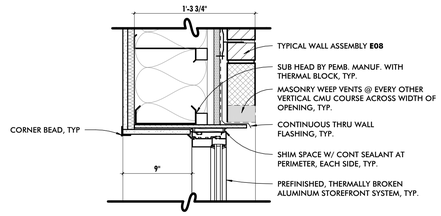
MARK	DESCRIPTION	COMMENTS
GL1	1/4" INTERIOR CLEAR SAFETY GLASS	TYPICAL INTERIOR GLAZING
GL1R	5/16" INTERIOR CLEAR RATED SAFETY GLASS	20 MIN RATED INTERIOR GLAZING
GL3	1" INSULATED, LOW-E, TINTED SAFETY GLAZING	TYPICAL EXTERIOR GLAZING
GL4	1" INSULATED, CLEAR GLASS	

GENERAL OPENING NOTES

1	CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION OF DOORS, WINDOWS, STOREFRONT, ETC.



SF-H5



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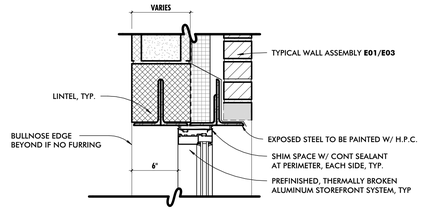

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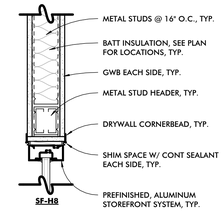
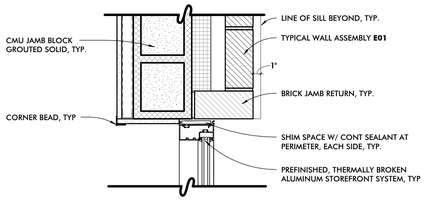


SF-H8



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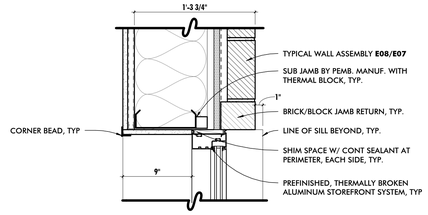
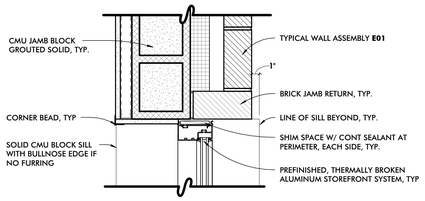


SF-J1



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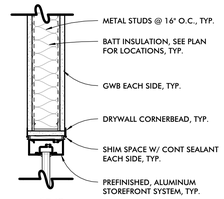

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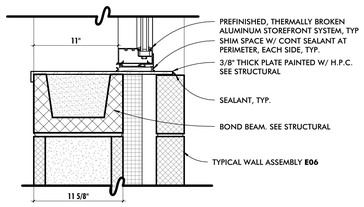
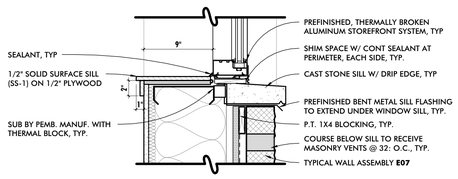
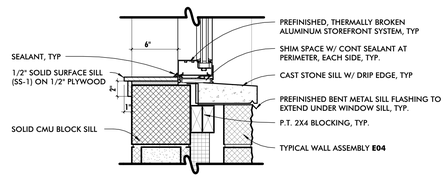


SF-S5



SF-S1



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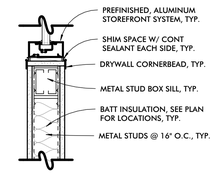

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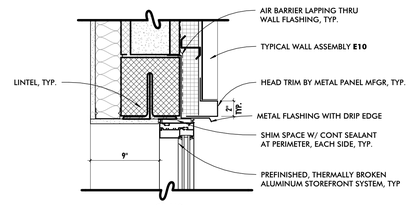

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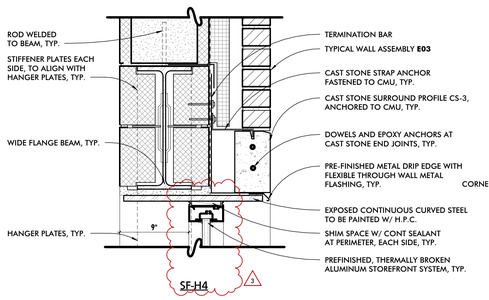

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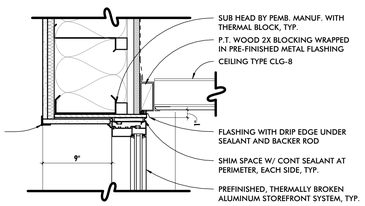

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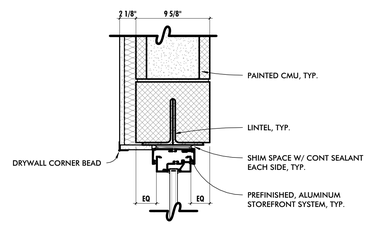

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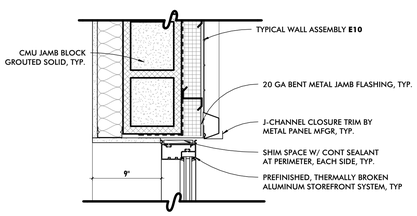

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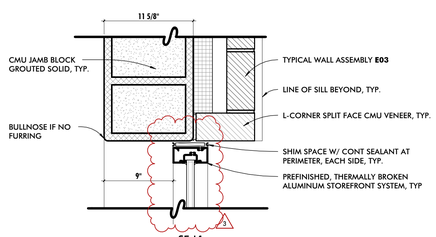

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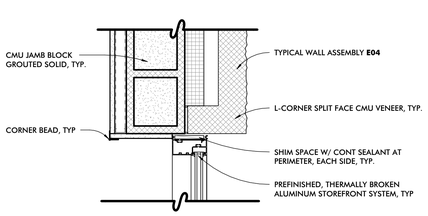

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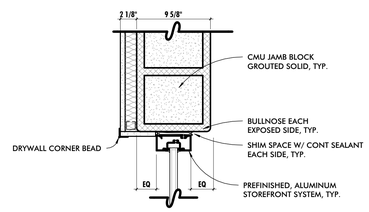

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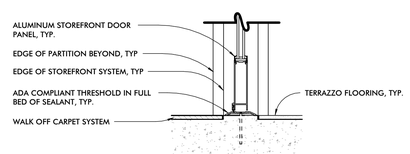
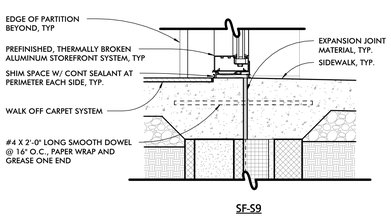


SF-T2



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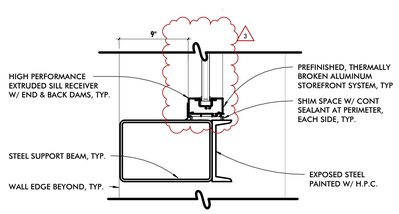

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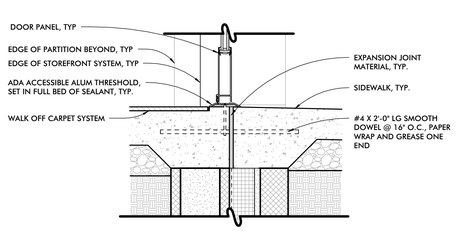

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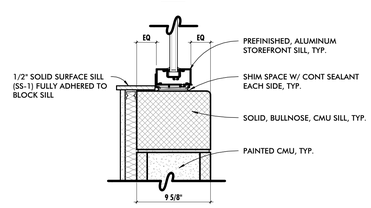

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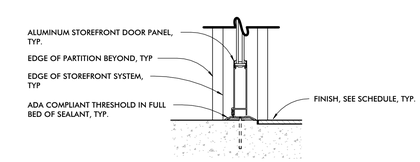

SF-T1

1 EXTERIOR STOREFRONT DETAILS
1 1/2" = 1'-0"

2 INTERIOR STOREFRONT DETAILS
1 1/2" = 1'-0"

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SEAL:

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF PENNSYLVANIA.

LICENSE NUMBER: #RA405311
EXPIRATION DATE: 6-30-2027

EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING, PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	2026-10-29

LAST PROJECT REVISION: No 3 | 2026-10-29

STOREFRONT DETAILS

SHEET NUMBER:

A604

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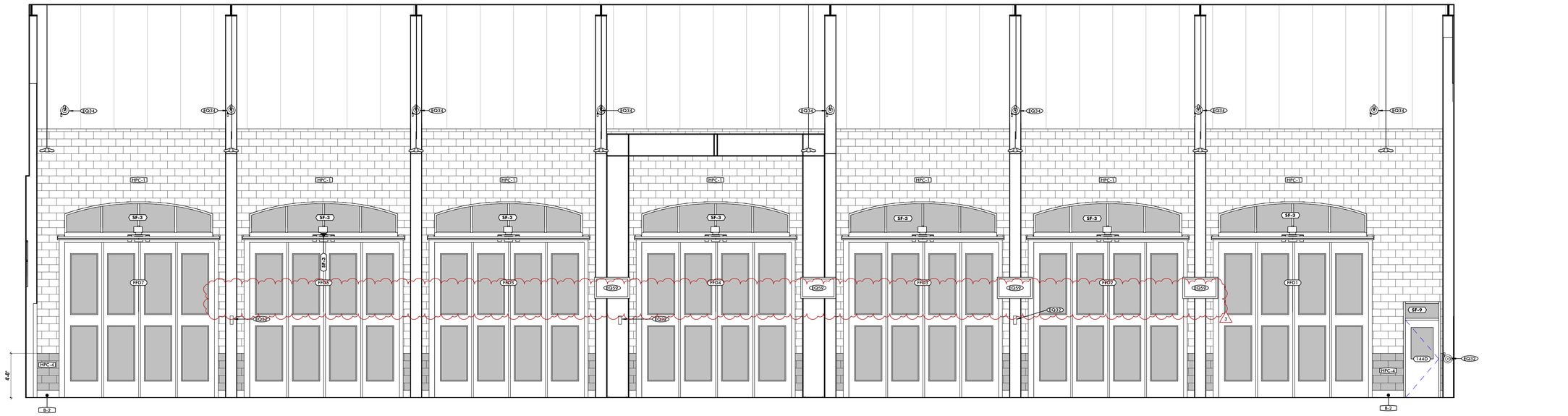
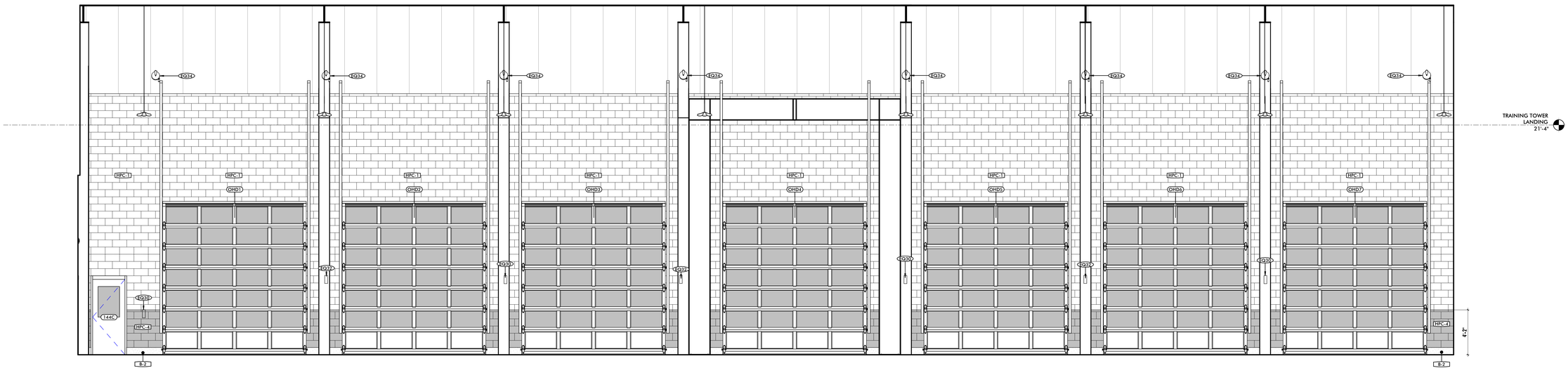


1 APPARATUS BAY 144 -SOUTH
1/4" = 1'-0"



2 APPARATUS BAY 144 - NORTH
1/4" = 1'-0"

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70 GIBRALTAR ROAD
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No.	DATE
3	2026-10-29

LAST PROJECT REVISION: No.3 | 2026-10-29

ENLARGED PLANS & INT. ELEVATIONS

SHEET NUMBER:

A705

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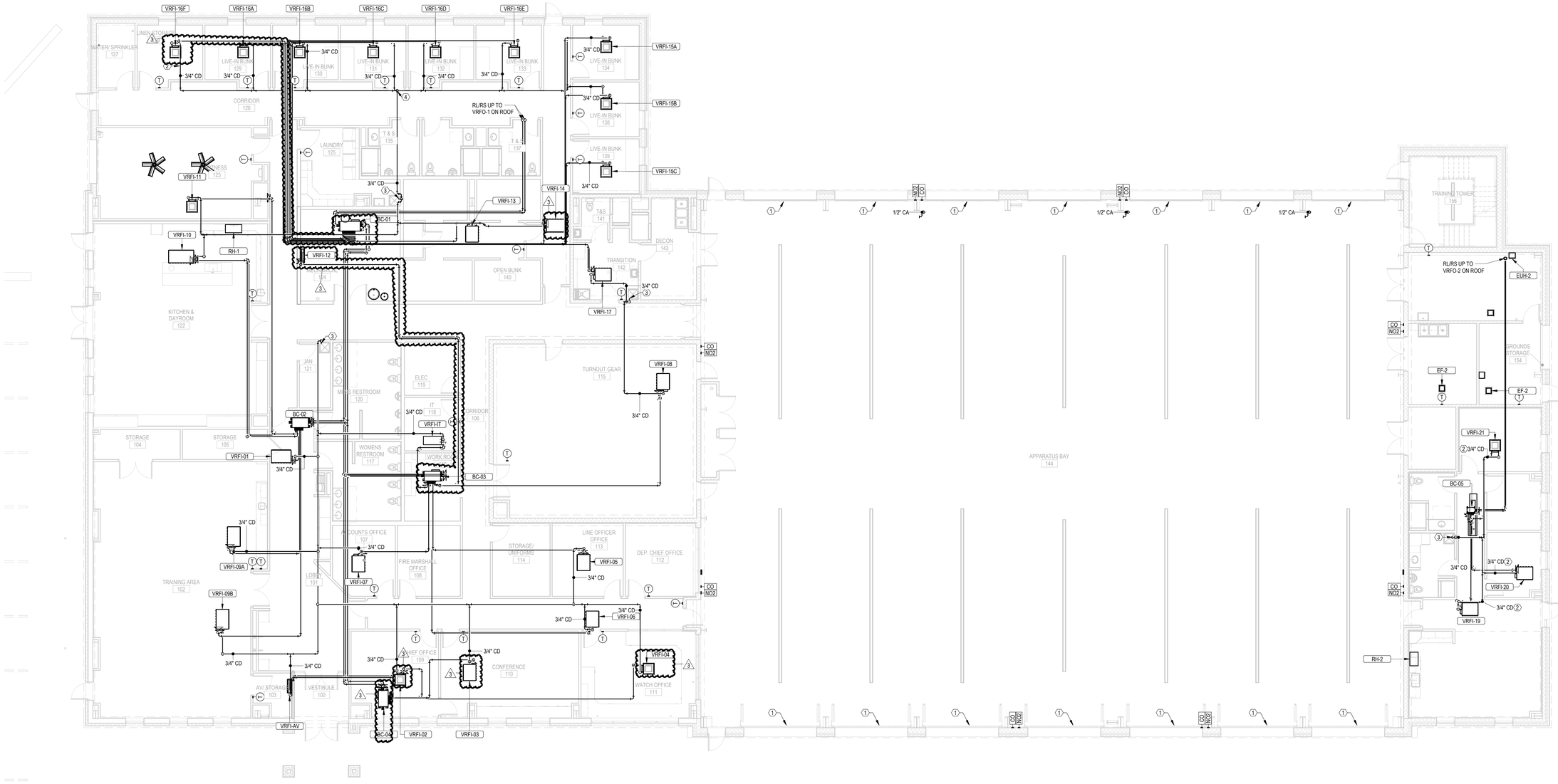
KEYNOTES

1. APP BAY DOOR TO BE INSTALLED WITH TAKEX MODEL PB-30TK AND SHALL BE CONNECTED TO THE AIRVAC SYSTEM. CONTRACTOR TO COORDINATE W/AIRVAC VENDOR FOR WIRING AND CONNECTIONS.
2. ROUTE 3/4" CONDENSATE PIPING TIGHT TO STRUCTURE.
3. ROUTE 3/4" CONDENSATE PIPING TO MOP SINK.
4. ROUTE CONDENSATE PIPING TO AVOID OTHER TRADE DISCIPLINES WITHIN CORRIDOR.

GENERAL PAGE NOTES:

- ALL RS/RL PIPING TO BE SIZED ACCORDING TO MANUFACTURER.



1 M111 FIRST FLOOR - MECHANICAL PIPING PLAN
1/8" = 1'-0"

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COMMONWEALTH OF PENNSYLVANIA
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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
2	10/22/26
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

FIRST FLOOR - MECHANICAL PIPING PLAN

SHEET NUMBER:

M111

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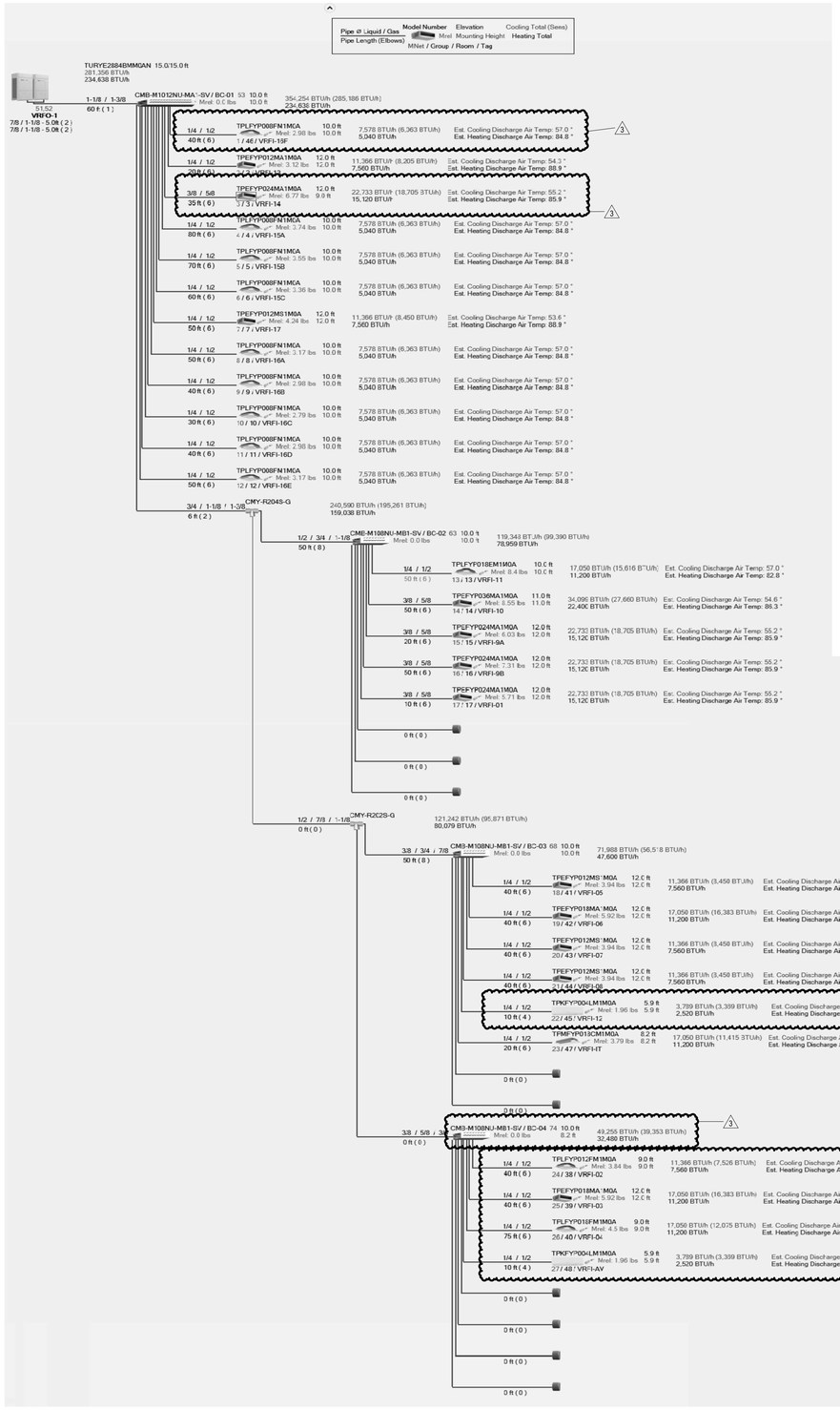
Centralized System - 1 : VRFO-1

Piping Diagram Image (Design View)

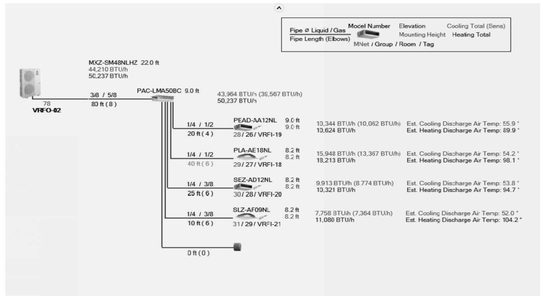


Quantities

Qty	Model	Description	Tag
31	TAC-YT53CRAU-J	Simple MA controller	CTR2-VRFI-13,CTR3-VRFI-14,CTR4-VRFI-15A,CTR5-VRFI-15B,CTR6-VRFI-15C,CTR7-VRFI-17,CTR8-VRFI-16A,CTR9-VRFI-16B,CTR10-VRFI-16C,CTR11-VRFI-16D,CTR12-VRFI-16E,CTR13-VRFI-11,CTR14-VRFI-10,CTR15-VRFI-9A,CTR16-VRFI-9B,CTR17-VRFI-01,CTR1-VRFI-19,CTR2-VRFI-18,CTR3-VRFI-20,CTR4-VRFI-21,CTR24-VRFI-02,CTR25-VRFI-03,CTR26-VRFI-04,CTR18-VRFI-05,CTR19-VRFI-06,CTR20-VRFI-07,CTR21-VRFI-08,CTR22-VRFI-12,CTR1-VRFI-16F,CTR23-VRFI-IT,CTR27-VRFI-AV
1	TURYE2884BMM0AN	R32 R2 Series Outdoor Unit	VRFO-1
1	MXZ-SM48NLHZ	R454B MXZSM Series Outdoor Unit	VRFO-02
1	CMB-M1012NU-MA1-SV	BC Controller Main	BC-01
3	CMB-M108NU-MB1-SV	BC Controller Sub	BC-02,BC-03,BC-04
9	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-16F,VRFI-15A,VRFI-15B,VRFI-15C,VRFI-16A,VRFI-16B,VRFI-16C,VRFI-16D,VRFI-16E
1	TPEFYP012MA1M0A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-13
3	TPEFYP018MA1M0A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-14,VRFI-06,VRFI-03
4	TPEFYP012MS1M0A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-17,VRFI-05,VRFI-07,VRFI-08
1	TPLFYP018EM1M0A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-11
1	TPEFYP036MA1M0A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-10
3	TPEFYP024MA1M0A	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-9A,VRFI-9B,VRFI-01
2	TPKFYP004LM1M0A	Wall -Mounted Indoor Unit	VRFI-12,VRFI-AV
1	TPMFYP018CM1M0A	Ceiling Cassette (One-Way) Indoor Unit	VRFI-HT
1	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-02
1	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-04
1	PEAD-AA12NL	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-19
1	PLA-AE18NL	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-18
1	SEZ-AD12NL	Ceiling-Concealed (Ducted) Indoor Unit	VRFI-20
1	SLZ-AF09NL	Ceiling-Cassette (Four-Way) Indoor Unit	VRFI-21
1	CMY-R204S-G	Branch Joint	
1	CMY-R202S-G	Branch Joint	
1	TE-C400A	System Remote Controller	CTR1
1	LIC-BACNET-MASTER	Software License	
1	QSSB48M-18	Super Stand w/ 48in rails, 18in Tall	
1	QSSX48M-18	Super Stand Ext w/ 48in Rails, 18in Tall	
34	COMBI	Condensate Pump	BC-01,BC-02,BC-03,VRFI-13,VRFI-14,VRFI-15A,VRFI-15B,VRFI-15C,VRFI-17,VRFI-16A,VRFI-16B,VRFI-16C,VRFI-16D,VRFI-16E,VRFI-11,VRFI-10,VRFI-9A,VRFI-9B,VRFI-01,VRFI-19,VRFI-18,VRFI-20,VRFI-21,VRFI-02,VRFI-03,VRFI-04,VRFI-05,VRFI-06,VRFI-07,VRFI-08,VRFI-12,VRFI-16F,VRFI-IT,VRFI-AV
1	CMY-R304S-G1	Reducer	BC-01
1	CMY-R303S-G1	Reducer	BC-01
3	CMY-R306S-G	Reducer	BC-02,BC-03,BC-04
2	ADP3812	Port Adapter size: 3/8" x 1/2"	
1	QSMS1802M	Stand - 18" High	VRFO-02
11	TLP-18FAU	Decoration Panel	VRFI-15A,VRFI-15B,VRFI-15C,VRFI-16A,VRFI-16B,VRFI-16C,VRFI-16D,VRFI-16E,VRFI-02,VRFI-04,VRFI-16F
1	TLP-41EAEU	Grille with 3D i-see Sensor™	VRFI-11
1	PLP-41EAEU	Grille with 3D i-see Sensor™	VRFI-18
1	SLP-18FAU	Decoration Panel	VRFI-21
1	TLP-449W-U1	Grille	VRFI-IT
1	PAC-LMA50BC	Branch Box	

Centralized System - 1 : VRFO-02

Piping Diagram Image (Design View)



VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

System Tag	Tag Reference	M-NET Address	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	MCA 208/230	Notes / Options
VRFO-1	BC-01	53	CMB-M1012NU-MA1-SV	Main	12	374,000.0	208/230V/1-phase	0.182/0.235	0.091/0.118	1.1/1.29	1
VRFO-1	BC-02	63	CMB-M108NU-MB1-SV	Sub	8	126,000.0	208/230V/1-phase	0.122/0.157	0.061/0.078	0.74/0.87	1
VRFO-1	BC-03	68	CMB-M108NU-MB1-SV	Sub	8	76,000.0	208/230V/1-phase	0.122/0.157	0.061/0.078	0.74/0.87	1
VRFO-1	BC-04	74	CMB-M108NU-MB1-SV	Sub	8	52,000.0	208/230V/1-phase	0.122/0.157	0.061/0.078	0.74/0.87	1

Notes & Options:
1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
2 For sub BC Controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.
3 Provide Condensate Pump for Indoor Units up to 120,000 BTUs 100-240VAC

MXZ Branch Box

System Tag	Model Number	Connectable number of Indoor unit (Maximum)	Voltage / Phase	Frequency - Hz	Power Input - kW	Running Current - A	External Finish	Unit Dimension: Width - in(mm)	Unit Dimension: Depth - in(mm)	Unit Dimension: Height - in(mm)	Weight - lb(kg)	Piping Connection: to Outdoor Unit: Liquid - in(mm)	Piping Connection: to Outdoor Unit: Gas - in(mm)	Piping Connection: to Indoor Unit: Liquid - in(mm)	Piping Connection: to Indoor Unit: Gas - in(mm)	Notes / Options
BC-05	PAC-LMA50BC	5	208/230 / 1-phase	60	0.003	0.15	Galvanized Sheets	17-23/32 (450)	11-1/32 (280)	6-11/16 (170)	16 (7.4)	3/8 (9.52)	5/8 (15.88)	1/4 (6.35) x 5 (A, B, C, D, E)	3/8 (9.52) x 4 (A, B, C, E), 1/2 (12.7) x 1 (E)	1

Notes & Options:
1 The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size for indoor and branch box. If the piping connection size of branch box does not match the piping connection size of indoor units, use optional different-diameter (deformed) joints to the branch box side. (Connected deformed joint directly to the branch box side.)

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-NET Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency (I)EER [SEER]	EER2 [SEER2]	Heating COP @ 47°F (HSPF)	HSPF2 IV [V]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Max Pipe Length from BC or 1st joint (feet)	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	Altitude (feet)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Inverter Driven Compressor Type / Quantity	Preliminary Added Field Charge (See Note 9)	Electrical-Per Module: 208/230 or [460V]: Voltage / Phase	Electrical-Per Module: 208/230 or [460V]: MCA 208/230 or [460V]	Electrical-Per Module: 208/230 or [460V]: BFS	Electrical-Per Module: 208/230 or [460V]: MOCP	Notes / Options
VRFO-1	VRFO-1	51, 52	TURYE2884BMM0AN	EM144, EM144	288,000	323,000	21.5 (11.75)	N/A	3.540	N/A [N/A]	129.3 %	92.0	7.9	142.8	1-1/8 / 1-3/8	266.0	281,356.2	234,637.7	84/86	SCROLL/2	75.0	60V / 3-phase 3-wire	31,31	35, 35	50, 50	1, 2, 3, 5, 6, 7, 8, 9, 10, 11
VRFO-02	VRFO-02	78	MXZ-SM48NLHZ	P48	48,000	54,000	N/A	11.55	3.600	N/A [N/A]	106.3 %	92.0	7.9	45.9	3/8 / 5/8	266.0	44,209.6	50,237.4	51/54	SCROLL/1	15.3	208/230V / 1-phase	51	45	86	1, 2, 3, 5, 6, 7, 8, 9, 10

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4 Efficiency values for EER2, SEER2, COP are based on AHRI 210/240 test method for mixture of ducted & non-ducted indoor units.
5 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
6 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
7 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
8 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
9 Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
10 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment
11 Provide 18" Super Stand Kit

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SCOTT M. FRENCH
PE084125

EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

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ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

MECHANICAL SCHEDULES

SHEET NUMBER:
M602

10/29/2026 1:43:33 PM

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	M-NET Address	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / (Water in temp)	Heating Design Entering Temp DB/WB (°F) / (Water in temp)	Altitude (feet)	Corrected Capacity					Estimated Cooling Coil LAT (°F) / (LWT)	Estimated Heating Coil LAT (°F) / (LWT)	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm (GUS)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	Electrical MCA/MFS	Mrel (lbs)	Condensate Removal Rate (gal/hr)	Actual Port Assignments	Notes / Options
											Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)													
VRFO-1	3	VRFI-16F	1	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208-230V/1-phase	0.02	0.02	0.36/15	2.98	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-13	2	TPEFYP012MA1M0A	Ceiling-Concealed (Ducted)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	8,205.5	FULL DEMAND	7,683.8	54.3	89.2	1/4 / 1/2	HIGH	371	0.6	26-30-34	208-230V/1-phase	0.052	0.05	1.9/15	3.12	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-14	3	TPEFYP018MA1M0A	Ceiling-Concealed (Ducted)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	16,383.4	FULL DEMAND	11,383.5	57.6	82.0	1/4 / 1/2	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	6.02	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-15A	4	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	3.74	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-15B	5	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	3.55	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-15C	6	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	3.36	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-17	7	TPEFYP012MS1M0A	Ceiling-Concealed (Ducted)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	8,450.4	FULL DEMAND	7,683.8	53.6	89.3	1/4 / 1/2	HIGH	370	0.2	23-28-35	208/230V/1-phase	0.064	0.062	1.17/15	4.24	0.37		1, 2, 3, 4, 5
VRFO-1		VRFI-16A	8	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	3.17	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-16B	9	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	2.98	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-16C	10	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	2.79	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-16D	11	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	2.98	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-16E	12	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/63.0	70	266.0	PARTIAL DEMAND	7,577.6	6,062.6	FULL DEMAND	5,122.6	57.0	85.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.02	0.02	0.36/15	3.17	0.25		1, 2, 3, 4, 5
VRFO-1		VRFI-11	13	TPLFYP018EM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	15,615.8	FULL DEMAND	11,383.5	57.0	83.0	1/4 / 1/2	HIGH	812		28-30-32-34	208/230V/1-phase	0.04	0.04	0.54/15	8.4	0.23		1, 2, 3, 4, 5
VRFO-1		VRFI-10	14	TPEFYP036MA1M0A	Ceiling-Concealed (Ducted)	36,000	40,000	75.0/63.0	70	266.0	PARTIAL DEMAND	34,099.4	27,659.6	FULL DEMAND	22,766.9	54.6	86.6	3/8 / 5/8	HIGH	1271	0.6	35-39-43	208/230V/1-phase	0.222	0.22	3.1/15	8.55	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-9A	15	TPEFYP024MA1M0A	Ceiling-Concealed (Ducted)	24,000	27,000	75.0/63.0	70	266.0	PARTIAL DEMAND	22,732.9	18,705.0	FULL DEMAND	15,367.7	55.2	86.1	3/8 / 5/8	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	6.03	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-9B	16	TPEFYP024MA1M0A	Ceiling-Concealed (Ducted)	24,000	27,000	75.0/63.0	70	266.0	PARTIAL DEMAND	22,732.9	18,705.0	FULL DEMAND	15,367.7	55.2	86.1	3/8 / 5/8	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	7.31	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-01	17	TPEFYP024MA1M0A	Ceiling-Concealed (Ducted)	24,000	27,000	75.0/63.0	70	266.0	PARTIAL DEMAND	22,732.9	18,705.0	FULL DEMAND	15,367.7	55.2	86.1	3/8 / 5/8	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	5.71	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-05	18	TPEFYP012MS1M0A	Ceiling-Concealed (Ducted)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	8,450.4	FULL DEMAND	7,683.8	53.6	89.3	1/4 / 1/2	HIGH	370	0.2	23-28-35	208/230V/1-phase	0.064	0.062	1.17/15	3.94	0.37		1, 2, 3, 4, 5
VRFO-1		VRFI-06	19	TPEFYP018MA1M0A	Ceiling-Concealed (Ducted)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	16,383.4	FULL DEMAND	11,383.5	57.6	82.0	1/4 / 1/2	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	5.92	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-07	20	TPEFYP012MS1M0A	Ceiling-Concealed (Ducted)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	8,450.4	FULL DEMAND	7,683.8	53.6	89.3	1/4 / 1/2	HIGH	370	0.2	23-28-35	208/230V/1-phase	0.064	0.062	1.17/15	3.94	0.37		1, 2, 3, 4, 5
VRFO-1		VRFI-08	21	TPEFYP012MS1M0A	Ceiling-Concealed (Ducted)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	8,450.4	FULL DEMAND	7,683.8	53.6	89.3	1/4 / 1/2	HIGH	370	0.2	23-28-35	208/230V/1-phase	0.064	0.062	1.17/15	3.94	0.37		1, 2, 3, 4, 5
VRFO-1		VRFI-12	22	TPKFYP004LM1M0A	Wall -Mounted	4,000	4,500	75.0/63.0	70	266.0	PARTIAL DEMAND	3,788.8	3,368.6	FULL DEMAND	2,561.3	53.7	86.0	1/4 / 1/2	HIGH	148		22-24-26-28	208/230V/1-phase	0.02	0.01	0.24/15	1.96	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-IT	23	TPMFYP018CM1M0A	Ceiling Cassette (One-Way)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	11,414.6	FULL DEMAND	11,383.5	49.6	95.1	1/4 / 1/2	HIGH	420		30-36-41-45	208-230V/1-phase	0.05	0.05	/15	3.79	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-02	24	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way)	12,000	13,500	75.0/63.0	70	266.0	PARTIAL DEMAND	11,366.5	7,526.2	FULL DEMAND	7,683.8	54.0	91.3	1/4 / 1/2	HIGH	335		26-30-34	208/230V/1-phase	0.02	0.02	0.36/15	3.84	0.54		1, 2, 3, 4, 5
VRFO-1		VRFI-03	25	TPEFYP018MA1M0A	Ceiling-Concealed (Ducted)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	16,383.4	FULL DEMAND	11,383.5	57.6	82.0	1/4 / 1/2	HIGH	883	0.6	31-35-39	208/230V/1-phase	0.142	0.14	2.5/15	5.92	0.5		1, 2, 3, 4, 5
VRFO-1		VRFI-04	26	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	75.0/63.0	70	266.0	PARTIAL DEMAND	17,049.7	12,074.9	FULL DEMAND	11,383.5	50.4	92.9	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.04	0.04	0.36/15	4.5	0.71		1, 2, 3, 4, 5
VRFO-1	3	VRFI-AV	27	TPKFYP004LM1M0A	Wall -Mounted	4,000	4,500	75.0/63.0	70	266.0	PARTIAL DEMAND	3,788.8	3,368.6	FULL DEMAND	2,561.3	53.7	86.0	1/4 / 1/2	HIGH	148		22-24-26-28	208-230V/1-phase	0.02	0.01	0.24/15	1.96	0.5		1, 2, 3, 4, 5
VRFO-02		VRFI-19	28	PEAD-AA12NL	Ceiling-Concealed (Ducted)	12,000	14,000	75.0/63.0	70	266.0	PARTIAL DEMAND	10,344.4	10,061.6	FULL DEMAND	10,624.2	55.9	89.9	1/4 / 1/2	HIGH	494	0/0.60	25-27-29-33	208-230V/1-phase			2.5/15		0.39		1, 2, 3, 4, 5
VRFO-02		VRFI-18	29	PLA-AE18NL	Ceiling-Cassette (Four-Way)	18,500	24,000	75.0/63.0	70	266.0	PARTIAL DEMAND	15,947.6	13,367.0	FULL DEMAND	18,213.0	54.2	98.1	1/4 / 1/2	HIGH	600		28 - 29 - 31 - 32	208/230V/1-phase			1/15		0.14		1, 2, 3, 4, 5
VRFO-02		VRFI-20	30	SEZ-AD12NL	Ceiling-Concealed (Ducted)	11,500	13,600	75.0/63.0	70	266.0	PARTIAL DEMAND	9,913.4	8,773.8	FULL DEMAND	10,320.7	53.8	94.7	1/4 / 3/8	HIGH	388	0.02/0.06/0.14/0.2 0	23-28-33	/			/		0.26		1, 2, 3, 4, 5
VRFO-02		VRFI-21	31	SLZ-AF09NL	Ceiling-Cassette (Four-Way)	9,000	14,600	75.0/63.0	70	266.0	PARTIAL DEMAND	7,758.3	7,364.5	FULL DEMAND	11,079.6	52.0	104.2	1/4 / 3/8	HIGH	300		25-28-31	208/230V/1-phase	0.02	0.02	1/15		0.13		1, 2, 3, 4, 5

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.
7 Provide Condensate Pump for Indoor Units up to 120,000 BTUs 100-240VAC

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

MECHANICAL SCHEDULES

SHEET NUMBER:
M603

10/29/2025 1:43:34 PM

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet
- Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number
- Area Being Demolished
- Area Not In Contract

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	EXP	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GHW	GAS-FIRED WATER HEATER
CH	CHILLER	GI	GREASE INTERCEPTOR
CT	COOLING TOWER	GRV	GRAVITY ROOF VENTILATOR
CUH	CABINET UNIT HEATER	HWP	HEATING WATER PUMP
CHWP	CHILLED WATER PUMP	HRU	HEAT RECOVERY UNIT
DBP	DOMESTIC WATER BOOSTER PUMP	PRV	POWER ROOF VENTILATOR
DC	DUCT MOUNTED COIL	RE	RETURN/EXHAUST FAN
DCP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
		WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CW — Domestic Cold-Water
- NPW — Non-Potable Water
- S-CW — Soft Cold-Water
- F-CW — Filtered Cold-Water
- RO — Reverse Osmosis Water
- HW — Domestic Hot-Water
- HW 140° — Domestic Hot-Water 140°
- HW-R — Hot-Water Recirculation
- HW-R 140° — Hot-Water Recirculation 140°
- SS — Sanitary Drain
- V — Sanitary Vent
- WV — Sanitary Wet Vent
- CWV — Combination DWV
- CD — Condensate Drain
- ID — Indirect Drain
- GW — Grease Waste
- GV — Grease Vent
- OW — Oil Waste
- OV — Oil Vent
- PD — Pump Discharge
- RGC — Radon Gas Collection
- SD — Storm Drain
- OSD — Storm Overflow
- CA — Compressed Air
- NG — Natural Gas
- LP — Liquid Propane
- Pipe Rise / Drop

Pipe Accessory Notes

- 4" FCO — Cleanout
- 2" BACKWATER — Swing Check
- 2" CHECK — Check Valve
- 2" CHECK — Alternate Check Valve
- 2" BALANCE — Balancing Valve
- 2" CIRC — Circuit Setter
- 2" GATE — Gate Valve
- 2" QUICK — Quick Opening Valve
- 2" S/O — Ball Valve
- 2" STRAIN — Fluid Strainer
- S — 1" GAS-CNTRL — Emergency Gas Shutoff
- 1" PLUG — Plug Valve
- 1" GAS COCK — Gas Shutoff Cock
- 1" REG — Gas Regulator
- T/V — 1" T/V — Thermostatic Valve
- PRIMER — Trap Primer
- M — 2" M-CNTRL — Elec. Control Valve
- T/P — TMV-XT/P — Mixing Valve
- EM — TMVEM — Emergency Mixer
- 2" PRV — Pressure Reducing Valve
- W — 2" METER — Water Meter
- IR — 1 1/2" METER — Irrigation Meter
- Double Check Valve
- Reduced Pressure Zone

Plumbing Fixture Notes

- Floor Drain — Design Size
- 0" FD-1 / 2 DFU — Identity Type / Drainage Fixture Units
- 2" FD-3 — Floor Drain w/ Deep Seal Trap
- 2" FD-3P — Floor Drain w/ Trap Primer "P" Indicates Primer Connection
- 2" FD-7 — Floor Drain w/ Integral Cleanout
- 3" AD-1 — Area Drain (No Trap)
- 6" DD-1 — Deck Drain
- 3" HD-1 — Hub Drain (Funnel Type)
- 3" FS-4 — Floor Sink
- 8" SD-12 — Roof Drain
- 6" SD-1 / 2000 SF — Combination Drain / Rainfall Surface Area

Project Requirements

A. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

B. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

C. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

D. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

E. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

F. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

G. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

H. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

I. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

J. REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

K. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

L. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

M. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

N. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

O. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

P. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

Q. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

R. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

S. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

Plumbing General Notes

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

B. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

C. PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.

D. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

E. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

F. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

G. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

Plumbing Sheet Index

P000	PLUMBING TITLE SHEET
P101	FIRST FLOOR - SANITARY PIPING PLAN
P201	FIRST FLOOR - SERVICE PIPING PLAN
P202	MEZZANINE - SERVICE PIPING PLAN
P401	FIRST FLOOR - ENLARGED SANITARY PIPING PLANS
P402	FIRST FLOOR - ENLARGED SERVICE PIPING PLANS
P403	FIRST FLOOR - ENLARGED SERVICE PIPING PLANS
P501	GAS RISER DIAGRAM
P502	DOMESTIC WATER RISER DIAGRAM
P503	SANITARY / VENT RISER DIAGRAM
P601	PLUMBING SCHEDULES & DETAILS
P602	PLUMBING SCHEDULES & DETAILS
P603	PLUMBING SCHEDULES & DETAILS

Code Fixture Unit Table

Qty	UPC	IPC	NPC	Code Fixture Unit Table	Design Total WSFU	Design Total DFU
101	Yes	No	No	UPC Fixture Unit Summary	230	357

Drainage Fixture Units

Qty	Description	Product Type	Emergency Drain	DFU Each	DFU Total
1	Bottle Filler	Bottle Filling Station		0.5	0.5
1	Commercial Sink	1-Compartment		4	4
1	Commercial Sink	1-Compartment		4	4
2	Commercial Sink	3-Compartment		4	8
2	Commercial Sink	1-Compartment		4	8
24	Floor Drain	Round Strainer	No	8	192
2	Floor Sink	12" Square X 6" Deep	No	4	8
1	Lavatory	Wall Hung		1	1
1	Lavatory	Wall Hung ADA		1	1
9	Lavatory	Counter Mount		1	9
3	Lavatory	Counter Mount ADA		1	3
4	Outlet Box	Ice Maker		0	0
6	Outlet Box	Washing Machine		3	18
2	Outlet Box	Dishwasher		3	6
1	Outlet Box	Coffee Maker		0	0
7	Shower Stall - ADA	Shower Fixtures		2	14
4	Sink	Janitor		3	12
3	Sink	Laundry Tub		2	6
7	Urinal	Wall Hung		2	14
6	Water Closet	Pressure Assist Water Closet		4	24
6	Water Closet	Pressure Assist Water Closet		4	24
1	Water Cooler	Electric Water Cooler - Dual Height		0.5	0.5
Grand total: 94					357

Water Supply Properties

Standard Water Density = 62.4 lb/ft³ or 1000 kg/m³
Standard Water Specific Heat = 1.000 BTU/(lb-°F) or 4.187 J/(g·°C)
Water Supply Temp. = Estimated Ground Water Temp.

Qty	Water Properties: Density	Water Properties: Specific Heat	Water Meter Pressure	Water Supply Temp.
8	62.4 lb/ft³	1.000 BTU/(lb-°F)	0 psi	40 °F

SEISMIC & WIND REQUIREMENTS FOR MECHANICAL / PLUMBING SYSTEMS IBC / ASCE-7

THIS FIRE STATION IS ASSIGNED TO SEISMIC DESIGN CATEGORY C AND IS OCCUPANCY / RISK CATEGORY IV AS DEFINED BY CHAPTER 1 OF ASCE-7. ALL HVAC, PLUMBING & FIRE PROTECTION SYSTEMS AND EQUIPMENT ARE REQUIRED FOR THE CONTINUED OPERATION OF THE FIRE STATION AFTER AN EARTHQUAKE AND SHALL BE ASSIGNED A COMPONENT IMPORTANCE FACTOR OF 1.5 IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7.

A. PER SECTION 301.15 OF THE INTERNATIONAL MECHANICAL CODE, MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS (INCLUDING ROOF CURBS & ROOF RAILS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED. SEE SEISMIC INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.

B. USE APPLICABLE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH MECHANICAL COMPONENT.

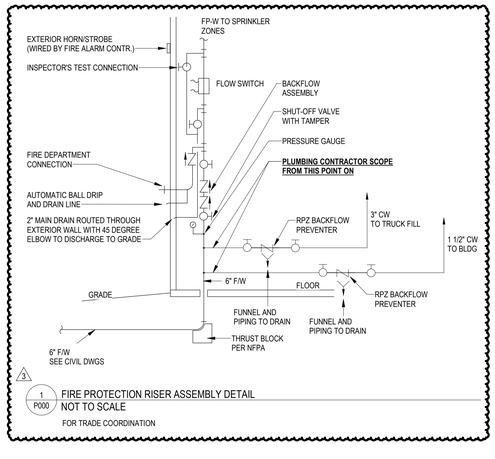
C. FOR ALL COMPONENTS REQUIRING SEISMIC AND/OR WIND RESTRAINT, THE MECHANICAL / PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED IN ACCORDANCE WITH THE IBC AND ASCE 7 BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA WHO IS QUALIFIED TO DESIGN SEISMIC RESTRAINT SYSTEMS. SHOP DRAWINGS SHALL INCLUDE SEPARATE DETAILS AND CALCULATIONS FOR EACH SEPARATE SYSTEM, DEVICE, OR ELEMENT. THE APPROVAL OF SEISMIC BRACING SHOP DRAWINGS SHALL BE REQUIRED PRIOR TO THE INSTALLATION OF ANY BUILDING SYSTEMS OR COMPONENTS.

D. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE SEISMIC SUBMITTAL.

E. SEISMIC RESTRAINTS FOR PIPING AND DUCTWORK MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL - SEISMIC & WIND	-
FLOOR MOUNTED		RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>2"	4
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 2" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
DUCTWORK		6 SQ.FT. AND LARGER	5
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4
COMPONENT CERTIFICATION (SEE NOTE 6)		REQUIRED	6

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED AT 4 FT. OR LESS ABOVE A FLOOR, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, T HEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK , REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.



3
1 / P000 FIRE PROTECTION RISER ASSEMBLY DETAIL
NOT TO SCALE
FOR TRADE COORDINATION

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
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LAST PROJECT REVISION: No 3 | 10/29/26

PLUMBING TITLE SHEET

SHEET NUMBER:

P000

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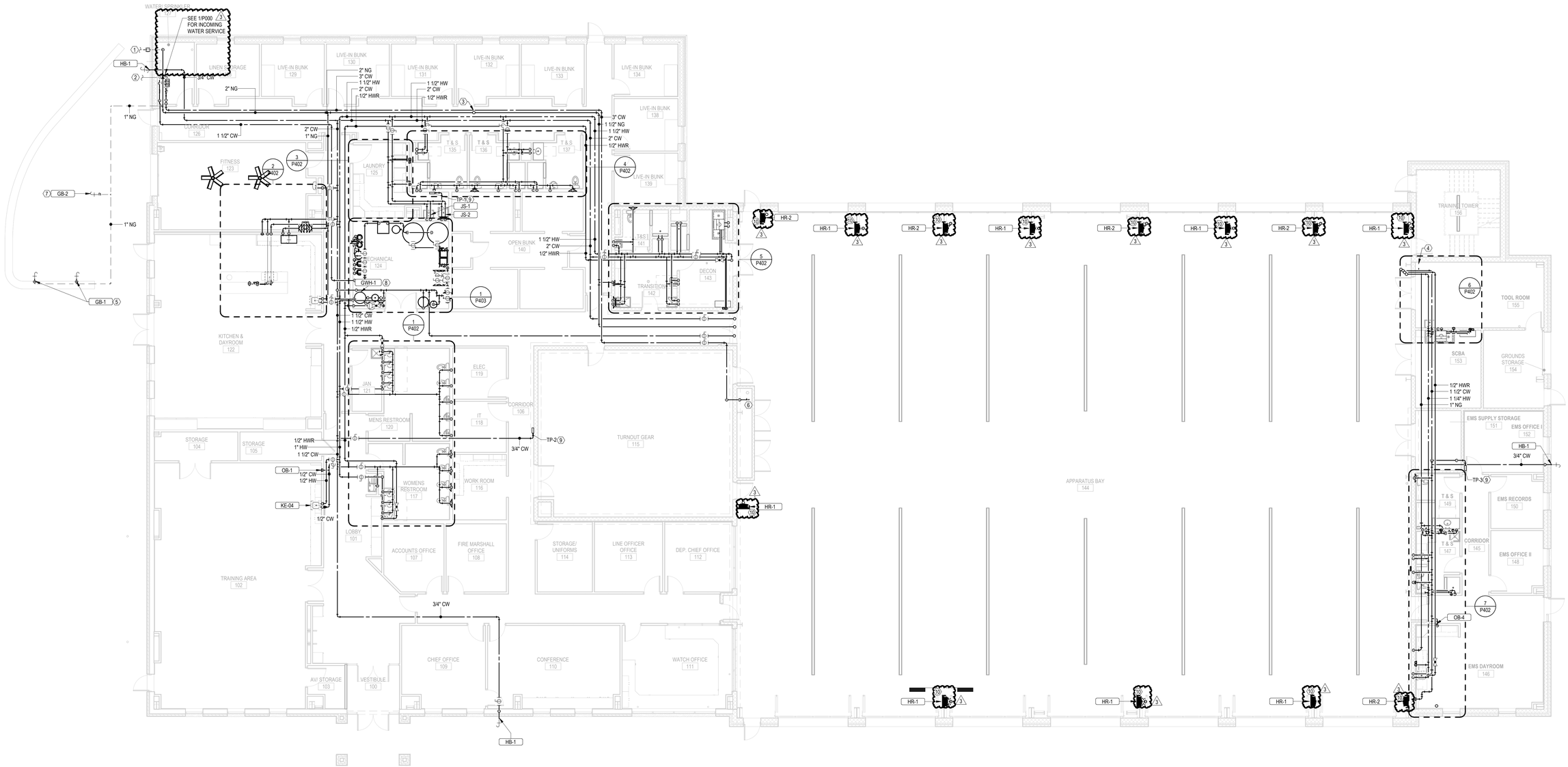
KEYNOTES

1. 2" NATURAL GAS INCOMING FROM UTILITY EXTENSION. SIZED PER IFC 402.4(2) WITH 599MBH AND APPROX. 300FT LENGTH. SEE CIVIL SITE PLAN FOR CONTINUATION.
2. 6" COMBINED FW/CW MAIN. SEE CIVIL SITE PLAN FOR CONTINUATION.
3. 2" NATURAL GAS UP THRU ROOF TO DOAS-1. COORDINATE WITH MECHANICAL PLANS FOR EXACT LOCATIONS.
4. 1" NATURAL GAS THRU WALL TO VRFO-2 ON ROOF. COORDINATE WITH MECHANICAL PLANS FOR EXACT LOCATION.
5. GAS BOX STUB TO BE RECESSED AND SHALL BE COORDINATED WITH OWNER PRIOR TO INSTALL. NG TO GB-1 IS INTO THE BOTTOM OF THE SURFACE MOUNTED GB-1.
6. CONTRACTOR TO INSTALL 3" BALL VALVE WITH DROP. TRANSITION TO 2 1/2" THREADED.
7. VERIFY FINAL LOCATION WITH ARCHITECT. INSTALL A 1 1/4" DRAIN PIPE TO THE ADJACENT PAVED AREA.
8. PC TO INSTALL VENT/COMBUSTION AIR PIPES ABV CEILING & THRU WALL ABOVE BUNK-130. TERMINATE WITH CONCENTRIC VENT KIT.
9. PC TO PER A SHAFT TRAP SEWER PIPING TO FLOOR DRAINS
10. PC TO INSTALL BALL VALVE REACHABLE FROM THE FLOOR

3 NOTE: KITCHEN STOVE TOP AND PATIO GAS LINE NEEDS TO HAVE A REMOTE ACTUATED VALVE TO BE COORDINATED WITH FIRE STATION ALERTING SYSTEM



1 / P201 SERVICE PIPING PLAN - FIRST FLOOR
1/8" = 1'-0"

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
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PROJECT NUMBER: 25-049

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FIRST FLOOR - SERVICE PIPING PLAN

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P201

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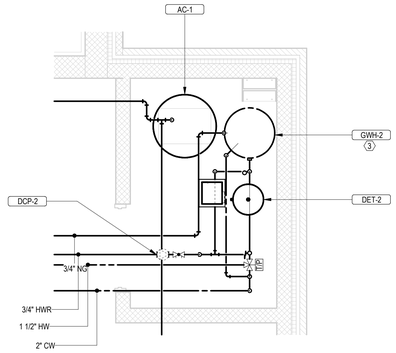
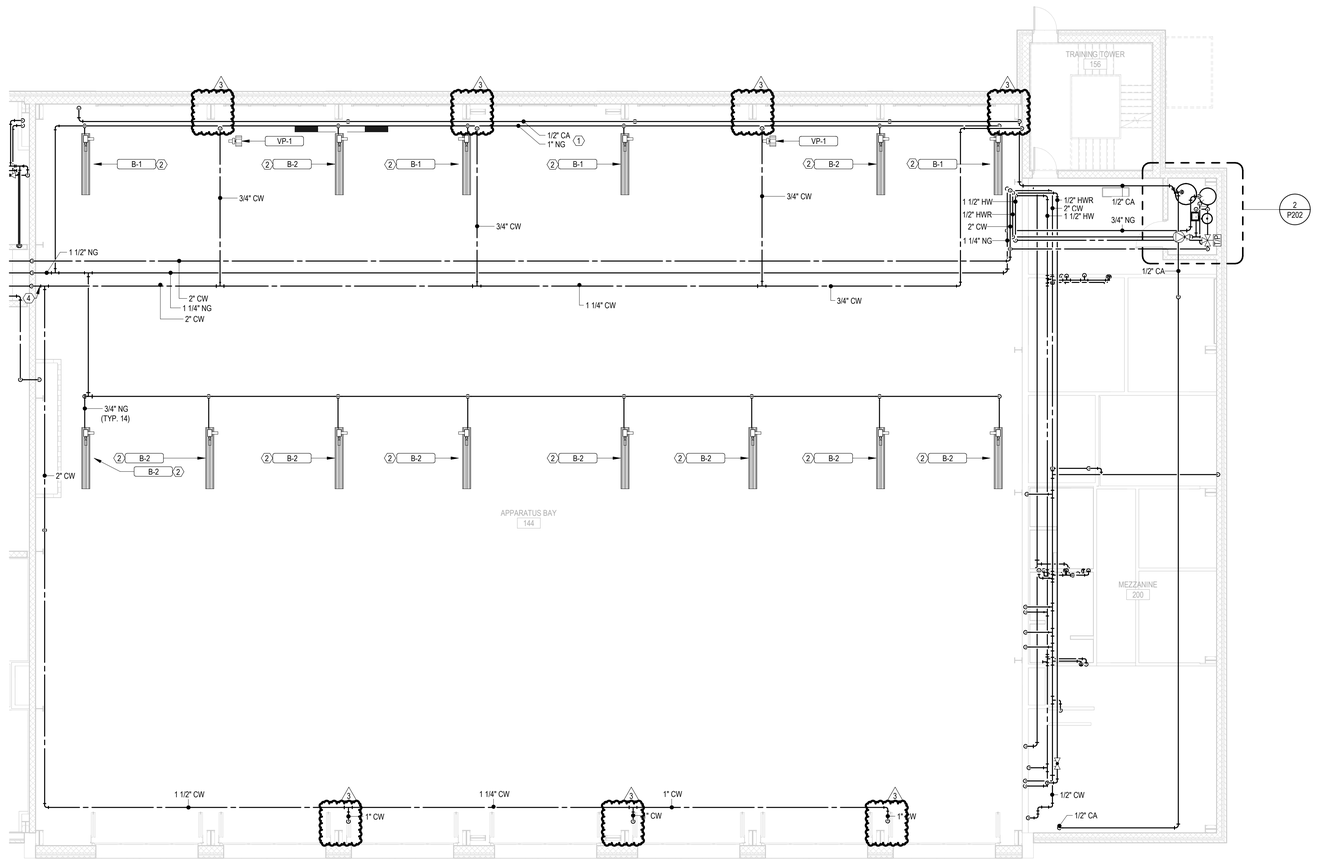
KEYNOTES

1. PLUMBING CONTRACTOR TO COORDINATE SUPPLY PIPING WITH STRUCTURAL DRAWINGS AND OVERHEAD TRACKS.
2. CONTRACTOR TO REFERENCE PLUMBING DETAIL 7/P602 FOR INFRARED HEATING BURNER / GAS CONNECTION
3. PC TO INSTALL VENT/COMBUSTION AIR PIPES THRU WALL. TERMINATE WITH CONCENTRIC VENT KIT.
4. TRUCK WASH COLD WATER LINE.



2 / P202 MEZZANINE PLUMBING PLAN
3/8" = 1'-0"



1 / P202 SERVICE PIPING PLAN - MEZZANINE
1/8" = 1'-0"

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MEZZANINE - SERVICE PIPING PLAN

SHEET NUMBER:

P202

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Plumbing Fixture Schedule

Identity	Description	Manufacturer	Model	Qty	Product Type	Installation Type	ADA	Material Description	Finish	Faucet / Valve		Domestic Connections			Product Specification	Notes
										Manufacturer M/N	Type	Cold Water	Hot Water	Piping Size(s)		
EWC-1	Water Cooler	Elkay	EMABFTL8WSLK	1	Electric Water Cooler - Dual Height	Wall Hung	Yes	Galvanized Steel	Light Gray Granite			Yes	No	1/2"	ezH2O® Bottle Filling Station with Mechanically Activated Bi-Level ADA Cooler Non-Filtered Refrigerated Light Gray.	
EWC-2	Bottle Filler	Elkay	LZWSSM	1	Bottle Filling Station	Wall Hung	No	Galvanized Steel	Stainless Steel			Yes	No	1/2"	Stainless. Features shall include Antimicrobial*, Filtered, Green Ticker™, Hands Free, Laminar Flow, Real Drain, Visual Filter Monitor, Electronic Bottle Filler Sensor activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 1 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.	
FD-1	Floor Drain	Watts	FD-100-A	24	Round Strainer			Cast Iron							Epoxy Coated Cast Iron Floor Drain With Anchor Flange, Reversible Clamping Collar With Primary & Secondary Weepholes, Adjustable Round Heal Proof Nickel Bronze Strainer, And No Hub Outlet.	1
FS-1	Floor Sink	Watts	FS-730	2	12" Square X 6" Deep			Cast Iron							12" Square X 6" Deep Sanitary Floor Sink With White Porcelain Enamel Coated Interior, Loose Set Porcelain Enamel Coated Cast Iron Grate, Polypropylene Dome Bottom Strainer, And No Hub Outlet.	
GB-1	Gas Connection	Burnaby Manufacturing LTD	G0-102-DBL-SS	2	Gas Connection	Wall Mount	No	Stainless Steel	Stainless Steel			Yes	No	1/2"	Recessed Stainless Steel Gas Plug with (2) 1/2" Hose Connections. 125,000 BTU NG Each Side. 1/2" Inlet Connection.	
GB-2	Gas Connection	Burnaby Manufacturing LTD	VGP-GO-102-CDN	1	Gas Connection	Set in Concrete	No	Stainless Steel	Stainless Steel			Yes	No	1/2"	Recessed Stainless Steel Gas Plug with (1) 1/2" Hose Connections. 125,000 BTU NG. 1/2" Inlet Connection.	
HB-1	Hose Bibb	Zurn	Z1320XL-EZ	3	Wall Hydrant	Wall Mount	No					Yes	No	3/4"	Encased, EcolotrolTM, lead-free, non-freeze automatic draining wall hydrant for flush installation.Hydrant features integral backflow preventer with anti-siphon technology,copper casing, all-bronze interior components with 1/2 turn long-life ceramic disc cartridge,combination 3/4" [19] female solder and 3/4" [19] male pipe thread inlet connection, and 3/4" [19] male hose connection. Hydrant furnished with type 304 stainless steel housing with locking hinged cover stamped "WATER" and includes operating key. Hydrant housing fits within one standard modular masonry course.Recommended wall opening: 3-3/16" [81] X 8-1/2" [216].	
HR-1	Water Hose Reel	Reelcraft	D830-75 OLP	8	Dual Pedestal Hose Reels	Wall Mount								3/4"	Base Mounted Dual Pedestal with heat treated aluminum casting, two sealed ball bearings for smooth rotation of the main shaft, guide arm with 4 different adjustable positions, with Low Pressure 3/4-in x 75 ft PVC hose included 3/4" Connection.	
HR-2	Air Hose Reel	Reelcraft	RS7850 OLP	5	Dual Pedestal Hose Reels	Wall Mount								1/2"	Reelcraft REELSAFE® RS7650 OLP, 1/2 in. x 50 ft. low pressure oil hose. Spring return with integral centrifugal clutch limiting retraction to approx. 2 mph; no field adjustment required. Column mounted; provide manufacturer's wall mounting bracket.	
HB-2	Hose Bibb	Zurn	Z1320XL-EZ	3	Wall Hydrant	Wall Mount	No					Yes	No	3/4"	Encased, EcolotrolTM, lead-free, non-freeze automatic draining wall hydrant for flush installation.Hydrant features integral backflow preventer with anti-siphon technology,copper casing, all-bronze interior components with 1/2 turn long-life ceramic disc cartridge,combination 3/4" [19] female solder and 3/4" [19] male pipe thread inlet connection, and 3/4" [19] male hose connection. Hydrant furnished with type 304 stainless steel housing with locking hinged cover stamped "WATER" and includes operating key. Hydrant housing fits within one standard modular masonry course.Recommended wall opening: 3-3/16" [81] X 8-1/2" [216].	
JS-2	Sink	ADVANCE TABCO	FS-FM-2721-F	3	Laundry Tub	Floor Set	No	Stainless Steel	Stainless Steel	Included		Yes	Yes	1/2"	Advance Tabco Heavy Duty Floor Mounted Stainless Steel Service Sink FS-FM-2721-F w/ K-159 Gooseneck Faucet, 8" centerset, 3-1/2" gooseneck spout, 24" x 18" x 12" deep bowl, 8-1/2" backsplash, stainless steel tubular legs with flanged feet, and 3-1/2" rear basket drain.	
KE-01	Commercial Sink	Elkay	ELUHAD121255PD	1	1-Compartment	Undermount	Yes	Stainless Steel	Luminous Satin	Kohler K-28358		Yes	Yes	1/2"	Single-Compartment Kitchen Style Sink and Pulldown Faucet	
KE-02	Commercial Sink	Elkay	ELUHAD281655PD	1	1-Compartment	Undermount	Yes	Stainless Steel	Lustrous Satin	Kohler K-28358		Yes	Yes	1/2"	Single-Compartment Kitchen Style Sink and Pulldown Faucet	
KE-03	Commercial Sink	Elkay	RNSF83544	2	3-Compartment	Undermount	No	Stainless Steel	Stainless Steel	Elkay LK940GN05T4H		Yes	Yes	1/2"	3-Compartment Stainless Steel Sink with Wall-Mounted Faucet	
KE-04	Commercial Sink	Elkay	ECTRU35179TC	2	1-Compartment	Undermount	Yes	Stainless Steel	Polished Satin	Kohler K-28358		Yes	Yes	1/2"	Single-Compartment Kitchen Style Sink and Pulldown Faucet	
LAV-1	Lavatory	Elkay	WCLWO1923OSDC	1	Wall Hung	Wall Hung	No	Stainless Steel	Lustrous Satin	Chicago Faucets / 3511-E2805AB	Manual	Yes	Yes	1/2"	Lavatory With Backsplash, Faucet Holes On 4" Centers. Deck-Mounted Faucet With Manual Operation, Vandal Resistant Spray, External Asse 1070 Compliant Thermostatic Mixing Valve, Grid Drain, Loose Key Angle Stops And Supplies. Insulate Water And Waste With Insulation Kit.	
LAV-1A	Lavatory	Elkay	WCLWO1923OSDC	1	Wall Hung ADA	Wall Hung	Yes	Stainless Steel	Lustrous Satin	Chicago Faucets / 3511-E2805AB	Manual	Yes	Yes	1/2"	Lavatory With Backsplash, Faucet Holes On 4" Centers. Deck-Mounted Faucet With Manual Operation, Vandal Resistant Spray, External Asse 1070 Compliant Thermostatic Mixing Valve, Grid Drain, Loose Key Angle Stops And Supplies. Insulate Water And Waste With Insulation Kit.	
LAV-2	Lavatory	Kohler	K-37626	9	Counter Mount	Undermount	No	White Vitreous China	White	Chicago Faucets / 3511-E2805AB	Manual	Yes	Yes	1/2"	Undermount Vitreous China Lavatory With Overflow. Single-Hole Deck-Mounted Faucet With Manual Operation, Vandal-Resistant 0.5 GPM Spray, Integral Temperature Control Mixer, And Flexible Hot And Cold Water Supplies.	
LAV-2A	Lavatory	Kohler	K-37626	3	Counter Mount ADA	Undermount	Yes	White Vitreous China	White	Chicago Faucets / 3511-E2805AB	Manual	Yes	Yes	1/2"	Undermount Vitreous China Lavatory With Overflow. Single-Hole Deck-Mounted Faucet With Manual Operation, Vandal-Resistant 0.5 GPM Spray, Integral Temperature Control Mixer, And Flexible Hot And Cold Water Supplies.	
OB-1	Outlet Box	IPS Corporation	MIB1HAAB	4	Ice Maker	Recessed		Steel	White			Yes	No	1/2"	Recessed, White Powder-Coated Ice Maker Outlet Box With A Brass Quarter Turn Hammer Arrester Valve. Unit Shall Be Guy Gray™ Product Code Checked Below As Manufactured By IPS Corporation. The Brass Quarter Turn Valves Shall Comply With NSF61, NSF/ANSI 372, And ASME A112.18.1/CSA B125.1 And Shall Feature White Handle And Check-Mark Logo For Easy Lead-Free Identification.Hammer Arrester Shall Comply With ASSE 1010.	
OB-2	Outlet Box	IPS Corporation	MWB13	6	Washing Machine	Recessed		Steel	White			Yes	Yes	1/2"	Center Drain White Powder Coated Metal Washing Machine Outlet Box. Unit Shall Be Guy Gray Product Code As Manufactured By IPS Corporation. Qtr. Turn Valve With 1/2" Sweat/MIP, PEX, Wirsbo, Or CPVC Connection. 2" Slipnut Drain Kit Included. Valves Comply With ASME A112.18.1.	
OB-3	Outlet Box	IPS Corporation	DW1200HA	2	Dishwasher	Recessed		Hi-Impact Resin	White			No	Yes	1/2"	Recessed, White Powder-Coated Dishwasher Outlet Box, w/ Lead Free Qtr. Turn Arrester Valve with 3/8" Compression Outlet Available For Sweat.	
OB-4	Outlet Box	IPS Corporation	MIB1HAAB	1	Coffee Maker	Recessed		ABS Plastic	White			No	Yes	1/2"	Recessed, White Powder-Coated Coffee Maker Outlet Box With A Brass Quarter Turn Hammer Arrester Valve. Unit Shall Be Guy Gray™ Product Code Checked Below As Manufactured By IPS Corporation.	
PF-1	Pot Filler	Kohler	K-35745-CP	1	Single-Hole-Wall-Mounted Pot and Kettle Filler	Wall Mount	No					Yes	No	1/2"	Kohler Wall-Mounted Pot Filler K-35745-CP with articulating 360° rotating spout, single lever handle with main shutoff, ceramic disc valves, 7" spout reach, 5.2 GPM maximum flow rate, and polished chrome finish.	
SH-1A	Shower Stall - ADA	By Others	By Others	7	Shower Fixtures	Floor Set	Yes			Symmons / C-96-500-B30-V		Yes	Yes	1/2"	The Individual Shower Stall Is Specified In Another Division. See this schedule for Shower Drains. Shower System With Asse 1016 Compliant Type "T/P" Thermostatic/Pressure Balancing Combination Valve With Adjustable Stop Screw To Limit Handle Turn. Concealed 3-Port Diverter Valve With Lever Handle With Arm And Flange, Integral Stops, And In-Line Vacuum Breaker. Hand Shower System With Standard Hand Shower, 60" Flexible Metal Hose, And 48" Slide Bar For Hand Shower Mounting. Provide ManufacturerS Flow Rate Restrictor On Showerhead.	
TD-1	Trench Drain	Watts	Dead Level D	57	Wide Reveal Trench Drain System	Set in Concrete		Polypropylene							6"(152) wide x 48"(1219) long (standard) UV stabilized glass-filled polypropylene frame, UV stabilized talc-filled polypropylene channels with integral 4"(102) No Hub bottom outlet(s). System shall be frame-anchored, with DI grating to suit DIN Class E load rating with Frame Guards. Installed length (number of sections) varies per architectural plans	
TD-2	Shower Linear Drain	Oatey	PLD36-N	13	QuickDrain ProLine Drain	Set in Concrete		Stainless Steel							18 Gauge 316L Stainless Steel Linear Shower Drain with "Lines" grate. Fully sloped trough to prevent standing water and solids from being deposited in the trough. 2" I.D. Schedule 10 stainless steel downspout waste outlet. Drain cover sold separately.	
U-1	Urinal	American Standard	Washbrook	7	Wall Hung	Wall Hung	No	White Vitreous China	White	Sloan / REGAL 186-0.5	Manual	Yes	No	3/4"	Wall Hung Urinal With Washout Action, Top Spud, Size 18" With Integral Extended Shields Supported By Through Going Bolts And C.P. Nuts. Manual Flushometer 0.5GPF	
WC-1	Water Closet	Kohler	K3505	6	Pressure Assist Water Closet	Floor Set	No	White Vitreous China	White	Sloan / Flushmate III	Manual	Yes	No	1/2"	Elongated Floor Mounted Pressure Assist Tank Type Water Closet, With Kohler Stronghold K-4731-GC Commercial elongated toilet seat with integrated handle and Quiet-Close™ check hinge. Provide A 1/4" Brass Ball Valve At Wall Connection.	
WC-1A	Water Closet	Kohler	K3493	6	Pressure Assist Water Closet	Floor Set	Yes	White Vitreous China	White	Sloan / Flushmate III	Manual	Yes	No	1/2"	ADA Height Elongated Floor Mounted Pressure Assist Tank Type Water Closet, With Kohler Stronghold K-4731-GC Commercial elongated toilet seat with integrated handle and Quiet-Close™ check hinge. Provide A 1/4" Brass Ball Valve At Wall Connection.	

NOTES:
1. ALL FLOOR DRAINS (NOT INCLUDING TRENCH DRAINS, AND FLOOR SINKS) SHALL HAVE DOMESTIC WATER PIPING ROUTED FROM TRAP PRIMERS UNLESS OTHERWISE NOTED.

Thermal Expansion Tank Schedule

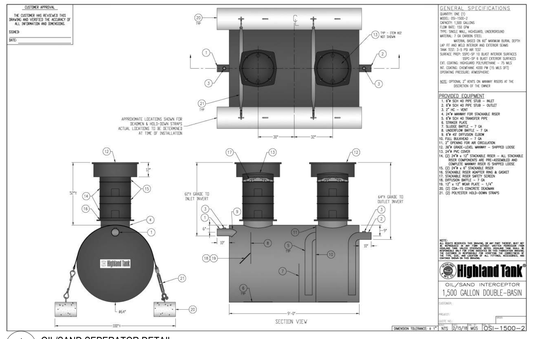
Identity	Location Name	Location No.	Manufacturer	Model	Product Type	System Fluid	Water Supply Temp.	ASME	Tank Fill Pressure	Tank Fill Temp.	Tank Acceptance Factor	Tank Acceptance Volume	Tank Capacity	Product Weight	Operating Weight	Notes
DET-1	MECHANICAL	124	Bell & Gossett	PT-12	Diaphram	Dom. Water	40 °F	Yes	38 psi	40 °F	73%	3.2 gal	4.4 gal	9 lb	128 lb	
DET-2	COMPRESSOR	201	Bell & Gossett	PT-12	Diaphram	Dom. Water	40 °F	Yes	38 psi	40 °F	73%	3.2 gal	4.4 gal	9 lb	128 lb	
PT-1	MECHANICAL	124	Amtrol	ST-70VC	Fixed Diaphram	Dom. Water	40 °F	Yes	0 psi	40 °F	32%	10.9 gal	34.0 gal	99 lb	190 lb	
UT-40	MECHANICAL	124	Amtrol	ST-210VC	Fixed Diaphram	Dom. Water	40 °F	Yes	0 psi	40 °F	39%	35.1 gal	90.0 gal	319 lb	612 lb	

Air Compressor Schedule

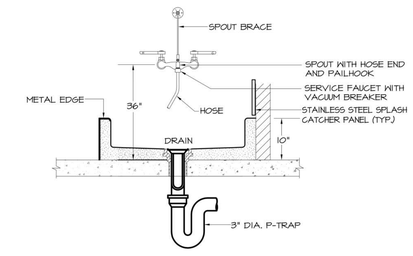
Identity	Location Name	Location No.	Manufacturer	Model	HP	Capacity (CFM @ 90 psi)	Max Pressure	Tank Capacity	Electrical	Weight (lbs)	Notes
AC-1	COMPRESSOR	201	Ingersoll Rand	2340L5	5	14.3	175	60 gal	460-3-60	433	

Domestic Circulator Pump Schedule

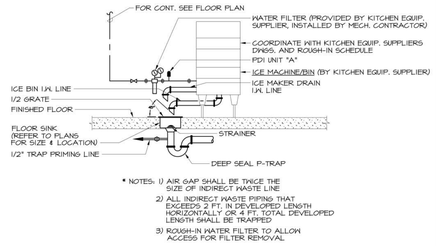
Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Connections Suction	Connections Discharge	Motor Power	Motor RPM	Electrical FLA	Electrical Voltage	Electrical Phase	Notes
DCP-1	MECHANICAL	124	Taco	008IQSF6-IFC	Inline	3/4"	3/4"	19 W	3250	0.84 A	120 V	1	
DCP-2	COMPRESSOR	201	Taco	008IQSF6-IFC	Inline	3/4"	3/4"	19 W	3250	0.7 A	120 V	1	



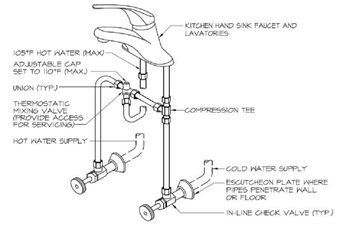
1 / P601 OIL/SAND SEPERATOR DETAIL
NOT TO SCALE



4 / P601 DETAIL - JANITOR SINK
NOT TO SCALE



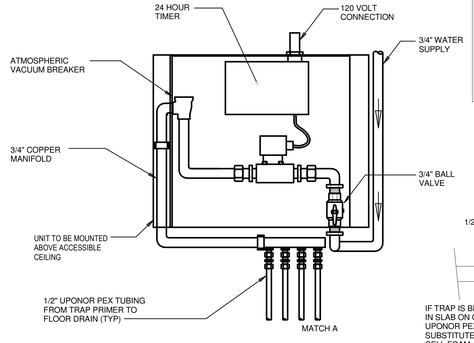
5 / P601 DETAIL - ICE MACHINE
NOT TO SCALE



3 / P601 DETAIL - FAUCET
NOT TO SCALE

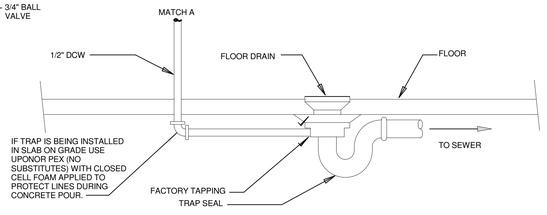
Gas-Fired Water Heater Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Temp. Rise	Recovery Capacity	Storage Capacity	MAWP	ASME	Gas Burner Type	Gas Burner Input Rating	Gas Burner Output Rating	Gas Burner Efficiency	Electrical Voltage	Electrical Phase	Breaker Size	Product Weight	Operating Weight	Notes
GWH-1	MECHANICAL	124	Rheem	GHE100SS-250(A)	Gas Tank	100F	291gph	100gal	160 PSI	Y	NG	250MBH	240MBH	96%	110	1	7.5A	775lbs	-	
GWH-2	COMPRESSOR	201	Rheem	GH80SS-130 (A)	Gas Tank	100F	153gph	80gal	160 PSI	Y	NG	130MBH	120MBH	96%	110	1	7.5A	775lbs	-	

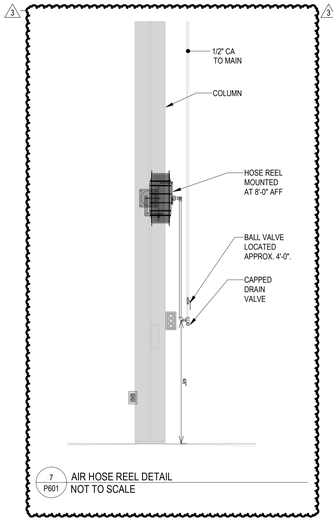


TRAP PRIMING MANIFOLD SCHEDULE

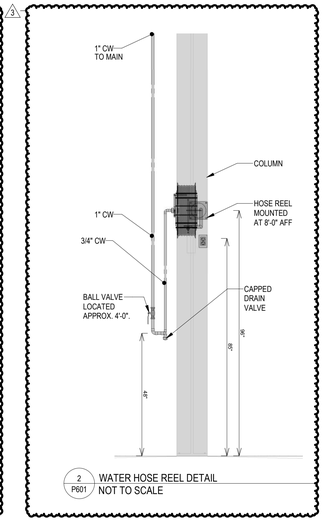
TAG	SYSTEM	LOCATION	VOLTAGE	PHASE	MANUFACTURER	MODEL	REMARKS
TP-1	ELECTRONIC TRAP PRIMING MANIFOLD	LAUNDRY 125	120 V	1	PPP INC.	PTS-10	
TP-2	ELECTRONIC TRAP PRIMING MANIFOLD	CORRIDOR 106	120 V	1	PPP INC.	PTS-10	
TP-3	ELECTRONIC TRAP PRIMING MANIFOLD	EMS OFFICE I 152	120 V	1	PPP INC.	PTS-6	



6 / P601 DETAIL - ELECTRONIC TRAP PRIMER
NOT TO SCALE



7 / P601 AIR HOSE REEL DETAIL
NOT TO SCALE



2 / P601 WATER HOSE REEL DETAIL
NOT TO SCALE

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
1	10/15/26
2	10/22/26
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

PLUMBING SCHEDULES & DETAILS

SHEET NUMBER:

P601

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General Plan Symbols

Plan Revision Number

Detail Number on Sheet
Sheet Number Where Detail is Placed

Keynote Symbol

Continuation Symbol

Point Where New Connects To Existing

Room
1 — Room Name / Number

Area Being Demolished

Area Not In Contract

Fire Protection Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- FP-W — Wet Fire Sprinkler
- FP-D — Dry Fire Sprinkler
- FP-PA — Preaction Fire Sprinkler
- F/W — Fire & Water Service
- FP-O — Fire Sprinkler (Other)
- Upright Sprinkler
- Pendent Sprinkler
- Recessed Sprinkler
- Concealed Head
- D — Upright Sprinkler
- Sidewall Sprinkler
- Extended Coverage Sprinkler
- Standpipe Valve
- 48"x18" S/A — Obstruction From Ductwork 48" and Greater
- Check Valve
- Alarm Check Valve
- Tamper Detection Valve
- Dry Pipe Valve
- Indicating Butterfly Valve
- Post Indicator Valve
- Valve Norrising Stem
- OS&Y Valve
- Preaction Valve
- Deluge Valve
- Thrust Block
- Pipe Anchor
- Freestanding Siamese Fire Department Connection
- Siamese Fire Department Connection
- Single Fire Department Connection
- Riser Assembly
- Double Check (OS&Y)
- Double Check (Butterfly with Tamper)
- Reduced Pressure Zone
- X — Equipment Identity

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Fire Protection General Notes

A. PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

C. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

D. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

E. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

F. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

G. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

H. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

I. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

J. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

K. FLOW TEST DATA FROM 01/08/26 INDICATES THE THE FOLLOWING: STATIC PRESSURE: 90 PSI. RESIDUAL PRESSURE: 87 PSI AT 1,405 GPM. FLOW WAS MEASURED AT HYDRANT FH HEX-141, LOCATED AT THE WESTERN CORNER OF EXETER MEDICAL CENTER. THE FLOW TEST DATA DOES NOT ACCOUNT FOR LOSSES DUE TO ELEVATION CHANGE OR PIPE FRICTION FROM THE WATER MAIN TO THE BUILDING. SEE CIVIL PLANS FOR HYDRANT LOCATIONS. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNER'S REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.

L. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

M. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

N. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

Fire Protection Sheet Index

F000	FIRE PROTECTION TITLE SHEET
F111	FIRST FLOOR FIRE PROTECTION PLAN
F112	MEZZANINE & APP BAY FIRE PROTECTION PLAN

SEISMIC & WIND REQUIREMENTS FOR MECHANICAL / PLUMBING SYSTEMS IBC / ASCE-7

THIS FIRE STATION IS ASSIGNED TO SEISMIC DESIGN CATEGORY C AND IS OCCUPANCY / RISK CATEGORY IV AS DEFINED BY CHAPTER 1 OF ASCE-7. ALL HVAC, PLUMBING & FIRE PROTECTION SYSTEMS AND EQUIPMENT ARE REQUIRED FOR THE CONTINUED OPERATION OF THE FIRE STATION AFTER AN EARTHQUAKE AND SHALL BE ASSIGNED A COMPONENT IMPORTANCE FACTOR OF 1.5 IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7.

A. PER SECTION 301.15 OF THE INTERNATIONAL MECHANICAL CODE, MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS (INCLUDING ROOF CURBS & ROOF RAILS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED. SEE SEISMIC INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.

B. USE APPLICABLE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH MECHANICAL COMPONENT.

C. FOR ALL COMPONENTS REQUIRING SEISMIC AND/OR WIND RESTRAINT, THE MECHANICAL / PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED IN ACCORDANCE WITH THE IBC AND ASCE 7 BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA WHO IS QUALIFIED TO DESIGN SEISMIC RESTRAINT SYSTEMS. SHOP DRAWINGS SHALL INCLUDE SEPARATE DETAILS AND CALCULATIONS FOR EACH SEPARATE SYSTEM, DEVICE, OR ELEMENT. THE APPROVAL OF SEISMIC BRACING SHOP DRAWINGS SHALL BE REQUIRED PRIOR TO THE INSTALLATION OF ANY BUILDING SYSTEMS OR COMPONENTS.

D. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE SEISMIC SUBMITTAL.

E. SEISMIC RESTRAINTS FOR PIPING AND DUCTWORK MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED		RESTRAIN ALL - SEISMIC & WIND	-
FLOOR MOUNTED		RESTRAIN ALL	-
WALL MOUNTED		RESTRAIN ALL	-
COMPONENT SUPPORTS		RESTRAIN ALL	-
SUSPENDED EQUIPMENT	INLINE W/ DUCT	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN.	3
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL	-
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		>2"	4
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 2" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT	4
DUCTWORK		6 SQ.FT. AND LARGER	5
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT	4
COMPONENT CERTIFICATION (SEE NOTE 6)		REQUIRED	6

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED AT 4 FT. OR LESS ABOVE A FLOOR, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, T HEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

(DESIGN: 0.20 / 1,125 SQFT)
9 SPRINKLERS AT 1,170 SQFT TOTAL
43.6 PSI **509 GPM**

Sprinkler (K-11.2): 7 psi
Branch (2-in): 8.5 psi
Mains (4-in): 8.3 psi
Riser (4-in): 8.4 psi
Elevation: 9.1 psi
Undergound (6-in): 2.3 psi

System
NFPA 13 Edition: **2019**
Configuration: **Tree**
System Type: **Wet**
Hazard: **Ordinary 2**
Density: **0.20 gpm/sqft**
C-Factor: **120**
Inside Hose: **100 gpm**
Outside Hose: **150 gpm**
K-Factor: **11.2**
Minimum Pressure: **7 psi**

Layout
Width of Area: **100-ft**
Sprinkler Spacing (feet): **10 x 13**
Sprinkler Coverage: **130 sqft**
Sprinklers per Branch: **10 sprinklers**
Main Located After: **4 sprinklers**
Ceiling Height: **20-ft**
Sprinkler Height: **20-ft**
Branch Height: **21-ft**
Source Height: **0-ft**

Remote Area
Original Remote Area: **1,500 sqft**
QR Reduction: **Yes**
Slope Increase: **No**
Dry / Double Interlock: **No**
High-Temp Increase: **No**
Adjusted Remote Area: **1,125 sqft**
Sprinklers Calculated: **9 at 130 sqft**
Actual Remote Area: **1,170 sqft**
Flow Overrage: **+126%**

Schematic

Riser
Valve Size: **4-in**
Valve Type: **Butterfly**
Monitoring: **Waterflow**
Backflow Size: **6-in**
Backflow Loss: **6 psi**

Mains
Diameter: **4-in**
Length to Riser: **300-ft**
Schedule: **Schedule 10**

Riser Nipple
Diameter: **2.5-in**
Height: **1-ft**
Schedule: **Schedule 40**

Underground
Diameter: **6-in**
Length: **500-ft**
C-Factor: **140**

Branch Pipe
Style: **Return-Bend**
Sizing: **No Override**
Largest Diameter: **2-in**
Schedule: **Schedule 40**
Return-Bend: **1-in**

WATER SUPPLY ANALYSIS

Test 1 (US)

SITE INFORMATION

Address	Location	Date	Time	Performed By
Exeter Fire Co	Western corner of Exeter Medical	01/08/2026	HOH:MM	PA American Water

HYDRANTS

STATIC & RESIDUAL HYDRANT
Static (psi): 90
Residual (psi): 87
Location: Fields,Perpdual hydrant location
Elevation (ft): Example: 523 ft

FLOW HYDRANT 1
Flow Override (gpm): 1405
If provided, this flow overrides pitot-based calculation.
Pitot (psi): 88
Number of Outlets: 1
Outlet Diameter (in): 2.5
Outlet Coefficient: 0.9
Location
Flow: 1405 gpm

FLOW HYDRANT 2 (OPTIONAL)
Flow Override (gpm)
If provided, this flow overrides pitot-based calculation.
Pitot (psi): 0
Number of Outlets: 0
Outlet Diameter (in): 2.5
Outlet Coefficient: 0.7
Location
Flow: 0 gpm

FIRE FLOW (GLOBAL)
Expected Flow at 20 psi
7698 gpm

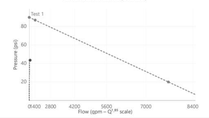
SYSTEM DEMAND (GLOBAL)

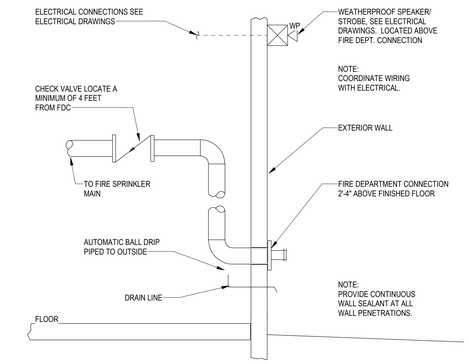
Demand P	Demand Q	Hose	Margin
43.6 psi	509 gpm	250 gpm	45.9 psi 51.3 %

WATER SUPPLY ANALYSIS (ALL TESTS)

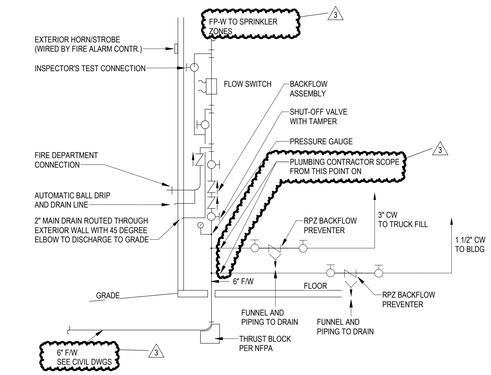
TEST 1	
Site	Address: Exeter Fire Co • Location: Western corner of Exeter Medical Center • Date: 2026-01-08 • By: PA American Water
Static Pressure	90.0 psi
Residual Pressure	87.0 psi
Total Flow	1405 gpm
Expected Flow at 20 psi	7698 gpm
System Demand	43.6 psi 509 gpm
Hose Allowance	250 gpm
Margin	45.9 psi 51.3 %

WATER SUPPLY CURVE (OVERLAY)

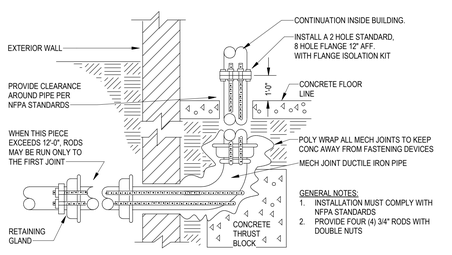




1 F000 FIRE DEPARTMENT CONNECTION DETAIL
NOT TO SCALE

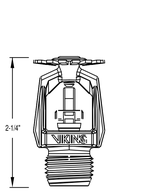


2 F000 FIRE PROTECTION RISER ASSEMBLY DETAIL
NOT TO SCALE



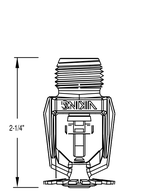
NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

3 F000 WATER SERVICE LINE EXTENSION DETAIL
NOT TO SCALE



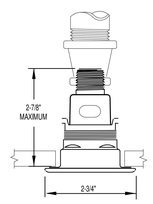
VIKING QUICK RESPONSE SERIES VK300, K= 5.6, 1/2" NPT, UPRIGHT, BRONZE FINISH.

NO SCALE



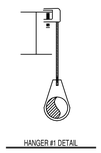
VIKING QUICK RESPONSE SERIES VK302, K=5.6, 1/2" NPT, PENDENT & VIKING SERIES VK357, K=8.0, 3/4" NPT, PENDENT, BRONZE FINISH

NO SCALE



VIKING QUICK RESPONSE SERIES VK462, K=5.6, 1/2" NPT, CONCEALED WITH WHITE COVER PLATE.

NO SCALE



HANGER #1 DETAIL

1 – ALL THREAD ROD
1 – RING
1 – UNIVERSAL TOP BEAM CLAMP



HANGER #2 DETAIL

1 – ALL THREAD ROD
1 – RING
1 – UNIVERSAL TOP BEAM CLAMP



HANGER #4 DETAIL

1 – ALL THREAD ROD
1 – RING
1 – CONCRETE DROP-IN



HANGER #6 DETAIL

1 – THUNDERBOLT
1 – ROD
1 – RING

Protection Areas and Maximum Spacing
(Standard Spray Upright/Standard Spray Pendent)

	LIGHT HAZARD		ORDINARY HAZARD		EXTRA HAZARD		HIGH-PILED HAZARD	
CONSTRUCTION TYPE	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft	Protection Area ft²	Spacing (max.) ft
Noncombustible obstructed and unobstructed and combustible unobstructed	225	15	130	15	100	12	100	12
Combustible obstructed	168	15	130	15	100	12	100	12
Note: For hydraulically calculated systems only.								

MAXIMUM DISTANCE BETWEEN HANGERS

NOMINAL PIPE SIZE (in.)	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	5"	6"	8"
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A

SPRINKLER NOTES:

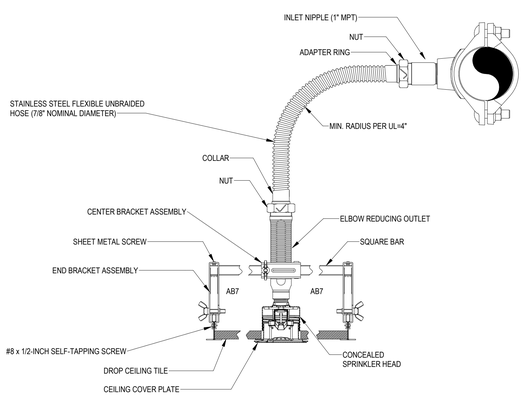
1. ALL PIPE TO BE SCHEDULE 40 BLACK STEEL PIPE MEETING OR EXCEEDING ASTM A-135 REQUIREMENTS.

2. ALL SCREW FITTINGS TO BE CAST IRON AND OR MALLEABLE IRON MEETING OR EXCEEDING ANSI B16.4 AND ANSI B16.3.

3. ALL GROOVED FITTINGS TO BE MALLEABLE IRON MEETING OR EXCEEDING ASTM A-536 REQUIREMENTS.

4. ALL HANGERS TO MEET OR EXCEED NFPA PAMPHLET REQUIREMENTS.

4 F000 SPRINKLER & HANGER DETAILS
NOT TO SCALE



NOTE: ALL CONCEALED HEADS TO USE FLEXIBLE HOSE CONNECTIONS

5 F000 CONCEALED SPRINKLER HEAD INSTALLATION DETAIL
NOT TO SCALE

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
1	10/15/26
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

FIRE PROTECTION TITLE SHEET

SHEET NUMBER:
F000

10/29/2026 1:44:09 PM

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ELECTRICAL SYMBOL LEGEND

ELECTRICAL DEVICES & EQUIPMENT

SYMBOL	DESCRIPTION
	20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE, SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED), AND COVERPLATE.
	20A, 120V AC, NEMA 5-20R, DOUBLE DUPLEX RECEPTACLE, DOUBLE GANG BOX, TILE RING (DEPTH AS REQUIRED), AND COVERPLATE.
XX-XXR	SPECIAL PURPOSE ELECTRICAL RECEPTACLE, XX-XXR = NEMA CONFIGURATION, MH = 18" A.F.F. AS MEASURED TO CENTER OF DEVICE BOX U.O.N. (COORDINATE WITH MILLWORK).
S	RECESSED JUNCTION BOX, CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING.
J CLNG	FLOOR/CEILING RECESSED JUNCTION BOX
PB	PULL BOX
XX-XXR WP	ELECTRIC CORD REEL, FED FROM GFCI BRANCH CIRCUIT BREMER, 20A, 250V AC RATED, NEMA 5-20R, YELLOW INDUSTRIAL REEL, UL TYPE 1, 35FT #12/3 SJO CORD, 90° YELLOW FEMALE WATERPROOF SINGLE RECEPTACLE. CORD REEL SHALL BE MODEL #HBL5361I22Y WITH RECEPTACLE END #HBL1553 AS MANUFACTURED BY HUBBELL. PROVIDE BALL STOP #HBL0TOS AND PIVOT BASE #HVL536PB AS MANUFACTURED BY HUBBELL. XX-XXR = SPECIAL RECEPTACLE NEMA CONFIGURATION, WP = WEATHERPROOF REEL, UL TYPE 4, WITH IN-USE WEATHERPROOF COVER.
WM	4" WIDE STAINLESS STEEL RACEWAY, 20A-120V DUPLEX RECEPTACLE @ EVERY 24" O.C. RACEWAY SHALL BE #5400I AS MANUFACTURED BY WIREMOLD LEGRAND. PROVIDE RACEWAY WIRE DIVIDER FOR COMMUNICATIONS INSTALLATIONS WHERE SHOWN ON DRAWINGS.
MM	MULTIMEDIA STATION WITH (4) GANGS FOR (1) 5-20R QUAD RECEPTACLE, ONE GANG FOR (1) CAT6A "I". (1) HDMI AND ONE GANG FOR (2) RJ45 ETHERNET CONNECTIONS, AND ONE SPARE BOX MOUNTING HEIGHT TO BOTTOM OF OUTLETS SHALL BE AS COORDINATED WITH ARCHITECTURAL DRAWINGS.
FB1	CAST-IRON ON-GRADE STYLE FLOORBOX WITH 10 GANGS, PROVIDE (2) HDMI OUTLETS, (4) RJ-45 ETHERNET OUTLETS, AND (2) 5-20R DUPLEX RECEPTACLES. FLRNISH MODEL #EFR105-OG AS MANUFACTURED BY WIREMOLD LEGRANDE. S = (1) DUPLEX RECEPTACLE SHALL BE SWITCHED.
FRPT1	FIRE-RATED POKE-THRU W/ (2) 20A, 120V AC DUPLEX RECEPTACLES. (1) 4-PORT DATA OUTLET & SURFACE COVER. FIRE RATED POKE-THRU SHALL BE MODEL # 847C28K AS MANUFACTURED BY WIREMOLD LEGRAND.
M	SINGLE-POLE OR TWO-POLE (AS REQUIRED), 250V AC, 1 HP RATED, TOGGLE TYPE MANUAL MOTOR STARTED UNIT WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY, APPROPRIATELY SIZED THERMAL UNITS. NEMA TYPE 1 OR 4 (AS REQUIRED) ENCLOSURE, AND HANDLE GUARD/LOCK-OFF. SQUARE D CLASS 2510 FG OR FW TYPES (AS REQUIRED) OR APPROVED EQUAL.
M3Ø	THREE-POLE, 250V AC, 1 OR 2 HP RATED (AS REQUIRED), TOGGLE TYPE MANUAL MOTOR STARTER UNIT WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY, APPROPRIATELY SIZED THERMAL UNITS, NEMA TYPE 1 ENCLOSURE AND HANDLE GUARD/LOCK-OFF. SQUARE D CLASS 2510 K TYPE OR APPROVED EQUAL.
6A 8AF NEMA#	FUSIBLE SWITCH TYPE COMBINATION STARTER UNIT WITH DOOR MOUNTED HOA SWITCH AND RED "MOTOR RUNNING" LED TYPE PILOT LIGHT. PROVIDE AUXILIARY CONTACT.
6A NEMA#	NON-FUSIBLE DISCONNECT SWITCH
6A 8AF NEMA#	FUSIBLE DISCONNECT SWITCH
	POWER OR DISTRIBUTION PANEL. HIDDEN LINE REPRESENTS ELECTRICAL CLEARANCE SPACE.
	TRANSFORMER (SIZE AS DENOTED). HIDDEN LINE REPRESENTS ELECTRICAL CLEARANCE SPACE.
XX-1	MOTOR
	BUS DUCT WITH PLUG IN DISCONNECT (FUSED)

DATA, SECURITY, & FIRE ALARM

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET, 4 PORT COVERPLATE, PORTS CABLE
	COMBINATION VOICE/DATA OUTLET, 4 PORT COVERPLATE, CAT-6A CABLE (# = NUMBER OF PORTS AND RUNS)
	WIRELESS ACCESS POINT WITH CAT-6A CABLE
	TELEVISION OUTLET WITH RG-6 COAX CABLE INSTALLED BACK TO IT ROOM WITH 10' SLACK.
ES	ELECTRIC STRIKE. (AS PROVIDED BY ELECTRICAL CONTRACTOR) JUNCTION BOX AT DOOR STRIKE LOCATION.
EH	ELECTRONIC DOOR HOLDER. (AS PROVIDED BY ELECTRICAL CONTRACTOR) JUNCTION BOX AT DOOR HOLDER LOCATION.
HDR	CARD ACCESS READER, CONSISTING OF 4" SQUARE JUNCTION BOX AT 48" A.F.F., 120VOAV LOW VOLTAGE TRANSFORMER.
	SINGLE BUTTON "DOOR RELEASE" DEVICE. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO DOOR RELEASE CONTACT.
	SINGLE BUTTON "PANIC" DEVICE. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO SECURITY SYSTEM HEAD-END EQUIPMENT LOCATION. SECURITY VENDOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMMING.
	SECURITY KEYPAD. E.C. SHALL FURNISH AND INSTALL J-BOX AND 3/4" CONDUIT STUBBED UP ABOVE CEILING AND WIRE INSTALLED FROM DEVICE BOX TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM.
INT	INTERIOR CAMERA LOCATION, CAT6 CABLE
EXT	EXTERIOR WEATHERPROOF RATED CAMERA LOCATION. CAT6 CABLE
EPO	EMERGENCY POWER OFF BUTTON
SCP	SECURITY CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR
S	PHOTOVOLTAIC SYSTEM SMOKE DETECTOR. R = ELEVATOR RECALL
H	RATE OF RISE SYSTEM HEAT DETECTOR
S	PHOTOELECTRIC SYSTEM DUCT SMOKE DETECTOR WITH REMOTE TEST STATION.
FA S	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR.
FA S	FIRE ALARM SYSTEM COMBINATION SMOKE/CO DETECTOR.
	FIRE ALARM WALL MOUNTED STROBE LIGHT.
	FIRE ALARM HORN STROBE.
	FIRE SPEAKER STROBE.
F	FIRE ALARM BELL
F	FIRE ALARM PULLSTATION.
	SPRINKLER FLOW SWITCH
	SPRINKLER VALVE TAMPER SWITCH
FR	FIRE ALARM SHUT-DOWN RELAY
	FIRE ALARM EMERGENCY PHONE

LIGHTING DEVICES & CONTROLS

SYMBOL	DESCRIPTION
$_{S}$#	20A, 120-277V AC, SINGLE POLE TOGGLE SWITCH. '3' = THREE WAY TOGGLE SWITCH, '4' = FOUR WAY TOGGLE SWITCH
$_{D}$	24V DC, DIGITAL, TOGGLE, SINGLE BUTTON WALL SWITCH. SWITCH SHALL BE MODEL #LORKON-C7x AS MANUFACTURED BY LEVITON OR EQUAL.
$_{DD}$	24V DC, DIGITAL, DIMMING, DOUBLE BUTTON WALL SWITCH. SWITCH SHALL BE MODEL #LORKON-C2x AS MANUFACTURED BY LEVITON OR EQUAL.
$_{A}$	28V DC, ANALOG, TOGGLE, LOW VOLTAGE, SINGLE BUTTON WALL SWITCH. SWITCH SHALL BE MODEL #PLVSW-1xx AS MANUFACTURED BY LEVITON OR EQUAL.
$_{AD}$	28V DC, ANALOG, DIMMING, LOW VOLTAGE, FOUR BUTTON WALL SWITCH. SWITCH SHALL BE MODEL #PLVSW-4x AS MANUFACTURED BY LEVITON OR EQUAL.
$_{OC1}$	20A, 120-277V AC, SINGLE BUTTON WALL MOUNT, PASSIVE INFRARED SINGLE RELAY ON/OFF OCCUPANCY SENSOR AS MANUFACTURED BY LEVITON MODEL #ODS10-IDR OR EQUAL.
$_{OC2}$	20A, 120-277V AC, TWO BUTTON WALL MOUNT, DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC), DUAL RELAY OCCUPANCY SENSOR AS MANUFACTURED BY LEVITON MODEL #ODS2D-IDx OR EQUAL.
$_{OC3}$	20A, 120-277V AC, SINGLE BUTTON 0-10V DIMMING WALL MOUNT, PASSIVE INFRARED. SINGLE RELAY OCCUPANCY SENSOR AS MANUFACTURED BY LEVITON MODEL #OD0-IDM OR EQUAL.
$_{D10}$	20A, 120-277VAC, ELECTRO-MECHANICAL, 0-10V DIMMING SWITCH AS MANUFACTURED BY LEVITON MODEL #IP710-0OZ.
$_{CC}$	20A, 120-277VAC, RGBW LED LIGHTING CONTROLLER SWITCH. COLORDIAL PRO AS MANUFACTURED BY COLOR KINETICS OR EQUAL. E.C. SHALL FURNISH AND INSTALL ALL WIRING TO CONTROLLER SWITCH FROM CONTROLLER IN WATCH OFFICE.
OC	2000 SQ. FT. COVERAGE SMART CEILING MOUNTED OCCUPANCY SENSOR, 120-277V AC, DUAL TECHNOLOGY (ULTRASONIC AND PASSIVE INFRARED). SENSOR SHALL BE MODEL #ACSD-DMV AS MANUFACTURED BY LEVITON OR EQUAL.
OC1	1500 SQ. FT. COVERAGE CEILING MOUNTED OCCUPANCY SENSOR AND PHOTOCELL, 24V DC, DUAL TECHNOLOGY (MICROWAVE AND PASSIVE INFRARED). SENSOR SHALL BE MODEL #OSP15-MOW AS MANUFACTURED BY LEVITON OR EQUAL. OCCUPANCY SENSOR SHALL BE FED FROM DIGITAL ROOM CONTROLLER.
OC2	2000 SQ. FT. COVERAGE CEILING MOUNTED OCCUPANCY SENSOR, 24V DC, DUAL TECHNOLOGY (ULTRASONIC AND PASSIVE INFRARED). SENSOR SHALL BE MODEL #OSC2D-MNA AS MANUFACTURED BY LEVITON OR EQUAL. OCCUPANCY SENSOR SHALL BE FED FROM DIGITAL ROOM CONTROLLER. OCCUPANCY SENSOR SHALL BE PROVIDED WITH A 2-PORT ANALOG INTERFACE, MODEL #ORDD-C82 AS MANUFACTURED BY LEVITON.
	1200 SQ. FT. COVERAGE WALL MOUNTED OCCUPANCY SENSOR, 24V DC, DUAL TECHNOLOGY (ULTRASONIC AND PASSIVE INFRARED). SENSOR SHALL BE MODEL #OSPW2-MWA AS MANUFACTURED BY LEVITON OR EQUAL. OCCUPANCY SENSOR SHALL BE FED FROM DIGITAL ROOM CONTROLLER. OCCUPANCY SENSOR SHALL BE PROVIDED WITH A 2-PORT ANALOG INTERFACE, MODEL NUMBER #ORDD-C82 AS MANUFACTURED BY LEVITON.
RCD1	20A, 120V-277V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER. SINGLE RELAY, UL LISTED. AS MANUFACTURED BY LEVITON MODEL #DRD1-EDX OR EQUAL.
RCSP	20A, 120V-277V AC, 60HZ, ON/OFF/0-10V DIGITAL ROOM CONTROLLER SMART PACK, SINGLE RELAY, UL LISTED, MODEL #DRDT-ED0 AS MANUFACTURED BY LEVITON OR EQUAL.

COMMUNICATION DEVICES

SYMBOL	DESCRIPTION
AS	ALERTING SYSTEM CEILING MOUNTED SPEAKER, 70V 2.5KW
BS	ALERTING SYSTEM CEILING MOUNTED BATHROOM SPEAKER, 1 W
WS	ALERTING SYSTEM WALL MOUNTED SPEAKER, 2.5W
SS	ALERTING SYSTEM CEILING MOUNTED OMNIDIRECTIONAL SPEAKER, 7.5W
LS	ALERTING SYSTEM WALL MOUNTED EXTERIOR SPEAKER, 7.5W
LED	ALERTING SYSTEM CEILING MOUNTED LED LIGHT/SPEAKER, 2.5W
R	ALERTING SYSTEM CEILING MOUNTED RED LED CLUSTER LIGHT
RB	ALERTING SYSTEM CEILING MOUNTED COLORED LED STROBE LIGHT
MCL	ALERTING SYSTEM CEILING MULTI-COLOR LIGHT
RB	ALERTING SYSTEM ABOVE CEILING RB RELAY
APS	ALERTING SYSTEM ALERTING CONTROLLER
I	ALERTING SYSTEM CEILING MOUNTED TROUBLE STROBE
I	ALERTING SYSTEM WALL MOUNTED EMERGENCY ALERT
AD	ALERTING SYSTEM WALL OR CEILING MOUNTED COMMERCIAL ALERTING DISPLAY
D	LED DISPLAY WALL OR CEILING MOUNTED
$_{VOL}$	WALL MOUNTED VOLUME CONTROL, 10W, 4/8" MH
$_{VOL}$	WALL MOUNTED VOLUME CONTROL, 36W, 48" MH
$_{3B}$	WALL MOUNTED 4 BUTTON ALERT SELECTOR, 48" MH
$_{3B}$	WALL MOUNTED 3 BUTTON ALERT SELECTOR, 48" MH
$_{2B}$	WALL MOUNTED 2 BUTTON MANUAL ALERT, 48" MH
$_{MC}$	WALL MOUNTED MEDICAL EMERGENCY BUTTON, 48" MH
$_{SR}$	WALL MOUNTED RESET BUTTON, 48" MH
$_{SOR}$	WALL MOUNTED STOVE RESET BUTTON, 48" MH
$_{SOU}$	WALL MOUNTED SPEAKER/AUDIO DISCONNECT
$_{SD}$	WALL MOUNTED STOVE DISCONNECT
DS	FLUSH OR SURFACE MOUNTED APS DOORBELL
HC	STAINLESS STEEL WEATHER RESISTANT DOOR STATION LOCATION WITH VIDEO CAMERA.
MS	WALL MOUNTED VIDEO DOORBELL MASTER STATION LOCATION.
MS	WALL MOUNTED SPEAKER
	WALL MOUNTED DIGITAL NETWORK CLOCK - PYRAMID #924BR

GENERAL

SYMBOL	DESCRIPTION
#	KEYED NOTE (SEE KEYNOTE ON PLAN)
XX-1	MECHANICAL EQUIPMENT TAG
ROOM NAME XX	ROOM TAG
X.#	TYPICAL BRANCH CIRCUITING HOME RUN SYMBOL. GENERALLY, 15A AND 20A BRANCH CIRCUITS CONSISTS OF (2) #12 AWG CU. AND (1) #12 AWG CU. GND. IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. "X" IDENTIFIES PANELBOARD DESIGNATION, "#" IDENTIFIES PANELBOARD CIRCUIT NUMBER.
	LIGHT AND SOLID SYMBOL INDICATES EXISTING TO REMAIN
	DARK AND SOLID SYMBOL INDICATES NEW WORK
	DARK AND DASHED SYMBOL INDICATES DEMOLISHED.

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE
SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

SYMBOL LEGEND NOTES

POWER DEVICES

WALL MOUNTED WIRING DEVICE NOTES:
- MH = 18" A.F.F. AS MEASURED TO CENTER OF DEVICE BOX U.O.N. (COORDINATE WITH MILLWORK).
- GFI = GFCI TYPE
- U = USB-A &USB-C CHARGING PORT TYPE
- WP = IN USE WEATHERPROOF COVER

ELECTRICAL EQUIPMENT NOTES:
- "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE. "#A" IDENTIFIES DISCONNECT SWITCH AMPACITY RATING. "#AF". IF PRESENT, IDENTIFIES APPROXIMATE FUSE RATING.
- UNLESS OTHERWISE NOTED, ALL FUSIBLE DISCONNECT SWITCHES SHALL BE COMPLETE WITH APPROPRIATELY SIZED DE, TD, CL, CLASS RK5 FUSES.
- ALL COMBINATION MOTOR STARTERS SHOWN ON OVERHEAD DOOR MOTORS SHALL BE REVERSING TYPE.
- ALL "MM" DEVICES SHOWN INSTALLED IN DRYWALL SHALL BE INSTALLED IN A 4 GANG WALLBOX. PROVIDE 11"x7-3/ 4" DEEP WALL BOX, TILE RING (DEPTH AS REQUIRED). STUB-UP (1) 1-1/4" CONDUIT FROM WALL BOX UP TO DATA OUTLET MOUNTED ABOVE BOX AT 72" A.F.F. MOUNTING HEIGHT TO BOTTOM OF BOX SHALL BE AS COORDINATED WITH ARCHITECTURAL DRAWINGS. WALLBOX MODEL SHALL BE #EFS84 AS MANUFACTURED BY WIREMOLD LEGRANDE.

TELE/DATA DEVICES

WALL MOUNTED DEVICE NOTES:
- S = SURFACE MOUNTED WITH RACEWAY.
- MH = 18" A.F.F. AS MEASURED TO CENTER OF DEVICE BOX U.O.N. (COORDINATE WITH MILLWORK).

TELE/DATA DEVICE NOTES:
- CABLING AS LISTED. TERMINATED ON DEVICE AND INSTALLED BACK TO IT ROOM.
- ALL DATA DEVICES SHALL CONSIST OF 4" SQUARE BOX, TILE RING (DEPTH AS REQUIRED), 1-1/4" CONDUIT STUBBED UP INTO THE NEAREST EASILY ACCESSIBLE CEILING SPACE.
- UNLESS OTHERWISE NOTED, ALL ETHERNET CABLING SHALL BE CAT-6A.
- E.C. SHALL FURNISH AND INSTALL ALL PATHWAYS, BACK BOXES, CONDUIT, CABLE TRAY, AND PULLSTRINGS.
- LOW-VOLTAGE VENDOR SHALL FURNISH AND INSTALL ALL LOW-VOLTAGE CABLING, JACKS, PATCH PANELS, AND WALLPLATES.
- OWNER SHALL FURNISH SWITCHES AND PATCH CABLES TO E.C. FOR INSTALLATION.

SECURITY DEVICES

SECURITY DEVICE NOTES:
- CABLING AS LISTED, TERMINATED ON DEVICE AND INSTALLED BACK TO SECURITY HEAD END EQUIPMENT
- E.C. SHALL FURNISH AND INSTALL 1-1/4" CONDUIT STUBBED UP INTO EASILY ACCESSIBLE CEILING SPACE FROM JUNCTION BOX, TRANSFORMERS, TILE RINGS, JUNCTION BOXES, CONDUIT, AND LINE VOLTAGE WIRE.
- SECURITY VENDOR TO FURNISH AND INSTALL DEVICES, DEVICE PLATES, TERMINATIONS, PERFORM ALL PROGRAMMING, AND LOW VOLTAGE CABLING..

SECURITY CAMERA NOTES:
- CABLING AS LISTED, TERMINATED ON DEVICE AND INSTALLED BACK TO IT ROOM.
- E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED), AND 1" CONDUIT STUBBED UP TO EASILY ACCESSIBLE CEILING SPACE WHEN WALL MOUNTED.
- ALL HEAD-END EQUIPMENT, DEVICES, DEVICE PLATES, TERMINATIONS AND PROGRAMING TO BE FURNISHED AND INSTALLED BY SECURITY VENDOR.
- ALL MOUNTING SHALL BE COORDINATED WITH SECURITY VENDOR AND ARCHITECTURAL DRAWINGS.

FIRE ALARM DEVICES

FIRE ALARM DEVICE NOTES:
- E.C. SHALL PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS REQUIRED).
- E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUITS, RELAYS, AND FIRE ALARM PROGRAMMING FOR SMOKE DETECTOR INSTALLATION.
- LF = LOW FREQUENCY

LIGHTING DEVICES

LIGHTING CONTROL DEVICE NOTES:
- WALL-MOUNTED LIGHTING SWITCHES, MH = 48" A.F.F. AS MEASURED TO BOTTOM OF DEVICE BOX U.O.N.
- CABLING BETWEEN DIGITAL ROOM CONTROLLER AND DIGITAL WALL SWITCHES SHALL BE CAT-6A CABLE WITH RJ45 CONNECTORS.
- CABLING BETWEEN OCCUPANCY SENSOR/CONTROLLER AND ANALOG WALL SWITCHES SHALL BE LOW VOLTAGE CLASS 2 WIRING.
- E.C. TO INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ALL COLORS AS SELECTED BY ARCHITECT.
- E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING IN ACCESSIBLE SPACE.
- ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN EMERGENCY BYPASS CONTROLLER AS MANUFACTURED BY LEVITON MODEL #DRD0T-ED0.
- GREENMAX DIGITAL CONFIGURATION APP SHALL BE USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS.

RADIO SYSTEM NOTES

RADIO SYSTEM NOTES:
- E.C. SHALL FURNISH AND INSTALL ALL CONDUIT/CABLE TRAY/PATHWAYS FROM DEVICES TO THE IT ROOM, INCLUDING ALL EXTERIOR WALL-MOUNTED CABLE TRAY/CONDUIT PATHWAYS, CABLE ENTRY PORT PANELS, AND ALL SYSTEM GROUNDING.
- LOW-VOLTAGE VENDOR SHALL FURNISH AND INSTALL ALL ASSOCIATED LOW VOLTAGE WIRING.
- RADIO SYSTEM VENDOR SHALL FURNISH AND INSTALL ALL ASSOCIATED DEVICES AND ANTENNA WIRING AND CABLING.

COMMUNICATION DEVICES

WALL MOUNTED BUTTON NOTES:
- S = SURFACE MOUNTED WITH RACEWAY.
- MH = 48" A.F.F. AS MEASURED TO CENTER OF DEVICE BOX U.O.N. (COORDINATE WITH MILLWORK).

ALERTING SYSTEM DEVICE NOTES:
- E.C. SHALL FURNISH AND INSTALL J-BOXES AND 3/4" CONDUIT INSTALLED BACK TO IT ROOM WITH PULLSTRINGS.
- E.C. SHALL INSTALL ALL DEVICES, DEVICE PLATES, CONDUITS, PATHWAYS, PULLSTRINGS AND ALL UNLESS OTHERWISE NOTED.
- APS VENDOR SHALL FURNISH ALL DEVICES, INCLUDING MONITORS, AND COMPLETE ALL HEAD-END SYSTEM TIE-INS AND SYSTEM TESTING.
- LOW VOLTAGE VENDOR SHALL FURNISH AND INSTALL ALL ASSOCIATED LOW VOLTAGE WIRING.
- REFER TO ARCHITECTURAL DRAWINGS SET FOR SYSTEM SPECIFICATIONS.

GENERAL DEVICE NOTES

DEVICE KEY:
- XX" = MOUNTING HEIGHT A.F.F.
- S = SURFACE MOUNTED WITH WIREMOLD RACEWAY
- T = TAMPER PROOF
- WP = WEATHERPROOF
- ISO = GASKETED STAINLESS STEEL COVERPLATE

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER CIRCULATING PUMP	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
A	AMPERE	DEPT	DEPARTMENT	HTG	HEATING	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
AC	ABOVE COUNTER OR AIR CONDITIONER	DET	DETAIL	HTR	HEATER	NIC	NOT IN CONTRACT
ACLG	ABOVE CEILING	DIA	DIAMETER	HV	HIGH VOLTAGE	NL	NIGHT LIGHT
ADO	AUTOMATIC DOOR OPENER	DISC	DISCONNECT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NO	NORMALLY OPEN
AF	AMP FRAME	DIST	DISTRIBUTION			NPF	NORMAL POWER FACTOR
AFF	ABOVE FINISHED FLOOR	DN	DOWN	HWP	HYDRONIC WATER PUMP	NTS	NOT TO SCALE
AFG	ABOVE FINISHED GRADE	DPR	DAMPER	IC	INTERRUPTING CAPACITY	OH	OVERHEAD
AFI	ARC FAULT CIRCUIT INTERRUPTER	DS	SAFETY DISCONNECT SWITCH	IG	ISOLATED GROUND	OL	OVERLOADS
AHU	AIR HANDLING UNIT	DT	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT	OPR	PUBLIC ADDRESS
AL	ALUMINUM	DWG	DRAWING	INCAND	INCANDESCENT	PB	PULL BOX OR PUSHBUTTON
ALT	ALTERNATE	EC	ELECTRICAL CONTRACTOR	IR	INFRARED	PE	PNEUMATIC ELECTRIC
AMP	AMPERE	ELEC	ELECTRIC, ELECTRICAL	IW	INTERLOCK WITH	PED	PEDESTAL
AMPL	AMPLIFIER	ELEV	ELEVATOR	J-BOX	JUNCTION BOX	PF	POWER FACTOR
ANNUN	ANNUNCIATOR	EM	EMERGENCY	KV	KILOVOLT	PH	PHASE
APPROX	APPROXIMATELY	EMS	ENERGY MANAGEMENT SYSTEM	KVA	KILOVOLT-AMPERE	PIV	POST INDICATING VALVE
AQ-STAT	AQUASTAT	EMT	ELECTRICAL METALLIC TUBING	KVAR	KILOVOLT-AMPERE REACTIVE	PNL	PANEL
ARCH	ARCHITECT, ARCHITECTURAL	EP	ELECTRIC PNEUMATIC	KW	KILOWATT	PP	POWER POLE
AS	AMP SWITCH	E.C.P.	ELECTRICAL PRIME CONTRACTOR	KWH	KILOWATT HOUR	PR	PAIR
AT	AMP TRIP	EQUIP	EQUIPMENT	LOC	LOCATE OR LOCATION	PRI	PRIMARY
ATS	AUTOMATIC TRANSFER SWITCH	EWC	ELECTRIC WATER COOLER	LT	LIGHT	PROJ	PROJECTION
AUTO	AUTOMATIC	EXIST	EXISTING	LTG	LIGHTING	PRV	POWER ROOF VENTILATOR
AUX	AUXILIARY	EXH	EXHAUST	LTNG	LIGHTNING	PT	POTENTIAL TRANSFORMER
AV	AUDIO VISUAL	EXP	EXPLOSION PROOF	LV	LOW VOLTAGE	PVC	POLYVINYL CHLORIDE (CONDUIT)
AWG	AMERICAN WIRE GAUGE	FA	FIRE ALARM	MAX	MAXIMUM	PWR	POWER
BATT	BATTERY	FABP	FIRE ALARM BOOSTER POWER	MAGS	MAGNETIC STARTER	QUAN	QUANTITY
BD	BOARD		SUPPLY PANEL	MC	MOMENTARY CONTACT	RCPT	RECEPTACLE
BLDG	BUILDING	FACP	FIRE ALARM CONTROL PANEL	MC	MECHANICAL CONTRACTOR	REQD	REQUIRED
BMS	BUILDING MANAGEMENT SYSTEM	FCU	FAN COIL UNIT	MCB	MAIN CIRCUIT BREAKER	RM	ROOM
C	CONDUIT	FIXT	FIXTURE	MCC	MOTOR CONTROL CENTER	RSC	RIGID STEEL CONDUIT
CAB	CABINET	FLR	FLOOR	MDC	MAIN DISTRIBUTION CENTER	RTU	ROOF TOP UNIT
CAT	CATALOG	FLUOR	FLUORESCENT	MDP	MAIN DISTRIBUTION PANEL	SC	SURFACE CONDUIT
CATV	CABLE TELEVISION	FU	FUSE	MFR	MANUFACTURER	SEC	SECONDARY
CB	CIRCUIT BREAKER	FUDS	FUSED SAFETY DISCONNECT SWITCH	MFS	MANUFACTURER'S SPECIFICATIONS	SHT	SHEET
CCTV	CLOSED CIRCUIT TELEVISION	GA	GAUGE	MH	MANHOLE	SIM	SIMILAR
CKT	CIRCUIT	GAL	GALLON	MIC	MICROPHONE	SN	SOLID NEUTRAL
CLG	CEILING	GALV	GALVANIZED	MM	MULTIMEDIA	SPEC	SPECIFICATION
COMB	COMBINATION	GC	GENERAL CONTRACTOR	MISC	MISCELLANEOUS	SPKR	SPEAKER
COMPR	COMPRESSOR	GEN	GENERATOR	MLO	MAIN LUGS ONLY	SP	SPARE
CONN	CONNECTION	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MOA	MULTIOUTLET ASSEMBLY	SR	SURFACE RACEWAY
CONST	CONSTRUCTION	GFP	GROUND FAULT PROTECTOR	MSP	MOTOR STARTER PANELBOARD	SS	STAINLESS STEEL
CONT	CONTINUATION OR CONTINUOUS	GND	GROUND	MSBD	MAIN SWITCHBOARD	SSW	SELECTOR SWITCH
CONTR	CONTRACTOR	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MT	MOUNT	SS	STOP/START PUSHBUTTONS
CONV	CONVECTOR	GYP BD	GYP BD GYPSUM BOARD	MT.C	EMPTY CONDUIT	STA	STATION
CP	CIRCULATING PUMP	HOA	HANDS-OFF-AUTOMATIC SWITCH	MTS	MANUAL TRANSFER SWITCH	STD	STANDARD
CRT	CATHODE-RAY TUBE	HORIZ	HORIZONTAL	MTR	MOTOR, MOTORIZED	SURF	SURFACE MOUNTED
CT	CURRENT TRANSFORMER	HP	HORSEPOWER	N.C.	NORMALLY CLOSED	SW	SWITCH
CTR	CENTER	HPF	HIGH POWER FACTOR	NEC	NATIONAL ELECTRICAL CODE	SWBD	SWITCHBOARD
CU	COPPER					SYM	SYMMETRICAL
						SYS	SYSTEM
						TEL	TELEPHONE
						TERM	TERMINAL
						TL	TWIST LOCK
						TR	TAMPER RESISTANT
						T-STAT	THERMOSTAT
						TTC	TELEPHONE TERMINAL CABINET
						TV	TELEVISION
						TVTC	TELEVISION TERMINAL CABINET
						TYP	TYPICAL
						UC	UNDER COUNTER
						UE	UNDERGROUND ELECTRICAL
						UG	UNDERGROUND
						UH	UNIT HEATER
						UT	UNDERGROUND TELEPHONE
						UTIL	UTILITY
						UV	UNIT VENTILATOR OR ULTRAVIOLET
						V	VOLT
						VA	VOLT-AMPERES
						VDT	VIDEO DISPLAY TERMINAL
						VERT	VERTICAL
						VFD	VARIABLE FREQUENCY DRIVE
						VOL	VOLUME
						W	WATT
						W	WITH
						WG	WIRE GUARD
						WH	WATER HEATER
						W/O	WITHOUT
						WP	WEATHERPROOF
						XFMR	TRANSFORMER
						XFR	TRANSFER
						@	AT
						'	FEET
						"	INCHES
						#	NUMBER
						Ø	PHASE
						C	CENTER LINE
						P	PLATE

GENERAL ELECTRICAL NOTES

1. IF THERE IS A DISCREPANCY BETWEEN THE DRAWINGS, SCHEDULES, AND/OR SPECIFICATIONS, THE CONTRACTOR IS REQUIRED TO PROVIDE THE MORE STRINGENT OR HIGHER-COST OPTION UNLESS THEY SEEK CLARIFICATION VIA AN RFI BEFORE PROCEEDING.
2. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
3. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY, WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT.
4. HOOKS ABOVE ACCESSIBLE CEILINGS. ALL LOW-VOLTAGE CABLES TO BE RUN IN EXPOSED LOCATIONS SHALL BE BUNDLED NEATLY IN J-HOOKS AND INSTALLED PARALLEL AND STRAIGHT IN EXPOSED SPACE TO PROVIDE A CLEAN LOOK.
5. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND

KEYNOTES

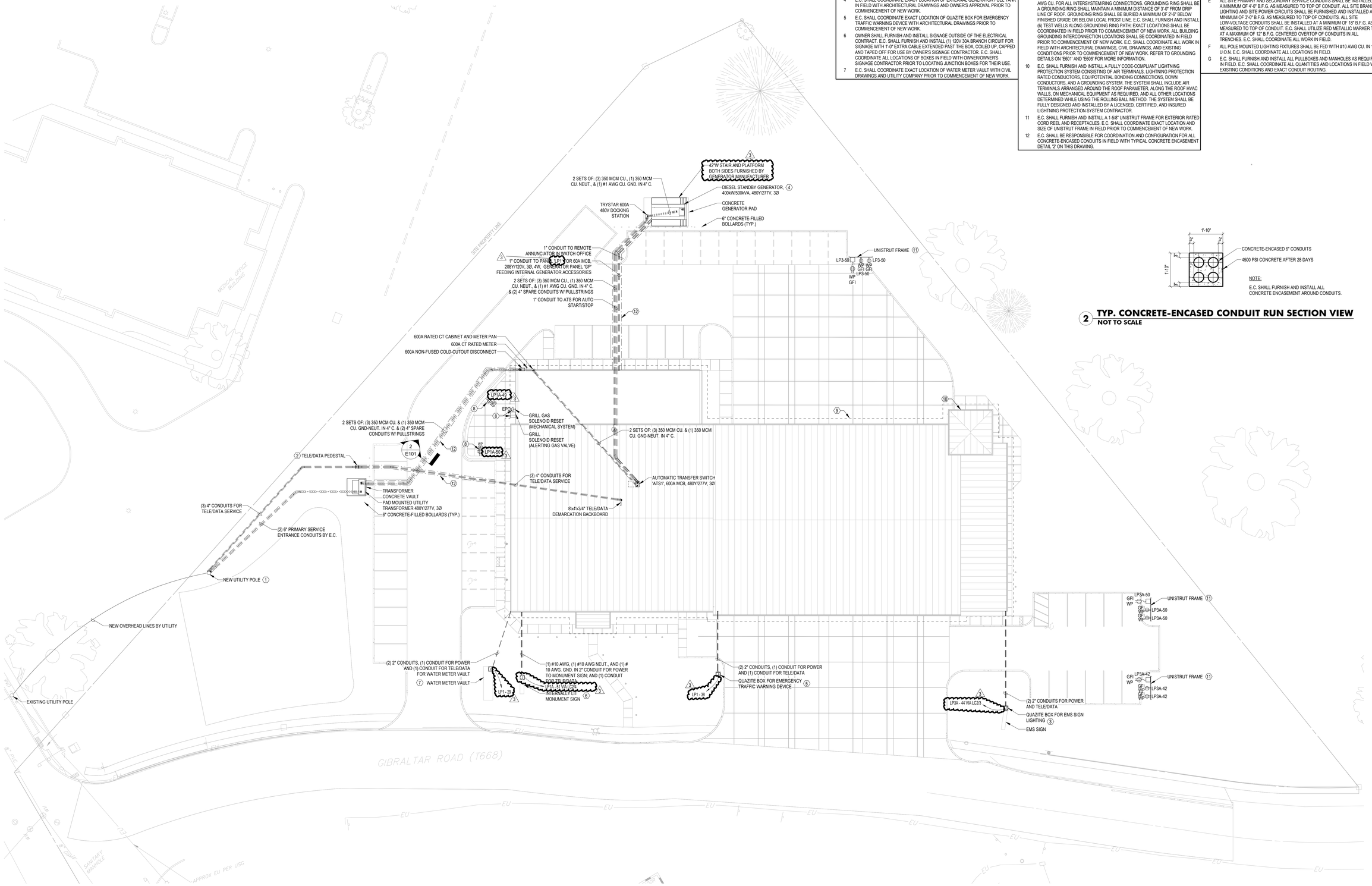
1. E.C. SHALL FURNISH AND INSTALL (1) UTILITY POLE AND ALL U-GUARD AS REQUIRED FOR CONDUIT RUNS. E.C. SHALL COORDINATE EXACT LOCATION OF UTILITY POLE IN FIELD WITH EXISTING CONDITIONS AND UTILITY PRIOR TO COMMENCEMENT OF NEW WORK.
2. E.C. SHALL COORDINATE EXACT LOCATION OF TELE/DATA PEDESTAL IN FIELD WITH EXISTING CONDITIONS AND UTILITY PRIOR TO COMMENCEMENT OF NEW WORK.
3. E.C. SHALL COORDINATE EXACT LOCATION OF QUAZITE BOX AND LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
4. E.C. SHALL COORDINATE EXACT LOCATION OF INTERNAL GENERATOR FUEL TANK IN FIELD WITH ARCHITECTURAL DRAWINGS AND OWNER'S APPROVAL PRIOR TO COMMENCEMENT OF NEW WORK.
5. E.C. SHALL COORDINATE EXACT LOCATION OF QUAZITE BOX FOR EMERGENCY TRAFFIC WARNING DEVICE WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
6. OWNER SHALL FURNISH AND INSTALL SIGNAGE OUTSIDE OF THE ELECTRICAL CONTRACT. E.C. SHALL FURNISH AND INSTALL (1) 120V 30A BRANCH CIRCUIT FOR SIGNAGE WITH 1'-0" EXTRA CABLE EXTENDED PAST THE BOX, COILED UP, CAPPED AND TAPED OFF FOR USE BY OWNER'S SIGNAGE CONTRACTOR. E.C. SHALL COORDINATE ALL LOCATIONS OF BOXES IN FIELD WITH OWNER/OWNER'S SIGNAGE CONTRACTOR PRIOR TO LOCATING JUNCTION BOXES FOR THEIR USE.
7. E.C. SHALL COORDINATE EXACT LOCATION OF WATER METER VAULT WITH CIVIL DRAWINGS AND UTILITY COMPANY PRIOR TO COMMENCEMENT OF NEW WORK.

KEYNOTES

8. E.C. SHALL FURNISH AND INSTALL (1) OUTDOOR-RATED QUAD RECEPTACLE WITH WEATHERPROOF COVER PER GRILL FOR SHUTOFF. E.C. SHALL RUN UG CONDUIT WITH WIRING TO BOTH LOCATIONS OF GRILLS FROM ON/OFF SWITCH. E.C. SHALL COORDINATE ALL LOCATIONS IN FIELD WITH MECHANICAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORIES REQUIRED TO MAKE EXTERIOR GRILL SHUTOFF SYSTEM 100% OPERATIONAL AND TO THE SATISFACTION OF THE OWNER.
9. E.C. SHALL FURNISH AND INSTALL BUILDING GROUNDING RING IN COMPLIANCE WITH R56 GROUNDING STANDARDS. GROUNDING RING SHALL BE A MINIMUM OF #2 AWG CU. FOR ALL INTERSYSTEM/RING CONNECTIONS. GROUNDING RING SHALL BE A GROUNDING RING SHALL MAINTAIN A MINIMUM DISTANCE OF 3'-0" FROM DRIP LINE OF ROOF. GROUNDING RING SHALL BE BURIED A MINIMUM OF 2'-6" BELOW FINISHED GRADE OR BELOW LOCAL FROST LINE. E.C. SHALL FURNISH AND INSTALL (6) TEST WELLS ALONG GROUNDING RING PATH; EXACT LOCATIONS SHALL BE COORDINATED IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK. ALL BUILDING GROUNDING INTERCONNECTION LOCATIONS SHALL BE COORDINATED IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF NEW WORK. REFER TO GROUNDING DETAILS ON 'E601' AND 'E605' FOR MORE INFORMATION.
10. E.C. SHALL FURNISH AND INSTALL A FULLY CODE-COMPLIANT LIGHTNING PROTECTION SYSTEM CONSISTING OF AIR TERMINALS, LIGHTNING PROTECTION RATED CONDUCTORS, EQUIPOTENTIAL BONDING CONNECTIONS, DOWN CONDUCTORS, AND A GROUNDING SYSTEM. THE SYSTEM SHALL INCLUDE AIR TERMINALS ARRANGED AROUND THE ROOF PARAMETER, ALONG THE ROOF HVAC WALLS, ON MECHANICAL EQUIPMENT AS REQUIRED, AND ALL OTHER LOCATIONS DETERMINED WHILE USING THE ROLLING BALL METHOD. THE SYSTEM SHALL BE FULLY DESIGNED AND INSTALLED BY A LICENSED, CERTIFIED, AND INSURED LIGHTNING PROTECTION SYSTEM CONTRACTOR.
11. E.C. SHALL FURNISH AND INSTALL A 1-5/8" UNISTRUT FRAME FOR EXTERIOR RATED CORD REEL AND RECEPTACLES. E.C. SHALL COORDINATE EXACT LOCATION AND SIZE OF UNISTRUT FRAME IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK.
12. E.C. SHALL BE RESPONSIBLE FOR COORDINATION AND CONFIGURATION FOR ALL CONCRETE-ENCASED CONDUITS IN FIELD WITH TYPICAL CONCRETE ENCASEMENT DETAIL '2' ON THIS DRAWING.

GENERAL SITE NOTES

- A. ALL ITEMS SHOWN DARK AND SOLID ARE NEW WORK. ALL ITEMS SHOWN LIGHT AND SOLID ARE EXISTING TO REMAIN.
- B. ALL ELECTRIC SERVICE WORK SHALL BE COORDINATED IN FIELD WITH ELECTRIC UTILITY COMPANY.
- C. ALL TRENCHING SHOWN ON PLANS IS DIAGRAMMATICAL. E.C. SHALL COORDINATE ALL TRENCHING IN FIELD.
- D. E.C. SHALL UTILIZE THE SERVIES OF SOFT-DIG OR EQUIVALENT TO SCAN UNDERGROUND FOR EXISTING UTILITIES BEFORE TRENCHING COMMENCES.
- E. ALL SITE PRIMARY AND SECONDARY SERVICE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 4'-0" B.F.G. AS MEASURED TO TOP OF CONDUIT. ALL SITE BRANCH LIGHTING AND SITE POWER CIRCUITS SHALL BE FURNISHED AND INSTALLED AT A MINIMUM OF 3'-0" B.F.G. AS MEASURED TO TOP OF CONDUITS. ALL SITE LOW-VOLTAGE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 18" B.F.G. AS MEASURED TO TOP OF CONDUIT. E.C. SHALL UTILIZE RED METALLIC MARKER TAPE AT A MAXIMUM OF 12" B.F.G. CENTERED OVERTOP OF CONDUITS IN ALL TRENCHES. E.C. SHALL COORDINATE ALL WORK IN FIELD.
- F. ALL POLE MOUNTED LIGHTING FIXTURES SHALL BE FED WITH #10 AWG CU. IN 1" C. U.O.N. E.C. SHALL COORDINATE ALL LOCATIONS IN FIELD.
- G. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING.



1 ELECTRICAL SITE POWER PLAN
1" = 20'-0"

NOTE:
E.C. SHALL FURNISH AND INSTALL ALL CONCRETE ENCASEMENT AROUND CONDUITS.

2 TYP. CONCRETE-ENCASED CONDUIT RUN SECTION VIEW
NOT TO SCALE

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
2	10/22/26
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

ELECTRICAL SITE POWER PLAN

SHEET NUMBER:

E101

10/29/2026 10:06:22 AM

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KEYNOTES

1. E.C. SHALL FURNISH AND INSTALL (1) JUNCTION BOX TO EACH BUILDING MOUNTED EXTERIOR INTERNALLY LIT SIGNAGE FED FROM DEDICATED CIRCUIT. E.C. SHALL FURNISH AND INSTALL (1) 1" CONDUIT RUN TO EACH SIGN FOR LOW VOLTAGE CONTROL. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT SIGNAGE LOCATION AND MOUNTING HEIGHT IN FIELD WITH SIGN VENDOR AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
2. E.C. SHALL FURNISH AND INSTALL RGBW COLOR-CHANGING TAPE LIGHTING ALONG SOFFIT SURROUNDING THE BUILDING. E.C. SHALL ENSURE ALL WIRING FOR LIGHTING IN SOFFITS ARE CONCEALED AND COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT RUN LENGTHS IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK.
3. E.C. SHALL COORDINATE EXACT LOCATION OF WEATHERPROOF EXTERIOR SWITCH FOR PATIO LIGHTING WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.
4. E.C. SHALL FURNISH AND INSTALL RGBW COLOR-CHANGING UP/DOWN SCONCE LIGHTS. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT RUN LENGTHS IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK.

GENERAL SITE NOTES

A. ALL ITEMS SHOWN DARK AND SOLID ARE NEW WORK. ALL ITEMS SHOWN LIGHT AND SOLID ARE EXISTING TO REMAIN.

B. ALL ELECTRIC SERVICE WORK SHALL BE COORDINATED IN FIELD WITH ELECTRIC UTILITY COMPANY.

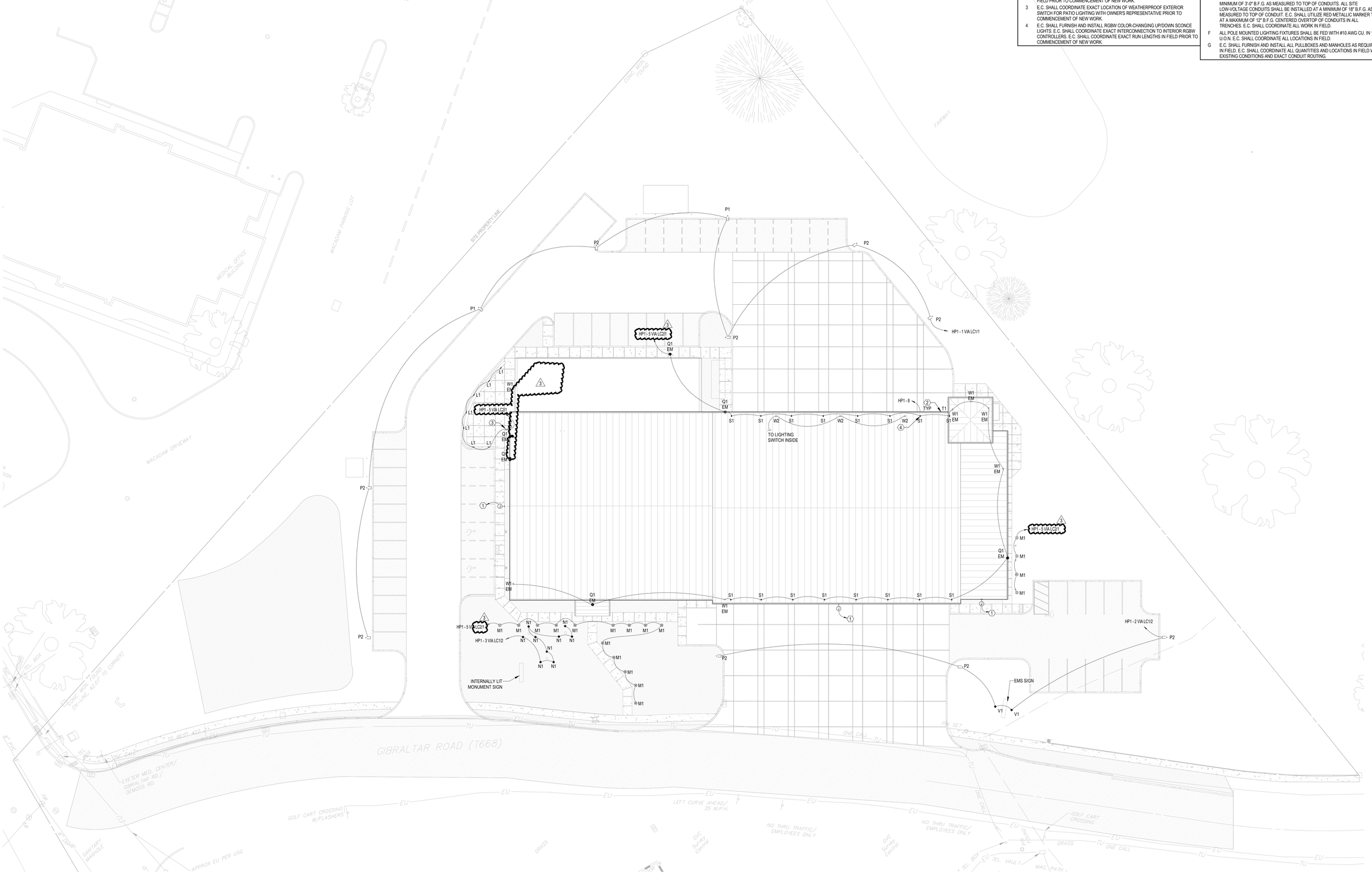
C. ALL TRENCHING SHOWN ON PLANS IS DIAGRAMMATICAL. E.C. SHALL COORDINATE ALL TRENCHING IN FIELD.

D. E.C. SHALL UTILIZE THE SERVIES OF SOFT-DIG OR EQUIVALENT TO SCAN UNDERGROUND FOR EXISTING UTILITIES BEFORE TRENCHING COMMENCES.

E. ALL SITE PRIMARY AND SECONDARY SERVICE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 4'-0" B.F.G. AS MEASURED TO TOP OF CONDUIT. ALL SITE BRANCH LIGHTING AND SITE POWER CIRCUITS SHALL BE FURNISHED AND INSTALLED AT A MINIMUM OF 3'-0" B.F.G. AS MEASURED TO TOP OF CONDUITS. ALL SITE LOW-VOLTAGE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 18" B.F.G. AS MEASURED TO TOP OF CONDUIT. E.C. SHALL UTILIZE RED METALLIC MARKER TAPE AT A MAXIMUM OF 12" B.F.G. CENTERED OVERTOP OF CONDUITS IN ALL TRENCHES. E.C. SHALL COORDINATE ALL WORK IN FIELD.

F. ALL POLE MOUNTED LIGHTING FIXTURES SHALL BE FED WITH #10 AWG CU. IN 1" C. U.O.N. E.C. SHALL COORDINATE ALL LOCATIONS IN FIELD.

G. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING.



1 ELECTRICAL SITE LIGHTING PLAN

1" = 20'-0"

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

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2	10/22/26
3	10/29/26

LAST PROJECT REVISION: No 3 | 10/29/26

ELECTRICAL SITE LIGHTING PLAN

SHEET NUMBER:

E102

10/29/2026 10:06:37 AM

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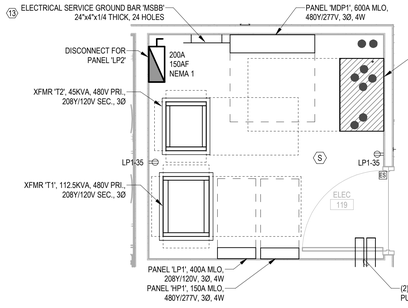
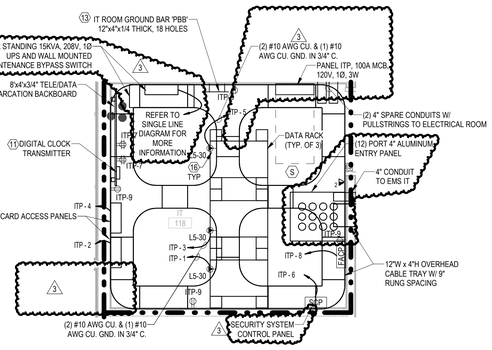


2 FIRST FLOOR ENLARGED ELECTRIC ROOM
3/8" = 1'-0"



3 FIRST FLOOR ENLARGED I.T. ROOM
3/8" = 1'-0"

KEYNOTES

1 E.C. SHALL COORDINATE ALL DEVICES, WIRE SIZES, AND CONNECTIONS WITH OVERHEAD DOOR VENDOR PRIOR TO COMMENCEMENT OF NEW WORK.

2 E.C. SHALL FURNISH AND INSTALL ELECTRIC CORD REEL SECURELY TO BUILDING STRUCTURE. E.C. SHALL FURNISH AND CONFIGURE BALLSTOP FOR PROPER USAGE AND LET DOWN OF ELECTRICAL CORD FROM REEL. E.C. SHALL COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.

3 E.C. SHALL INSTALL OWNER PROVIDED WIRELESS ACCESS POINT SECURELY TO BUILDING STRUCTURE. E.C. SHALL COORDINATE EXACT LOCATIONS IN FIELD WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.

4 E.C. SHALL PROVIDE (1) 120V 20A CIRCUIT FOR COINO2 CONTROLS SYSTEM. E.C. SHALL COORDINATE INTERCONNECTION REQUIREMENTS WITH OVERHEAD DOOR MASTER CONTROL BOX AND ALL SUBSEQUENT DOOR CONTROLLERS FOR AUTOMATIC OPENING AND CLOSING VIA THE COINO2 SYSTEM. E.C. SHALL COORDINATE EXACT REQUIREMENTS IN FIELD WITH COINO2 SYSTEM VENDOR AND MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.

5 E.C. SHALL COORDINATE EXACT LOCATION AND HEIGHT OF EXTERIOR WEATHERPROOF MULTIMEDIA BOX IN FIELD WITH ARCHITECTURAL DRAWINGS AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.

6 E.C. SHALL PROVIDE CIRCUIT FOR AIRVAC CONTROLS SYSTEM. E.C. SHALL COORDINATE EXACT LOCATION OF JUNCTION BOX IN FIELD WITH AIRVAC SYSTEM VENDOR AND MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.

7 E.C. SHALL TIE ELECTROMAGNETIC DOOR HOLDERS AND SMOKE DETECTORS FOR INTERIOR SMOKE RATED DOORS TO FIRE ALARM SYSTEM.

8 E.C. SHALL COORDINATE EXACT LOCATION AND HEIGHTS OF RECEPTACLE AND DATA FOR APPARATUS BAY TELEVISION WITH OWNER'S VENDOR AND
3 ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK. MONITORS AND MOUNTS SHALL BE FURNISHED AND INSTALLED BY OWNER'S VENDOR.

9 E.C. SHALL INSTALL OWNER-FURNISHED DEARBORN TOWER BAR ABOVE LOCKERS IN TURNOUT GEAR ROOM. E.C. SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND EXACT POWER BAR RUN LENGTHS WITH ARCHITECTURAL DRAWINGS, GEARGRID VENDOR, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.

KEYNOTES

10 E.C. SHALL COORDINATE ALL CABLING PATHWAYS FOR MULTIMEDIA SURROUND SOUND IN DAYROOM WITH ARCHITECTURAL DRAWINGS AND AV VENDOR PRIOR TO COMMENCEMENT OF NEW WORK.

11 E.C. SHALL FURNISH AND INSTALL PYRAMID SBDWXSLAUB DIGITAL CLOCK TRANSMITTER. WIRE TO IT ROOM NETWORK PATCH PANEL. COORDINATE CONNECTION PORT WITH IT AND OWNER PRIOR TO INSTALLATION.

12 E.C. SHALL COORDINATE EXACT LOCATIONS OF FLOORBOXES IN FIELD WITH OWNER'S REPRESENTATIVE AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.

13 E.C. SHALL FURNISH AND INSTALL GROUND BAR. REFER TO GROUND BAR DETAIL ON SHEET 'E601' FOR MORE INFORMATION.

14 E.C. SHALL FURNISH AND INSTALL RGBW CONTROLLER IN WATCH OFFICE FOR CONTROL OF COLOR CHANGING FIXTURES IN THE BUILDING. E.C. SHALL FURNISH AND INSTALL POE 16 PORT SWITCH FOR LOW-VOLTAGE CAT-6 WIRING FROM CONTROLLER TO SWITCH AND FROM CONTROLLER TO FIXTURES. E.C. SHALL FURNISH AND INSTALL POWER SUPPLY TO FIXTURES AS REQUIRED FROM DATA ENABLER PRO DEVICE IN WATCH OFFICE. E.C. SHALL COORDINATE ALL WORK WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND TYPICAL CONNECTION DIAGRAM SHOWN ON SHEET 'E604' AS TO MAKE RGBW COLOR CHANGING BUILDING SYSTEM 100% OPERATIONAL AND TO OWNER'S SATISFACTION.

15 E.C. SHALL FURNISH AND INSTALL DATA RACK FOR EMS PORTION OF BUILDING. E.C. SHALL COORDINATE ALL ROUTING AND CABLING FROM MAIN I.T. ROOM TO EMS RECORDS ROOM FOR INTERCONNECTION TO MAIN SERVER SYSTEM.

16 E.C. SHALL FURNISH AND INSTALL LOCKING RECEPTACLE ON CABLE TRAY ABOVE RACK. E.C. SHALL COORDINATE ALL WORK IN FIELD.

17 E.C. SHALL FURNISH AND INSTALL SLAVE GROUND BUS BAR IN THIS LOCATION FOR GROUNDING OF ANTENNA SYSTEM. E.C. SHALL BOND SBB TO GROUND BAR PBB IN I.T. ROOM. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH RADIO SYSTEM VENDOR AND G.C. PRIOR TO COMMENCING WORK.

18 E.C. SHALL FURNISH AND INSTALL (1) JUNCTION BOX ABOVE FINISHED CEILING TO FEED NEW TRAP PRIMER. E.C. SHALL COORDINATE FINAL LOCATION AND CONNECTION IN FIELD WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.

GENERAL POWER NOTES

A E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.

B E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.

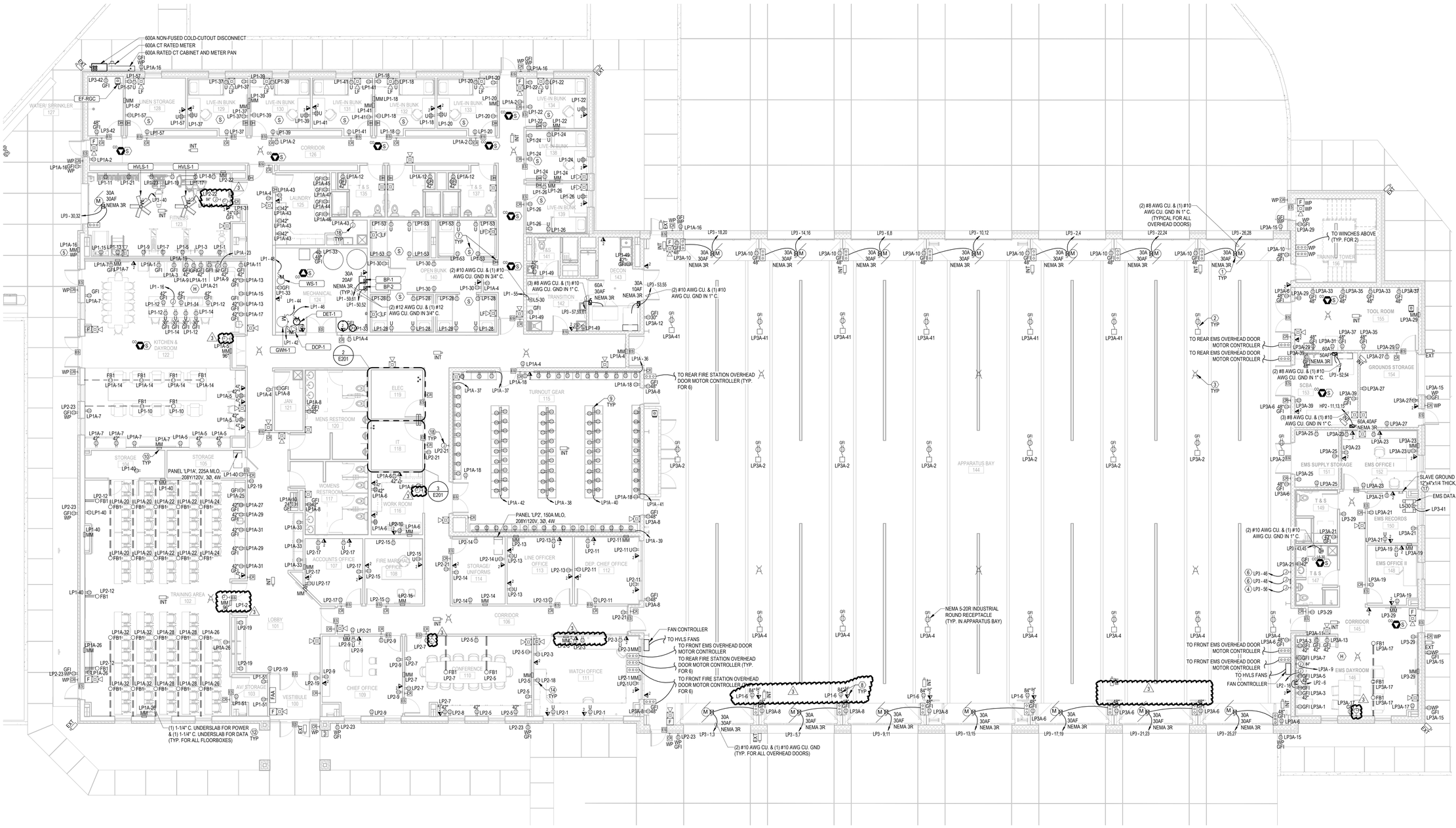
C ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.

D E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.

E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

G ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.



1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

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ORIGINAL ISSUE DATE:
10/01/2026

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FIRST FLOOR POWER PLAN

SHEET NUMBER:
E201

10/29/2026 10:07:07 AM

GENERAL POWER NOTES

A. E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.

B. E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.

C. ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.

D. E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.

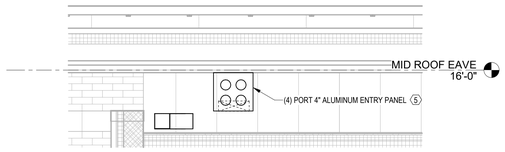
E. PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F. E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

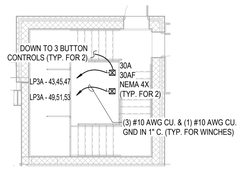
G. ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.

KEYNOTES

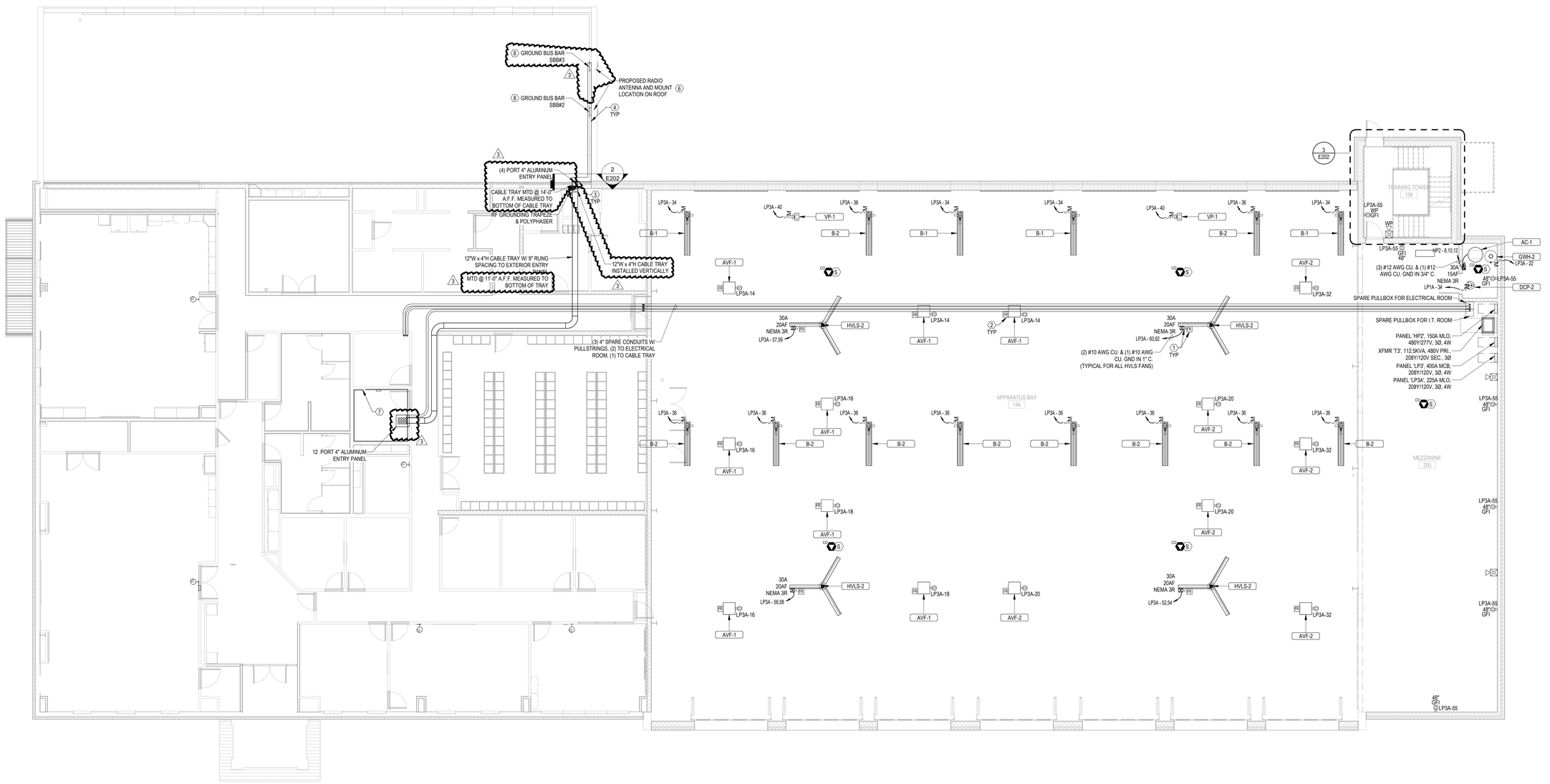
1. E.C. SHALL FURNISH AND INSTALL BRANCH CIRCUIT FROM CEILING FAN TO FAN CONTROLLER. E.C. SHALL FURNISH AND INSTALL FIRE ALARM CONTROL MODULE FOR INTERCONNECTION TO FIRE ALARM SYSTEM FOR AUTOMATIC SHUTDOWN OF CEILING FANS IN A BUILDING SYSTEM FIRE ALARM ACTIVATION EVENT. E.C. SHALL COORDINATE ALL FIRE ALARM WORK IN FIELD WITH FIRE ALARM CONTRACTOR. E.C. SHALL COORDINATE ALL LOCATIONS OF DISCONNECTS AND CONTROLS TO BE IN AN EASILY ACCESSIBLE AREA ON THE FIRST FLOOR AS COORDINATED IN FIELD WITH OWNER/ ARCHITECT.
2. E.C. SHALL WIRE CEILING FANS FROM FAN CONTROLLER. E.C. SHALL CONNECT CEILING FAN WIRING TO A 208V, 2P, 20A RATED FIRE ALARM CONTROL MODULE FOR AUTOMATIC SHUTDOWN OF CEILING FANS IN A BUILDING SYSTEM FIRE ALARM ACTIVATION EVENT. E.C. SHALL COORDINATE ALL FIRE ALARM WORK IN FIELD WITH FIRE ALARM CONTRACTOR.
3. E.C. SHALL FURNISH AND INSTALL ALUMINUM ENTRY PANEL FOR INTERCONNECTION OF RADIO ANTENNA INTERIOR CABLE TRAY RUNS TO EXTERIOR PENETRATION BELOW EAVE ON PEMB BUILDING FACE. E.C. SHALL COORDINATE EXACT LOCATION OF ALUMINUM ENTRY PANEL PENETRATION WITH RADIO ANTENNA VENDOR, ARCHITECTURAL DRAWINGS, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.
4. E.C. SHALL COORDINATE EXACT ROUTING AND SIZE OF EXTERIOR WALL MOUNTED CABLE MANAGEMENT SYSTEM FOR EXTERIOR RATED RADIO CABLING BY RADIO SYSTEM VENDOR. E.C. SHALL COORDINATE EXACT LOCATION OF RADIO ANTENNAS. E.C. SHALL COORDINATE ALL RADIO ANTENNA SYSTEM EQUIPMENT, ATTACHMENT REQUIREMENTS, AND EXACT FINAL LOCATIONS WITH RADIO SYSTEM VENDOR, ARCHITECTURAL DRAWINGS, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.
5. E.C. SHALL FURNISH (4) ROXTEC CABLE ENTRY PORT SEALS FOR (4) PORT INTERIOR-EXTERIOR ALUMINUM ENTRY PANEL. E.C. SHALL INSTALL AND SEAL ALL UNUSED PORTS AS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL GROUND ENTRY PANEL TO TRAPEZE LOCATED ON INTERIOR OF BUILDING.
6. E.C. SHALL PERFORM RADIO AMPLIFICATION TESTING AS REQUIRED BY IFC CHAPTER 5. E.C. SHALL COORDINATE ALL TESTING REQUIREMENTS AS REQUIRED BY CODE AND RADIO SYSTEM VENDOR. E.C. SHALL PROVIDE GROUNDING TO ANTENNA MOUNTING LOCATION FURNISHED AND INSTALLED BY G.C.
7. E.C. SHALL FURNISH AND INSTALL HALO RING AT 8' A.F.F. ON WALL AROUND PERIMETER OF ROOM. E.C. SHALL BOND ONE END OF LOOP TO BUS BAR "PBB" AND PROVIDE A BREAK ON THE OTHER END. E.C. SHALL FOLLOW ALL R-56 GROUNDING STANDARDS (NFPA).
8. E.C. SHALL FURNISH AND INSTALL SLAVE GROUND BUS BAR IN THIS LOCATION FOR GROUNDING OF ANTENNA SYSTEM. E.C. SHALL BOND SBB TO GROUND BAR PBB IN I.T. ROOM. E.C. SHALL FURNISH AND INSTALL GROUNDING CONDUCTOR FROM SBB#2 OVER PARAPET WALL AND DOWN TO A DRIVEN GROUND ROD AT BOTTOM OF BUILDING. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH RADIO SYSTEM VENDOR AND G.C. PRIOR TO COMMENCING WORK.



2 RADIO ANTENNA ENTRY PANEL
1/2" = 1'-0"



3 TRAINING TOWER - THIRD FLOOR
1/8" = 1'-0"



1 MEZZANINE POWER PLAN
1/8" = 1'-0"

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EXETER TOWNSHIP
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MEZZANINE POWER PLAN

SHEET NUMBER:

E202

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GENERAL POWER NOTES

A E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.

B E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.

C ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.

D E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.

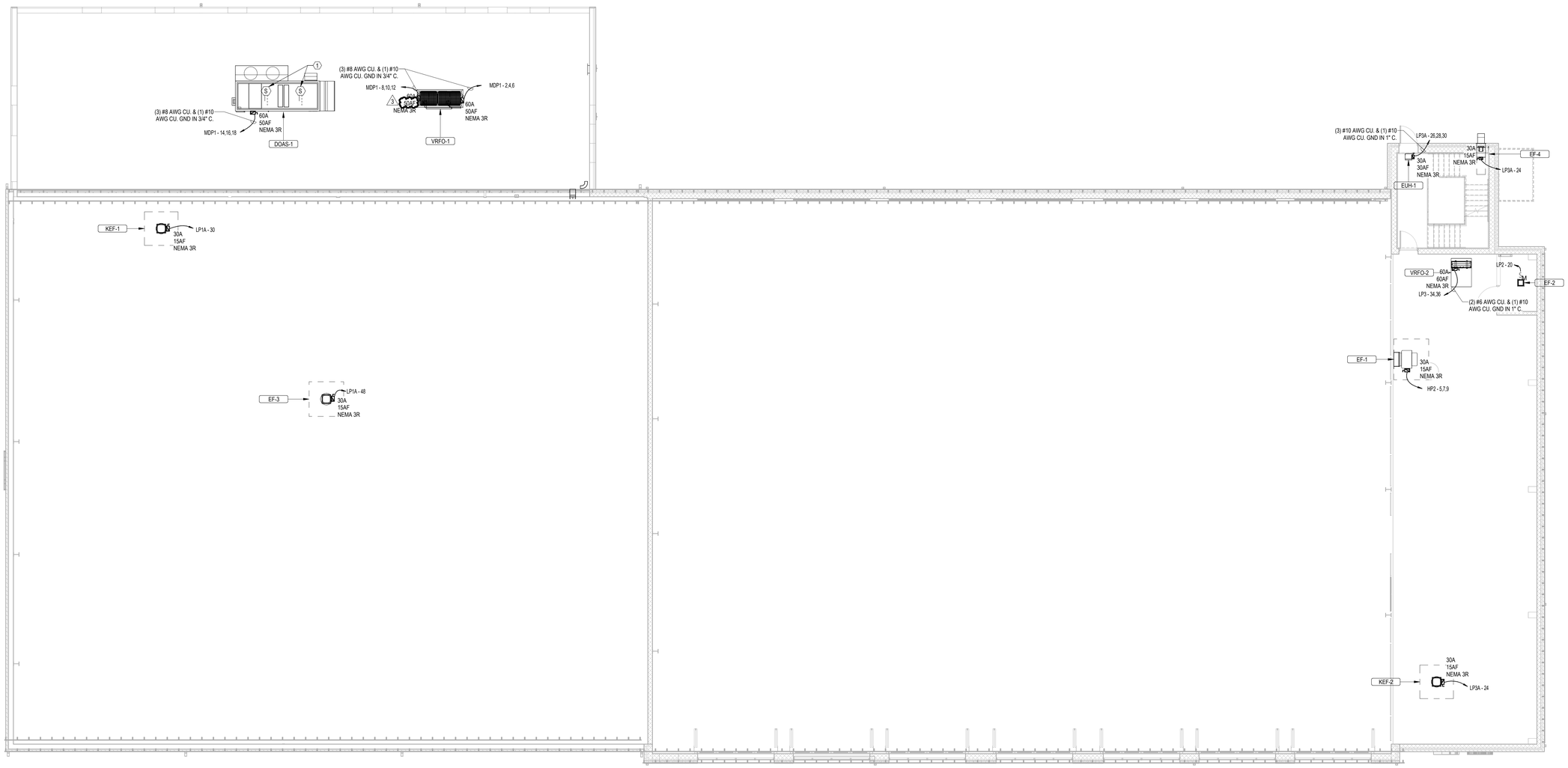
E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

G ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.

KEYNOTES

1 E.C. SHALL FURNISH DUCT SMOKE DETECTOR TO MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK. E.C. SHALL OBTAIN DUCT SMOKE DETECTOR FROM FIRE ALARM CONTRACTOR CONTRACTED TO PROVIDE THE BUILDING'S FIRE ALARM SYSTEM. E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUITS, RELAYS AND FIRE ALARM PROGRAMMING FOR DUCT SMOKE DETECTOR INSTALLATION. E.C. SHALL FURNISH AND INSTALL DUCT SMOKE TEST SWITCH IN LOCATION DETERMINED BY OWNER.



1 MEZZANINE AND ROOF EQUIPMENT POWER PLAN

1/8" = 1'-0"

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MEZZANINE AND ROOF EQUIPMENT POWER PLAN

SHEET NUMBER:

E204

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