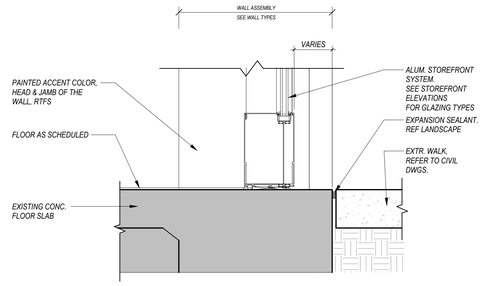
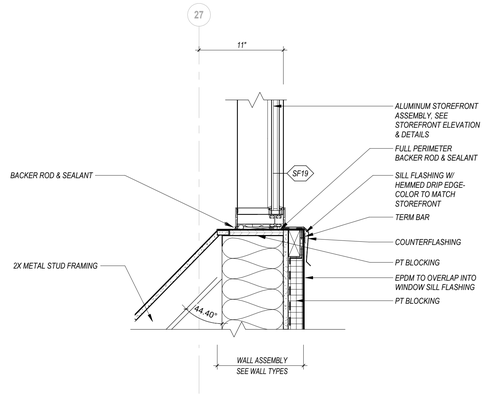
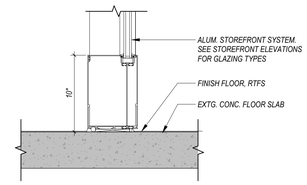


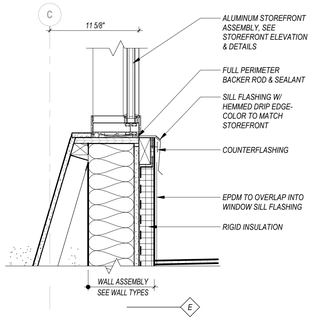
4 A8.3 **SF SILL DETAIL S4**
1 1/2" = 1'-0"



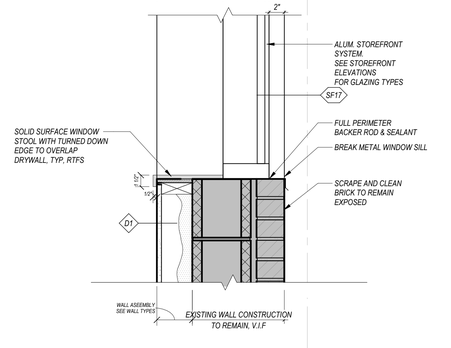
7 A8.3 **SILL DETAIL- SFS4G**
1 1/2" = 1'-0"



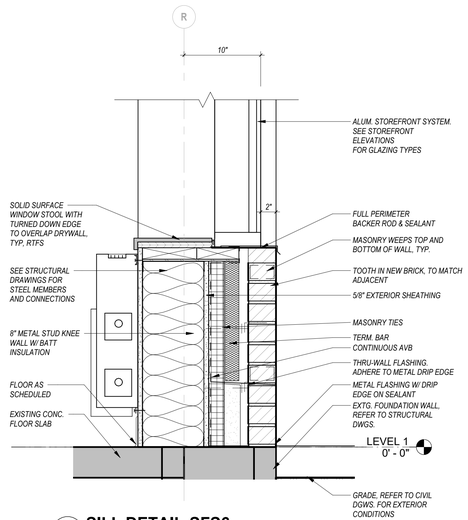
3 A8.3 **SILL DETAIL SFS3**
1 1/2" = 1'-0"



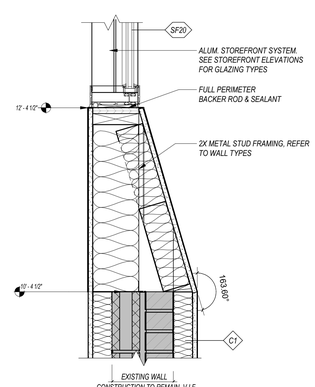
6 A8.3 **SILL DETAIL- SFS3-G**
1 1/2" = 1'-0"



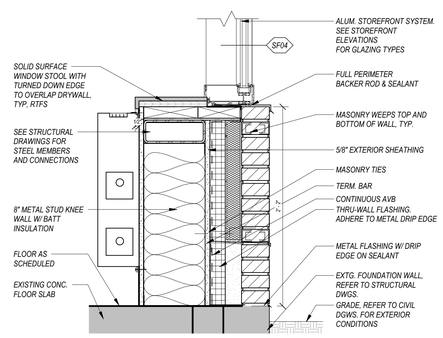
2 A8.3 **SILL DETAIL- SFS2**
1 1/2" = 1'-0"



8 A8.3 **SILL DETAIL-SFS6**
1 1/2" = 1'-0"



5 A8.3 **SILL DETAIL- SFS5**
1 1/2" = 1'-0"



1 A8.3 **SILL DETAIL- SFS1**
1 1/2" = 1'-0"

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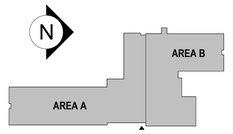
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

STOREFRONT DETAILS

A8.3

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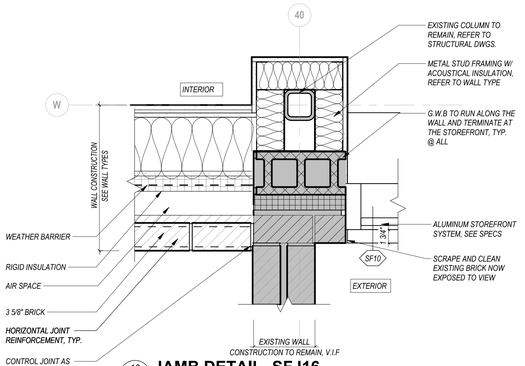

16 A8.4 **JAMB DETAIL- SFJ16**
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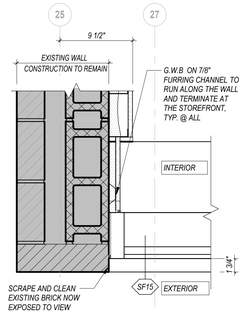
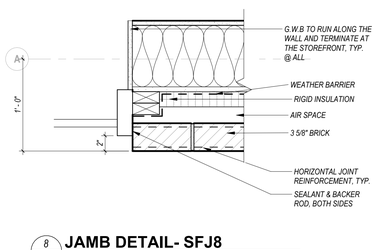
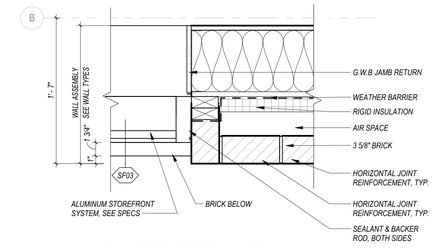


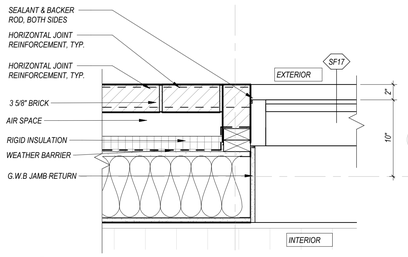
12 A8.4 **JAMB DETAIL- SFJ12**
1 1/2" = 1'-0"



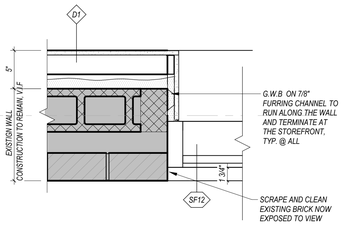
8 A8.4 **JAMB DETAIL- SFJ8**
1 1/2" = 1'-0"



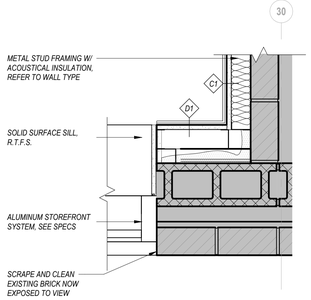
4 A8.4 **JAMB DETAIL- SFJ4**
1 1/2" = 1'-0"



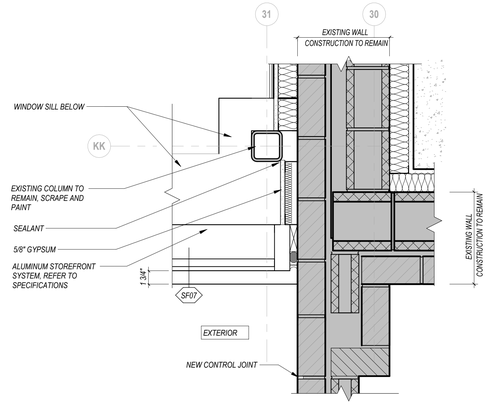
19 A8.4 **JAMB DETAIL-SF19**
1 1/2" = 1'-0"



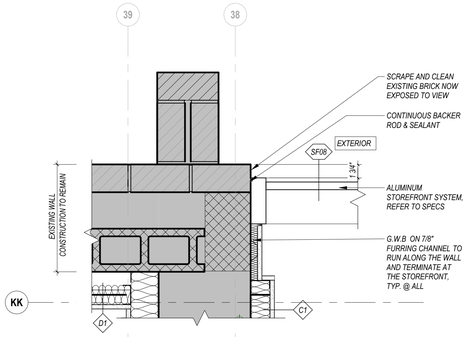
15 A8.4 **JAMB DETAIL- SFJ15**
1 1/2" = 1'-0"



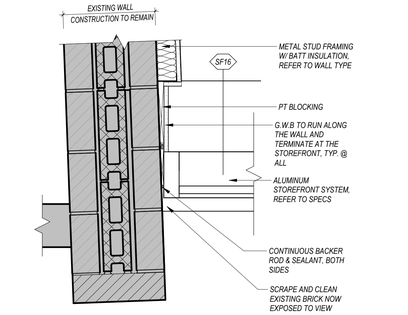
11 A8.4 **JAMB DETAIL- SFJ11**
1 1/2" = 1'-0"



7 A8.4 **JAMB DETAIL- SFJ7**
1 1/2" = 1'-0"

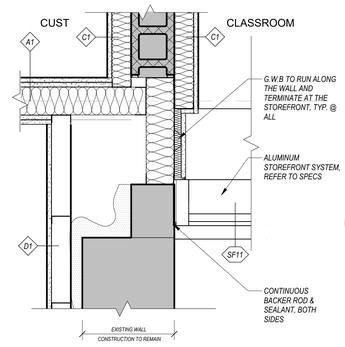


3 A8.4 **JAMB DETAIL-SFJ3**
1 1/2" = 1'-0"

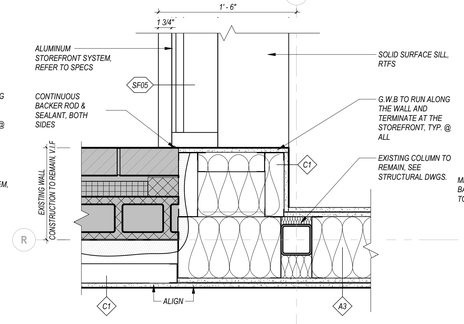


18 A8.4 **JAMB DETAIL- SFJ18**
1 1/2" = 1'-0"

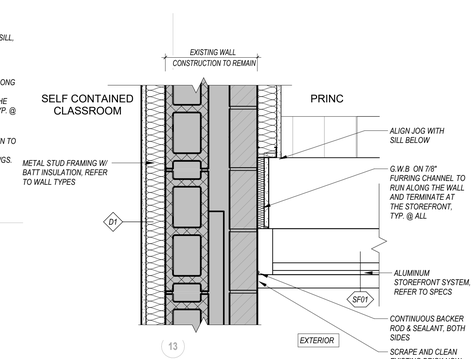
14 A8.4 **JAMB DETAIL- SFJ14**
1 1/2" = 1'-0"



10 A8.4 **JAMB DETAIL- SFJ10**
1 1/2" = 1'-0"

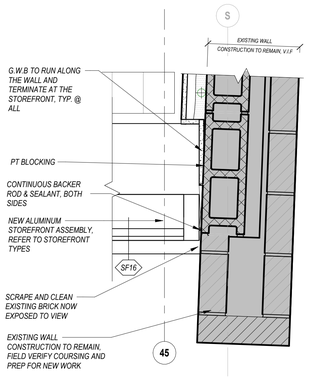


6 A8.4 **JAMB DETAIL- SFJ6**
1 1/2" = 1'-0"

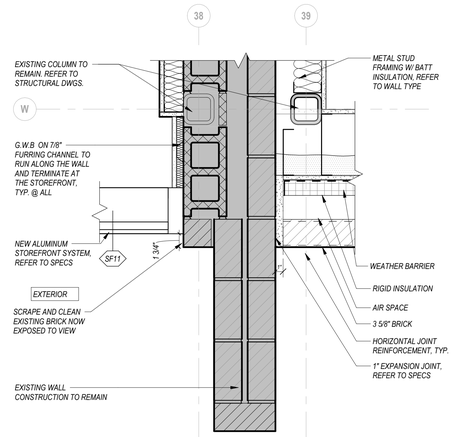


2 A8.4 **JAMB DETAIL- SFJ2**
1 1/2" = 1'-0"

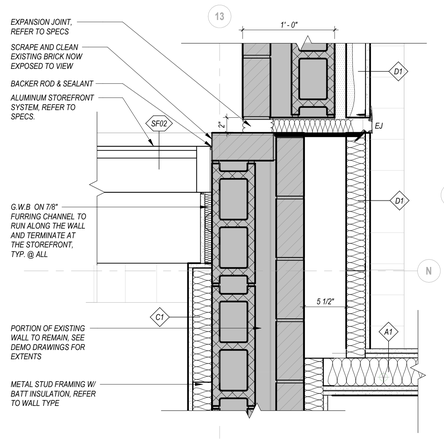
17 A8.4 **JAMB DETAIL- SFJ17**
1 1/2" = 1'-0"



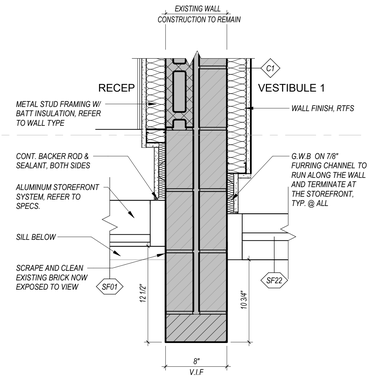
13 A8.4 **JAMB DETAIL 3-SFJ13-**
1 1/2" = 1'-0"



9 A8.4 **JAMB DETAIL- SFJ9**
1 1/2" = 1'-0"



5 A8.4 **JAMB DETAIL- SFJ5**
1 1/2" = 1'-0"



1 A8.4 **JAMB DETAIL- SFJ1**
1 1/2" = 1'-0"

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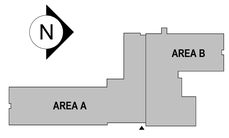
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

STOREFRONT DETAILS

A8.4

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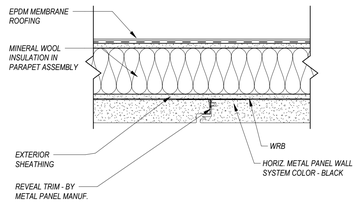
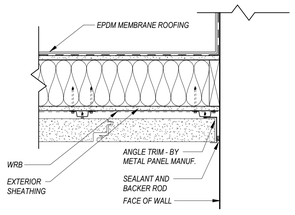
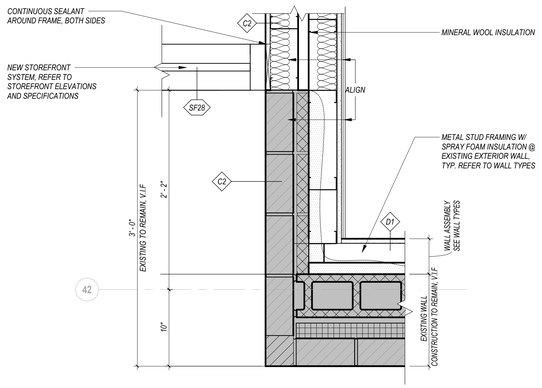


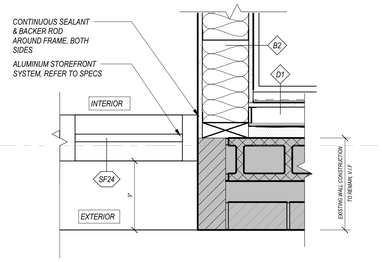
14 A8.5 **VERTICAL REVEAL DETAIL @ PARAPET**
1 1/2" = 1'-0"



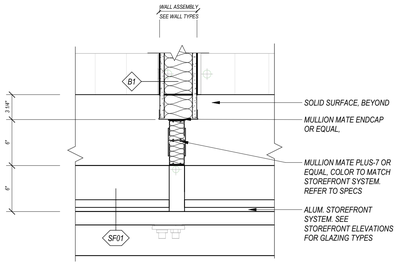
13 A8.5 **PANEL END WALL PLAN DETAIL**
1 1/2" = 1'-0"



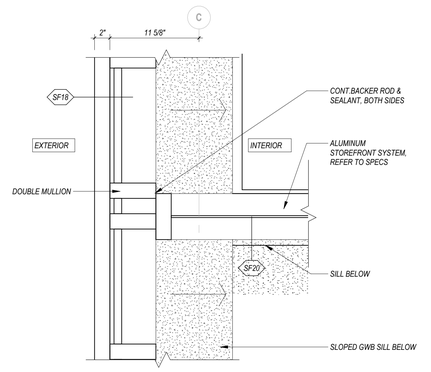
10 A8.5 **JAMB DETAIL- SFJ28**
1 1/2" = 1'-0"



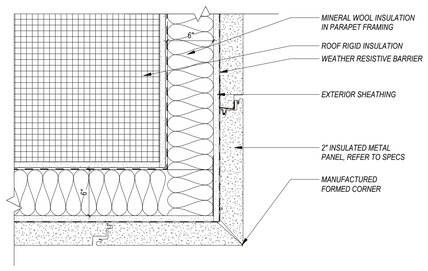
7 A8.5 **JAMB DETAIL- SFJ25.**
1 1/2" = 1'-0"



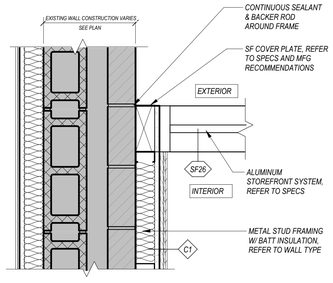
4 A8.5 **JAMB DETAIL-SF22**
1 1/2" = 1'-0"



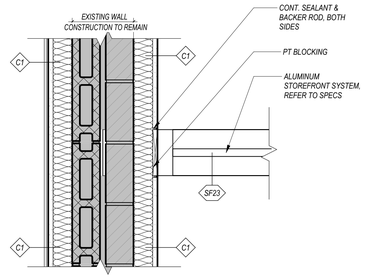
3 A8.5 **JAMB DETAIL- SFJ21**
1 1/2" = 1'-0"



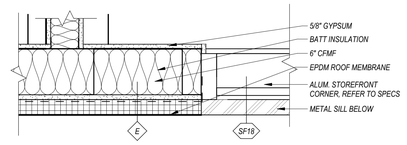
12 A8.5 **OUTSIDE CORNER @ PARAPET**
1 1/2" = 1'-0"



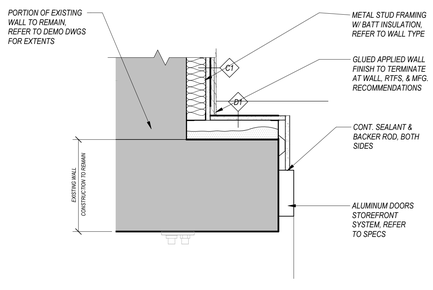
9 A8.5 **JAMB DETAIL-J27**
1 1/2" = 1'-0"



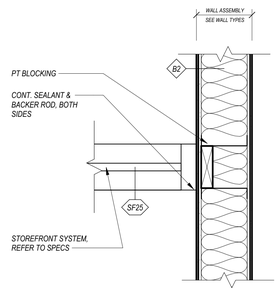
6 A8.5 **JAMB DETAIL- SFJ24**
1 1/2" = 1'-0"



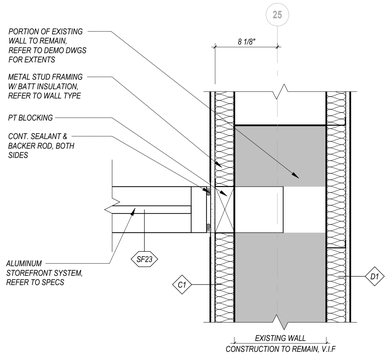
2 A8.5 **JAMB DETAIL- SFJ20**
1 1/2" = 1'-0"



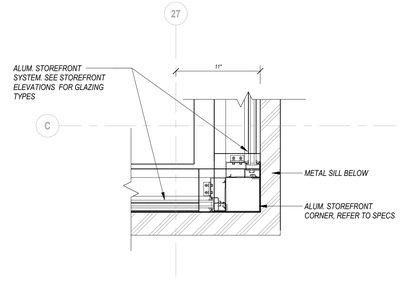
11 A8.5 **JAMB DETAIL- SFJ29**
1 1/2" = 1'-0"



8 A8.5 **JAMB DETAIL- SFJ26**
1 1/2" = 1'-0"



5 A8.5 **JAMB DETAIL- SFJ23**
1 1/2" = 1'-0"



1 A8.5 **JAMB DETAIL- SFJ19**
1 1/2" = 1'-0"

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Revisions

AREA A
AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

STOREFRONT & METAL PANEL DETAILS

A8.5

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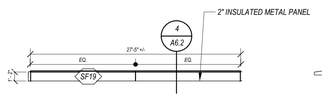
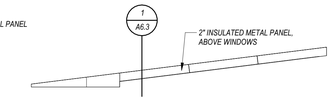
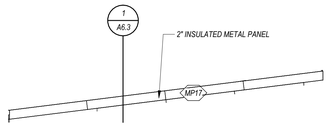


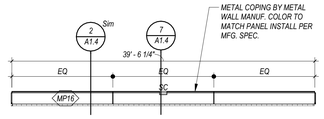
19 A8.6 **MP19-ELEVATION**
1/8" = 1'-0"



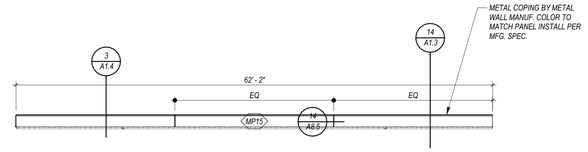
18 A8.6 **MP18 ELEVATION**
1/8" = 1'-0"



17 A8.6 **MP17 ELEVATION**
1/8" = 1'-0"



16 A8.6 **MP16 ELEVATION**
1/8" = 1'-0"



15 A8.6 **MP15 ELEVATION**
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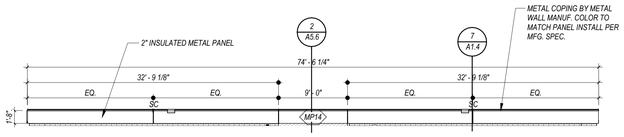
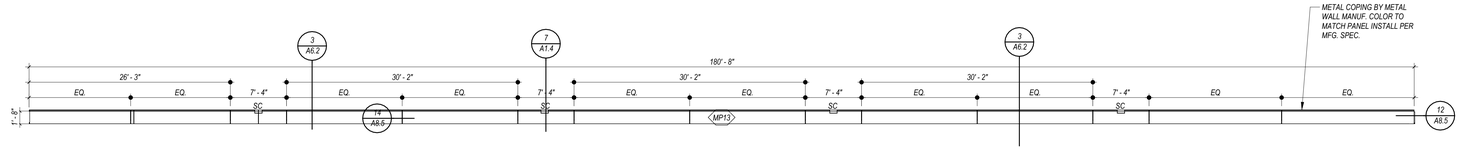
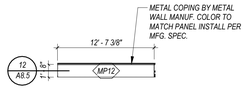


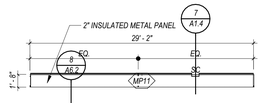
14 A8.6 **MP14 ELEVATION**
1/8" = 1'-0"



13 A8.6 **MP13 ELEVATION**
1/8" = 1'-0"



12 A8.6 **MP12 ELEVATION**
1/8" = 1'-0"



11 A8.6 **MP11 ELEVATION**
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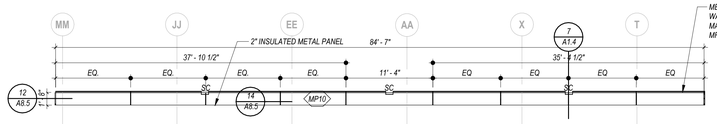

10 A8.6 **MP10 ELEVATION**
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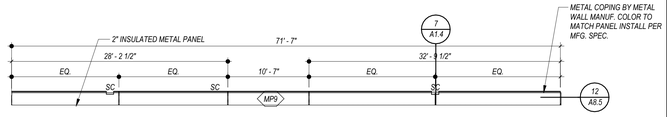
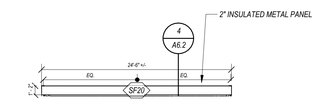


9B A8.6 **MP9 B-ELEVATION**
1/8" = 1'-0"



20 A8.6 **MP20-ELEVATION**
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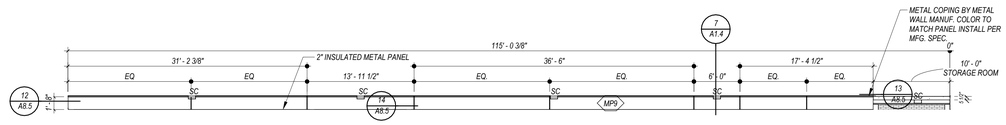
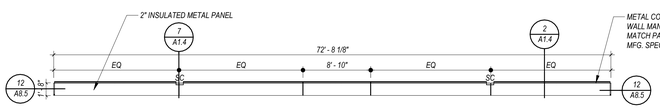
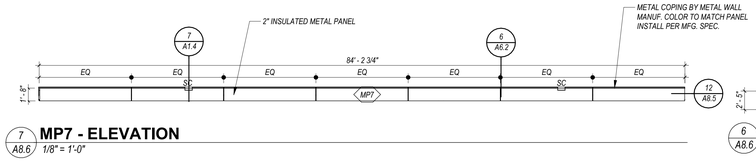


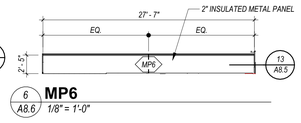
9A A8.6 **MP9 A -ELEVATION**
1/8" = 1'-0"



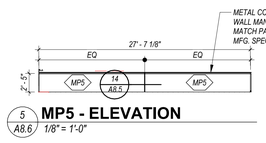
8 A8.6 **MP8 - ELEVATION**
1/8" = 1'-0"



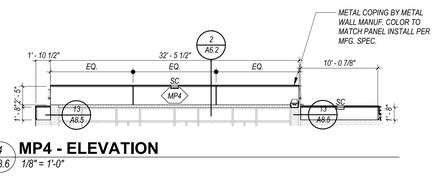
7 A8.6 **MP7 - ELEVATION**
1/8" = 1'-0"



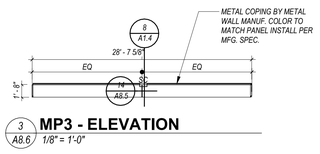
6 A8.6 **MP6**
1/8" = 1'-0"



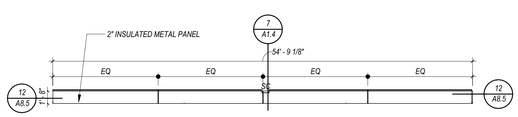
5 A8.6 **MP5 - ELEVATION**
1/8" = 1'-0"



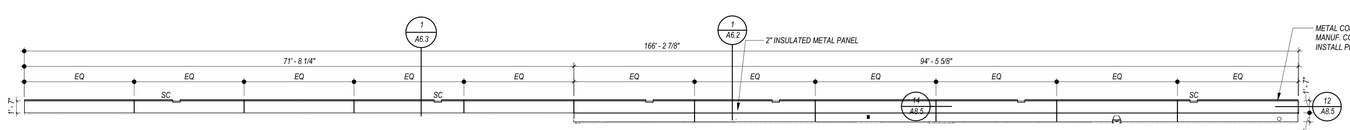
4 A8.6 **MP4 - ELEVATION**
1/8" = 1'-0"



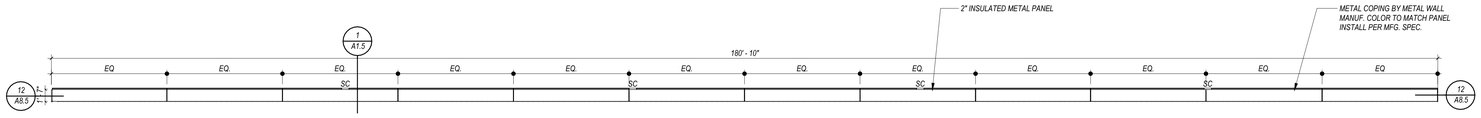
3 A8.6 **MP3 - ELEVATION**
1/8" = 1'-0"



2 A8.6 **MP2 - ELEVATION**
1/8" = 1'-0"



1B A8.6 **MP1 - B - ELEVATION**
1/8" = 1'-0"



1A A8.6 **MP1 - A - ELEVATION**
1/8" = 1'-0"

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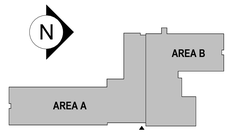
STATE OF CONNECTICUT
QUISENBERRY ARCIA MALIK
REG. 9193
REGISTERED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

METAL PANEL ELEVATIONS

A8.6

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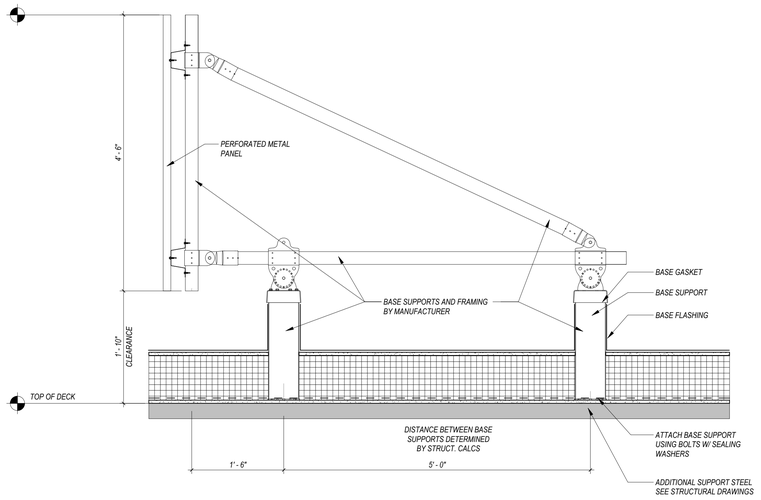
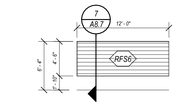
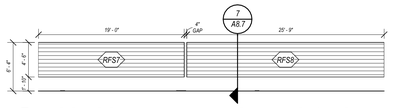


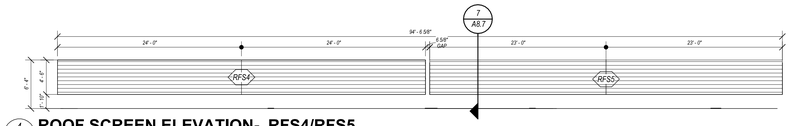
7 / A8.7 **ROOF FRAME SECTION**
1" = 1'-0"



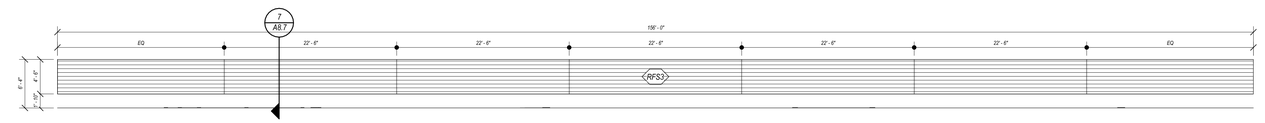
5 / A8.7 **ROOF SCREEN ELEVATION- RFS6**
1/8" = 1'-0"



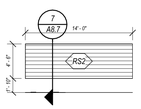
6 / A8.7 **ROOF SCREEN ELEVATION- RFS7/RFS8**
1/8" = 1'-0"



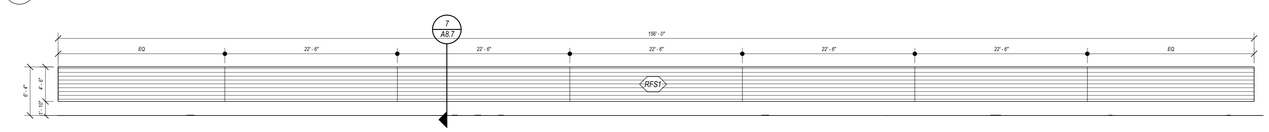
4 / A8.7 **ROOF SCREEN ELEVATION- RFS4/RFS5**
1/8" = 1'-0"



3 / A8.7 **ROOF SCREEN ELEVATION- RFS3**
1/8" = 1'-0"



2 / A8.7 **ROOF SCREEN ELEVATION- RFS2**
1/8" = 1'-0"



1 / A8.7 **ROOF SCREEN ELEVATION- RFS1**
1/8" = 1'-0"

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STATE OF CONNECTICUT · QUISENBERRY MALIK · REG. 9127 · REG. 9193 · REGISTERED ARCHITECT

RENOVATIONS TO:
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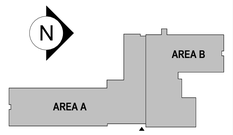
Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ROOF SCREEN ELEVATIONS

A8.7

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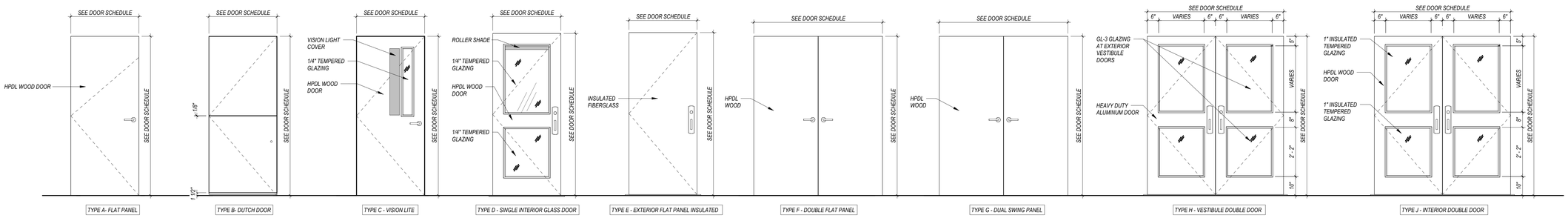
DOOR SCHEDULE

RL	ROOM #	ROOM NAME	DOUBLE LEAF DOOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	HARDWARE SET #	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING UL	RATING STC	COMMENTS
001	001	VESTIBULE 1	•	6' - 0"	7' - 0"	H	AL	GL-3	2	AL-1	AL	SFH11	SFJ1/J5	S3			
001A	001	VESTIBULE 1	•	6' - 0"	7' - 0"	H	AL	GL-3	4	AL-1	AL	H7	J5/SFJ23	S4			
002	002	VESTIBULE 2	•	6' - 0"	7' - 0"	H	AL	GL-3	1	AL-1	AL	SFH7	J1/J2/J5	S3			
002A	002	VESTIBULE 2	•	6' - 2"	7' - 0"	H	AL	GL-1	5	AL-1	AL	SFH10	J5/J26	S4			
003	003	VESTIBULE 3	•	6' - 0"	7' - 0"	H	AL	GL-3	2	AL-1	AL		J27/J5	S3			
003A	003	VESTIBULE 3	•	6' - 0"	7' - 0"	H	AL	GL-1	6	AL-1	AL	H7	J5/SFJ23	S4			
004	100B	CORRIDOR	•	6' - 0"	7' - 0"	H	AL	GL-3	1	AL-1	AL		J5/SFJ28	S3			
005	100D	CORRIDOR	•	6' - 0"	7' - 0"	H	AL	GL-3	1	AL-1	AL		SFJ29/J5				
101	101	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
101A	101A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
101B	101	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
102	102	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
102A	102A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
102B	102	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
103	103	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
103A	103A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
103B	103	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
104	104	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
104A	104A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
104B	104	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
105	105	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
105A	105A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
105B	105	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
106	106	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
106A	106A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
106B	106	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
107	107	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
107A	107A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
107B	107	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
108	108	SELF CONTAINED CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
108A	108A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
108B	108	SELF CONTAINED CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
109	109	SELF CONTAINED CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
109A	109A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H5	J9	S7			
109B	109	SELF CONTAINED CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
110	110	SELF CONTAINED CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J7/HM FJ-1	S4/HMF S-1		30	
110A	110A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H5	J9	S7			
110B	110	SELF CONTAINED CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
111	111	UNISEX		3' - 0"	6' - 8"	A	HPDL		21	HM-1	HM	H14	J3	S2			
112	112	UNISEX		3' - 0"	6' - 8"	A	HPDL		21	HM-1	HM	H13	J12	S4			
113	113	C	•	5' - 4"	6' - 8"	F	HPDL		11	HM-1	HM	H13	J12	S4			
114A	114	DATA	•	5' - 4"	6' - 8"	F	HPDL		11	HM-1	HM	H13	J12	S4			
114B	114	DATA	•	5' - 4"	6' - 8"	F	HPDL		11	HM-1	HM	H13	J12	S4			
115	115	SENSORY		3' - 0"	6' - 8"	C	HPDL	GL-2	23	HM-1	HM	H11	J27	S4			
116	116	SENSORY		3' - 0"	6' - 8"	C	HPDL	GL-2	23	HM-1	HM	H11	J27	S4			
117	117	CONF		3' - 0"	6' - 10"	A	HPDL		23	HM-5	HM	H11	J14/HMJ5	S4			
118	118	RECEP		3' - 0"	7' - 2"	D	HPDL	GL-2	9	HM-1	HM	H5	J10	S4			
118A	118A	SEC		3' - 0"	6' - 8"	A	HPDL		13	HM-4	HM	H15	J12	S4		30	
118B	118B	GUID		3' - 0"	6' - 8"	A	HPDL		13	HM-4	HM	H3	J3	S4/HMF S-1		30	
118C	118C	PRINC		3' - 0"	6' - 8"	A	HPDL		13	HM-4	HM	H15	J12	S4		30	
118D	118D	T		3' - 0"	6' - 8"	A	HPDL		19	HM-1	HM	H13	J12	S2			
118E	118	RECEP		3' - 0"	6' - 8"	C	HPDL	GL-2	24	HM-1	HM	H5	J10	S4			
118F	118	RECEP		3' - 0"	7' - 0"	D	HPDL	GL-2	24	HM-7	HM	H14	J11/J7/H MFJ-4	S4/HMF S-1			
119	119	NURSE		3' - 0"	6' - 8"	C	HPDL	GL-2	23	HM-1	HM	H14	J3/J13	S4			
119A	119A	T		3' - 0"	6' - 8"	A	HPDL		20	HM-1	HM	H14	J3	S2			
120	120	T		3' - 0"	6' - 8"	A	HPDL		22	HM-1	HM	H14	J3	S2			
121	121	CONF		3' - 0"	7' - 2"	A	HPDL		23	HM-8	HM	H14	J25/J7	S4/S6		30	
122	122	S	•	6' - 0"	6' - 8"	F	HPDL		10	HM-1	HM	H14	J3	S4			
123	123	OT/PT		3' - 0"	6' - 8"	C	HPDL	GL-2	23	HM-1	HM	H5	J4	S4		30	
123A	123	OT/PT		3' - 0"	6' - 8"	A	HPDL		15	HM-1	HM	H5	J4	S4			
123B	123	OT/PT	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H13	J12	S4			
123C	123	OT/PT	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H13	J12	S4			
124	124	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J26	S4/S6		30	
124A	124A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H13	J12	S7			
124B	124	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			

DOOR SCHEDULE

RL	ROOM #	ROOM NAME	DOUBLE LEAF DOOR	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZING	HARDWARE SET #	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	RATING UL	RATING STC	COMMENTS
125	125	EVAL		3' - 0"	6' - 10"	D	HPDL	GL-2	23	HM-6	HM	H5	J14	S4/S6			
126	126	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J26	S4/S6		30	
126A	126A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H13	J12	S7			
126B	126	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
127A	127A	S	•	6' - 0"	6' - 8"	F	HPDL		10	HM-1	HM	H5	J4	S4			
127B	127	GROSS MOTOR	•	6' - 0"	7' - 2"	J	HPDL		11	HM-1	HM	H12	J17/J18	S4			
127C	127	GROSS MOTOR	•	6' - 0"	7' - 2"	J	HPDL		11	HM-1	HM	H12	J17/J18	S4			
128	128	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
129	129	STOR		3' - 0"	6' - 8"	A	HPDL		25	HM-1	HM	H3	J3	S4		30	
130	130	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
131	131	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
132	132	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
133	133	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
134	134	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
135	135	SPEC		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H13	J12/J7	S4/HMF S-1		30	
136	136	A/M OFFICE		3' - 0"	6' - 8"	A	HPDL		25	HM-4	HM	H15	J12/J7	S4/HMF S-1		30	
137	137	CLASSROOM		3' - 0"	7' - 0"	A	HPDL	GL-2	23	HM-3	HM	H3	J16/HMFJ 3	S4/HMF S-1		30	
137A	137A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
137B	137	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H15	J12	S4			
138	138	KITCHEN		3' - 6"	6' - 8"	A	HPDL		13	HM-1	HM	H5	J4	S4			
138A	138A	T		3' - 0"	6' - 8"	A	HPDL		19	HM-1	HM	H3	J3	S2			
138B	138	KITCHEN		3' - 0"	6' - 8"	A	HPDL		15	HM-1	HM	H13	J12	S4			
138C	138	KITCHEN		3' - 0"	6' - 8"	A	HPDL		17	HM-1	HM	H4	J4	S4			
139	139	T		3' - 0"	6' - 8"	A	HPDL		22	HM-1	HM	H5	J9	S2			
140	140	CLASSROOM		3' - 0"	7' - 0"	A	HPDL	GL-2	23	HM-3	HM	H3	J16/J18/H MFJ3	S4/HMF S-1		30	
140A	140A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H14	J3	S7			
140B	140	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
140C	140	CLASSROOM		3' - 0"	6' - 8"	A	HPDL		15	HM-1	HM	H14	J3	S4			
141	141	MECH		3' - 0"	6' - 8"	A	HPDL		12	HM-1	HM	H5	J4	S4	SMOKE		
141A	141	MECH		3' - 6"	6' - 8"	E	FG		3	HM-1	HM	H1	J1				
142	142	DATA		3' - 0"	6' - 8"	A	HPDL		12	HM-1	HM	H5	J4	S5			
143	143	T		3' - 0"	6' - 8"	A	HPDL		21	HM-1	HM	H5	J4	S2			
144	144	BREAK / WORK ROOM		3' - 0"	6' - 8"	C	HPDL	GL-2	17	HM-1	HM	H3	J3/J21	S4			
144A	144A	ELEC		3' - 0"	6' - 8"	A	HPDL		7	HM-1	HM	H5	J4	S5			
145	145	CUST		3' - 0"	6' - 8"	A	HPDL		15	HM-1	HM	H4	J22/J28	S4			
146	146	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J3/J7/ 6/A6.0	S4/HMF S-1		30	
146A	146A	T		3' - 0"	6' - 8"	B	HPDL			HM-1		H5	J9	S7			
146B	146B	STORAGE	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
147	147	CLASSROOM		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J3/J7/ 6/A6.0	S4/HMF S-1		30	
147A	147A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H5	J9	S7			
147B	147	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
148	100B	CORRIDOR		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J24/J7/ HMFJ-1	S4/HMF S-1		30	
148A	148A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H3	J3	S7			
148B	148	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
149	100B	CORRIDOR		3' - 0"	6' - 8"	A	HPDL	GL-2	23	HM-3	HM	H3	J6/J24/J7/ HMFJ-1	S4/HMF S-1		30	
149A	149A	T		3' - 0"	6' - 8"	B	HPDL		18	HM-1		H3	J3	S7			
149B	149	CLASSROOM	•	6' - 0"	6' - 8"	F	HPDL		14	HM-1	HM	H14	J3	S4			
150	150	STORAGE		3' - 6"	6' - 8"	E	FG		3	HM-1	HM	H8					PAINTED INSULATED METAL DOOR
R100				3' - 0"	1' - 0 5/8"							-	-	-			ROOF HATCH



DOOR ELEVATIONS

1/2" = 1'-0"

QA+M architecture
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Farmington, CT 06032
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STATE OF CONNECTICUT · LANCE MALIK · REG. 9193 · REGISTERED ARCHITECT

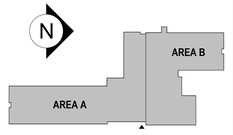
RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

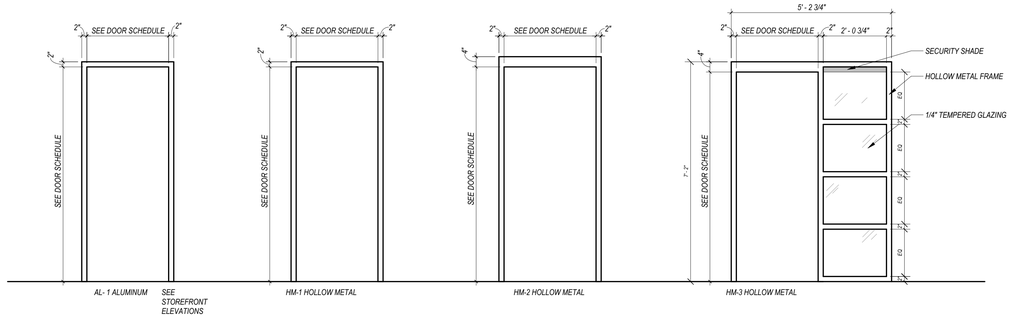
Revisions

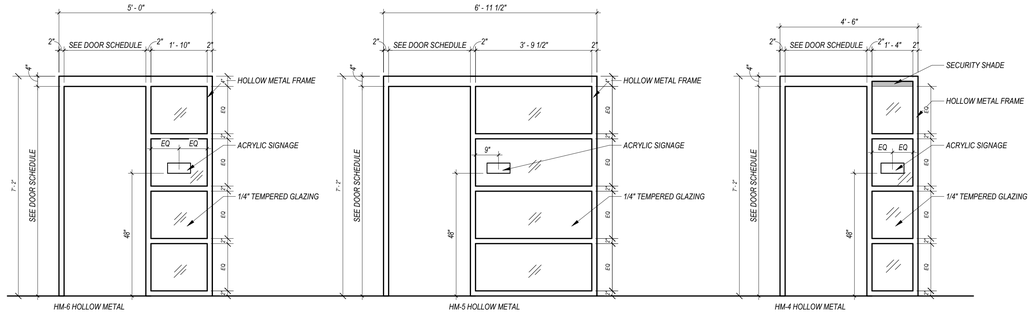


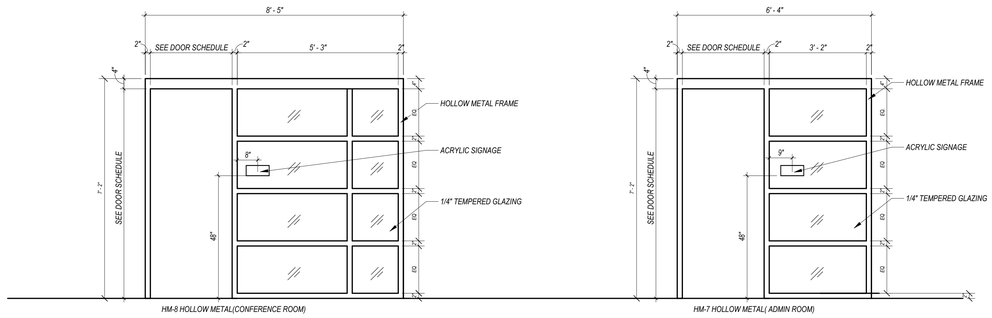
CONSTRUCTION DOCUMENTS
JUNE 5, 2026

DOOR SCHEDULE & ELEVATIONS

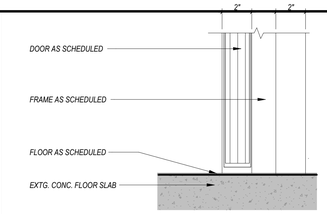
A9.0



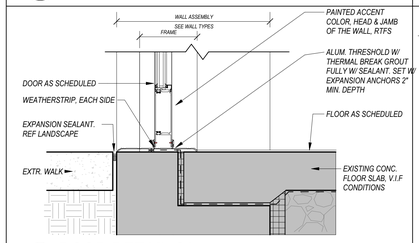




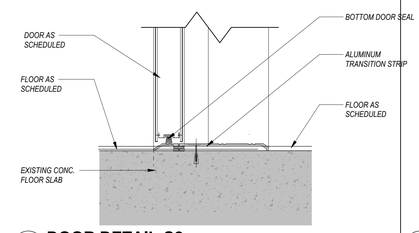
DOOR FRAME ELEVATIONS
1/2" = 1'-0"



15 A9.1 **DOOR DETAIL-S4**
3" = 1'-0"

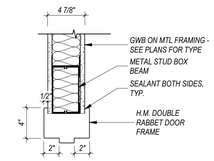


14 A9.1 **DOOR DETAIL S3**
1 1/2" = 1'-0"

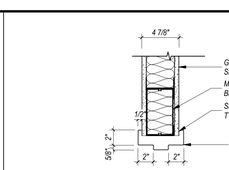


13 A9.1 **DOOR DETAIL-S2**
3" = 1'-0"

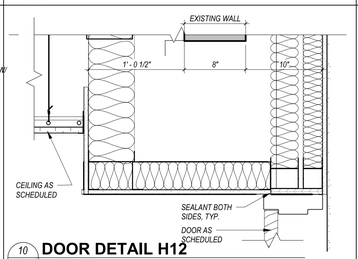
12 A9.1 **DOOR DETAIL-S1**
3" = 1'-0"



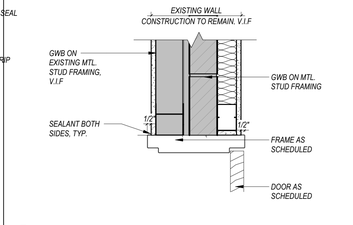
20 A9.1 **DOOR HEAD DETAIL-H15**
1 1/2" = 1'-0"



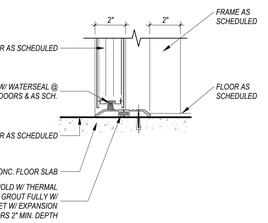
17 A9.1 **DOOR HEAD DETAIL-H13**
1 1/2" = 1'-0"



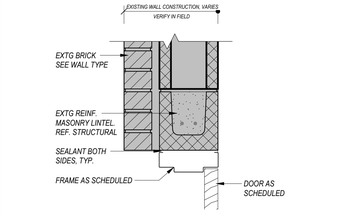
10 A9.1 **DOOR DETAIL H12**
1 1/2" = 1'-0"



11 A9.1 **DOOR HEAD DETAIL-H11**
1 1/2" = 1'-0"

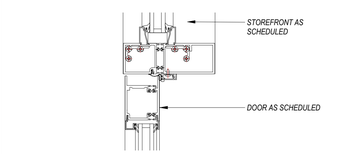


9 A9.1 **HEAD DETAIL-H9**
1 1/2" = 1'-0"

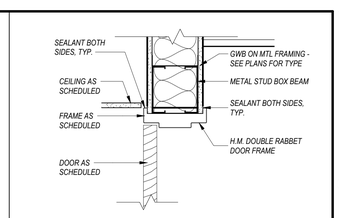


8 A9.1 **DOOR HEAD DETAIL -H8**
1 1/2" = 1'-0"

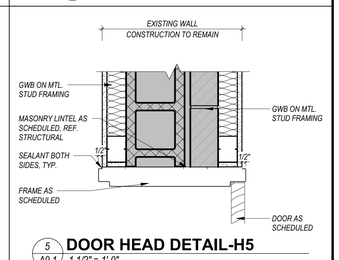
19 A9.1 **DOOR HEAD DETAIL-H14**
1 1/2" = 1'-0"



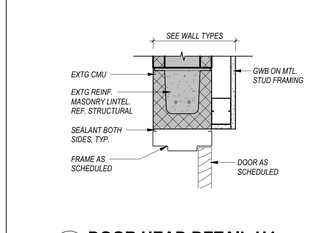
7 A9.1 **DOOR HEAD DETAIL-H7**
3" = 1'-0"



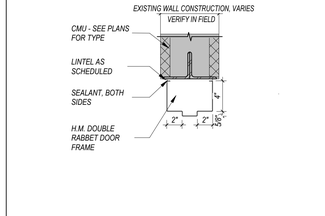
6 A9.1 **DOOR HEAD DETAIL H6**
1 1/2" = 1'-0"



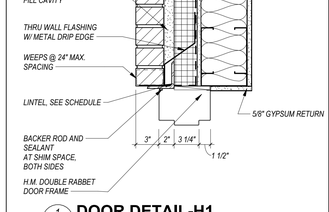
5 A9.1 **DOOR HEAD DETAIL-H5**
1 1/2" = 1'-0"



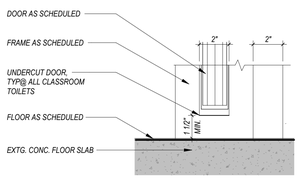
4 A9.1 **DOOR HEAD DETAIL-H4**
1 1/2" = 1'-0"



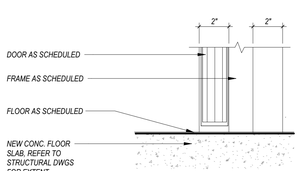
2 A9.1 **DOOR HEAD DETAIL-H2**
1 1/2" = 1'-0"



1 A9.1 **DOOR DETAIL-H1**
1 1/2" = 1'-0"



18 A9.1 **DOOR DETAIL-S7**
3" = 1'-0"



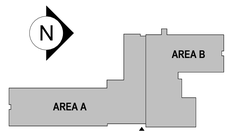
16 A9.1 **DOOR DETAIL-S5**
3" = 1'-0"

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

STATE OF CONNECTICUT · JOHN MALIK · REG. 9193 · REGISTERED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

DOOR DETAILS

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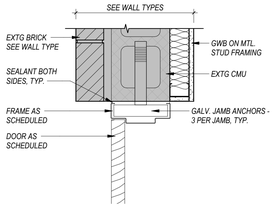
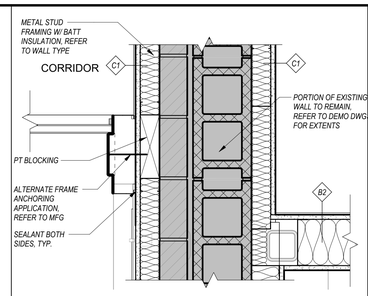
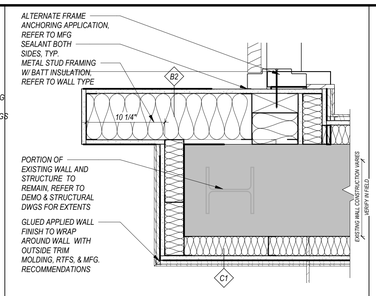


25 A9.2 **JAMB DETAIL-J28**
1 1/2" = 1'-0"



19 A9.2 **JAMB DETAIL-J23**
1 1/2" = 1'-0"



14 A9.2 **JAMB DETAIL -J17**
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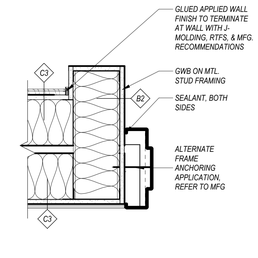
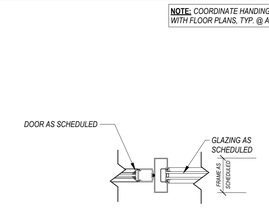
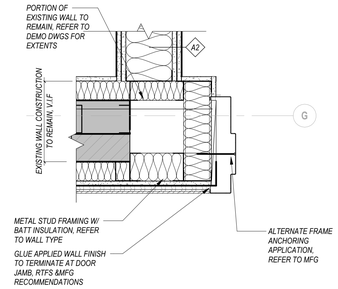


10 A9.2 **JAMB DETAIL -J11**
1 1/2" = 1'-0"



5 A9.2 **JAMB DETAIL-J5**
1 1/2" = 1'-0"



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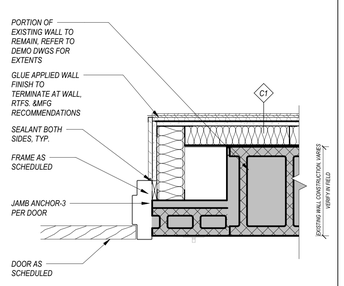

18 A9.2 **JAMB DETAIL-J22**
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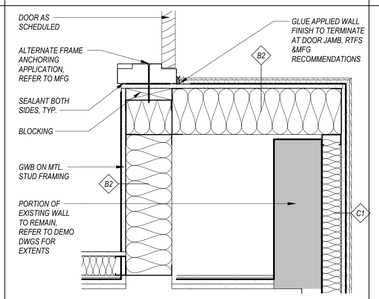

13 A9.2 **JAMB DETAIL-J16**
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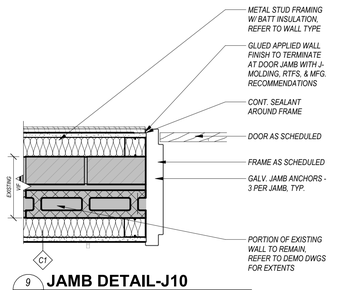
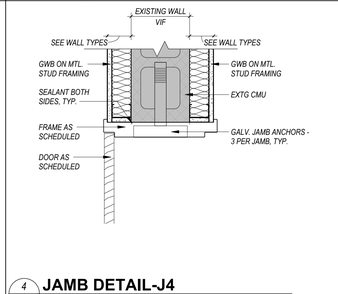


9 A9.2 **JAMB DETAIL-J10**
1 1/2" = 1'-0"



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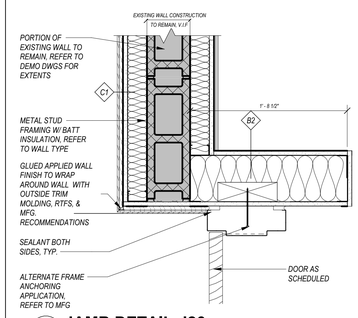

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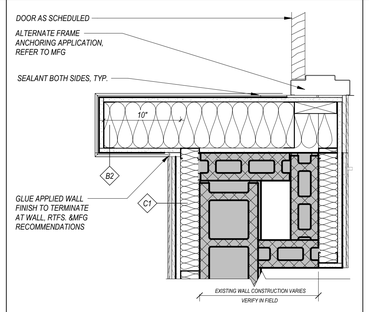

17 A9.2 **JAMB DETAIL-J20**
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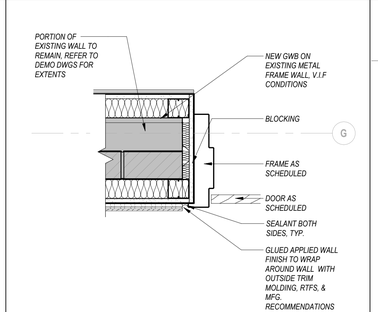
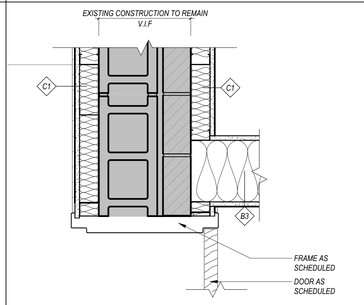


12 A9.2 **JAMB DETAIL J14**
1 1/2" = 1'-0"



8 A9.2 **JAMB DETAIL J9 (TOILET)**
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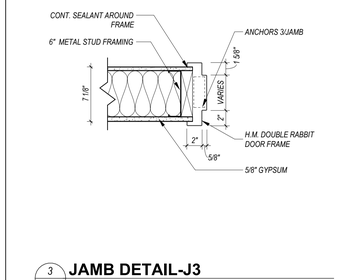

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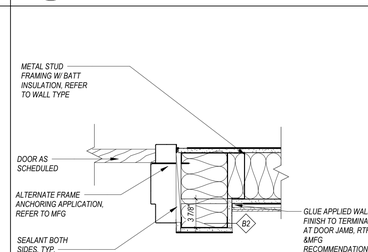
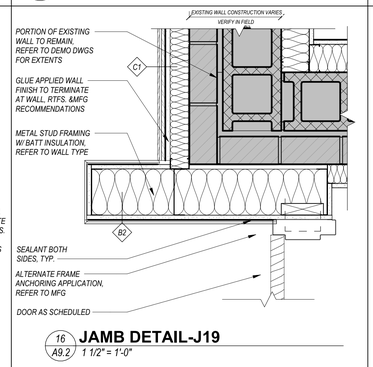


21 A9.2 **JAMB DETAIL-J25**
1 1/2" = 1'-0"



16 A9.2 **JAMB DETAIL-J19**
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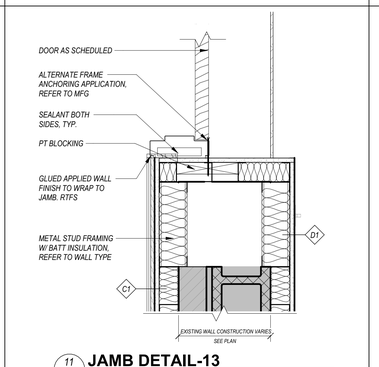
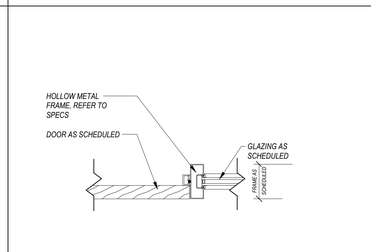


11 A9.2 **JAMB DETAIL-13**
1 1/2" = 1'-0"



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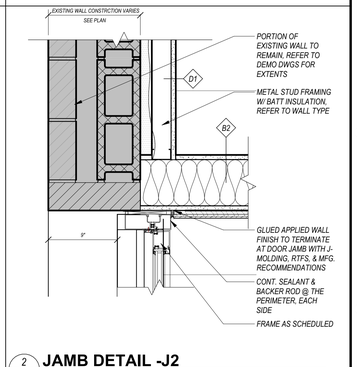
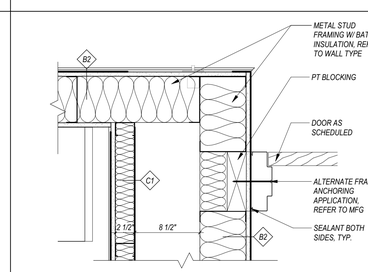
1 1/2" = 1'-0"



2 A9.2 **JAMB DETAIL -J2**
1 1/2" = 1'-0"



20 A9.2 **JAMB DETAIL J24**
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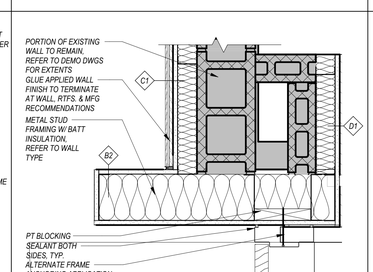

15 A9.2 **JAMB DETAIL J18**
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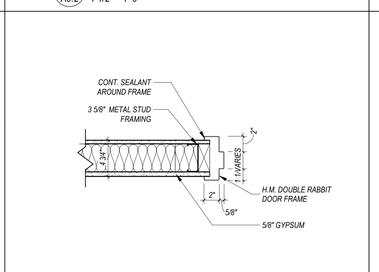
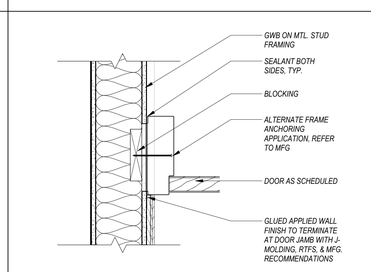
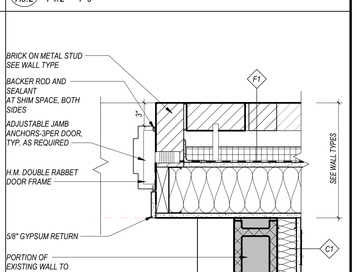


10. A9.2 **JAMB DETAIL-J12**
1 1/2" = 1'-0"



6 A9.2 **JAMB DETAIL J6 (CLASS)**
1 1/2" = 1'-0"



1 A9.2 **JAMB DETAIL-J1**
1 1/2" = 1'-0"

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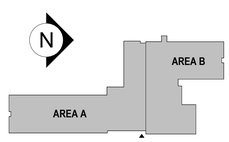
STATE OF CONNECTICUT — MICHAEL LANE MALIK — REG. NO. 21827 — REG. 9193 — REGISTERED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

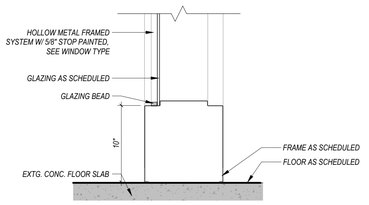
Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

DOOR JAMB DETAILS

A9.2



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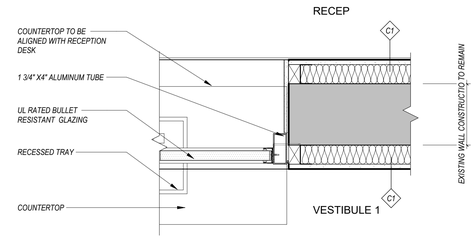

11 JAMB DETAIL- HMJ7 (TRANSACTION WINDOW)
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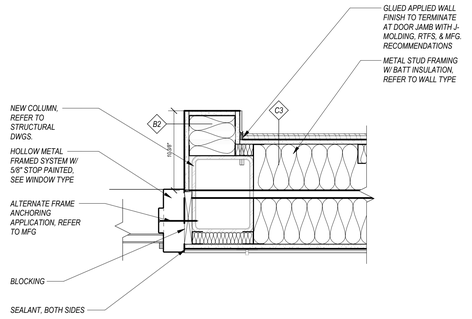

9 JAMB DETAIL HMFJ4
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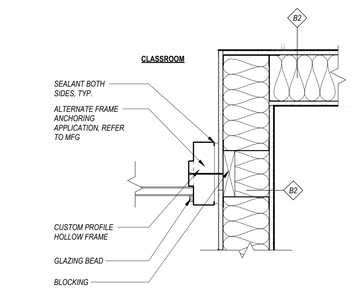

6 JAMB DETAIL-HMFJ-1
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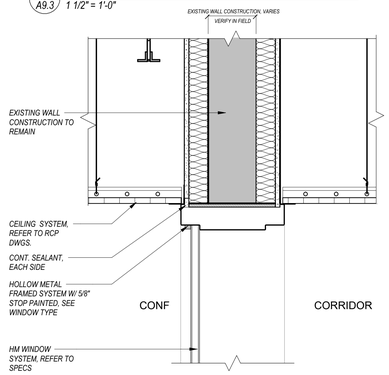

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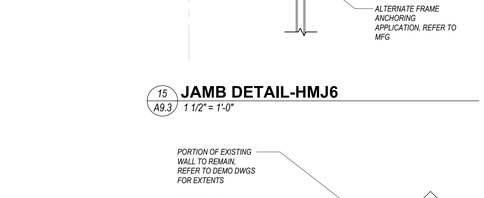

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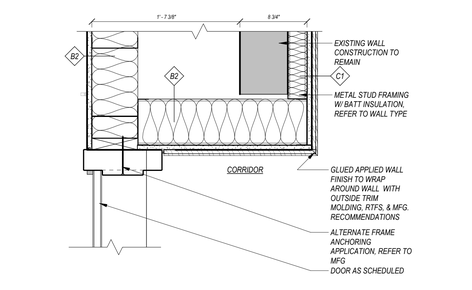

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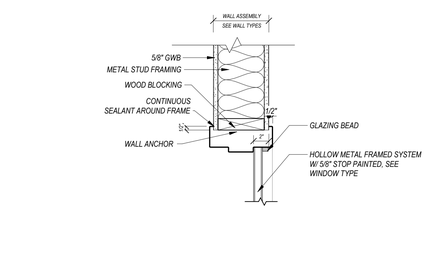

5 HEAD DETAIL- HMFH-2
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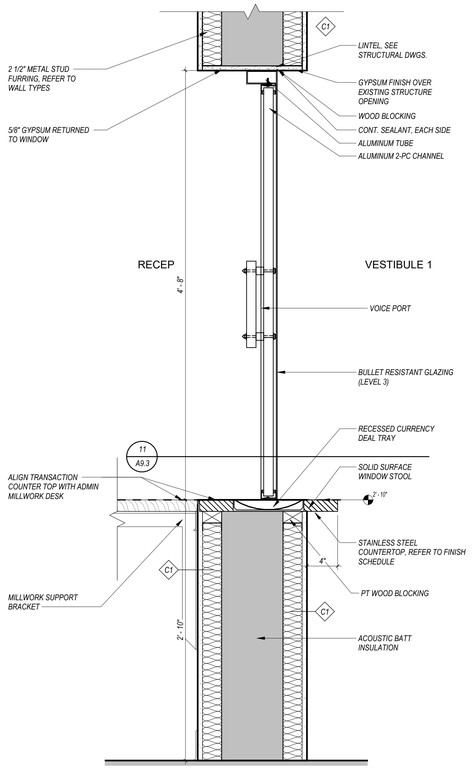

12 SILL DETAIL- SFS12
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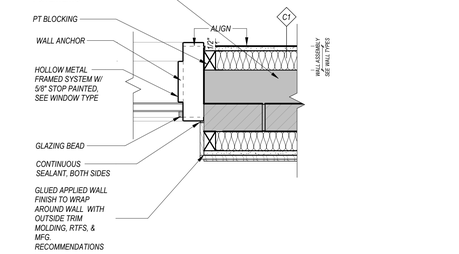

10 HM-JAMB DETAIL-HMJ-5
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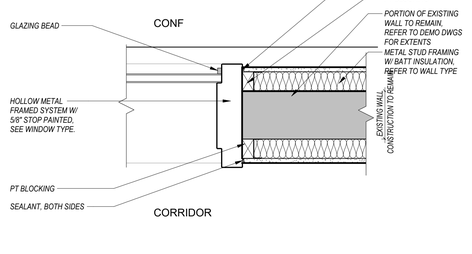

7 JAMB DETAIL-HMFJ-2
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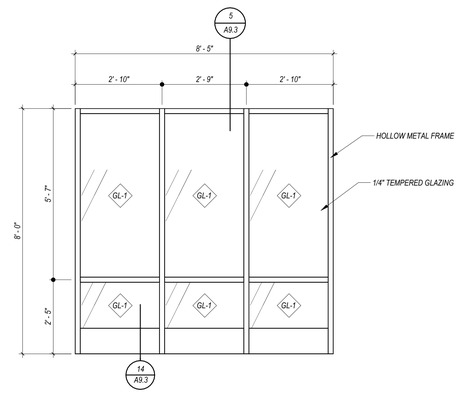

3 HMF3- ELEVATION
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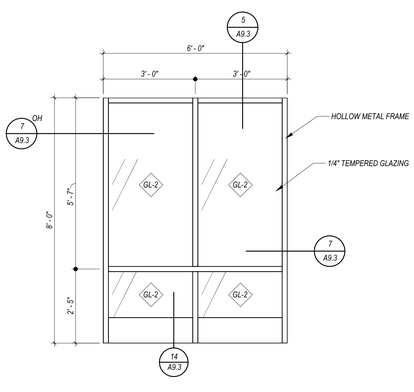

2 HMF2- ELEVATION
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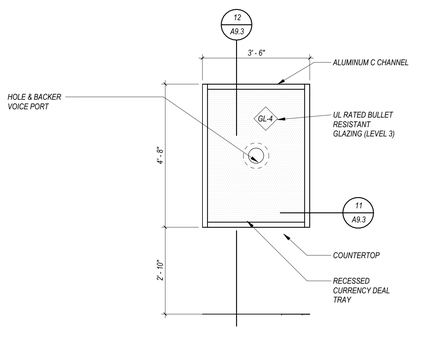

1 HMF1- ELEVATION
A9.3 1/2" = 1'-0"

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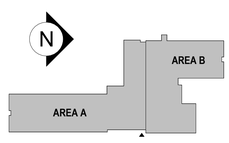
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

HOLLOW METAL TYPES AND DETAILS

A9.3

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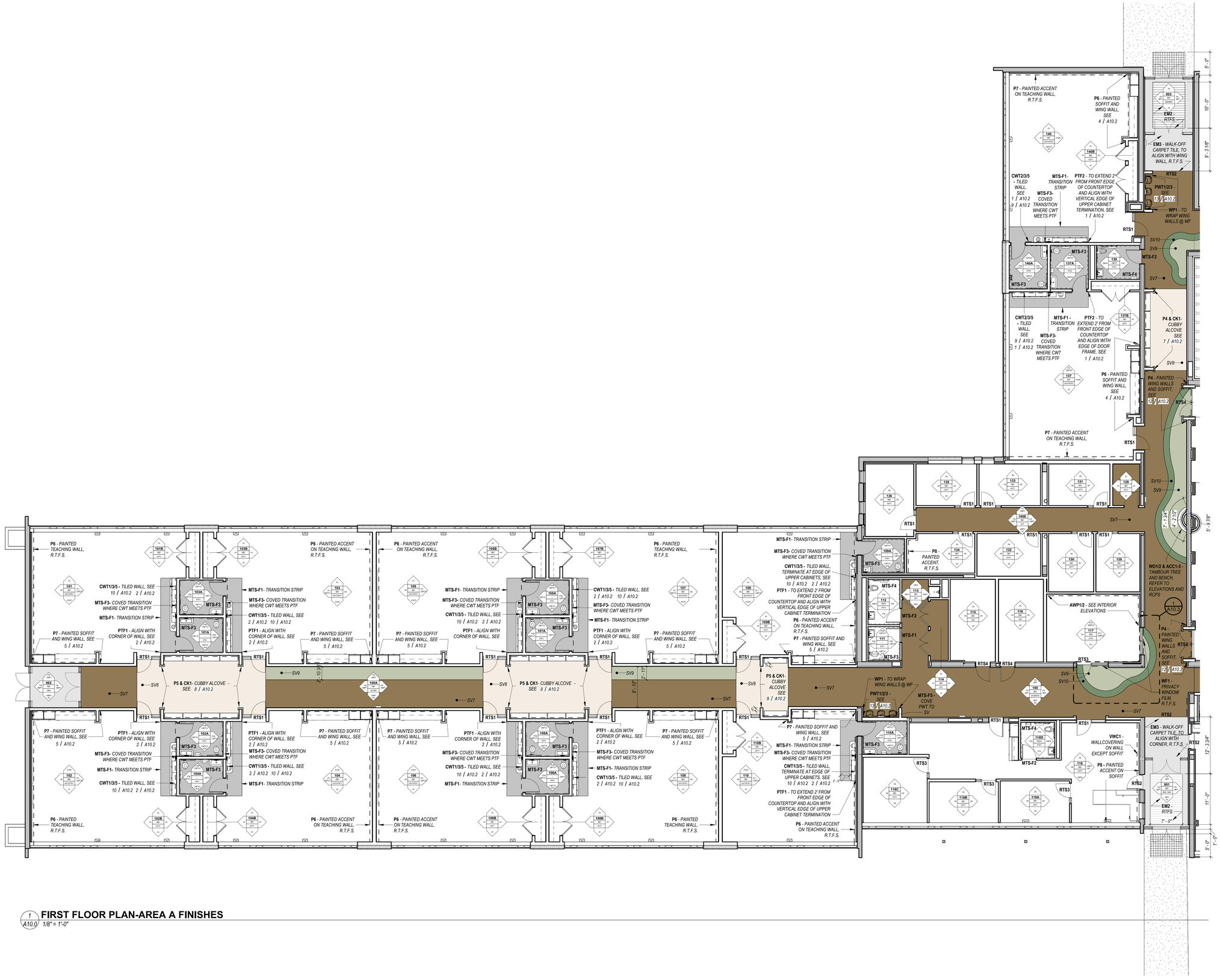

1 / A10.0 **FIRST FLOOR PLAN-AREA A FINISHES**
1/8" = 1'-0"

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ENLARGED FINISH PLAN - AREA A

A10.0

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ROOM FINISH SCHEDULE							
Room Number	Room Name	Floor Finish	Base Finish	WALL FINISH - (N)	WALL FINISH - (E)	WALL FINISH - (S)	WALL FINISH - (W)
001	VESTIBULE 1	EM2 / EM3	RB1	P3/ WP1	P3/ WP1	WP1/ P3	P3/ WP1
002	VESTIBULE 2	EM4	RB1	P3/ VWP1	P3/ VWP1	VWP1/ P3	P3/ VWP1
003	VESTIBULE 3	EM2/EM3	RB1	P3	P3/ WP1	P3	P3/ WP1
100	CORRIDOR	SV7/8/9/10	RB1	P3/ WP1	P3/ WP1	WP1 /P3	P3/ WP1
100A	CORRIDOR	SV7/8/9	RB1	P3/ VWP1	P3/ VWP1	VWP1 /P3	P3/ VWP1
100B	CORRIDOR	SV7/8/9/10	RB1	P3/ WP1	P3/ WP1	WP1 /P3	P3/ WP1
100C	CORRIDOR	SV7	RB1	P3/ VWP1	P3/ VWP1	VWP1 /P3	P3/ VWP1
100D	CORRIDOR	SV7/8/9	RB1	P3/ VWP1	P3/ VWP1	VWP1 /P3	P3/ VWP1
100E	CORRIDOR	SV7	RB1	P3/ VWP1	P3/ VWP1	VWP1/ P3	P3/ VWP1
101	CLASSROOM	HVT1/PTF1	RB1	P1	P1 / CWT1/3	P1/P7	P6
101A	T	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	CWT1/3
101B	STORAGE	HVT1	RB1	P1	P1	P1	P1
102	CLASSROOM	HVT1/PTF1	RB1	P1/P7	P1 / CWT1/3	P1	P6
102A	T	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	CWT1/3
102B	STORAGE	HVT1	RB1	P1	P1	P1	P1
103	CLASSROOM	HVT1/PTF1	RB1	P1	P6	P1/P7	P1 / CWT1/3
103A	T	PTF1	--	P18/ CWT1/3	CWT1/3	CWT1/3./P18	P18/ CWT1/3
103B	STORAGE	HVT1	RB1	P1	P1	P1	P1
104	CLASSROOM	HVT1/PTF1	RB1	P1/P7	P6	P1	P1 / CWT1/3
104A	T	PTF1	--	P18/ CWT1/3	CWT1/3	CWT1/3./P18	P18/ CWT1/3
104B	STORAGE	HVT1	RB1	P1	P1	P1	P1
105	CLASSROOM	HVT1/PTF1	RB1	P1	P1/ CWT1/3	P1/P7	P6
105A	T	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	CWT1/3
105B	STORAGE	HVT1	RB1	P1	P1	P1	P1
106	CLASSROOM	HVT1/PTF1	RB1	P1/P7	P1 / CWT1/3	P1	P6
106A	T	PTF1	--	P18/ CWT1/3	CWT1/3	CWT1/3./P18	P18/ CWT1/3
106B	STORAGE	HVT1	RB1	P1	P1	P1	P1
107	CLASSROOM	HVT1/PTF1	RB1	P1	P6	P1/P7	P1 / CWT1/3
107A	T	PTF1	--	P18/ CWT1/3	CWT1/3	CWT1/3./P18	P18/ CWT1/3
107B	STORAGE	HVT1	RB1	P1	P1	P1	P1
108	SELF CONTAINED CLASSROOM	HVT1/PTF1	RB1	P1/P7	P6	P1	P1 / CWT1/3
108A	T	PTF1	--	P18/ CWT1/3	CWT1/3	CWT1/3./P18	P18/ CWT1/3
108B	STORAGE	HVT1	RB1	P1	P1	P1	P1
109	SELF CONTAINED CLASSROOM	HVT1/PTF1	RB1	P1	P1 / CWT1/3	P1/P7	P6
109A	T	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	CWT1/3
109B	STORAGE	HVT1	RB1	P1	P1	P1	P1
110	SELF CONTAINED CLASSROOM	HVT1/PTF1	RB1	P1/P7	P1 / CWT1/3	P1	P6
110A	T	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	P18/ CWT1/3
110B	STORAGE	HVT1	RB1	P1	P1	P1	P1
111	UNISEX	PTF1	--	P18/ CWT1/3	P18/ CWT1/3	CWT1/3./P18	P18/ CWT1/3
112	UNISEX	PTF3	PWT4	P18	P18	P18	PWT4
113	C	SV7	RB1	FRP1	FRP1	FRP1	FRP1
114	DATA	SV7	RB1	P1	P1	P1	P1
115	SENSORY	SV5	RB1	P5	P5	P5	P5
116	SENSORY	SV5	RB1	P5	P5	P5	P5
117	CONF	CPT2	RB2	P11/ AWP1/2	P11/ AWP1/2	P11	P11
118	RECEP	HVT1	RB2	P8	VWC1./P8	P8/P9	P8
118A	SEC	CPT1	RB1	P9	P9	P9	P8
118B	GUID	CPT1	RB1	P9	P9	P9	P8
118C	PRINC	CPT1	RB1	P9	P9	P9	P8
118D	T	PTF3	PWT4	P18	PWT4	P18	P18
119	NURSE	HVT1	RB1	P13	P13	P13	P13
119A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	P18/ CWT2/3
120	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	P18/ CWT2/3
121	CONF	CPT2	RB2	P11	AWP3/4./P11	P11/ AWP3/4	P11/ AWP3/4
122	S	SV7	RB1	P1	P1	P1	P1
122B	STORAGE	SV6	RB1	P1	P1	P1	P1
122C	STORAGE	SV6	RB1	P1	P1	P1	P1
123	OT/PT	SV2/4/5/6	RB1	P16	P16	P16	P16
123B	STORAGE	HVT1	RB1	P1	P1	P1	P1
124	CLASSROOM	HVT1/PTF2	RB1	P7	P1	P1/ PWT2	P1/ PWT2
124A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	P18/ CWT2/3
125	EVAL	HVT1	RB4	P12/ VWC2	P12/ VWC2	VWC2/ P12	P12/ VWC2
125B	STORAGE	HVT1	RB1	P1	P1	P1	P1
126	CLASSROOM	HVT1/PTF2	RB1	P1/P6/ CWT2/3	P1	P7	P1/ CWT2/3
126A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	P18/ CWT2/3
127	GROSS MOTOR	SV1/2/3	RB3	P14/15./WP2	P14/15./WP2	WP2/ P14/15	P14/15./WP2
127A	S	SV1/2/3	RB3	P1	P1	P1	P1
128	SPEC	HVT1	RB1	P9	P9	P9	P8
129	STOR	HVT1	RB1	P1	P1	P1	P1
130	SPEC	HVT1	RB1	P9	P9	P9	P8
131	SPEC	HVT1	RB1	P9	P9	P9	P8
132	SPEC	HVT1	RB1	P9	P9	P9	P8
133	SPEC	HVT1	RB1	P9	P8	P9	P9
134	SPEC	HVT1	RB1	P9	P9	P9	P8
135	SPEC	HVT1	RB1	P9	P9	P9	P8
136	A/M OFFICE	HVT1	RB1	P8	P9	P9	P9
137	CLASSROOM	HVT1/PTF2	RB1	P1/ CWT2/3	P1/P6	P7	P1
137A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3	P18/ CWT2/3
137B	STORAGE	HVT1	RB1	P1	P1	P1	P1
138	KITCHEN	RES1	RES1	FRP1	FRP1	FRP1	FRP1
138A	T	PTF3	PWT4	P18	PWT4	P18	P18
139	T	PTF3	PWT4	P18	P18	P18	PWT4
140	CLASSROOM	HVT1/PTF2	RB1	P7	P1/P6	CWT2/3./P1	P1
140A	T	PTF2	--	CWT2/3	P18/ CWT2/3	CWT2/3./P18	P18/ CWT2/3
140B	STORAGE	HVT1	RB1	P1	P1	P1	P1
141	MECH	SC1	RB1	P1	P1	P1	P1
142	DATA	SV7	RB1	P1	P1	P1	P1
143	T	PTF3	PWT4	P18	P18	P18	PWT4
144	BREAK / WORK ROOM	HVT1	RB1	P9	P9	P9	P8
144A	ELEC	SC1	RB1	P1	P1	P1	P1
145	CUST	SC1	RB1	P1	P1	P1	P1
146	CLASSROOM	HVT1/PTF2	RB1	P1	P1/ CWT2/3	P1/P6	P7
146A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	CWT2/3
146B	STORAGE	HVT1	RB1	P1	P1	P1	P1
147	CLASSROOM	HVT1/PTF2	RB1	P1/P6	P1/ CWT2/3	P1	P7
147A	T	PTF2	--	P18/ CWT2/3	P18/ CWT2/3	CWT2/3./P18	CWT2/3
147B	STORAGE	HVT1	RB1	P1	P1	P1	P1
148	CLASSROOM	HVT1/PTF2	RB1	P1	P7	P1/P6	P1/ CWT2/3
148A	T	PTF2	--	P18/ CWT2/3	CWT2/3	CWT2/3./P18	P18/ CWT2/3
148B	CL	HVT1	RB1	P1	P1	P1	P1
149	CLASSROOM	HVT1/PTF2	RB1	P1/P6	P7	P1	P1/ CWT2/3
149A	T	PTF2	--	P18/ CWT2/3	CWT2/3	CWT2/3./P18	P18/ CWT2/3
149B	CL	HVT1	RB1	P1	P1	P1	P1
150	STORAGE	SC1	RB1	P1	P1	P1	P1

1 / A10.1 **FIRST FLOOR PLAN-AREA B FINISHES**
1/8" = 1'-0"

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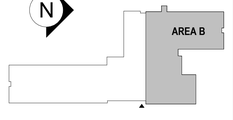
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

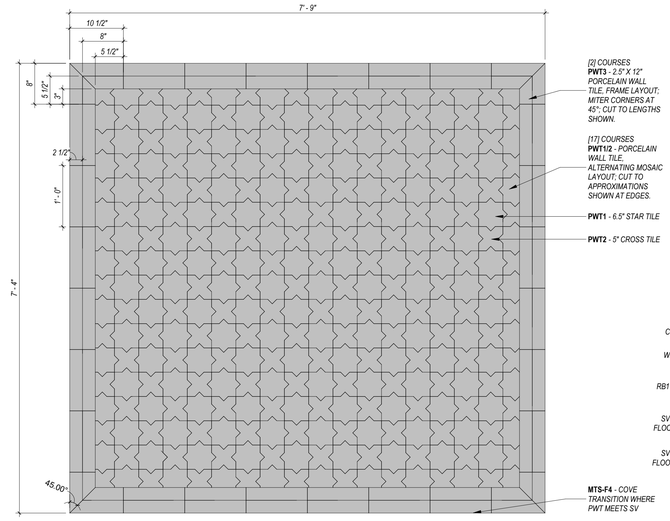
Revisions



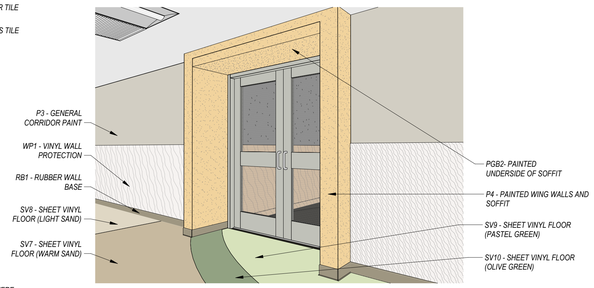
CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ENLARGED FINISH PLAN - AREA B

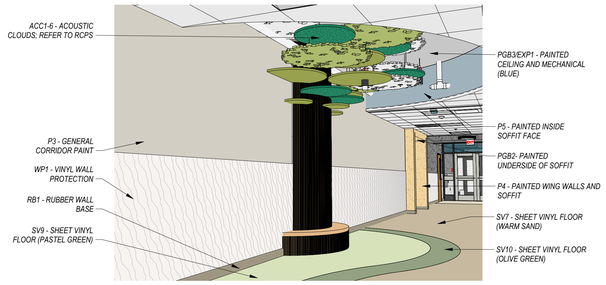
A10.1



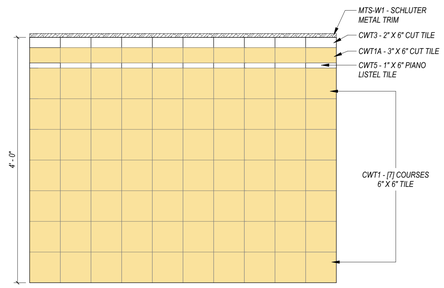
13 A10.2 **TYP. WATER FOUTAIN WALL TILE PATTERN**
1" = 1'-0"



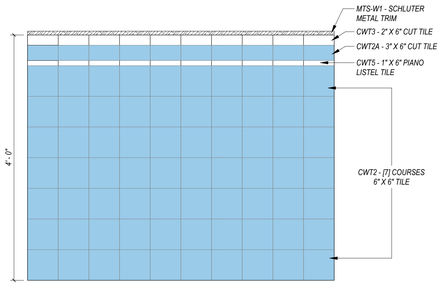
12 A10.2 **TYP. GROSS MOTOR ENTRANCE - MAIN ST**



11 A10.2 **TREE BENCH - MAIN ST**



10 A10.2 **RR/SINK WALL TILE - CLASSROOM WING A**
1" = 1'-0"



9 A10.2 **RR/SINK WALL TILE - CLASSROOM WING B**
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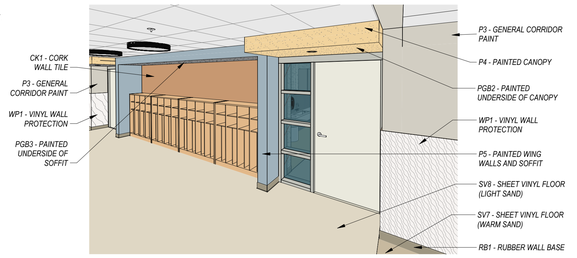
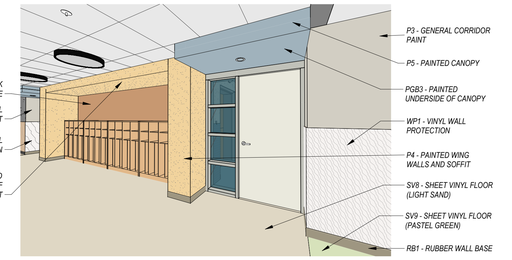
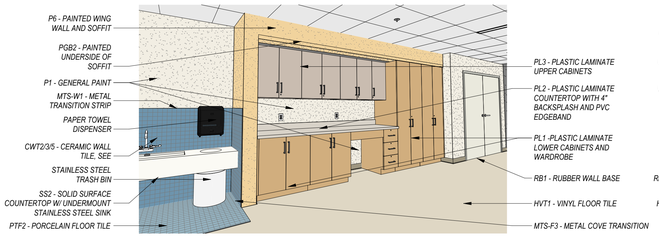


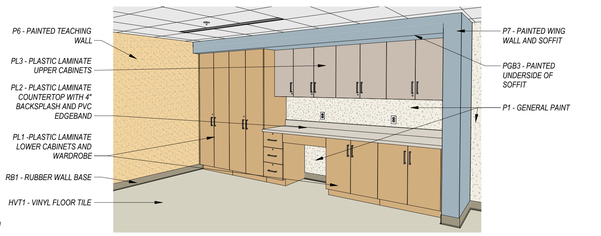
8 A10.2 **CUBBY ALCOVE - CLASSROOM WING A**



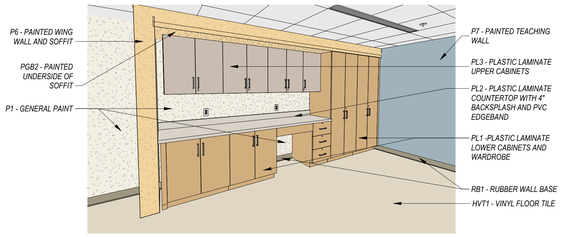
7 A10.2 **CUBBY ALCOVE - CLASSROOM WING B**



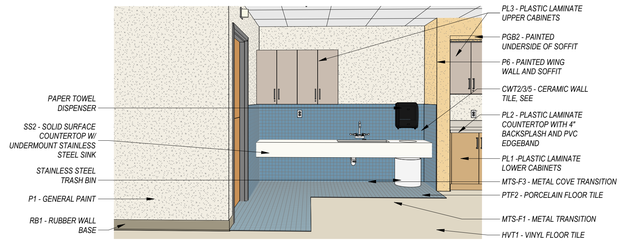
6 A10.2 **TYPICAL MILLWORK - CLASSROOMS 123/125**



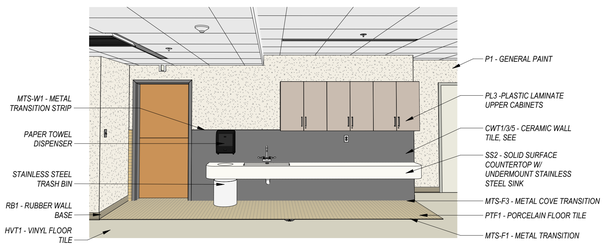
5 A10.2 **TYPICAL MILLWORK - CLASSROOM WING A**



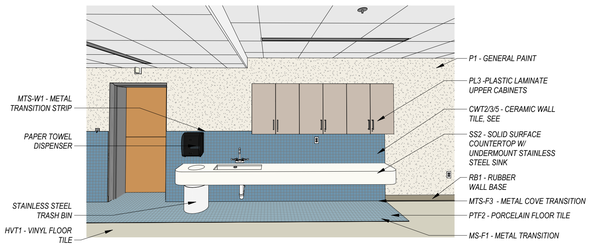
4 A10.2 **TYPICAL MILLWORK - CLASSROOM WING B**



3 A10.2 **RESTROOM MILLWORK - CLASSROOMS 123/125**



2 A10.2 **RESTROOM MILLWORK - CLASSROOM WING A**



1 A10.2 **RESTROOM MILLWORK - CLASSROOM WING B**

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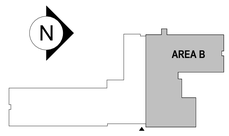
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:250064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FINISH DETAILS

A10.2

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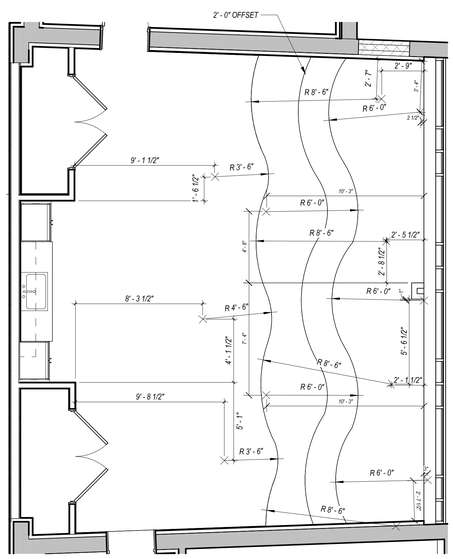
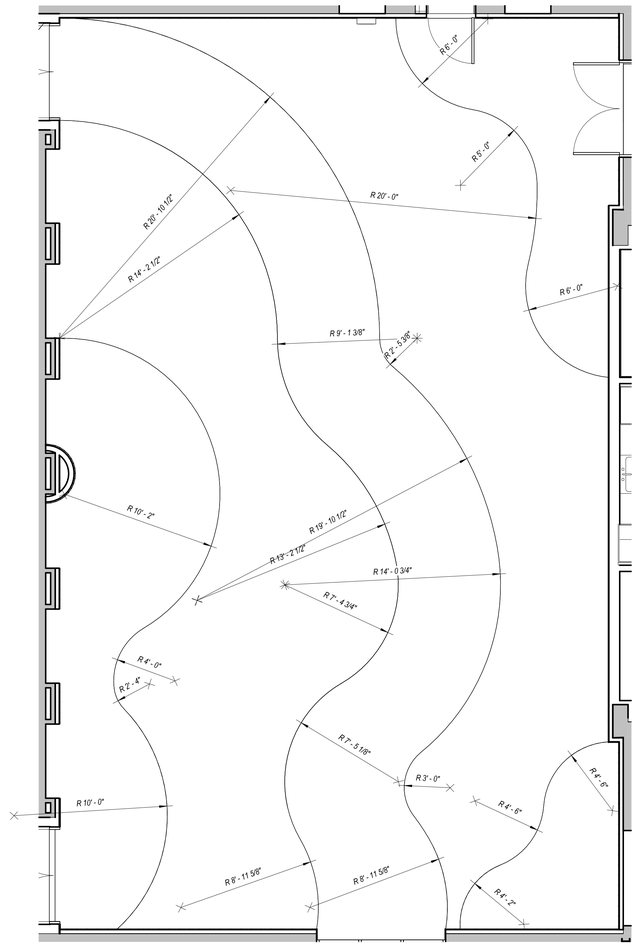
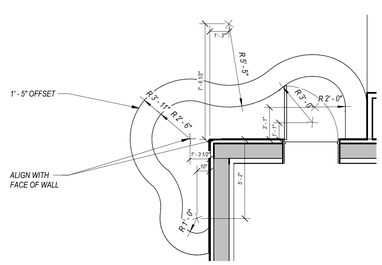


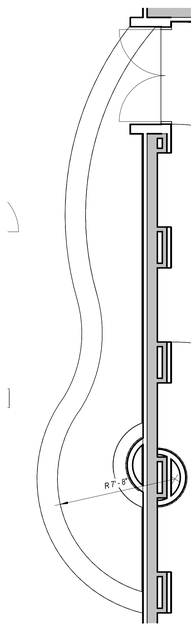
5 A10.3 **FLOOR PATTERN DETAIL - OT/PT**
1/4" = 1'-0"



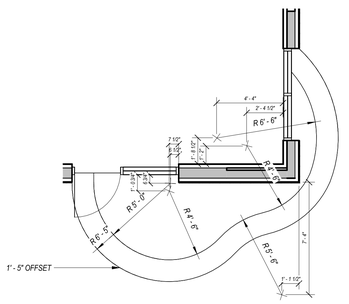
4 A10.3 **FLOOR PATTERN DETAIL - GROSS MOTOR**
1/4" = 1'-0"



3 A10.3 **FLOOR PATTERN DETAIL - CORRIDOR 3**
1/4" = 1'-0"



2 A10.3 **FLOOR PATTERN DETAIL - CORRIDOR 2**
1/4" = 1'-0"



1 A10.3 **FLOOR PATTERN DETAIL - CORRIDOR 1**
1/4" = 1'-0"

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RENOVATIONS TO:
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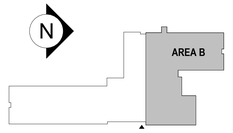
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

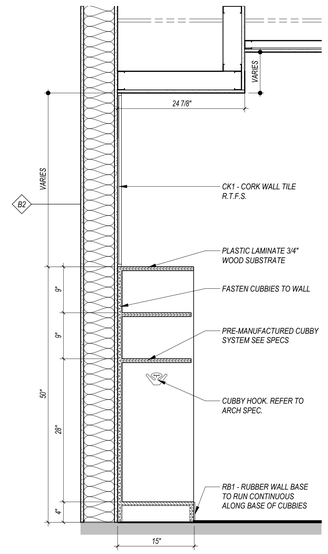
Revisions



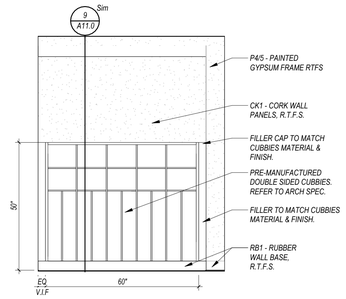
CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ENLARGED FLOOR PATTERN DETAILS

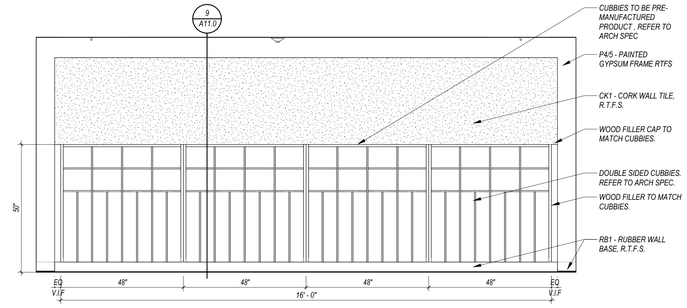
A10.3



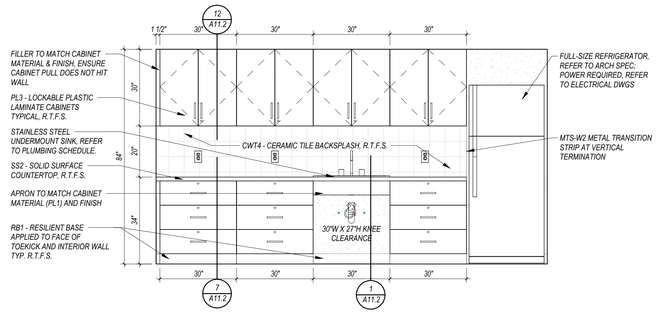
9 / A11.0 **CORRIDOR CUBBIES SECTION**
1" = 1'-0"



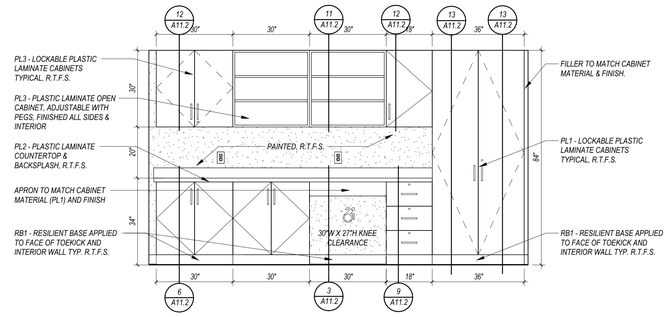
8 / A11.0 **TYPICAL CORRIDOR - CUBBIES ELEVATION 2**
1/2" = 1'-0"



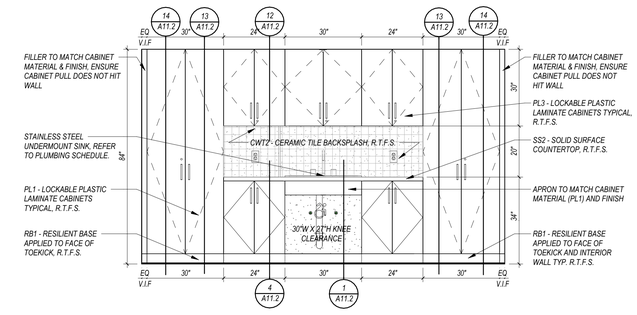
7 / A11.0 **TYPICAL CORRIDOR - CUBBIES ELEVATION 1**
1/2" = 1'-0"



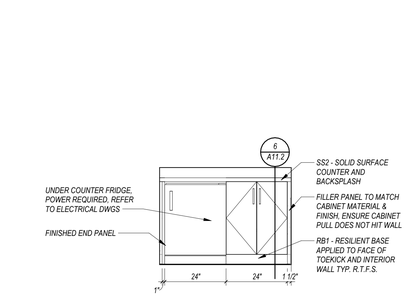
6 / A11.0 **BREAKROOM/WORKROOM - KITCHEN MILLWORK**
1/2" = 1'-0"



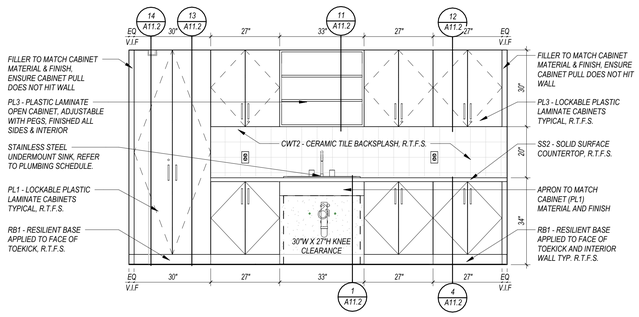
5 / A11.0 **BREAKROOM/WORKROOM - COPY MILLWORK**
1/2" = 1'-0"



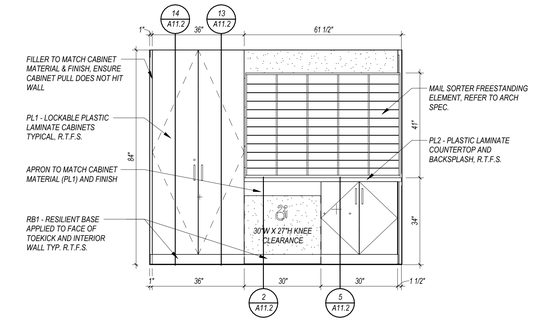
4 / A11.0 **OT/PT MILLWORK**
1/2" = 1'-0"



3 / A11.0 **NURSE 118- MILLWORK ELEVATION 2**
1/2" = 1'-0"



2 / A11.0 **NURSE 118- MILLWORK ELEVATION**
1/2" = 1'-0"



1 / A11.0 **ADMIN SUITE WORKROOM MILLWORK**
1/2" = 1'-0"

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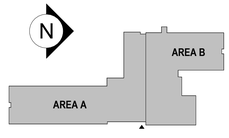
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

GENERAL MILLWORK ELEVATIONS

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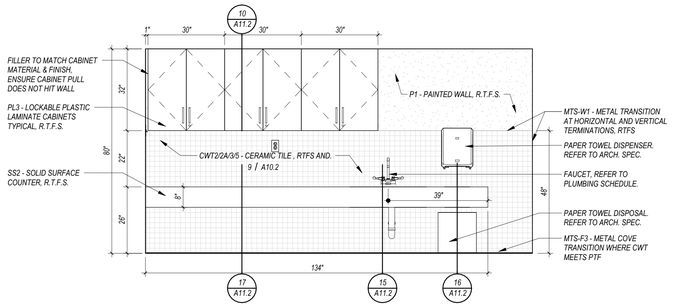
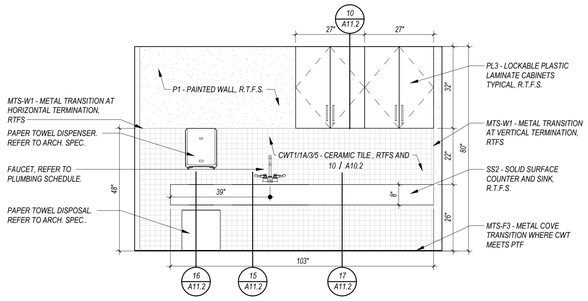


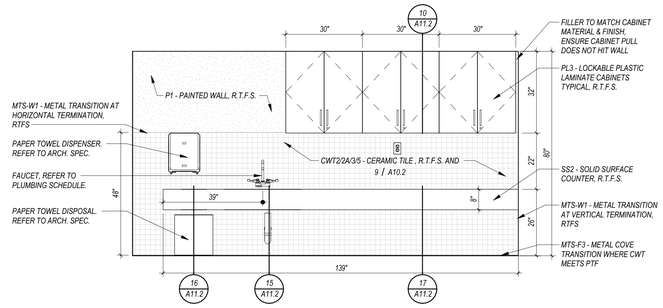
CLASSROOM WING B RMS 148-149 - SINK/MILLWORK

10 A11.1 1/2" = 1'-0"



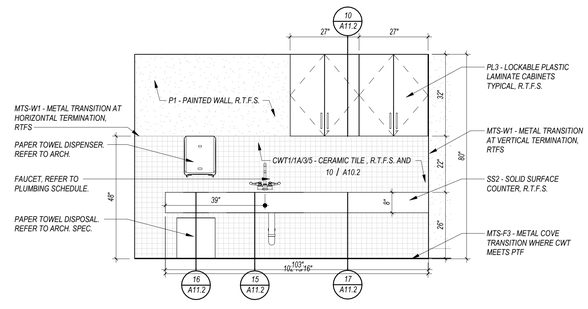
SELF CONTAINED CLASSROOM WING A RM 110 - SINK MILLWORK

6 A11.1 1/2" = 1'-0"



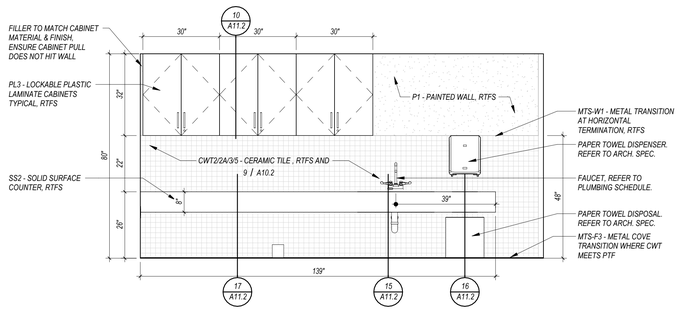
CLASSROOM WING B RMS 146-147 - SINK MILLWORK

9 A11.1 1/2" = 1'-0"



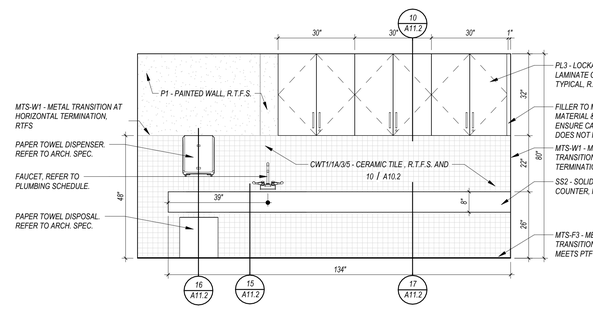
SELF CONTAINED CLASSROOM WING A RM 109 - SINK MILLWORK

5 A11.1 1/2" = 1'-0"



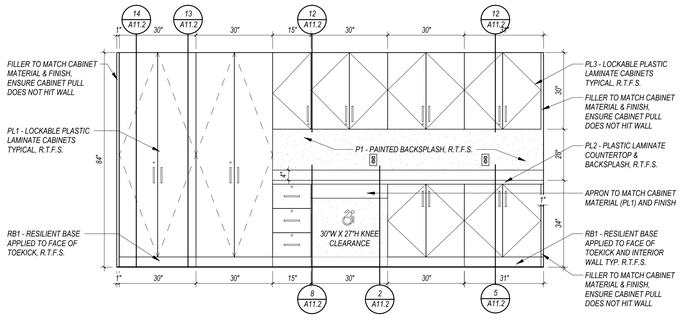
CLASSROOM WING B RMS 137-140 - SINK/MILLWORK

8 A11.1 1/2" = 1'-0"



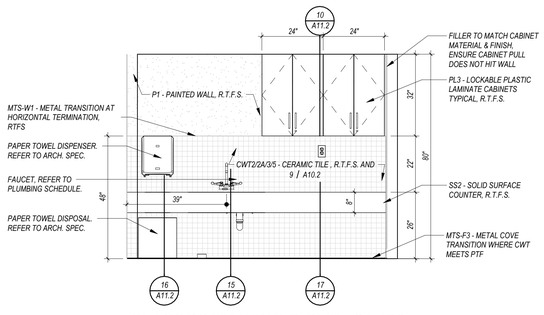
CLASSROOM WING A RMS 101-108 - SINK MILLWORK 2

4 A11.1 1/2" = 1'-0"



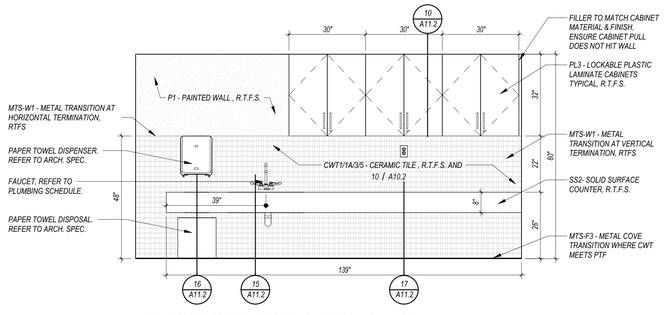
CLASSROOM WING B RMS 124/126 - 1 FILLER MILLWORK

2 A11.1 1/2" = 1'-0"



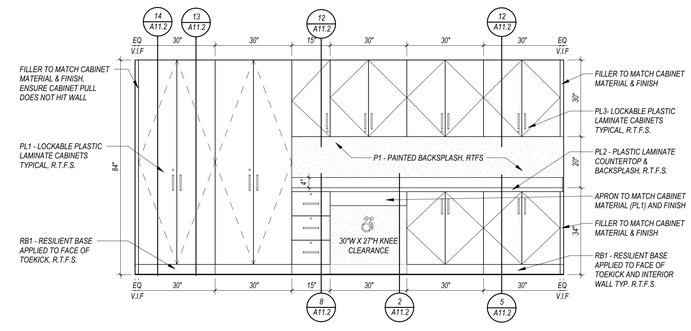
CLASSROOM WING B RMS 124-126 - SINK MILLWORK

7 A11.1 1/2" = 1'-0"



CLASSROOM WING A RMS 101-108 - SINK MILLWORK 1

3 A11.1 1/2" = 1'-0"



CLASSROOM WINGS A/B - 2 FILLER MILLWORK

1 A11.1 1/2" = 1'-0"

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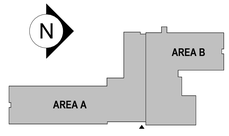
STATE OF CONNECTICUT
DAVID MALIK
NO. 9199
REGISTERED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

CLASSROOM MILLWORK ELEVATIONS

A11.1

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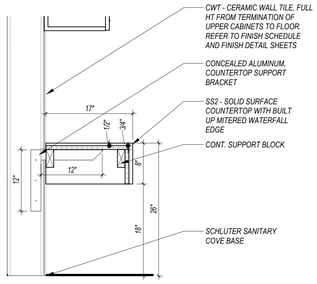
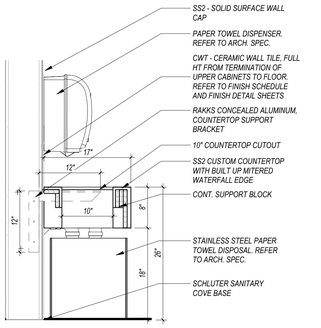


17 A11.2 TYPICAL CLASSROOM SINK MILLWORK 3
1" = 1'-0"



16 A11.2 TYPICAL CLASSROOM SINK MILLWORK 2
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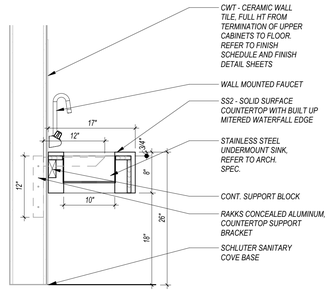
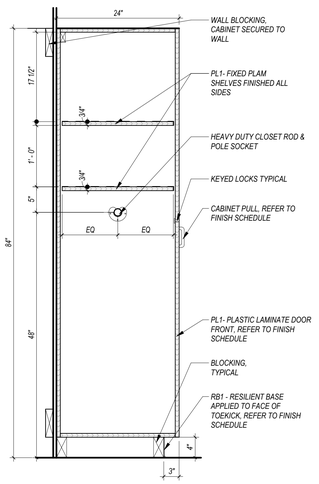
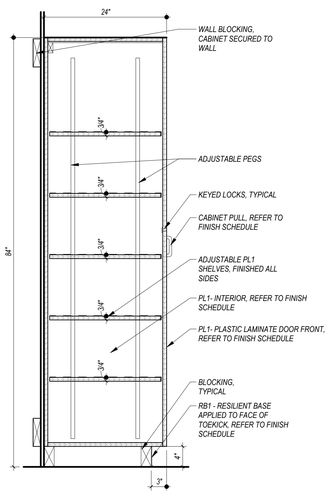


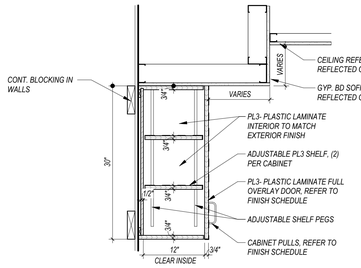
15 A11.2 TYPICAL CLASSROOM SINK MILLWORK 1
1" = 1'-0"



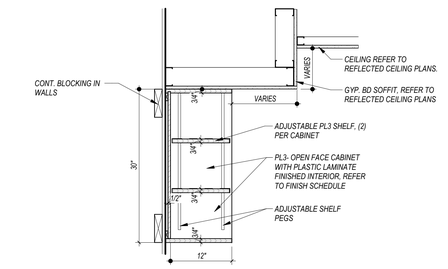
14 A11.2 TYPICAL TALL STORAGE CABINET ROD SIDE
1" = 1'-0"



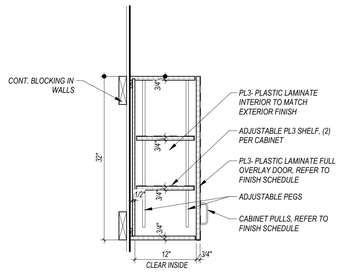
13 A11.2 TYP. TALL STORAGE CABINET
1" = 1'-0"



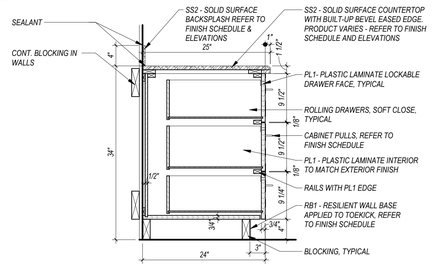
12 A11.2 TYP. UPPER CABINET W/ DOORS
1" = 1'-0"



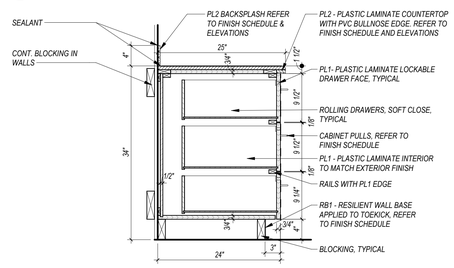
11 A11.2 TYP. UPPER CABINET W/ OPEN SHELVES
1" = 1'-0"



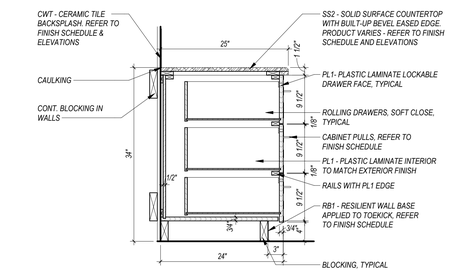
10 A11.2 TYP. UPPER CABINETS OVER SINK
1" = 1'-0"



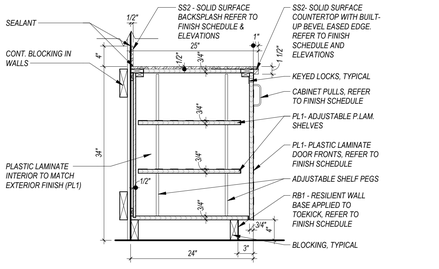
9 A11.2 TYP. 34" BASE CABINET 3-DRAWER (SOLID SURFACE BACKSPLASH)
1" = 1'-0"



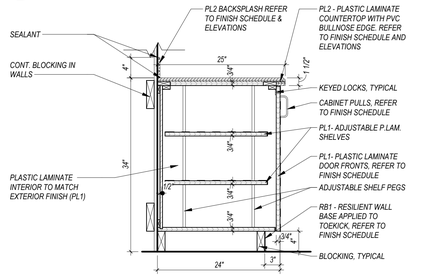
8 A11.2 TYP. 34" BASE CABINET 3-DRAWER (PLAM BACKSPLASH)
1" = 1'-0"



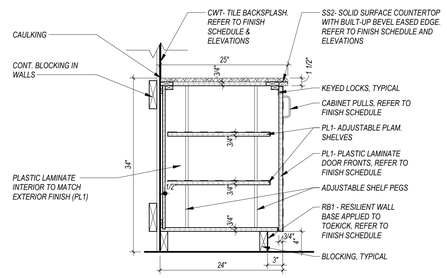
7 A11.2 TYP. 34" BASE CABINET 3-DRAWER (TILE BACKSPLASH)
1" = 1'-0"



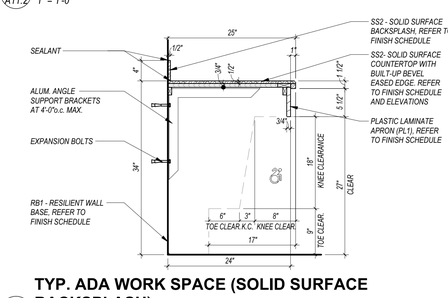
6 A11.2 TYP. 34" BASE CABINET W/SHELVES (SOLID SURFACE BACKSPLASH)
1" = 1'-0"



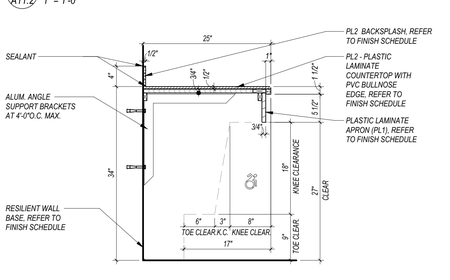
5 A11.2 TYP. 34" BASE CABINET W/ SHELVES (PLAM BACKSPLASH)
1" = 1'-0"



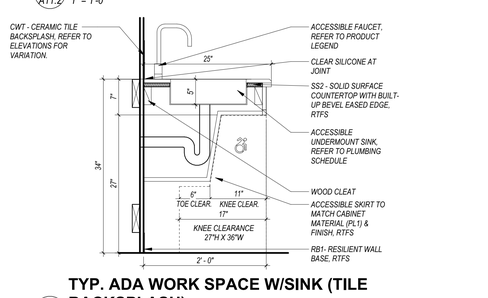
4 A11.2 TYP. 34" BASE CABINET W/SHELVES (TILE BACKSPLASH)
1" = 1'-0"



3 A11.2 TYP. ADA WORK SPACE (SOLID SURFACE BACKSPLASH)
1" = 1'-0"



2 A11.2 TYP. ADA WORK SPACE (PLAM BACKSPLASH)
1" = 1'-0"



1 A11.2 TYP. ADA WORK SPACE W/SINK (TILE BACKSPLASH)
1" = 1'-0"

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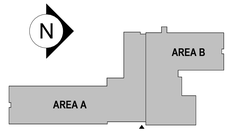
RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:250564

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MILLWORK DETAILS

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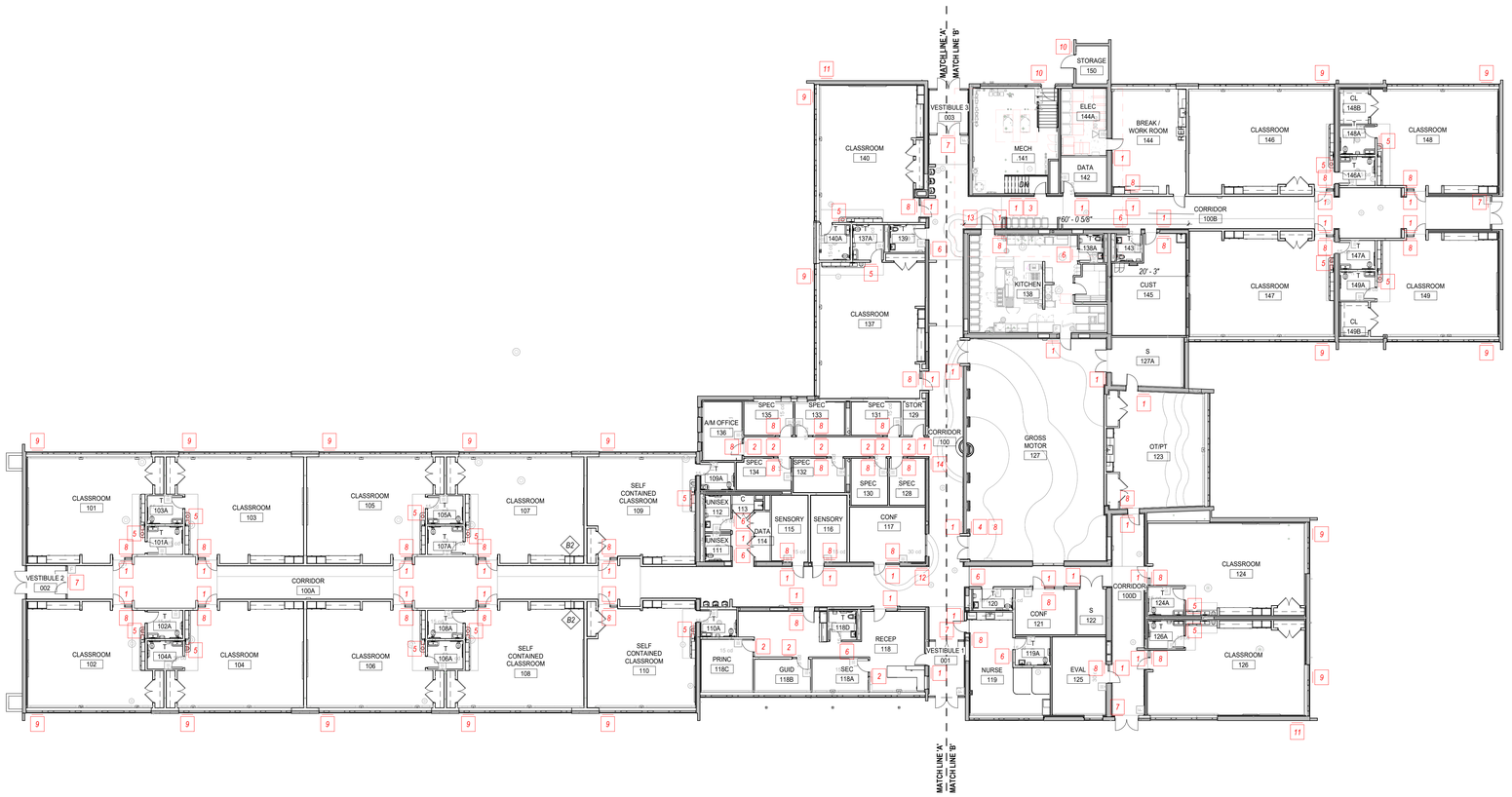

1 A12.0 **OVERALL FIRST FLOOR SIGNAGE PLAN**

1/16" = 1'-0"

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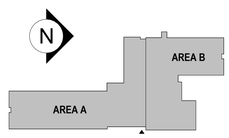
RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

SIGNAGE PLANS

A12.0

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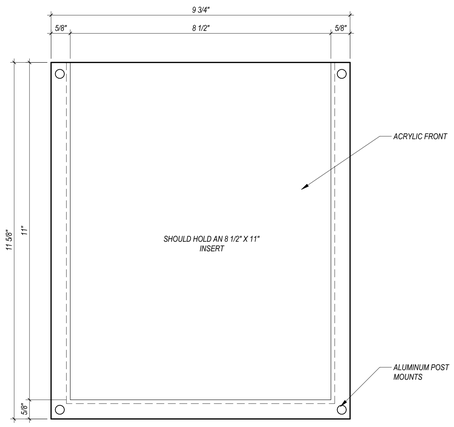
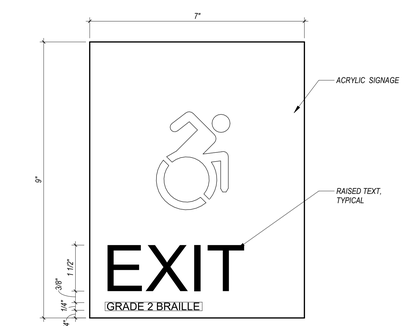
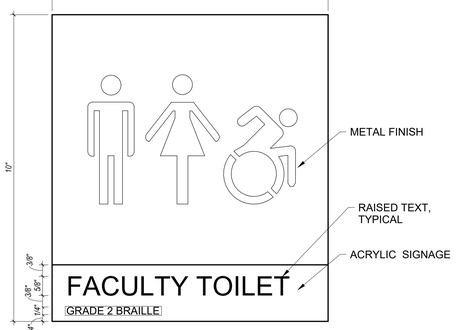


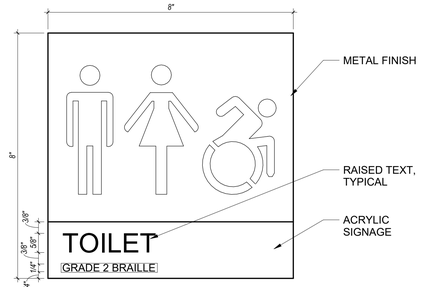
8 A12.1 **SIGN 08 - TYPICAL PAPER INSERT SIGNAGE**
6" = 1'-0"



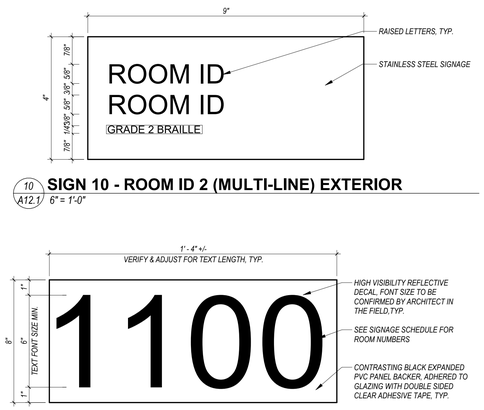
7 A12.1 **SIGN 07 - INTERIOR HA/ EXIT**
6" = 1'-0"



6 A12.1 **SIGN 06 - FACULTY TOILET**
6" = 1'-0"



5 A12.1 **SIGN 05- TOILET**
6" = 1'-0"



10 A12.1 **SIGN 10 - ROOM ID 2 (MULTI-LINE) EXTERIOR**
6" = 1'-0"

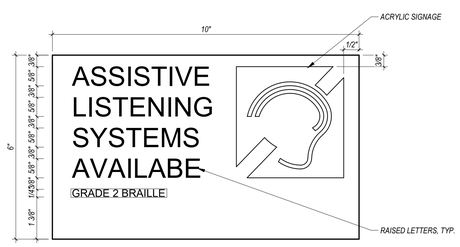
9 A12.1 **SIGN 09 - WINDOW ID - REFLECTIVE VINYL SIGN**
3" = 1'-0"

E D G E W O O D

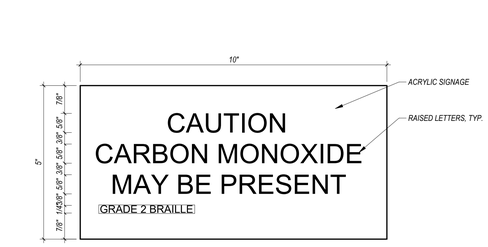
REFER TO SIGNAGE ELEVATIONS FOR SCHEDULE FOR TEXT SIZE

RAISED LETTERS ON STAND-OFFS, TYPICAL, POWDER COATED FINISH. NOTE: SPACES WITH VERTICAL SIGNAGE ORIENTATION NOT TO USE STAND-OFFS

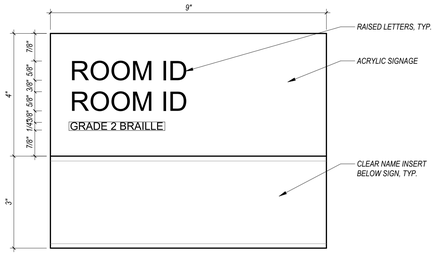
11 A12.1 **SIGN 11 - POST MOUNTED**
3" = 1'-0"



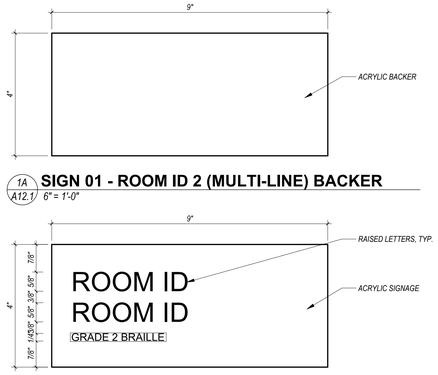
4 A12.1 **SIGN 04 - ASSISTIVE LISTENING SYSTEM**
6" = 1'-0"



3 A12.1 **SIGN 03 - INTERIOR CARBON MONOXIDE**
6" = 1'-0"



2 A12.1 **SIGN 02 - ROOM ID 2 (MULTI-LINE) WITH INSERT**
6" = 1'-0"



1A A12.1 **SIGN 01 - ROOM ID 2 (MULTI-LINE) BACKER**
6" = 1'-0"

1 A12.1 **SIGN 01 - ROOM ID 2 (MULTI-LINE) FRONT**
6" = 1'-0"

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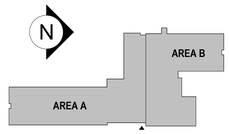
STATE OF CONNECTICUT
MARK LANE
REG. 31937
REG. 9193
REGISTERED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

SIGNAGE SKETCHES

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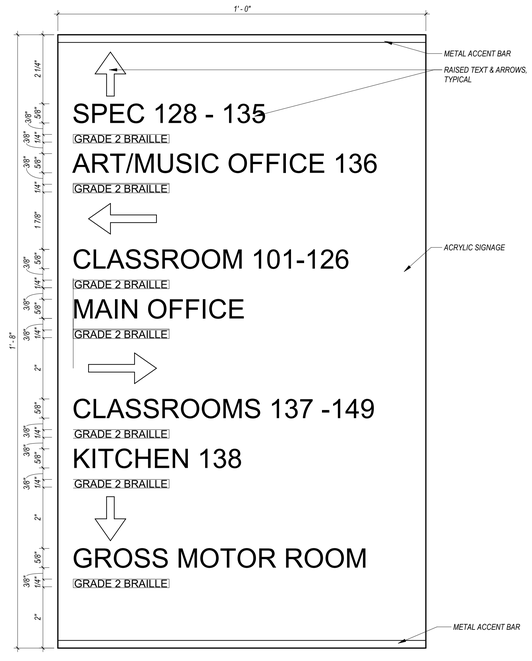
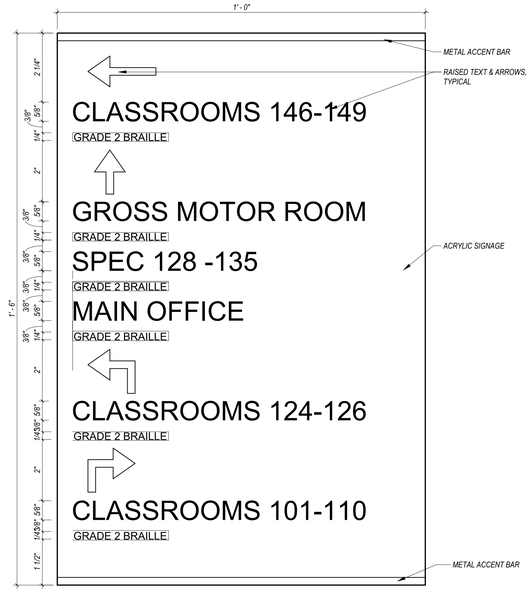
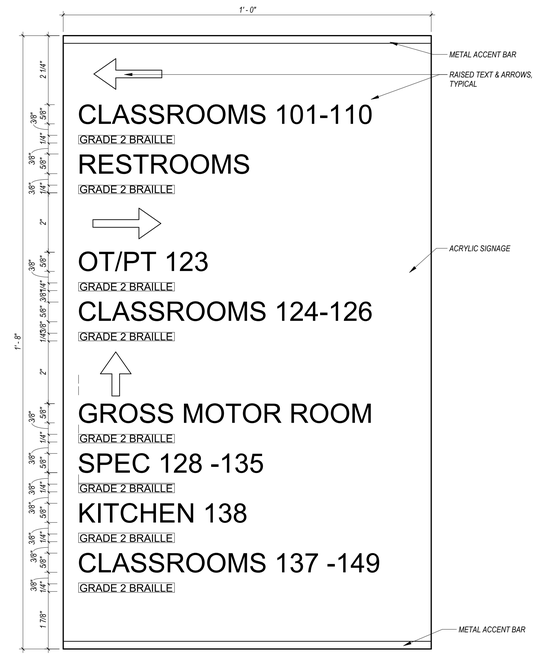


3 A12.2 **SIGN 14 - DIRECTIONAL SIGN**
6" = 1'-0"



2 A12.2 **SIGN 13 - DIRECTIONAL SIGN**
6" = 1'-0"



1 A12.2 **SIGN 12 - DIRECTIONAL SIGN**
6" = 1'-0"

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STATE OF CONNECTICUT · REG. 9199 · REGISTERED ARCHITECT

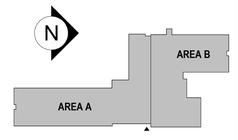
RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

SIGNAGE SKETCHES

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SIGNAGE SCHEDULE

ROOM # ON PLAN	ARCHITECTURAL PLAN ROOM NAME	ROOM NUMBER/ TEXT DISPLAYED ON SIGN	QTY	SIGN TYPE	MATERIAL	REMARKS
NOTE: FINAL ROOM ID (ROOM NAME, NUMBER, AND SYMBOLS) AND MOUNTING LOCATIONS TO BE CONFIRMED WITH COMMITTEE PRIOR TO FABRICATION						
MAIN LEVEL ROOM SIGNAGE						
	T	TOILET	1	6	ACRYLIC SIGNAGE	
139	T	TOILET	1	6	ACRYLIC SIGNAGE	
140	CLASSROOM	CLASSROOM 140	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	140	1	9	ACRYLIC SIGNAGE	
141	MECH	MECHANICAL	1	1	ACRYLIC SIGNAGE	
	MECH	MECHANICAL	1	3	ACRYLIC SIGNAGE	
	MECH	MECHANICAL	1	10	STAINLESS STEEL SIGNAGE	
142	DATA	DATA	1	1	ACRYLIC SIGNAGE	
143	T	TOILET	1	6	ACRYLIC SIGNAGE	
144	BREAK/ WORK ROOM	BREAK ROOM 144	1	1	ACRYLIC SIGNAGE	
	BREAK/ WORK ROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	
144A	ELEC	ELECTRICAL	1	1	ACRYLIC SIGNAGE	
145	CUST	CUSTODIAN	1	1	ACRYLIC SIGNAGE	
	CUST	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	
146	CLASSROOM	CLASSROOM 146	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	146	1	9	ACRYLIC SIGNAGE	
147	CLASSROOM	CLASSROOM 147	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	147	1	9	ACRYLIC SIGNAGE	
148	CLASSROOM	CLASSROOM 148	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	148	1	9	ACRYLIC SIGNAGE	
149	CLASSROOM	CLASSROOM 149	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	149	1	9	ACRYLIC SIGNAGE	
150	STORAGE	STORAGE	1	10	STAINLESS STEEL SIGNAGE	

SIGNAGE SCHEDULE

ROOM # ON PLAN	ARCHITECTURAL PLAN ROOM NAME	ROOM NUMBER/ TEXT DISPLAYED ON SIGN	QTY	SIGN TYPE	MATERIAL	REMARKS
NOTE: FINAL ROOM ID (ROOM NAME, NUMBER, AND SYMBOLS) AND MOUNTING LOCATIONS TO BE CONFIRMED WITH COMMITTEE PRIOR TO FABRICATION						
MAIN LEVEL CORRIDOR SIGNAGE						
100	CORRIDOR	EXIT	2	7	ACRYLIC SIGNAGE	
	CORRIDOR	DIRECTIONAL	1	12	ACRYLIC SIGNAGE	
	CORRIDOR	DIRECTIONAL	1	13	ACRYLIC SIGNAGE	
	CORRIDOR	DIRECTIONAL	1	14	ACRYLIC SIGNAGE	
100A	CORRIDOR	EXIT	1	7	ACRYLIC SIGNAGE	
100B	CORRIDOR	EXIT	1	7	ACRYLIC SIGNAGE	
100C	CORRIDOR	EXIT	1	7	ACRYLIC SIGNAGE	

SIGNAGE SCHEDULE

ROOM # ON PLAN	ARCHITECTURAL PLAN ROOM NAME	ROOM NUMBER/ TEXT DISPLAYED ON SIGN	QTY	SIGN TYPE	MATERIAL	REMARKS
NOTE: FINAL ROOM ID (ROOM NAME, NUMBER, AND SYMBOLS) AND MOUNTING LOCATIONS TO BE CONFIRMED WITH COMMITTEE PRIOR TO FABRICATION						
EXTERIOR BUILDING SIGNAGE						
EXTERIOR	EAST FACADE	EDGEWOOD	1	11	ALUMINUM DIMENSIONAL SIGNAGE	
	WEST FACADE	EDGEWOOD	1	11	ALUMINUM DIMENSIONAL SIGNAGE	

SIGNAGE SCHEDULE

ROOM # ON PLAN	ARCHITECTURAL PLAN ROOM NAME	ROOM NUMBER/ TEXT DISPLAYED ON SIGN	QTY	SIGN TYPE	MATERIAL	REMARKS
NOTE: FINAL ROOM ID (ROOM NAME, NUMBER, AND SYMBOLS) AND MOUNTING LOCATIONS TO BE CONFIRMED WITH COMMITTEE PRIOR TO FABRICATION						
MAIN LEVEL ROOM SIGNAGE						
	RECEP	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	SEC	SECRETARY 118A	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	GUID	GUIDANCE COUNSELOR 118B	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	PRINC	PRINCIPAL OFFICE 118C	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	T	TOILET	1	6	ACRYLIC SIGNAGE	
119	NURSE	NURSE 119	1	1	ACRYLIC SIGNAGE	
	NURSE	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	6	ACRYLIC SIGNAGE	
120	T	TOILET	1	6	ACRYLIC SIGNAGE	
121	CONF	CONFERENCE ROOM 121	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CONF	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
122	S	STORAGE	1	1	ACRYLIC SIGNAGE	
123	OT/PT	OT/PT 123	1	1	ACRYLIC SIGNAGE	
	OT/PT	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
124	CLASSROOM	CLASSROOM 124	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	124	1	9	ACRYLIC SIGNAGE	
125	EVAL	EVALUATION 125	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	EVAL	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
126	CLASSROOM	CLASSROOM 126	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	126	1	9	ACRYLIC SIGNAGE	
127	GROSS MOTOR	GROSS MOTOR 127	2	1	ACRYLIC SIGNAGE	
	GROSS MOTOR	ASSISTIVE LISTENING SYSTEM	1	4	ACRYLIC SIGNAGE	
	GROSS MOTOR	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	S	STORAGE	2	1	ACRYLIC SIGNAGE	
128	SPEC	SPECIAL EDUCATION 128	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
129	STOR	STORAGE	1	1	ACRYLIC SIGNAGE	
130	SPEC	SPECIAL EDUCATION 130	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
131	SPEC	SPECIAL EDUCATION 131	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
132	SPEC	SPECIAL EDUCATION 132	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
133	SPEC	SPECIAL EDUCATION 133	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
134	SPEC	SPECIAL EDUCATION 134	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
135	SPEC	SPECIAL EDUCATION 135	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	SPEC	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
136	A/M OFFICE	ART/ MUSIC OFFICE 136	1	2	ACRYLIC SIGNAGE	PROVIDE PAPER NAME INSERT
	A/M OFFICE	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
137	CLASSROOM	CLASSROOM 137	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	137	1	9	ACRYLIC SIGNAGE	
138	KITCHEN	KITCHEN 138	2	1	ACRYLIC SIGNAGE	
	KITCHEN	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT

SIGNAGE SCHEDULE

ROOM # ON PLAN	ARCHITECTURAL PLAN ROOM NAME	ROOM NUMBER/ TEXT DISPLAYED ON SIGN	QTY	SIGN TYPE	MATERIAL	REMARKS
NOTE: FINAL ROOM ID (ROOM NAME, NUMBER, AND SYMBOLS) AND MOUNTING LOCATIONS TO BE CONFIRMED WITH COMMITTEE PRIOR TO FABRICATION						
MAIN LEVEL ROOM SIGNAGE						
101	CLASSROOM	CLASSROOM 101	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	101	1	9	ACRYLIC SIGNAGE	
102	CLASSROOM	CLASSROOM 102	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	102	1	9	ACRYLIC SIGNAGE	
103	CLASSROOM	CLASSROOM 103	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	103	1	9	ACRYLIC SIGNAGE	
104	CLASSROOM	CLASSROOM 104	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	104	1	9	ACRYLIC SIGNAGE	
105	CLASSROOM	CLASSROOM 105	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	105	1	9	ACRYLIC SIGNAGE	
106	CLASSROOM	CLASSROOM 106	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	106	1	9	ACRYLIC SIGNAGE	
107	CLASSROOM	CLASSROOM 107	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	107	1	9	ACRYLIC SIGNAGE	
108	SELF CONTAINED CLASSROOM	CLASSROOM 108	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	108	1	9	ACRYLIC SIGNAGE	
109	SELF CONTAINED CLASSROOM	CLASSROOM 109	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	109	1	9	ACRYLIC SIGNAGE	
110	SELF CONTAINED CLASSROOM	CLASSROOM 110	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CLASSROOM	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
	T	TOILET	1	5	ACRYLIC SIGNAGE	
	EXTERIOR	110	1	9	ACRYLIC SIGNAGE	
111	UNISEX	FACULTY TOILET	1	6	ACRYLIC SIGNAGE	
112	UNISEX	FACULTY TOILET	1	6	ACRYLIC SIGNAGE	
113	C	CUSTODIAN	1	1	ACRYLIC SIGNAGE	
114	DATA	DATA	1	1	ACRYLIC SIGNAGE	
115	SENSORY	SENSORY 115	1	1	ACRYLIC SIGNAGE	
	SENSORY	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
116	SENSORY	SENSORY 116	1	1	ACRYLIC SIGNAGE	
	SENSORY	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
117	CONF	CONFERENCE ROOM 117	1	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE
	CONF	EXIT ROUTE	1	8	ACRYLIC SIGNAGE	PROVIDE EXIT ROUTE PAPER INSERT
118	RECEP	MAIN OFFICE 118	3	1	ACRYLIC SIGNAGE	MOUNTED TO SIDELIGHT GLASS, PROVIDE BACK PLATE ON OPPOSITE SIDE

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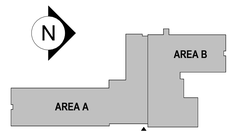

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

SIGNAGE SCHEDULE

A12.3

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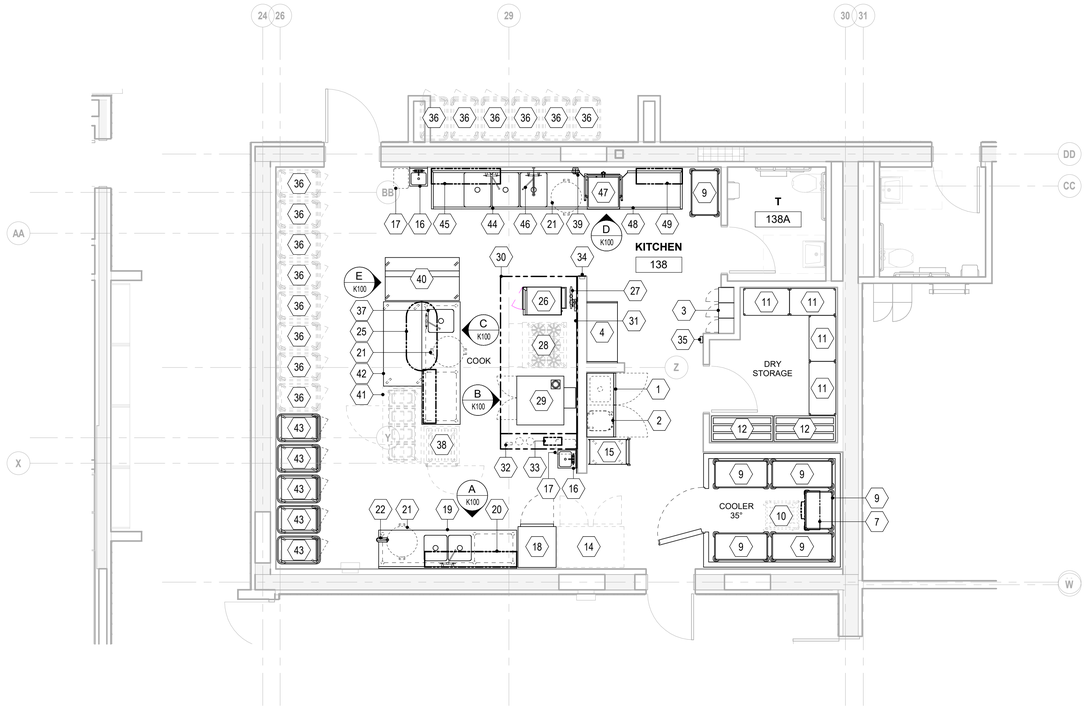
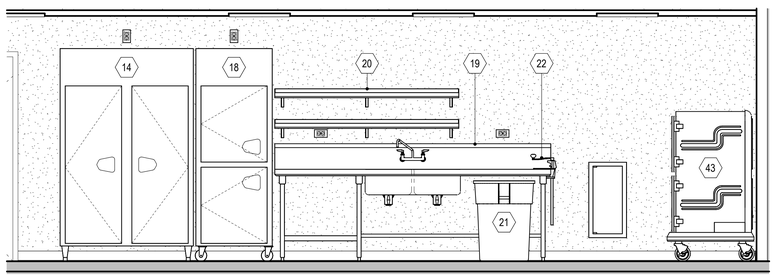


FOODSERVICE EQUIPMENT PLAN

1/4" = 1'-0"

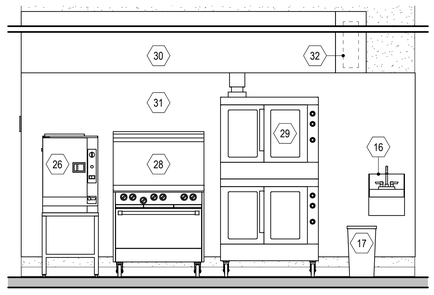
SCHEDULE OF FOODSERVICE EQUIPMENT & CONNECTIONS

Item	Qty	Description	Plumbing	Electrical	Mechanical / Equipment Remarks
1	1	Mop Sink Cabinet	1/2" H&CW; Drain in Floor		Requires wall blocking by GC (See Special Conditions Plans)
2	1	Mop Bucket (by Owner)			
3	3	Staff Locker, Two-Tier (by GC)			Requires wall blocking by GC (See Special Conditions Plans)
4	1	Office Desk (by GC)		20 A circuit - 120/1 wall mounted convenience DR by EC	Provide Data Receptacle
5	1	Walk-In Cooler		1.1 KW - 120/1 (lights, temp. monitoring/alarm, etc); Low voltage wiring from temperature monitor to BMS	Requires floor leveling by GC (See Special Conditions Plan)
6	1	Mechanical Refrigeration System			
7	1	Cooler Evaporator Coil	3/4" IW to FD by KEC	0.85 A - 120/1; Low voltage wiring from evaporator to BMS	Remote refrigeration from Item 8 by KEC
8	1	Cooler Condensing Unit		5.4 A - 0.5 HP - 208/1	Located on Roof per Detail 1/K101
9	6	Mobile Shelving Unit, Four-Tier			
10	1	EXISTING Bun Pan Rack			
11	4	Storage Shelving, Five-Tier			
12	2	Dunnage Rack			
13	1	-Spare Number-			
14	1	EXISTING Reach-In Freezer		11.2 A - 120/1 - C&P	
15	1	Utility Cart			
16	2	Hand Sink	1/2" H&CW; 1-1/2" W		Requires wall blocking by GC (See Special Conditions Plans)
17	2	Waste Bin (by Owner)			
18	1	Reach-in Freezer		9.7 A - 120/1 - C&P	
19	1	Prep Table with Sinks	1/2" H&CW; 2" IW to FS	(2) 20 A circuit - 120/1 wall mounted convenience DR by EC	
20	2	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)
21	3	Waste Barrel (by Owner)			
22	1	Can Opener			
23	1	-Spare Number-			
24	1	-Spare Number-			
25	1	Ceiling Mounted Utensil Rack			Requires ceiling support by GC
26	1	Countertop Six Pan Steamer	1/2" G @ 32 MBTU; (2) 3/4" CW; 1-1/2" IW to FS	4 A - 120/1	
27	1	Water Filter Assembly	3/4" CW		Requires wall blocking by GC (See Special Conditions Plan)
28	1	EXISTING Six-Burner Range	3/4" G @ 230 MBTU; QD	2 A - 120/1 - C&P	
29	1	Double Convection Oven	3/4" G @ 100 MBTU; QD	(2) 8 A - 120/1 - C&P	
30	1	Exhaust Hood		Power to lights from Item 33	EXH: 2,200 CFM thru a 14" dia. collar @ -0.969 SP; Coordinate support from structure above for hood hangers by KEC
31	1	Stainless Steel Wall Flashing			
32	1	Fire Suppression System		120/1; J-box for to building alarm system & equipment shutdown	Protection for Item 30; Mounted in hood cabinet
33	1	Hood Auto-Start Control System		15 A circuit - 120/1 (See Note E-33 / K101)	Control for Item 30; Mounted in hood cabinet
34	1	Auto-Start Control Interface		Cable from Item 33	
35	1	Room Temperature Sensor		Wiring from Item 33	
36	14	EXISTING Insulated Food Carrier			
37	1	Cook's Table with Sink	1/2" H&CW; 2" IW to FS	(4) 20 A circuit - 120/1 table mounted convenience DR by KEC	
38	1	EXISTING Hot Holding Cabinet		2 KW - 120/1 - C&P (power from item 37)	
39	1	Water Filter Assembly, Warewasher	3/4" HW		Requires wall blocking by GC (See Special Conditions Plan)
40	1	Milk Cooler		3.3 A - 120/1 - C&P (power from item 37)	
41	1	EXISTING Heated Serving Counter		26 A - 120/208/1 (NEMA 14-50P) (mounted in table #37)	
42	1	Mobile Work Table			
43	5	Insulated Food Carrier			
44	1	Three Compartment Sink	3/4" 120°F H&CW; (3) 2" IW to FS		
45	1	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)
46	1	Pre-Rinse Assembly with Add-on Faucet	3/4 H&CW		Requires wall blocking by GC (See Special Conditions Plan)
47	1	Ventless Warewasher	1/2" H&CW; 3/4" IW to FS	53.7 A - 208/3 (single point connection)	6,800 BTU/HR Latent Heat; 5,000 BTU/HR Sensible Heat
48	1	Clean Dishtable			
49	1	Wall Shelf			Requires wall blocking by GC (See Special Conditions Plan)



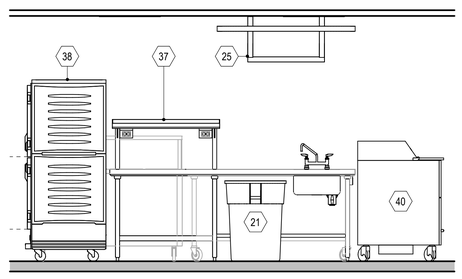
Elevation - Food Prep

1/2" = 1'-0"



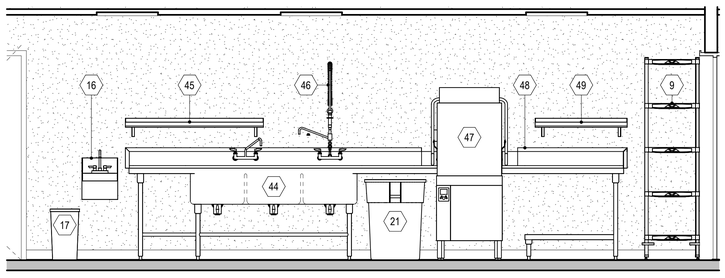
Elevation - Cookline

1/2" = 1'-0"



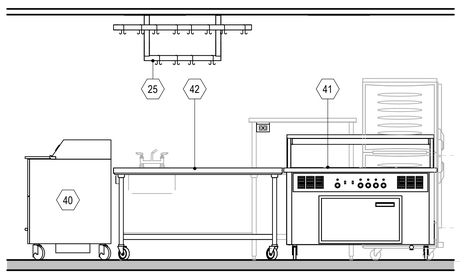
Elevation - Cook's Table

1/2" = 1'-0"



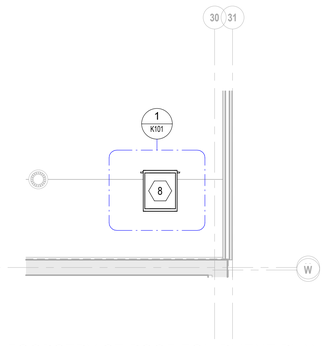
Elevation - Warewashing

1/2" = 1'-0"



Elevation - Tray Make-up

1/2" = 1'-0"



FOODSERVICE ROOF EQUIPMENT PLAN

1/4" = 1'-0"

Abbreviations used:

A	Amperes	EXH	Exhaust	KW	Kilowatt
AFF	Above finished floor	FD	Floor drain	MBTU	BTU per hour/1000
ATC	Automatic Temp. Controls Contractor	FFD	Funnel floor drain	MC	Mechanical Contractor
		FHW	Fahrenheit hot water	MUA	Make-up air
BFF	Below finished floor	FS	Floor sink	PC	Plumbing Contractor
BTC	Branch to connection	G	Gas	QD	Quick disconnect
C&P	Cord & plug provided	GC	General Contractor	SP	Static pressure (WG)
CFM	Cubic feet per minute	GI	Grease interceptor	SR	Single receptacle
CR	Condensate return	HP	Horsepower	SS	Steam supply
CW	Cold water	HW	Hot water	W	Waste (direct conn.)
DFA	Drop from above	H&CW	Hot & cold water		
DR	Duplex receptacle	IW	Indirect Waste		
EC	Electrical contractor	KEC	Kitchen Equip. Contractor		

SCHEDULE NOTES

1) UTILITIES SHOWN IN THESE SCHEDULES ARE SPECIFIC TO THE PRIME MANUFACTURER LISTED IN THE WRITTEN SPECIFICATION SECTION 114000. IF EQUIPMENT FROM AN ALTERNATE MANUFACTURER IS PROVIDED, IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE AND SUBMIT TO THE PROJECT DESIGN TEAM FOR REVIEW.

2) UTILITIES LISTED ON THIS SCHEDULE FOR OWNER FURNISHED OR VENDOR SUPPLIED EQUIPMENT ARE ESTIMATES ASSUMED FOR ENGINEERING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE EQUIPMENT CUT SHEETS OF THIS EQUIPMENT TO CRABTREE-MCGRATH ASSOCIATES PRIOR TO CONSTRUCTION.

3) INSTALLING SUB-CONTRACTORS MUST NOTIFY CRABTREE-MCGRATH ASSOCIATES IF A UTILITY REQUIREMENT LISTED ON THIS EQUIPMENT SCHEDULE IS NOT AVAILABLE.

4) REFER TO THE ABBREVIATIONS NOTES PROVIDED ON THIS SHEET FOR CLARIFICATION OF ABBREVIATIONS USED WITHIN THIS EQUIPMENT SCHEDULE.

PLAN NOTES

1) IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO FIELD VERIFY THE DELIVERY PATH OF ALL EQUIPMENT WITHIN THEIR SCOPE WITH BUILDING CONDITIONS PRIOR TO ORDERING TO CONFIRM ALL EQUIPMENT FITS WITHIN THE DESIGNATED SPACE AS LOCATED ON PLANS.

2) KITCHEN EQUIPMENT CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS NECESSARY FOR OPENINGS IN BUILDING, WALL LEAVE OUTS, DOOR WIDTHS AND HEADER HEIGHTS REQUIRED FOR DELIVERY AND INSTALLATION MEANS.

3) FINISHES TO ALL WALLS, FLOORS AND CEILINGS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR AS SPECIFIED BY THE PROJECT ARCHITECT TO MEET THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.

4) REVISIONS TO THESE PLANS DUE TO FIELD CONDITIONS MUST BE SUBMITTED TO THE PROJECT DESIGN TEAM FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.

5) FLOORING MATERIAL SPECIFIED BY THE ARCHITECT MUST BE PROVIDED WITH A COVED BASE AT ALL WALLS TO INCLUDE THE INTERIOR AND EXTERIOR OF WALK-IN REFRIGERATED ROOMS.

6) ALL FOODSERVICE EQUIPMENT AND CUSTOM FABRICATED ITEMS MUST MEET THE STANDARDS OF THE NATIONAL SANITATION FOUNDATION AND SHALL BE LABELED ACCORDINGLY.

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STATE OF CONNECTICUT
JOHN ARCARI
REG. #19
LICENSED ARCHITECT

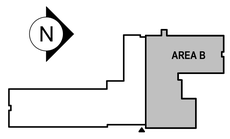
RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FOODSERVICE EQUIPMENT PLAN & SCHEDULE

K100

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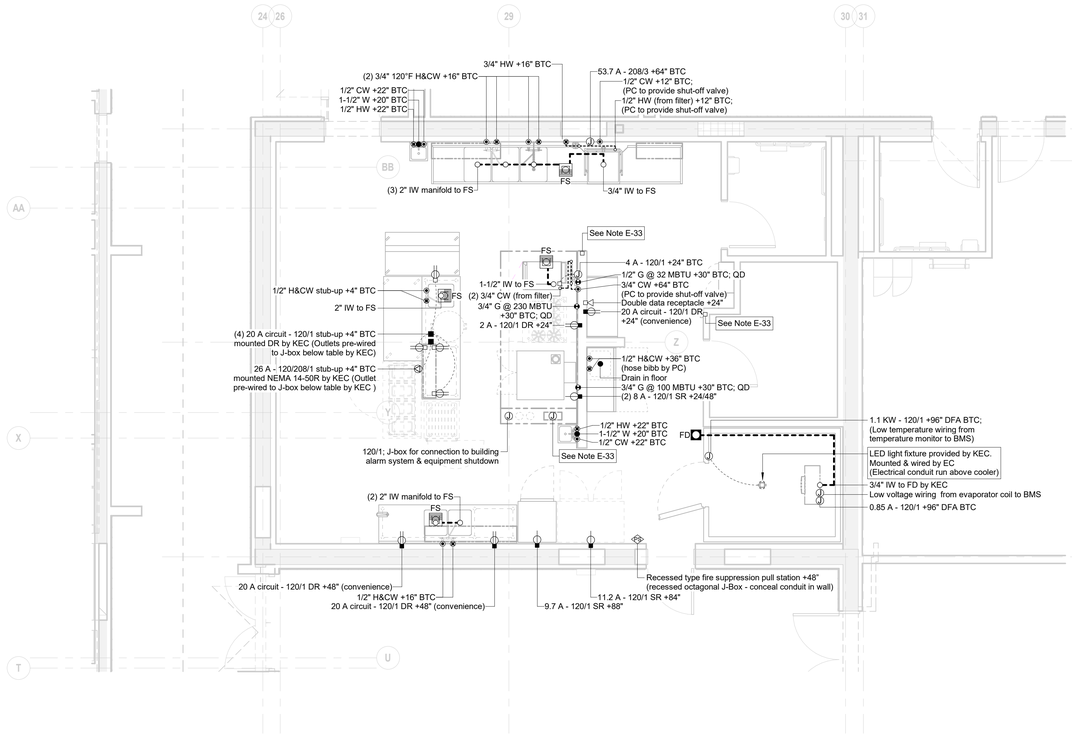
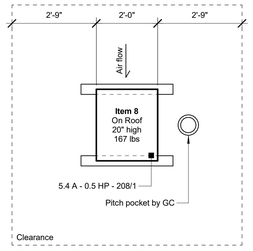


FOODSERVICE EQUIPMENT ROUGH-IN PLAN

1/4" = 1'-0"

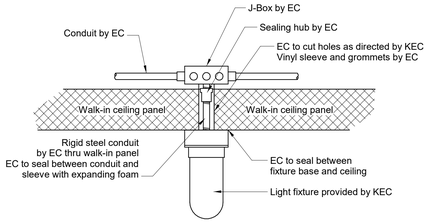
Mount on roof (Location to be coordinated)

Maximum refrigeration line run = 100'
(including a 25' maximum vertical run)



1 K101 Detail - Remote Condensing Units

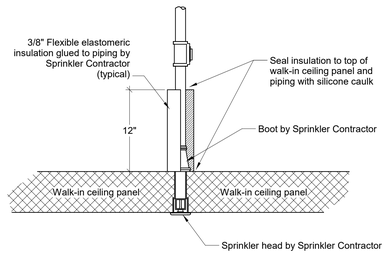
NTS



Notes:
1. All light fixture to be furnished by KEC
2. Mounting light fixtures, all conduit and interwiring by EC
3. All conduit to be on exterior of walk-in by EC
4. All penetrations thru walk-in panels to be thoroughly sealed by EC

Typical Detail - Refrigerated Room Light Fixture

1" = 1'-0"



Typical Detail - Refrigerated Room Fire Sprinkler

1" = 1'-0"

ELECTRICAL ROUGH-IN LEGEND

	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (TABLE MOUNTED)
	SIMPLEX RECEPTACLE
	SIMPLEX RECEPTACLE (TABLE MOUNTED)
	SPECIAL PURPOSE RECEPTACLE
	FLOOR RECEPTACLE
	JUNCTION BOX
	DROP CORD
	ELECTRICAL CONDUIT
	FIELD CONNECTION
	SWITCH
	LIGHT FIXTURE
	FIRE PULL STATION
	FIELD WIRING

PLUMBING ROUGH-IN LEGEND

	HOT WATER
	COLD WATER
	WASTE - DIRECT CONNECTED
	WASTE - INDIRECT
	GAS
	AREA FD (SUGGESTED LOCATION)
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK
	FLOOR SINK (3/4 GRATE)
	FLOOR SINK (1/2 GRATE)
	FIELD CONNECTION
	FIELD PIPING (WASTE)
	FIELD PIPING (WATER)

Note E-33

15 A circuit - 120/1 DFA for conn to ventilator control & hood lights at Item 30;
Microswitch wiring from fire suppression systems (Item 32);
EC to provide CAT5 connection to remote touch screen (Item 34 - cable supplied with system);
EC to provide wiring on/off signal wiring to EHX fan;
MC/ATC to provide wiring to temp sensors at hoods;
MC/ATC to provide wiring to room temp sensors (Item 35);
MC/ATC to provide wiring from building management system remote control

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

PLUMBING NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT THAT REQUIRE A BRANCH TO CONNECTION (BTC), OR WHERE PLUMBING INTERCONNECTION IS INDICATED ON THE PLAN WITH A DASHED LINE.

3) PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL MANUFACTURER'S SHOP DRAWINGS AND EQUIPMENT CUT SHEETS SUBMITTED TO CONFIRM SCOPE REQUIREMENTS AND INSTALLATION EXPECTATIONS.

4) ALL FLOOR SINKS AND DRAINS MUST BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. AREA DRAINS, IF LOCATED LOCATED ON THESE PLANS, ARE TO BE CONSIDERED RECOMMENDED AREAS. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO CONFIRM QUANTITIES AND LOCATIONS OF AREA DRAINS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

5) FLOOR SINKS LOCATED UNDER COUNTERS WITH LIMITED ACCESSIBILITY MUST BE INSTALLED 50% EXPOSED AND EASILY ACCESSIBLE FOR CLEANING. IF A FLOOR SINK CAN NOT BE INSTALLED 50% EXPOSED, THE UNDER SHELF OF THE CABINET MUST BE FULLY REMOVABLE OR BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO REMOVE THE DRAIN GRATE FOR CLEANING.

6) CONDENSATE DRAIN LINES FROM WALK-IN REFRIGERATED ROOM EVAPORATOR COILS SHALL BE INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. DRAIN LINES MUST BE COPPER AND INSTALLED 1" OFF THE WALLS WITH A MINIMUM PITCH OF 1/2" PER FOOT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE AND INSTALL A COPPER UNION WITHIN 24" OF THE CONNECTION TO THE EVAPORATOR COIL. FOR INSTALLATION OF DRAIN LINES IN A FREEZER, THE DRAIN SHALL EXIT THE FREEZER AT THE EARLIEST DISTANCE POSSIBLE. DRAIN PENETRATIONS THROUGH THE WALK-IN REFRIGERATED ROOM WALL PANEL MUST BE APPROPRIATELY SEALED TO INCLUDE A VAPOR SEAL AND PROVIDED WITH CHROME ESCUTCHEON PLATES AT ALL EXPOSED POINTS WHERE PIPING PENETRATES THE WALL. DRAINS MUST BE "P" TRAPPED OUTSIDE OF THE REFRIGERATED ROOM WALL TO AVOID ENTRANCE OF WARM AIR AND TERMINATED 1" ABOVE THE FLOOR DRAIN OR AS REQUIRED BY LOCAL CODE.

7) PLUMBING CONTRACTOR TO INSTALL UTILITIES CONCEALED IN WALLS AND STUB-OUT AT TERMINATION POINTS. PLEASE NOTE THAT NOT ALL JURISDICTIONS ALLOW GAS LINES TO BE CONCEALED IN WALL, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY AND CONFIRM PRIOR TO INSTALLATION.

8) PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL DRAINS, FAUCETS, PIPING TRAPS, VALVES, SHUT-OFFS, GAUGES, WATER PRESSURE REDUCERS, REGULATORS AND BACKFLOW PREVENTION, ETC. AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

9) IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FLUSH ALL WATER LINES PRIOR TO FINAL CONNECTION TO FOODSERVICE EQUIPMENT.

10) A MAIN SHUT-OFF GAS VALVE MUST BE INSTALLED BY THE PLUMBING CONTRACTOR LOCATED TO MEET THE REQUIREMENTS OF THE PLUMBING CODE.

11) GAS SUPPLY TO ALL COOKING EQUIPMENT MUST BE PROVIDED WITH AN ELECTRIC OR MECHANICAL SHUT-OFF VALVE. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH THE VALVE AND INSTALLATION PERFORMED BY THE PLUMBING CONTRACTOR. VALVE SHALL BE TIED INTO THE FIRE PROTECTION SYSTEM FOR AUTOMATIC SHUT-OFF.

12) THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR LOCATION OF GREASE TRAPS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. GREASE TRAPS MUST BE LOCATED IN A MANNER THAT DOES NOT INTERFERE WITH FOODSERVICE EQUIPMENT LAYOUT.

ELECTRICAL NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT THAT REQUIRES A BRANCH TO CONNECTION (BTC), OR WHERE INTER-WIRING IS INDICATED ON THE PLAN IN A DASHED LINE.

3) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL MANUFACTURER'S SHOP DRAWINGS AND EQUIPMENT CUT SHEETS SUBMITTED TO CONFIRM SCOPE REQUIREMENTS AND EXPECTATIONS.

4) ELECTRICAL PANELS PROVIDED SHALL BE DESIGNED WITH A MINIMUM OF 20% SPARE CAPACITY FOR FUTURE EXPANSION UNLESS OTHERWISE APPROVED BY THE OWNER.

5) ELECTRICAL CONTRACTOR TO INSTALL DROP CORDS AS LOCATED ON PLANS WITH THE CORD ADJUSTED TO HANG 78" ABOVE FINISH FLOOR. PLASTIC WIRE TIES ARE NOT ACCEPTABLE FOR THIS WORK. DROP CORDS MUST BE PROVIDED WITH STRAIN RELIEF.

6) ELECTRICAL CONNECTIONS ON THIS PLAN ARE PROVIDED AS IT RELATES SPECIFICALLY TO FOOD SERVICE EQUIPMENT. CONVENIENCE OUTLETS ARE PROVIDED IN SPECIFIC LOCATIONS AS REQUESTED BY OWNER. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ANY OTHER ELECTRICAL OUTLETS AS REQUIRED TO MEET CODE REQUIREMENTS BY LOCAL AUTHORITY HAVING JURISDICTION.

7) WALK-IN REFRIGERATED ROOM LIGHT FIXTURES ARE TO BE PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR. LIGHTS ARE TO BE MOUNTED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

8) IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO CONFIRM WITH THE WALK-IN REFRIGERATED ROOM MANUFACTURER THAT THE QUANTITY AND LOCATIONS OF THE LIGHTING LAYOUT WILL MEET 20 FOOT CANDLES OF LIGHT AT A DISTANCE OF 30" ABOVE FINISH FLOOR AS REQUIRED IN WALK-IN REFRIGERATED ROOMS BY THE NATIONAL FOOD CODE.

9) DRAIN PIPING WITHIN A WALK-IN FREEZER SHALL BE PROVIDED WITH A DRAIN LINE HEATER AND INSULATION. FINAL CONNECTION OF THE DRAIN LINE HEATER MUST BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

10) ELECTRICAL CONTRACTOR TO INSTALL UTILITIES CONCEALED IN WALLS AND STUB-OUT AT TERMINATION POINTS.

11) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WIRING BETWEEN EXHAUST VENTILATORS, AND ASSOCIATED FAN SYSTEMS, CONTROL PANELS, MAGNETIC STARTERS, FIRE SUPPRESSION SYSTEMS, PULL STATIONS AND SWITCHES AS REQUIRED.

12) CONTROL AND POWER WIRING BETWEEN CONTROL PANELS AND GARBAGE DISPOSALS, WASTE PULPERS, TROUGH COLLECTORS ETC. ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

13) ELECTRICAL CONTRACTOR MUST PROVIDE ELECTRICAL POWER TO ANY COOKING EQUIPMENT THROUGH A SHUNT TRIP SYSTEM.

14) FOOD PREPARATION AREAS MUST BE PROVIDED WITH 50 FOOT CANDLES OF LIGHTING AS REQUIRED BY THE NATIONAL FOOD CODE.

15) ELECTRICAL CONTRACTOR MUST VERIFY REMOTE FIRE SUPPRESSION PULL STATION LOCATIONS WITH THE LOCAL FIRE INSPECTOR PRIOR TO INSTALLATION.

16) FOODSERVICE EQUIPMENT CAN NOT BLOCK ACCESS TO GFI RECEPTACLES. CRABTREE-MCGRATH ASSOCIATES STRONGLY RECOMMENDS THAT THE ELECTRICAL CONTRACTOR PROVIDE GFI PROTECTION AT THE CIRCUIT BREAKER PANEL. THIS WILL ALSO LIMIT NUISANCE TRIPPING THAT IS COMMON WITH COMMERCIAL FOODSERVICE EQUIPMENT.

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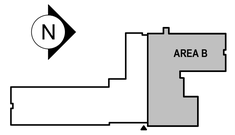
STATE OF CONNECTICUT
KENNETH R. MALIK
REG. NO. 8199
LICENSED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FOODSERVICE EQUIPMENT ROUGH-IN PLAN

K101

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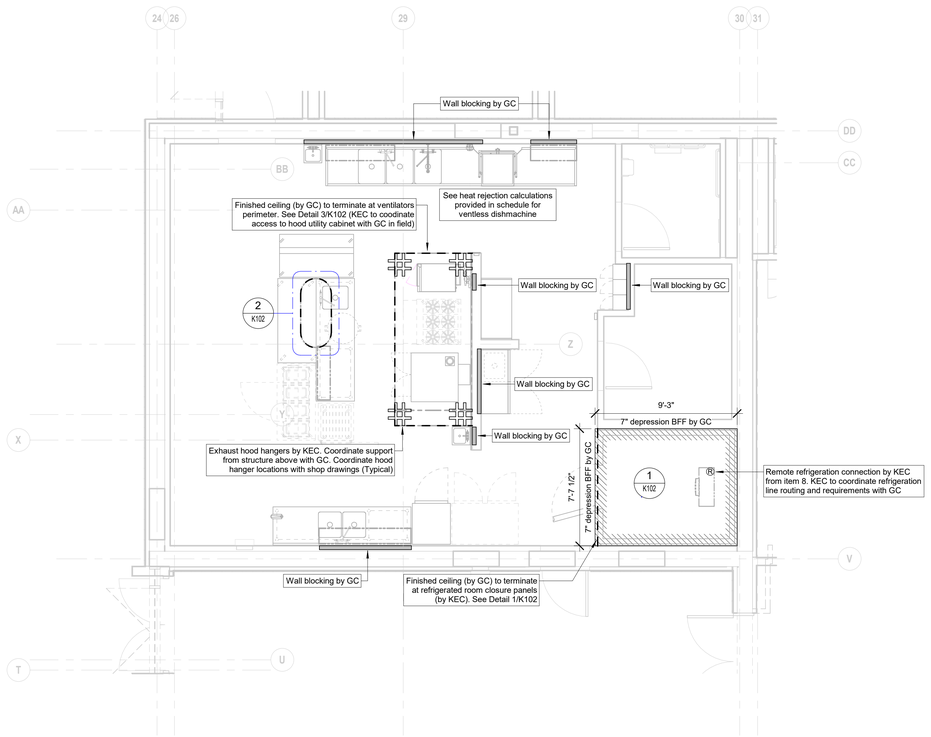
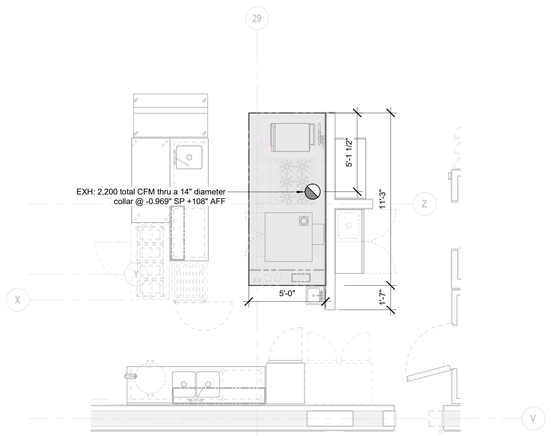


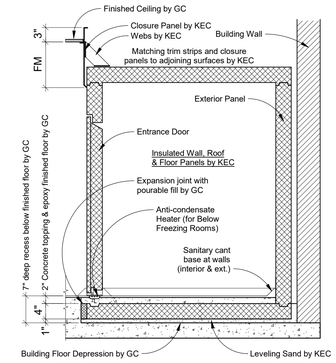
FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN

1/4" = 1'-0"



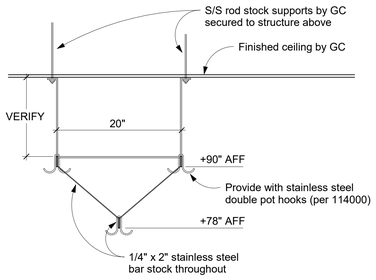
FOODSERVICE EQUIPMENT VENTILATION ROUGH-IN PLAN

1/4" = 1'-0"



1 K102 Detail - Refrigerated Room

1/4" = 1'-0"



2 K102 Section - Ceiling Mounted Utensil Rack

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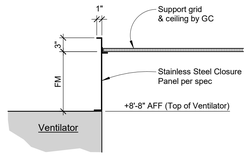

3 K102 Detail - Closure Panel

NTS

Abbreviations used:

A	Amperes	EXH	Exhaust	IW	Indirect waste
AFF	Above finished floor	FD	Floor drain	KEC	Kitchen Equip. Contractor
BFF	Below finished floor	FFD	Funnel floor drain	KW	Kilowatt
BTC	Branch to connection	FHW	Fahrenheit hot water	MBTU	BTU per hour/1000
C&P	Cord & plug provided	FS	Floor sink	MUA	Make-up air
CFM	Cubic feet per minute	G	Gas	PC	Plumbing Contractor
CR	Condensate return	GC	General Contractor	QD	Quick disconnect
CW	Cold water	GI	Grease interceptor	SP	Static pressure (WG)
DFA	Drop from above	HP	Horsepower	SR	Single receptacle
DR	Duplex receptacle	HW	Hot water	SS	Steam supply
EC	Electrical contractor	H&CW	Hot & cold water	W	Waste (direct connection)

SPECIAL CONDITIONS NOTES

1) DIMENSIONS ON THIS PLAN ARE PROVIDED FOR DESIGN INTENT. IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND HEIGHTS LISTED IN THE FIELD WITH THE EQUIPMENT BEING PROVIDED.

2) WALK-IN REFRIGERATED ROOM SLAB DEPRESSIONS MUST BE SMOOTH AND LEVEL, SIZED AS SHOWN ON PLAN.

3) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING WALL BLOCKING AS INDICATED FOR SUPPORTING WALL MOUNTED EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY AND COORDINATE ALL LOCATIONS AND HEIGHTS PROVIDED IN THE FIELD.

4) WALL FLASHING, WHERE SPECIFIED, MUST BE A MINIMUM OF 20 GAUGE STAINLESS STEEL, PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. STAINLESS STEEL TO BE CUT IN THE LARGEST SHEETS POSSIBLE TO MINIMIZE JOINTS. ALL SEAMS TO BE COVERED WITH BATTEN STRIPS AND CAP STRIPS PROVIDED AT FLASHING ENDS. PROVIDE CAREFULLY PUNCHED HOLES AT SERVICE LOCATIONS. ALL WALL FLASHING DIMENSIONS MUST BE FIELD VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO FABRICATION.

5) CORNER GUARDS, WHERE SPECIFIED, MUST BE A MINIMUM OF 14 GAUGE STAINLESS STEEL PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR. BREAK LONG EDGES SO THAT THE GUARDS "HUG" THE WALL AND SECURE TO THE WALL WITH A SUITABLE ADHESIVE. ALL CORNER GUARD DIMENSIONS AND ANGLES MUST BE FIELD VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO FABRICATION.

6) KITCHEN EQUIPMENT CONTRACTOR IS RESPONSIBILE FOR THE INSTALLATION OF THE REMOTE REFRIGERATION LINE RUNS AND COORDINATION OF THE COMPLETE REMOTE REFRIGERATION SYSTEM WITH THE GENERAL CONTRACTOR.

7) EXHAUST HOODS MUST BE HUNG AND MOUNTED WITH THE BOTTOM OF THE HOOD AT 6'-8" ABOVE FINISH FLOOR. HVAC CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTIONS FROM THE EXHAUST HOOD COLLAR TO THE DUCTWORK. FINAL CONNECTIONS SHALL BE FULLY WELDED AND LIQUID TIGHT.

8) HVAC CONTRACTOR TO PROVIDE AND INSTALL ALL FANS, DUCTWORK AND CURBS AS REQUIRED FOR A COMPLETE AND FUNCTIONING VENTILATIO SYSTEM. START-UP AND AIR BALANCING OF THESE SYSTEMS MUST BE COMPLETED BY THE HVAC CONTRACTOR.

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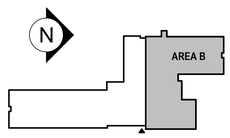
STATE OF CONNECTICUT
MATTHEW R. MALIK
NO. 21917
LICENSED ARCHITECT

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN

K102

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CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.
   a. ALL WORK SHALL COMPLY WITH THE 2022 CONNECTICUT STATE BUILDING CODE WHICH ADOPTS THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH AMENDMENTS
   b. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318", (LATEST EDITION) AMERICAN CONCRETE INSTITUTE.
   c. "AISC "SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "STEEL CONSTRUCTION MANUAL" LATEST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
   d. BUILDING CODE REQUIREMENTS FOR COLD-FORMED STEEL FRAMING, AISI S100/S200/S211/S214 (LATEST EDITION).
   e. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530/ASCE 5/TMS 402 (LATEST EDITION).
   f. SPECIFICATIONS FOR MASONRY STRUCTURES, ACI 530.1/ASCE 6/TMS 602 (LATEST EDITION).
   g. HOT WEATHER CONCRETING, ACI 305R AND COLD WEATHER CONCRETING ACI 306R (LATEST EDITION).

DIMENSIONS:

1. THE CONTRACTOR SHALL COORDINATE THE DIMENSIONS AND LOCATIONS OF THE ROOF, FLOOR & WALL OPENINGS SO THE FRAMING PROPERLY FITS THE REQUIREMENTS OF ALL TRADES.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO ANY FABRICATION AND INSTALLATION OF ANY NEW MATERIALS. IF ANY DISCREPANCIES ARE FOUND BETWEEN ACTUAL CONDITIONS AND THESE DRAWINGS NOTIFY ARCHITECT AND/OR ENGINEER FOR FURTHER INSTRUCTIONS.

CONSTRUCTION:

1. GENERAL:
   a. SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT.
   b. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPERLY DESIGNED FORMWORK, STAGINGS, BRACING, SHEETING, SHORING, ETC.
   c. <u>IMPLEMENTING JOB SAFETY, CONSTRUCTION PROCEDURES AND TEMPORARY SHORING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.</u>
   d. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
   e. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
   f. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS ARE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRESAFING AT TOP OF WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
   g. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
   h. CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS AT ALL LEVELS LOCATING FLOOR AND ROOF EDGES FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.
   i. CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES.

TESTING AND SPECIAL INSPECTION NOTES:

1. A SPECIAL INSPECTIONS PROGRAM SHALL BE ESTABLISHED BY THE OWNER AS REQUIRED BY CHAPTER 17 OF THE STATE BUILDING CODE. THE PROGRAM SHALL BE MANAGED BY A SPECIAL INSPECTIONS COORDINATOR TO BE HIRED BY THE OWNER OR AUTHORIZED AGENT.
2. TESTING AND INSPECTIONS SHALL BE PERFORMED FOR ALL STRUCTURAL SYSTEMS INDICATED IN THE "STATEMENT OF SPECIAL INSPECTIONS" FORM ISSUED BY STRUCTURAL ENGINEER OF RECORD. TESTING AGENCIES AND SPECIAL INSPECTOR SHALL BE APPROVED BY THE BUILDING OFFICIAL.
3. THE INSPECTIONS AND TESTING PROGRAM SHALL NOT RELIEVE THE CONTRACTOR OF THE QUALITY ASSURANCE PROVISIONS OF THE BUILDING CODE AND CONTRACT DOCUMENTS..
4. THE CONTRACTOR SHALL ARRANGE FOR THE REQUIRED INSPECTIONS WHEN WORK IS COMPLETE AND READY FOR REVIEW. WORK SHALL REMAIN ACCESSIBLE AND EXPOSED. ALLOW FOR SUFFICIENT TIME FOR THE INSPECTION AGENCY TO SCHEDULE A VISIT PRIOR TO CONCEALMENT.
5. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTIONS REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
6. PRIOR TO COMMENCEMENT WORK, A PRE-CONSTRUCTION MEETING WITH THE SPECIAL INSPECTIONS COORDINATOR, TESTING AGENCIES, DESIGN TEAM, AND SUBCONTRACTORS TO REVIEW THE SPECIAL INSPECTIONS PROGRAM AND IDENTIFY ALL PARTICIPANTS' ROLES AND RESPONSIBILITIES.

TEMPORARY SHORING :

1. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A SHORING ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS CONSTRUCTED TO PREPARE ALL SUBMITTALS REQUIRED AND TO BE FULLY RESPONSIBLE FOR DETAILED DESIGN AND CONSTRUCTION SPECIFICATIONS AND PROVIDE SUPERVISION DURING CONSTRUCTION OF THE TEMPORARY SHORING WORK REQUIRED.
2. THE CONTRACTOR AND CONTRACTOR'S SHORING ENGINEER SHALL DESIGN, FURNISH, INSTALL AND PERFORM THE NECESSARY WORK REQUIRED TO SAFELY SUPPORT, PROTECT AND MAINTAIN EXISTING STRUCTURE. ANY MOVEMENT OR DAMAGE OF EXISTING BUILDING OR STRUCTURE SHALL BE CORRECTED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SOLE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR'S SHORING ENGINEER SHALL PREPARE A REPORT OF THE STRUCTURAL PRECONDITION SURVEY OF THE EXISTING BUILDING. THIS ON-SITE SURVEY SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE FOR THE OWNER OF THE EXISTING BUILDING. THIS PRECONDITION SURVEY REPORT SHALL INCLUDE A DETAILED ON-SITE INSPECTION OF THE INTERIOR AND THE EXTERIOR OF THE BUILDING WITH PHOTOGRAPHS DOCUMENTING THE EXISTING CONDITIONS OF THE BUILDING.
4. THE CONTRACTOR'S ENGINEER SHALL SUBMIT A COMPLETE SET OF SEALED, DETAILED, DESIGN SHOP DRAWINGS FOR REVIEW AND COMMENTS BY STRUCTURAL ENGINEER. THE SUBMITTAL SHALL INCLUDE ALL CONSTRUCTION SEQUENCES, METHODS, DETAILS, SPECIFICATIONS, DESIGN LOADS AND OPERATIONS NECESSARY FOR PROPER EXECUTION OF THE TEMPORARY SHORING WORK

FOUNDATIONS & STRUCTURAL EARTHWORK:

1. <u>GENERAL:</u>
   a. FOUNDATIONS HAVE BEEN DESIGNED UNDER ASSUMPTION THAT BUILDING PAD AREA IS COMPACTED STRUCTURAL FILL OR UNDISTURBED VIRGIN INORGANIC SOIL CAPABLE OF PROVIDING BEARING CAPACITY INDICATED. OWNER TO HIRE A GEOTECHNICAL ENGINEER, LICENSED IN THE STATE OF CONNECTICUT, TO VERIFY SOIL CONDITIONS DURING EXCAVATION PRIOR TO CONSTRUCTION OF THE FOUNDATION. ANY DISCREPANCIES WITH NOTED FOUNDATION DESIGN ASSUMPTIONS ARE TO BE FORWARDED TO THE ARCHITECT AND ENGINEER FOR POSSIBLE FURTHER INSTRUCTIONS.
   b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
   c. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
   d. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED FIRM, INORGANIC, VIRGIN SOIL OR COMPACTED STRUCTURAL FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
   e. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
   f. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPOSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S /ENGINEERING SEAL AND SIGNATURE.
2. <u>BACKFILL:</u>
   a. ALL BACKFILL SHALL BE APPROVED GRAVEL COMPACTED TO 95% OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557, OR AS RECOMMENDED BY EXPERIENCED, QUALIFIED, LICENSED STATE OF CONNECTICUT GEOTECHNICAL ENGINEER. DO NOT USE ON SITE MATERIAL, UNLESS TESTED AND ACCEPTED BY THE GEOTECHNICAL ENGINEER.
   b. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL THE CONCRETE HAS REACHED DESIGN STRENGTH OR ADEQUATE BRACING HAS BEEN INSTALLED.
   c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.
3. <u>STRUCTURAL FILL:</u>
   a. CONTROL FILL SHALL BE PROCESSED AGGREGATE BASE CONFORMING TO CONNDOT M.05.01 INSPECTION OF PLACEMENT OF COMPACTED GRAVEL FILL SHALL BE BY AN EXPERIENCED QUALIFIED GEOTECHNICAL ENGINEER.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DRAWINGS FOR COORDINATION BETWEEN TRADES, AND LOCATE SLOTS, SLEEVES AND TRENCHES AS REQUIRED FOR MECHANICAL TRADES. PROVIDE AND OR INSTALL ANCHORS, INSERTS, HANGERS, ETC. AS REQUIRED FOR VARIOUS TRADES.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF CONCRETE REINFORCING STEEL, STRUCTURAL STEEL, AND METAL DECK FOR REVIEW, BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. SHOP DRAWINGS SHALL BEAR THE REVIEW AND APPROVAL STAMP OF THE CONTRACTOR, IN ACCORDANCE WITH THE GENERAL CONDITIONS.
3. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ASSUMED CONDITIONS, ELEVATIONS, ETC. AND THOSE ACTUALLY ENCOUNTERED IN THE FIELD, OR OTHER REASONS THAT MIGHT ADVERSELY AFFECT THE INTENDED FUNCTION OF THE DESIGN, AND SHALL WAIT FOR INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.
4. STRUCTURAL PLANS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR USE AS SHOP DRAWINGS OR ERECTION PLANS. (THERE WILL BE NO RELAXATION OF THIS RESTRICTION FOR ANY TRADE.) REBAR DETAILER SHALL DRAW ELEVATIONS OF ALL CONCRETE WALLS WHICH SHALL INDICATE ALL POCKETS, OPENINGS, CHASES, ETC. ELEVATIONS SHALL BE DRAWN TO A MINIMUM SCALE OF 1/4"=1'-0".
5. FOR TYPES OF FINISHES ON FLOORS, WALLS, AND ROOFS, SEE ARCHITECTURAL DRAWINGS. DEPRESS OR SLOPE SLABS ON GRADE AS REQUIRED BY ARCHITECTURAL DRAWINGS.
6. REFERENCES MADE ON THESE DRAWINGS TO EXISTING CONDITIONS AND DEMOLITION MUST BE COORDINATED WITH ACTUAL CONDITIONS IN THE FIELD. SUCH REFERENCES ARE NOT INTENDED TO BE ALL INCLUSIVE OF THE WORK REQUIRED TO CONSTRUCT THE PROJECT.
7. THE TEMPORARY SUPPORT OF CONSTRUCTION MATERIALS IS RESTRICTED TO THE DESIGN CAPACITY OF THE NEW OR EXISTING CONSTRUCTION, AND SHALL BE PLACED SO AS NOT TO EXCEED THE CAPACITY OF INDIVIDUAL ELEMENTS. PROVIDE ADEQUATE, ENGINEERED SHORING/BRACING WHERE DESIGN CAPACITY IS NOT SUFFICIENT.
8. PROVIDE AND MAINTAIN TEMPORARY SHORING, BRACING, AND OTHER STRUCTURAL SUPPORTS AS NECESSARY TO PROTECT THE STRUCTURE FROM MOVEMENT, SETTLEMENT, OR COLLAPSE.
9. MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION, INCLUDING JOBSITE SAFETY, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION UNTIL WALL DESIGN STRENGTH HAS BEEN ATTAINED AND ALL PERMANENT SUPPORTS ARE IN PLACE.
11. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS ARE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRE-SAFING, IF ANY, AT TOP OF WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
12. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. WHERE A DISCREPANCY OCCURS BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS, THE MORE RESTRICTIVE SHALL APPLY.

CONCRETE:

1. CAST-IN-PLACE
   a. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
      NON-POST-TENSIONED CONCRETE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER	2"
#5 AND SMALLER	1-1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALL, JOISTS:	
#11 BARS OR SMALLER	3/4"

   b. CONSTRUCTION JOINTS AND CONTROL JOINTS IN SLABS ON GRADE SHALL BE ARRANGED TO LIMIT MAXIMUM AREA BETWEEN JOINTS TO 900 S.F. APPROXIMATELY SQUARE ALLOW A MINIMUM OF 48 HOURS TIME BETWEEN PLACEMENT OF ADJACENT SECTIONS.
   c. ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMISSIONS SHALL BEAR THE ENGINEER'S SEAL AND SIGNATURE.
   d. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   e. CORE DRILLING OF FOUNDATIONS, SLABS, SHALL NOT BE PERMITTED, UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   f. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS.
   g. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.
   h. CHAMFER ALL EXPOSED CONCRETE CORNERS, 3/4" x 3/4" MINIMUM, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
   i. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE, TO THE ELEVATION INDICATED ON THE DRAWINGS.
   j. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL SHOP DRAWINGS. ANY STOP IN CONCRETE MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.
   k. PREMOLDED EXPANSION JOINT FILLER SHALL BE PLACED ALONG EDGES OF SLAB ON GRADE WHERE ABUTTING FOUNDATION WALLS, AND AT ALL OTHER LOCATIONS AS DETAILED.
   l. SLAB SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE UNLESS SHOWN OTHERWISE. DO NOT PLACE ELECTRICAL CONDUITS IN ANY SLAB.
   m. CONTRACTOR SHALL PREPARE DETAILED DRAWINGS SHOWING DIMENSIONS, BAR SCHEDULES, BENDING DETAILS AND PLACING DIAGRAMS AND DETAILS, FOR ALL REINFORCEMENT. DRAWINGS SHALL BE SUBMITTED FOR APPROVAL AND NO REINFORCEMENT SHALL BE PLACED BEFORE DRAWINGS ARE APPROVED.
   n. METAL REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT WITH SUITABLE TIES.
   o. WELDED WIRE FABRIC REINFORCEMENT SHALL BE SUPPLIED IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER.
   p. ALL CONTINUOUS REINFORCING BARS SHALL BE LAPPED 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
   q. WELDED WIRE FABRIC SHALL BE PLACED IN THE UPPER 1/3 OF THE SLAB ON GRADE AND SHALL CONFORM TO SECTION "MATERIALS" ITEM #5 ON THIS DRAWING.
   r. THIS CONTRACT INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND APPLIANCES NECESSARY TO COMPLETE ALL CAST-IN-PLACE CONCRETE AS INDICATED ON THE DRAWINGS OR HEREINAFTER SPECIFIED.
   s. ANCHOR BOLTS, LEVELING PLATES, SLEEVES, INSERTS, HANGERS, ETC. FURNISHED UNDER OTHER DIVISIONS AND REQUIRED TO BE CAST INTO THE CONCRETE SHALL BE SET BY THIS CONTRACTOR WHERE REQUIRED.
   t. PROVIDE ALL CONCRETE BASES, CURBS, MATS, PADS, TRENCHES, SLOTS, OPENINGS, ETC., AS REQUIRED BY ANY OR ALL OF TRADES TO ACCOMMODATE EQUIPMENT OR WORK OF ALL THE DIVISIONS.
   u. MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED AS WORK PROGRESSES. FAILURE TO DETECT DEFECTIVE WORK SHALL NOT PREVENT REJECTION WHEN DEFECT IS DISCOVERED.
   v. PRODUCTS: 1.) WATER SHALL BE FRESH, DRINKABLE 2.) AIR-ENTRAINING AGENT: CONFORMING TO ASTM C260 3.) WATER-REDUCING, SET-CONTROLLING ADMIXTURE CONFORMING TO ASTM C494 MANUFACTURED BY MASTER BUILDERS, SONNEBORN, EUCLID, OR W.R. GRACE COMPANIES.
   w. GROUT: NON-SHRINK "SETGROUT" AS MANUFACTURED BY MASTER BUILDERS.
   x. VAPOR RETARDER: SHALL BE INSTALLED UNDER CONCRETE SLABS ON GRADE WHERE INDICATED AND SHALL BE 15 MIL POLYETHYLENE. IT SHALL BE INSTALLED IN WIDEST PRACTICAL WIDTH. ALL JOINTS SHALL BE LAPPED A MINIMUM OF SIX (6) INCHES, AND ALL BREAKS OR HOLES SHALL BE PATCHED PRIOR TO POURING THE CONCRETE. WATER VAPOR RETARDER: ASTM E-1745 THAT MEETS OR EXCEEDS CLASS C.
   y. EXPANSION JOINT: CONFORMING TO ASTEM D 1751 OR ASTM D 1752.
   z. CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO HAVE A SLUMP NOT TO EXCEED 4 IN. IF CONSOLIDATION IS BY VIBRATION OR 5 IN. IF CONSOLIDATION BY OTHER MEANS.
   z1. MAXIMUM SIZE OF COARSE AGGREGATE SHALL NOT EXCEED ONE-THIRD THE THICKNESS OF SLABS, AND ONE-FIFTH THE NARROWER DIMENSION BETWEEN FORMS.
   z2. CONCRETE SHALL BE ADJUSTED TO PRODUCE THE REQUIRED RATE OF HARDENING FOR VARIED CLIMATIC AND JOB-SITE CONDITIONS.
   z3. CONCRETE SHALL BE HANDLED FROM MIXER TO FINAL PLACEMENT RAPIDLY BY METHODS WHICH WILL PREVENT SEGREGATION OT LOSS OF INGREDIENTS TO MAINTAIN REQUIRED QUALITY OF CONCRETE.
   z4. USE OF VIBRATORS TO TRANSPORT CONCRETE SHALL NOT BE ALLOWED.
   z5. IMMEDIATELY FOLLOWING PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, HOT AND COLD TEMPERATURES, RAIN, FLOWING WATER AND MECHANICAL INJURY.
   z6. FORMS FOR WALLS SHALL BE LEFT IN PLACE FOR A MINIMUM OF 3 DAYS. FINAL CURING SHALL CONTINUE FOR NOT LESS THAN 7 DAYS.
   z7. ALL INTERIOR CONCRETE FLOOR SLABS SHALL BE STEEL TROWELED TO A SMOOTH UNIFORM FINISH, FREE FROM DEFECTS AND BLEMISHES, NOTHING TO BE ADDED TO EITHER WET OR DRY FINISH. STEEL TROWELING SHALL NOT BE DONE UNTIL CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT FINE MATERIAL FROM WORKING TO THE SURFACE. ALL EXTERIOR CONCRETE FLOOR SLABS SHALL HAVE A BROOM FINISH.
   z8. WHERE DRAINS ARE INDICATED, ALL FLOOR SLABS SHALL SLOPE MINIMUM 1/8-INCH PER FOOT DOWN TO FLOOR DRAINS, AND THE FLOOR SLABS ON THE EQUIPMENT STORAGE ROOMS SHALL SLOPE DOWN TO DOORS A MINIMUM 1/8-INCH PER FOOT.
   z9. CONCRETE SHALL BE PROTECTED FROM DAMAGE. DAMAGED CONCRETE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CONCRETE SLABS ON GRADE THROUGH WINTER WEATHER. IF THEY SHOULD HEAVE DUE TO COLD WEATHER, THEY SHALL BE REMOVED AND REPLACED. ALL FILL BELOW THE SLABS SHALL BE REMOVED AND REPLACED.
   z10. COORDINATE WITH DRAWINGS, SECTIONS AND SPECIFICATIONS FOR ALL UNDERSLAB AND EXTERIOR FOUNDATION WALL WATERPROOFING REQUIREMENTS.
   z11. PATCH ALL VOIDS IN EXISTING CONCRETE, INCLUDING INFILL OF CONDUIT PENETRATIONS LESS THAN 12 INCHES WIDE, WITH SIKADUR 32, HI-MOD EPOXY BONDING/GROUTING ADHESIVE AND SIKACRETE 211 POURABLE CONCRETE MIX. FOLLOW ALL MANUFACTURER GUIDELINES FOR PROPER INSTALLATION. PROVIDE PROPER FORMWORK BELOW RAISED HOLES TO BE PATCHED CAPABLE OF SUPPORTING THE WET CONCRETE MIX TIMES A SAFETY FACTOR OF 1.5.

STRUCTURAL STEEL:

1. GENERAL:
   a. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
   b. PROVIDE ACCESS FOR INSPECTIONS OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
   c. ALL CONNECTIONS, SPLICES AND ERECTION PIECES SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. STRUCTURAL STEEL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGNING ALL BEAM SHEAR CONNECTIONS AND ALL NEW BEAM TO COLUMN MOMENT CONNECTIONS, INCLUDING STIFFENERS, HORIZONTAL TUBE COLUMN THROUGH-PLATES, AND WEB DOUBLER PLATES, IF REQUIRED (SHEAR AND MOMENT VALUES ARE INDICATED ON THE FRAMING PLANS- VALUES ARE IN ASD). WHEN PROVIDING CONNECTIONS, ALL AISC CODE REQUIREMENTS SHALL BE MET, AS APPLICABLE (I.E., NET SECTION, BLOCK SHEAR, ETC.,) FOR THE MEMBERS AND GUSSET PLATES. CALCULATIONS AND SHOP DRAWINGS FOR ALL CONNECTIONS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
   d. ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES, INCLUDING STEEL DIRECTLY EXPOSED TO WEATHER, SHALL BE HOT DIPPED GALVANIZED. ALL OTHER STEEL TO HAVE ONE COAT OF SHOP PRIMER (2 COATS FOR STEEL SUPPORTING GLASS FLOORS). FOR EXPOSED STRUCTURAL STEEL, COLOR TO BE APPROVED BY ARCHITECT (COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND COLOR).
   e. CERTIFIED COPIES OF MILL TEST REPORTS SHALL BE SUBMITTTED TO THE STRUCTURAL ENGINEER.
   f. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
   g. SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED AND DETAILED BY THE FABRICATOR IN ACCORDANCE WITH AISC. IF NO REACTION IS INDICATED, THEN CONNECTION IS TO BE DESIGNED USING A REACTION OF 10 KIPS. MINIMUM WELD 3/16" FILLET. MINIMUM NUMBER OF BOLTS PER CLIP ANGLE OR SINGLE PLATE CONNECTION:

BEAM SIZE	MIN. NO. OF BOLTS
W 8, W10	2
W12, W14	3
W16, W18	4
W21, W24	5

   h. UNLESS OTHERWISE NOTED, ALL A325 BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.
   i. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.
   j. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.
   k. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
   l. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS.
   m. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
   n. STEEL FABRICATOR SHALL BE QUALIFIED FABRICATOR CERTIFIED IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS A DESIGNATED AISC-CERTIFIED PLANT.
   o. **MATERIAL SPECIFICATIONS AS FOLLOWS:**

WIDE FLANGE SHAPES AND TEES:	ASTM A992, Fy = 50 ksi.
ANGLES, CHANNELS, AND PLATES:	ASTM A36, Fy = 36 ksi, UNLESS NOTED OTHERWISE.
SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS:	ASTM A1085 (50 ksi.) OR ASTM A500 GRADE C
BOLTS:	MIN. 3/4" DIAMETER ASTM A325 WITH BUILT-IN TENSION CONTROLLED SPLINE.
WELDING:	E-70XX ELECTRODES PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1
ANCHOR BOLTS:	ASTM F1554, GRADE 36, WITH HEAVY PLATE WASHERS.

   p. ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN AND STRAIGHT AND SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC 360 MANUAL FOR STEEL CONSTRUCTION (STANDARD PROVISIONS).
   q. THE STEEL FABRICATOR, AT THE TIME OF BIDDING, SHALL BE CERTIFIED BY THE AISC CERTIFICATION PROGRAM AS "BU" (CERTIFIED BUILDING FABRICATOR) AND IN ADDITION, SHALL HAVE A MINIMUM OF FIVE YEARS SATISFACTORY EXPERIENCE IN THE TYPE OF WORK SHOWN ON THE DRAWINGS.
   r. ALL WELDING OPERATIONS SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN CONFORMANCE WITH APPLICABLE AWS REQUIREMENTS. ALL FILLET WELDING SHALL BE A MINIMUM OF 3/16" WELD, UNLESS OTHERWISE NOTED ON DRAWINGS.
   s. PROVIDE HOLES, COPES, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR WORK OF OTHER TRADES. THEY SHALL BE SHOWN ON STRUCTURAL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. FIELD BURNING OF HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT / ENGINEER OF RECORD.
   t. TEMPORARY ERECTION BRACING SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL NOT BE REMOVED UNTIL ALL PERMANENT LATERAL-LOAD-RESISTING ELEMENTS AND CONNECTIONS ARE COMPLETELY INSTALLED.
   u. CLEANING OF STRUCTURAL STEEL SHALL CONFORM TO SSPC SP3. ALL SURFACES OF STRUCTURAL STEEL NOT INDICATED TO BE EITHER GALVANIZED OR FIREPROOFED, SHALL RECEIVE ONE UNIFORM COAT OF APPROVED STANDARD PRIMER AT THE SHOP. PRIMER SHALL BE A MINIMUM 2 MIL DRY THICKNESS, WITHOUT RUNS, SAGS, OR BUBBLES. AFTER ERECTION, STEEL FRAMEWORK SHALL BE TOUCH-UP PRIMED WITH SAME PRIMER AS USED IN SHOP. TOUCH-UP OPERATION SHALL COVER ABRADED AREAS, AREAS AROUND WELDS, MARK NUMBERS, BOLT HEADS AND NUTS, AND OTHER BARE AREAS SO THAT ENTIRE PRIMED FRAMEWORK IS COVERED WITH ONE SOUND COAT OF PRIMER.
   v. IF APPLICABLE, REMOVE EXISTING PAINT AT THE LOCATIONS OF FIELD WELDS PRIOR TO WELDING. CLEAN SURFACES SUFFICIENTLY TO PREVENT CONTAMINATION OF WELD. TO THE BEST OF OUR KNOWLEDGE, EXISTING PAINTED SURFACES, INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, GUARDRAILS, CATWALKS, PIPING, CONDUITS, METAL DUCTWORK, ETC., HAVE **NOT** BEEN TESTED FOR LEAD BASED PAINT. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR REGULATIONS AND REQUIREMENTS.
   w. BEAM AND GRIDER REACTIONS (FOR EXAMPLE 30k) REPRESENT MAXIMUM END REACTIONS IN KIPS (1000 lbs.). CONNECTION SHALL DEVELOP A MINIMUM STRENGTH OF 1.25 TIMES THE VALUES SHOWN USIING THE MINIMUM NUMBER OF BOLTS AS SHOWN ON THE TYPICAL DETAILS USING A325-SC OR A490-SC BOLTS. MINIMMUM CONNECTION DESIGN SHALL EQUAL 5k.
   x. THE DESIGN OF STRUCTURAL STEEL BRACING CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AISC 360 SPECFICATION FOR STRUCTURAL STEEL BUILDINGS (STANDARD PROVISIONS) USING A RESPONSE MODIFICATION COEFFFICIENT OF R=3.
   y. THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL CALCULATIONS PERTAINING TO SHEAR AND MOMENT FRAME CONNECTIONS. SUBMIT STAMPED AND SIGNED SHOP DRAWINGS AND CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION FOR REVIEW PRIOR TO FABRICATION.

UNDERPINNING NOTES:

1. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER HAVING A MINIMUM OF 10 YEARS EXPERIENCE IN UNDERPINNING WORK, WHO IS REGISTERED IN THE JURISDICTION OF THE PROJECT AND WILL PREPARE ALL SUBMITTALS REQUIRED AND BE FULLY RESPONSIBLE FOR DETAILED DESIGN AND CONSTRUCTION SPECIFICATIONS AND PROVIDE SUPERVISION DURING CONSTRUCTION OF THE UNDERPINNING WORK.
2. SUBMIT CONTRACTOR'S AND CONTRACTOR'S ENGINEERS QUALIFICATIONS FOR STRUCTURAL ENGINEER'S REVIEW PRIOR TO START OF WORK.
3. THE CONTRACTOR'S PROFESSIONAL ENGINEER SHALL PROVIDE SEALED STRUCTURAL DESIGN CALCULATIONS AND DRAWINGS FOR ALL RETENTION AND UNDERPINNING SYSTEMS TO THE OWNER'S STRUCTURAL ENGINEER AND/OR GEOTECHNICAL ENGINEER FOR REVIEW. THE SUBMITTAL SHALL INCLUDE ALL CONSTRUCTION SEQUENCES, METHODS, DETAILS, SPECIFICATIONS AND OPERATIONS NECESSARY FOR PROPER EXECUTION OF THE FOUNDATION UNDERPINNING AND SOIL RETENTION WORK. THE CONTRACTOR SHALL SCHEDULE A MINIMUM OF 15 DAYS FOR REVIEW. ALLOWABLE SOIL PRESSURES SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER.
4. THE CONTRACTOR'S ENGINEER SHALL PREPARE A REPORT OF THE STRUCTURAL PRECONDITION SURVEY OF THE EXISTING BUILDING. THIS ON-SITE SURVEY SHALL BE DONE IN THE PRESENCE OF THE CONTRACTOR'S ENGINEER AND A REPRESENTATIVE OF THE OWNER FOR THE EXISTING BUILDING. THE PRECONDITION SURVEY REPORT SHALL INCLUDE A DETAILED ON-SITE INSPECTION OF THE INTERIOR AND EXTERIOR OF THE BUILDING WITH PHOTOGRAPHS DOCUMENTING THE EXISTING CONDITIONS OF THE BUILDING.
5. A TESTING LAB SHALL ESTABLISH MEASUREMENT STATIONS TO MONITOR VERTICAL AND HORIZONTAL WALL MOVEMENT BEFORE, DURING AND AFTER UNDERPINNING IS COMPLETE. MEASUREMENTS SHALL BE RECORDED IN A LOG BOOK AND SUBMITTED FOR REVIEW.
6. THE CONTRACTOR AND CONTRACTOR'S ENGINEER SHALL DESIGN, FURNISH, INSTALL AND PERFORM THE NECESSARY APPROACH EXCAVATION, PIT EXCAVATIONS, TIMBER LAGGING, JACKS, CONCRETING, WEDGING, SHIMMING DRY PACKING AND ALL OTHER WORK REQUIRED TO SAFELY SUPPORT, PROTECT AND MAINTAIN THE INTERIOR AND EXTERIOR OF THE BUILDING IN THEIR EXISTING CONDITION. ANY MOVEMENT OR DAMAGE TO THE BUILDING SHALL BE CORRECTED TO THE SATISFACTION OF THE OWNER AND STRUCTURAL ENGINEER AT THE SOLE EXPENSE OF THE CONTRACTOR.
7. THE UNDERPINNING DETAIL IS INTENDED TO BE USED WHEN SOIL CONDITIONS ARE CONDUCIVE TO UNDERPINNING, i.e. DENSE GRANULAR OR GRAVELLY SOILS OR STIFF COHESIVE SOILS. IF SOILS OTHER THAN THESE, SUCH AS LOOSE SANDS, SOFT CLAYS, OR FILL ARE ENCOUNTERED, CONTACT THE OWNER'S AND CONTRACTOR'S ENGINEERS FOR ALTERNATE INSTRUCTIONS TO BE TAILORED TO THE SPECIFIC CONDITIONS ENCOUNTERED.
8. THE TECHNIQUE CONSISTS OF DIGGING SOIL FROM BENEATH THE EXISTING WALL/FOOTING AND REPLACING IT WITH CONCRETE IN SECTIONS OR COOLUMNS, ONE AT A TIME, IN SEQUENCE "A", THEN "B" AND THEN "C" DOWN TO THE PROPOSED BOTTOM OF FOOTING ELEVATION.
9. INITIAL EXCAVATION IS DOWN TO BOTTOM OF EXISTING FOUNDATION. EXCAVATION FOR UNDERPINNING COLUMN "A" MAY THEN BEGIN. ONCE THE UNDERPINNING CONCRETE IS CAST, GROUT SOLID TO BOTTOM OF EXISTING FOOTING, AND CURED 48 HOURS, THEN EXCAVATION FOR COLUMN "B" MAY COMMENCE. ETC.
10. GROUT FOR SPACE BETWEEN EXISTING FOUNDATIONS AND NEW CONCRETE: APPLY SIKA "SIKADUR 32 HI-MOD LPL" EPOXY BONDING AGENT TO BOTH THE BOTTOM OF THE EXISTING FOUNDATION AND THE TOP OF THE NEW UNDERPINNING CONCRETE. PACK SIKA "SIKAGROUT 212" WHILE BONDING AGENT IS STILL TACKY.

METAL FLOOR AND ROOF DECK NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL, INCLUDING WORKMANSHIP AND MATERIALS FURNISHED BY HIS SUBCONTRACTORS AND SUPPLIERS. SEE PROJECT SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. THE STEEL DECK SUPPLIER SHALL FURNISH ALL STEEL DECK MATERIALS AND ACCESSORIES INDICATED ON THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS NECESSARY TO PRODUCE A COMPLETE JOB INCLUDING BUT NOT NECESSARILY LIMITED TO DECK UNITS, COVER PLATES, STEEL DECK EDGE CLOSURES, CELL CLOSURES, CANT STRIPS, SUMP PANS, AND ALL RELATED ACCESSORIES.
3. THE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS SHALL APPLY (LATEST EDITION), UNLESS OTHERWISE NOTED:
   a. DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS, AS PUBLISHED BY THE STEEL DECK INSTITUTE (SDI).
   b. SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, AS PUBLISHED BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI).
   c. STRUCTURAL WELDING CODE – SHEET STEEL, D1.3 AS PUBLISHED BY THE AMERICAN WELDING SOCIETY (AWS).
4. SUBMIT DETAILED SHOP DRAWINGS SHOWING TYPE OF DECK, COMPLETE LAYOUT, ATTACHMENT DETAILS, CLOSURES, EDGE STRIPS, SUPPLEMENTARY FRAMING, AND ALL OTHER ACCESSORIES.
5. SEE STRUCTURAL STEEL FRAMING PLAN NOTES ON THE DRAWINGS FOR THE LOCATION, DEPTH OF DECK, DESIGN THICKNESS, AND TYPE OF DECK REQUIRED.
6. ALL STEEL DECK SHALL BE INSTALLED IN A TRIPLE-SPAN CONDITION, UNLESS OTHERWISE NOTED.
7. SEE PROJECT SPECIFICATION FOR METHOD OF DECK ATTACHMENT, ATTACHMENT SPACING AND PATTERN, AND SIDE LAP FASTENERS.
8. METAL ROOF DECK SHALL BE MECHANICALLY FASTENED. (DO NOT WELD METAL ROOF DECK OTHER THAN FOR TEMPORARY STORM FASTENING.)
9. **CONCRETE COMPOSITE METAL FORM DECK** - PERMANENT HANGING LOADS ARE PERMITTED TO BE SUPPORTED BY COMPOSITE DECKS. THE USE OF INTEGRAL HANGER TABS, CAST-IN-PLACE INSERTS, OR POST-INSTALLED EXPANSION ANCHORS OR MECHANICAL ANCHORS ARE PERMITTED. THE USE OF POWDER ACTUATED FASTENERS AND ADHESIVE ANCHORS IS NOT PERMITTED.
10. **METAL ROOF DECK** - NO PERMANENT HANGING LOADS SHALL BE SUPPORTED BY METAL ROOF DECK. THE CONTRACTOR SHALL PROVIDE A SECONDARY FRAMING SYSTEM CONSISTING OF UNISTRUT OR OTHER MEMBERS ATTACHED TO THE MAIN STRUCTURAL FRAMING MEMBERS TO SUPPORT ALL PERMANENT HANGING LOADS OCCURRING BELOW METAL ROOF DECKS.
11. METAL DECK INSTALLATION AND METHOD OF ATTACHMENT IS SUBJECT TO THE SPECIAL INSPECTION PROGRAM ADMINISTERED BY THE OWNER'S DESIGNATED TESTING LABORATORY.
12. DECK PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY VULCRAFT. DECKS BY OTHER MANUFACTURERS MAY BE SUPPLIED PROVIDED SECTION PROPERTIES ARE WITHIN 5% OF THOSE SPECIFIED AND IF APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
13. PROVIDE STEEL DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
    a. 1-1/2" DEEP 20 GAGE TYPE B ROOF DECK — IP = 0.201 in 4; Sp = 0.234 in 3; Sn = 0.222 in 3
14. INSTALL IN ACCORDANCE WITH SDI SUGGESTED SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. INDIVIDUAL SHEETS SHALL EXTEND OVER AT LEAST THREE SPANS, WITH LAPS TO BE PLACED OVER SUPPORTS.
15. DECK SUPPLIER SHALL PROVIDE ALL ADDITIONAL FRAMING TO SUPPORT DECK AT OPENINGS THRU DECK AND ALL CLOSURE ANGLES AND PLATES WHERE REQUIRED TO RESULT IN A COMPLETE INSTALLATION.
16. ROOF AND NON-COMPOSITE DECKS TO BE ATTACHED TO STEEL SUPPORTS WITH LOW VELOCITY POWDER ACTUATED FASTENER TOOLS SUCH AS THE HILTI DX460, DX760, AND DXA70R AT EVERY FLUTE (FOR 36" WIDE PANEL, 7 FASTENERS AT A 36/7 PATTERN) AND A MINIMUM OF (5) - #10 SCREWS AT ALL SIDE LAPS. THE FASTENERS SHALL BE EITHER OR BOTH THE HILTI X-EDN19/ X-EDNK22 FOR BAR JOISTS AND THE ENPH2 FOR STRUCTURAL STEEL BEAMS.

DELEGATED / DEFERRED SUBMITTAL NOTES:

1. DEFERRED OR DELEGATED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE PROJECT DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE BUILDING PERMIT AND SHALL BE SUBMITTED TO THE ARCHITECT DURING THE SHOP DRAWING APPROVAL PROCESS.
2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT WHO SHALL REVIEW THEM WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DOCUMENTS HAVE BEEN APPROVED.
3. ALL DELEGATED DESIGN SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE BUILDING CODE. CALCULATIONS INDICATING THE MAGNITUDE, DIRECTION, AND LOCATION OF LOADS IMPOSED ON THE STRUCTURE FROM CONNECTIONS SHALL BE SIGNED AND SEALED BY AN INDEPENDENT STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR.
4. THE FOLLOWING STRUCTURAL DESIGN ITEMS FOR THIS PROJECT REQUIRED DELEGATED SUBMITTALS:
   a. STRUCTURAL STEEL CONNECTIONS
   b. COLD-FORMED NON-LOAD BEARING EXTERIOR METAL FRAMING
   c. CURTAIN WALL AND STOREFRONT SYSTEMS

DESIGN DATA:

1. <u>GRAVITY - FLOOR LIVE LOADS</u>

a. CLASSROOMS	40 PSF + PARTITION LOAD
b. OFFICES	50 PSF + PARTITION LOAD
c. FIRST FLOOR CORRIDORS	100 PSF
d. STORAGE ROOMS	125 PSF

2. <u>GRAVITY - SNOW LOADS</u>

a. GROUND SNOW LOAD (Pg)	35 PSF
b. SNOW EXPOSURE FACTOR (Ce)	1.0
c. THERMAL FACTOR (Ct)	1.0
d. SNOW LOAD IMPORTANCE FACTOR (I)	1.1
e. FLAT-ROOF SNOW LOAD (Pf)	30 PSF

   f. NEW ROOF FRAMING HAS BEEN DESIGNED FOR SNOW DRIFT PER SECTION 1608, IBC 2021; AND SECTIONS 7.7 & 7.8, ASCE 7.

3. <u>LATERAL LOADS - WIND</u>
   a. MAIN WIND-FORCE RESISTING SYSTEM:
      (1) NOMINAL DESIGN WIND SPEEDS (Vasd) = 101 MPH
      (2) ULTIMATE DESIGN WIND SPEEDS (Vult.) = 130 MPH
      (3) HURRICANE-PRONE REGIONS: YES
      (4) RISK CATEGORY OF BUILDING: III
      (5) WIND EXPOSURE: C
      (6) INTERNAL PRESSURE COEFFICIENT (GC pi)= ±0.18
      (7) WIND IMPORTANCE FACTOR (Iw): 1.0

HEIGHT (FT)	kz & kh	kd
0-15	0.7	0.85
20	0.7	0.85
25	0.7	0.85

   b. COMPONENTS & CLADDING - TO BE DESIGNED IN ACCORDANCE WITH IBC 2021, SECTION 1609.6.4.4.1, "COMPONENTS AND CLADDING"; ASCE 7-16, CHAPTER 30, "COMPONENTS AND CLADDING"

4. <u>LATERAL LOADS - SEISMIC</u>
   a. SITE CLASSIFICATION: D (ASSUMED)
   b. RISK CATEGORY OF BUILDING: III
   c. SEISMIC IMPORTANCE FACTOR (Ie): 1.25
   d. SEISMIC DESIGN CATEGORY: **B**
   e. MAPPED SPECTRAL ACCELERATION FOR SHORT PERIODS (Ss): 0.188
   f. MAPPED SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1): 0.054
   g. 5% DAMPED, SPECTRAL RESPONSE ACCELERATION PARAMETER (S_{DS}): 0.201
   h. 5% DAMPED, SPECTRAL RESPONSE ACCELERATION PARAMETER (S_{D1}): 0.087
   i. BASIC SEISMIC-RESISTING SYSTEM:

   EXISTING STEEL BUILDING SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC (EXCLUDING CANTILEVER COLUMN SYSTEMS)

   (1) RESPONSE MODIFICATION FACTOR (R): 3.0
   (2) SYSTEM OVERSTRENGTH FACTOR: 3.0
   (3) DEFLECTION AMPLIFICATION FACTOR (C_d): 3.0
   (4) SEISMIC BASE SHEAR (V): 1956 BUILDING: 102 KIPS; 1963 BUILDING: 40 KIPS; 1985 BUILDING: 18.6 KIPS
   (5) SEISMIC RESPONSE COEFFICIENT (C_s): 0.135

   STEEL ORDINARY MOMENT FRAME - NEW ROOF MONITOR

   (1) RESPONSE MODIFICATION FACTOR (R): 3.0
   (2) SYSTEM OVERSTRENGTH FACTOR: 3.0
   (3) DEFLECTION AMPLIFICATION FACTOR (C_d): 3.0
   (4) SEISMIC BASE SHEAR (V): ROOF MONITOR: 14.1 KIPS
   (5) SEISMIC RESPONSE COEFFICIENT (C_s): 0.315

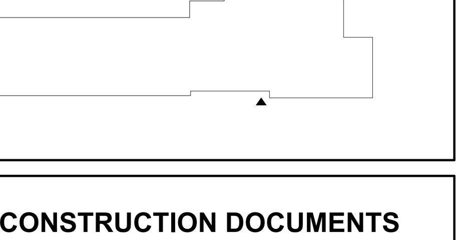
   k. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

GM2

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

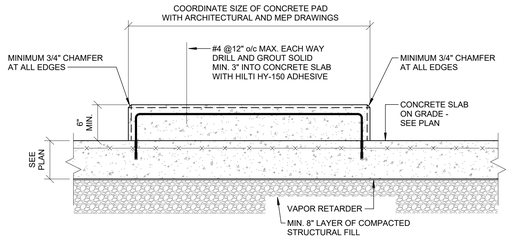
Revisions



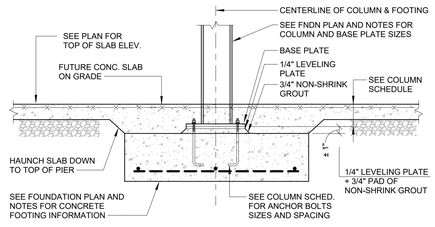
CONSTRUCTION DOCUMENTS
JUNE 5, 2026

GENERAL NOTES & ABBREVIATIONS

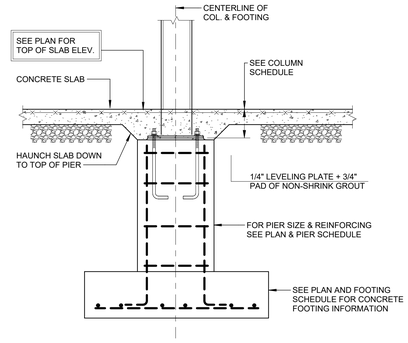
S0.1



1 TYPICAL HOUSEKEEPING PAD DETAIL
N.T.S.



2 TYPICAL INTERIOR FOOTING DETAIL
N.T.S.



3 TYPICAL INTERIOR PIER AND FOOTING DETAIL
N.T.S.

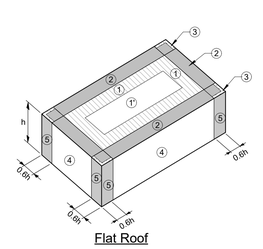
Component and Cladding Design Wind Pressures taken from ASCE 7-16, Figure 30.4-1, h < 60 ft

Effective wind area (sf)	Ultimate Net Design Wind Pressure , p_{net30} (psf) V_{ult} =130 mph, Exposure B at h = 30 ft									
	Zone 1		Zone 1'		Zone 2		Zone 3		Zone 4	Zone 5
10	+12.4	-48.2	+12.4	-27.8	+12.4	-63.9	+12.4	-87.1	+30.4	-33.0	+30.4	-40.7
20	+11.6	-45.2	+11.6	-27.8	+11.6	-59.8	+11.6	-78.9	+29.0	-31.6	+29.0	-38.0
50	+10.6	-41.0	+10.6	-27.8	+10.6	-54.4	+10.6	-68.0	+27.2	-29.8	+27.2	-34.3
100	+9.8	-37.8	+9.8	-27.8	+9.8	-50.2	+9.8	-59.8	+25.9	-28.4	+25.9	-31.6

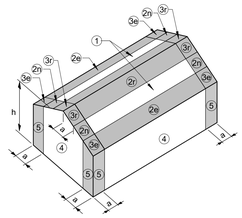
1. Plus and minus signs signify pressures acting toward and away from the surfaces, respectively.
2. Multiply values by Adjustment Factor for Building Height and Exposure, λ (lambda) $p_{net} = \lambda K_{zt} p_{net30}$
3. For any discrepancies between these values and those published in the Code, the Code values shall apply.
4. The full load is applied laterally to the wall members for strength design and 42% of the ultimate load is used for stiffness design (2021 IBC Table 1604.3, footnote f)
5. a = 10 percent of least horizontal dimension, but not less than 3 ft

Adjustment Factor, λ (K_{zt}=1.0)

Mean Roof Height	Exposure	
	B	C
15	1.00	1.21
20	1.00	1.29
25	1.00	1.35
30	1.00	1.40
35	1.05	1.45
40	1.09	1.49
45	1.12	1.53
50	1.16	1.56
55	1.19	1.59
60	1.22	1.62

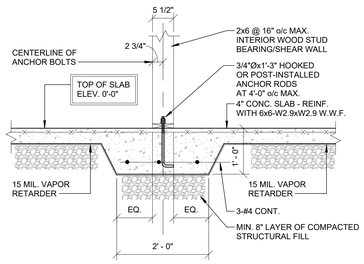


Flat Roof

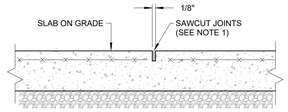


Gable Roof (27° < Θ < 45°)

ASCE 7-16 - COMPONENTS AND CLADDING PRESSURES



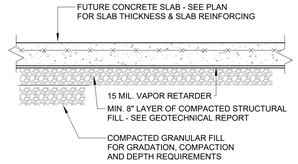
4 TYPICAL SLAB HAUNCH DETAIL AT INTERIOR BEARING/SHEAR WALLS
N.T.S.



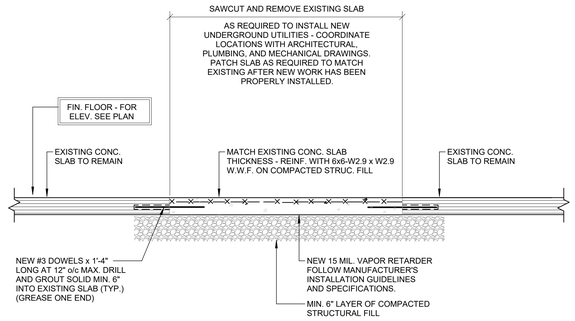
NOTES:

1. SAWCUT JOINTS USING A "SOFT-CUT" MACHINE OR EQUAL IMMEDIATELY AFTER FINISHING SLAB.
2. FILL JOINT WITH EPOXY SEALANT AFTER SLAB HAS BEEN CUT.
3. CONSTRUCTION JOINT MAY REPLACE CONTRACTION JOINT.

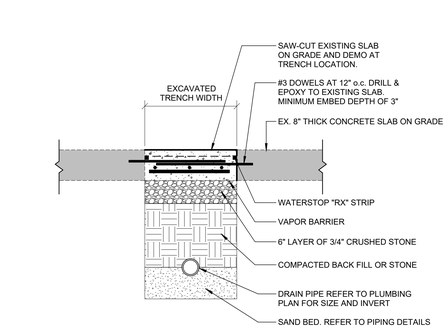
5 TYPICAL SLAB ON GRADE CONTROL JOINT DETAIL
N.T.S.



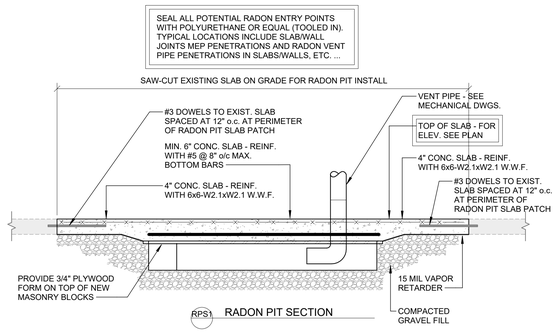
6 TYPICAL INTERIOR SLAB ON GRADE
N.T.S.

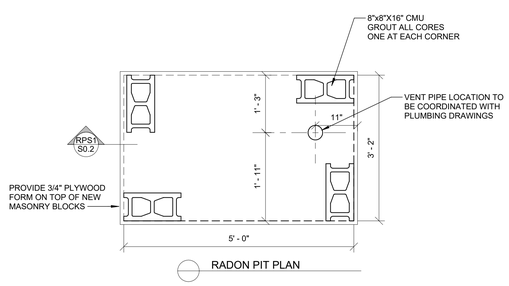


7 TYPICAL SLAB ON GRADE INFILL DETAIL AT NEW UNDERGROUND UTILITIES AND EXISTING FLOOR INFIILLS
N.T.S.

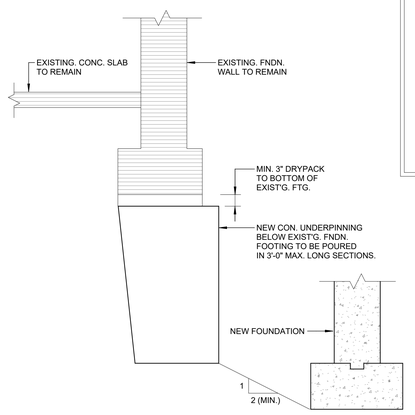


8 EX. MECHANICAL ROOM SLAB TRENCHING DETAIL
3/4" = 1'-0"





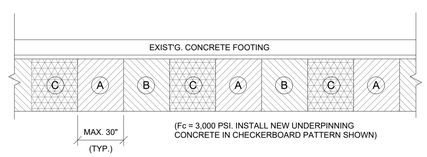
9 RADON PIT - 5'-0 x 3'-2" RECTANGLE
NTS



TYPICAL UNDERPINNING SECTION

UNDERPINNING NOTES:

1. THE UNDERPINNING DETAIL IS INTENDED TO BE USED WHEN SOIL CONDITIONS ARE CONDUCIVE TO UNDERPINNING, i.e. DENSE GRANULAR OR GRAVELLY SOILS OR STIFF COHESIVE SOILS. IF SOILS OTHER THAN THESE, SUCH AS LOOSE SANDS, SOFT CLAYS, OR FILL ARE ENCOUNTERED, CONTACT THE OWNER'S AND CONTRACTOR'S ENGINEERS FOR ALTERNATE INSTRUCTIONS TO BE TAILORED TO THE SPECIFIC CONDITIONS ENCOUNTERED.
2. THE TECHNIQUE CONSISTS OF DIGGING SOIL FROM BENEATH THE EXISTING WALL/FOOTING AND REPLACING IT WITH CONCRETE IN SECTIONS OR COLUMNS, ONE AT A TIME, IN SEQUENCE "A", THEN "B" AND THEN "C" DOWN TO THE PROPOSED BOTTOM OF FOOTING ELEVATION.
3. INITIAL EXCAVATION IS DOWN TO BOTTOM OF EXISTING FOUNDATION. EXCAVATION FOR UNDERPINNING COLUMN "A" MAY THEN BEGIN. ONCE THE UNDERPINNING CONCRETE IS CAST, GROUT SOLID TO BOTTOM OF EXIST. FOOTING, AND CURED 48 HOURS, THEN EXCAVATION FOR COLUMN "B" MAY COMMENCE. ETC.
4. GROUT FOR SPACE BETWEEN EXISTING FOUNDATIONS AND NEW CONCRETE: APPLY SIKA "SIKADUR 32 HI-MOD LPL" EPOXY BONDING AGENT TO BOTH THE BOTTOM OF THE EXISTING FOUNDATION AND THE TOP OF THE NEW UNDERPINNING CONCRETE. PACK SIKA "SIKAGROUT 212" OR APPROVED EQUIVALENT WHILE BONDING AGENT IS STILL TACKY.



TYPICAL UNDERPINNING ELEVATION

10 TYPICAL UNDERPINNING SECTION/ELEVATION DETAIL
N.T.S.

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GM2

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:250064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

TYPICAL DETAILS - STRUCTURAL

S0.2

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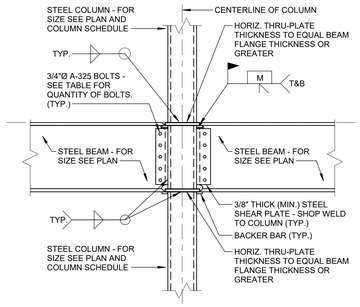
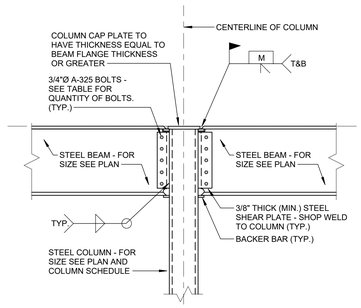


1 TYPICAL BEAM TO TUBE COLUMN MOMENT CONNECTION DETAIL - THRU-PLATE OPTION AT FLOOR LEVEL
NTS



2 TYPICAL BEAM TO TUBE COLUMN MOMENT CONNECTION DETAIL AT ROOF LEVEL
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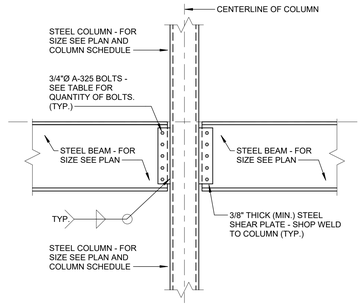
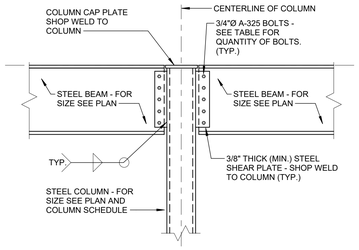
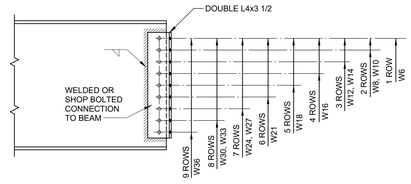


3 TYPICAL BEAM TO TUBE COLUMN NON- MOMENT CONNECTION DETAIL AT FLOOR LEVEL
NTS

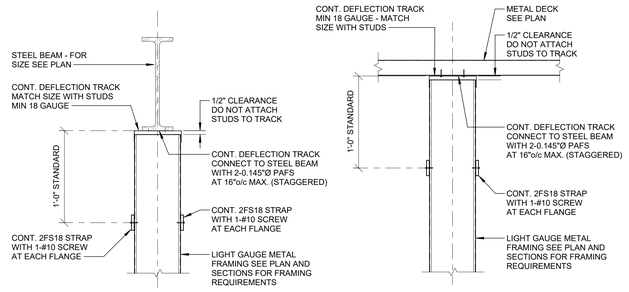


4 TYPICAL BEAM TO TUBE COLUMN NON-MOMENT CONNECTION DETAIL AT ROOF LEVEL
NTS

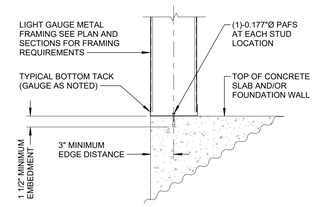


MINIMUM STEEL BEAM CONNECTION DETAIL

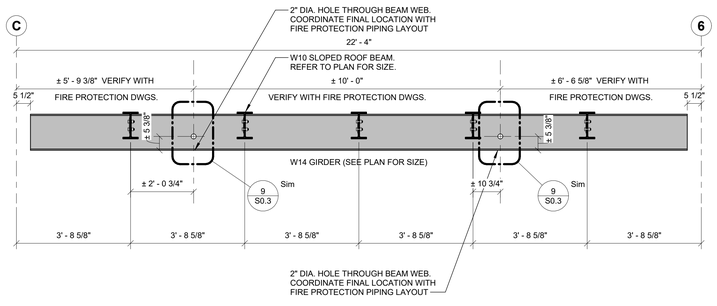
5 TYPICAL MINIMUM BEAM CONNECTION DETAIL
1/2" = 1'-0"



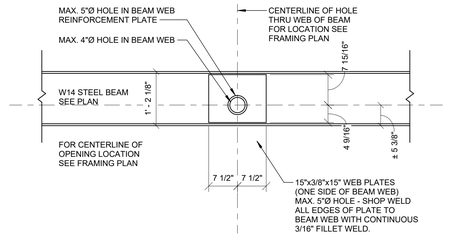
6 TYPICAL METAL STUDS CONNECTION DETAILS
NTS



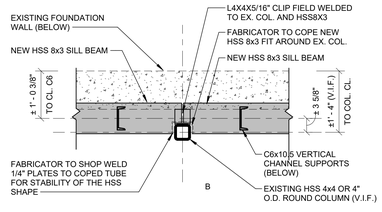
7 TYPICAL METAL STUD WALL CONNECTION TO CONCRETE
NTS



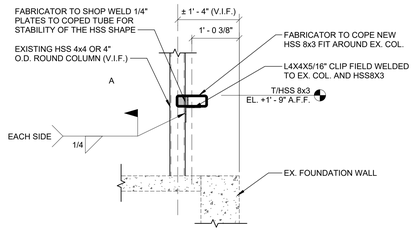
8 W18 GIRDER WITH PIPE PENETRATIONS THROUGH WEB
1/2" = 1'-0"



9 TYPICAL REINFORCEMENT DETAIL AT OPENING THRU STEEL BEAM WEB
NTS

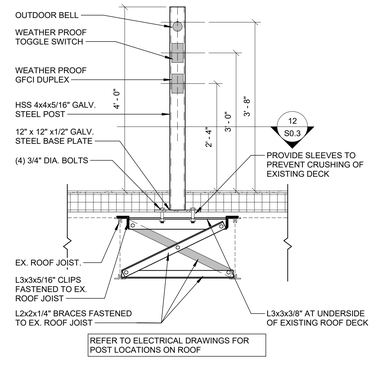


VIEW A - PLAN VIEW AT CONNECTION
3/4" = 1'-0"

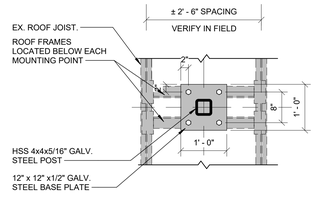


VIEW B - SECTION VIEW AT CONNECTION
3/4" = 1'-0"

10 TYPICAL HSS SILL CONNECTION AT EX. COLUMN
3/4" = 1'-0"



11 ROOF TOP RECEPTACLE PEDESTAL
3/4" = 1'-0"



12 ROOF TOP PEDESTAL PLAN VIEW
3/4" = 1'-0"

QA+M architecture
QuinebaugArcamMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

GM2

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

TYPICAL DETAILS - STRUCTURAL STEEL

S0.3

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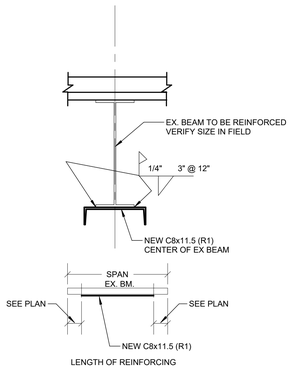
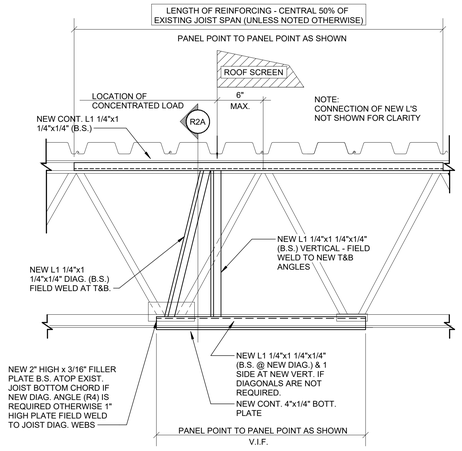
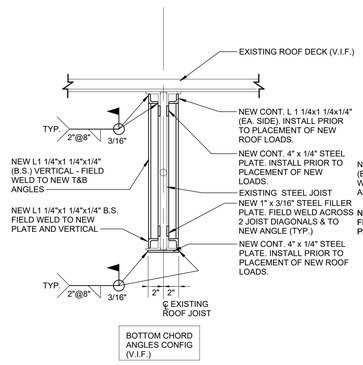


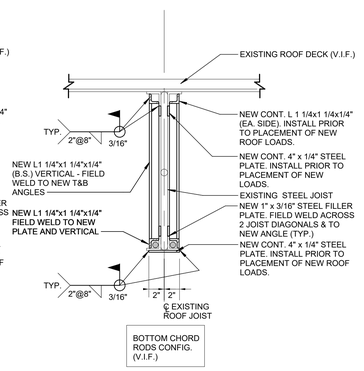
R1 REINFORCING



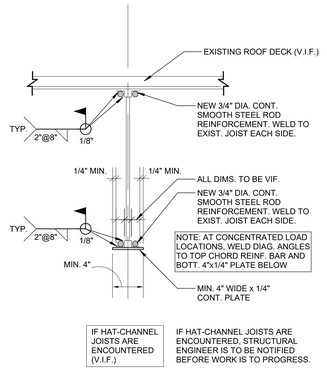
R2 REINFORCING



R2A (OPTION 1)



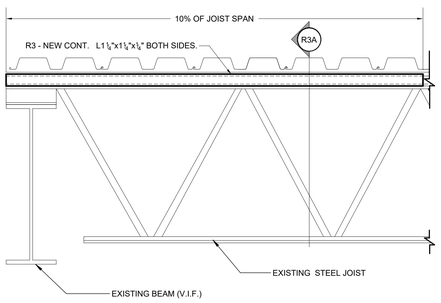
R2A (OPTION 2)



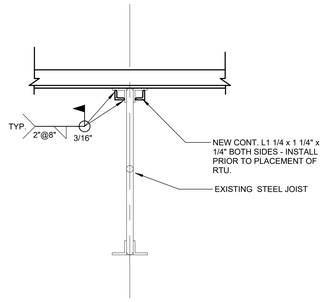
R2A (OPTION 3)

R1 BEAM REINFORCING - R1
1 1/2" = 1'-0"

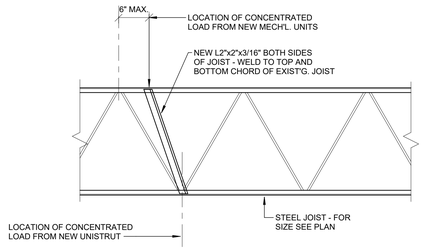
R2 REINFORCE FOR BENDING & DEFLECTION - R2
1 1/2" = 1'-0"



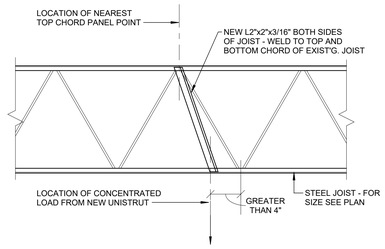
R3 REINFORCING



R3A

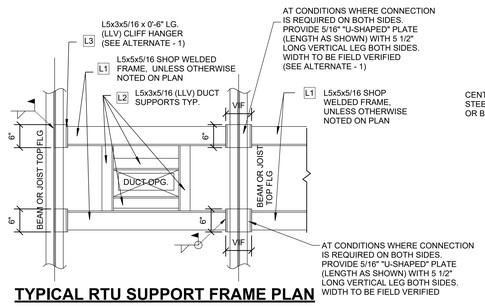


CONCENTRATED LOAD AT TOP

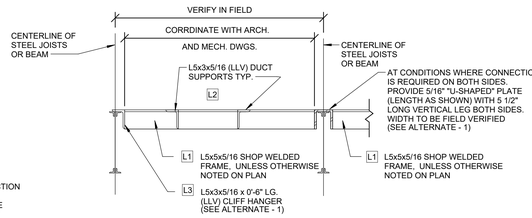


CONCENTRATED LOAD AT BOTTOM

R3 SHEAR REINFORCING - R3
1 1/2" = 1'-0"

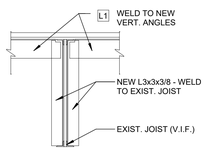


TYPICAL RTU SUPPORT FRAME PLAN

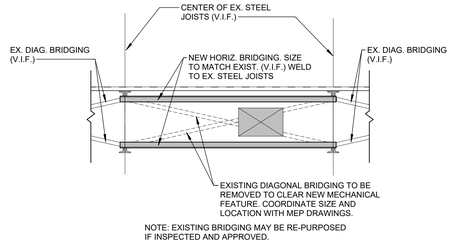


TYPICAL RTU SUPPORT FRAME DETAIL

R4 TYPICAL REINFORCING DETAIL OF EXISTING JOIST @ CONCENTRATED LOAD LOCATIONS
NTS



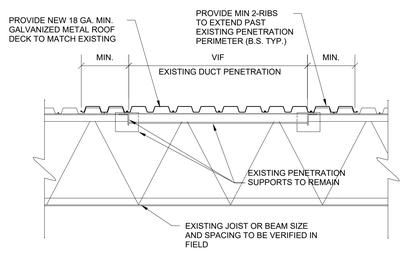
ALTERNATE - 1 TO L3 AND U-SHAPED PLATE CONNECTION



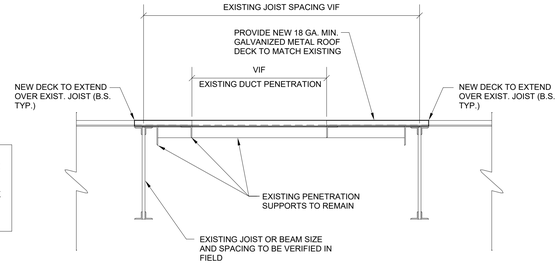
NOTE: EXISTING BRIDGING MAY BE RE-PURPOSED IF INSPECTED AND APPROVED.

1 TYPICAL RTU SUPPORT DETAILS
3/4" = 1'-0"

2 TYPICAL BRIDGING MODIFICATION DETAIL
3/4" = 1'-0"



EXISTING ROOF DECK TYPE TO BE VERIFIED IN FIELD. EXISTING DECK IS TO BE INSPECTED FOR SIGNS OF CORROSION. DETERIORATED DECK TO BE REMOVED PRIOR TO NEW DECK INSTALLATION. NEW DECK TO MATCH EXISTING STYLE. NEW DECK TO BE 18 GA. GALVANIZED



3 TYPICAL DECK INFILL
NTS

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QuennerberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

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RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

TYPICAL DETAILS - JOIST REINFORCING

S0.4

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NEW CONSTRUCTION PIER SCHEDULE			
MARK	SIZE	VERTICAL REINFORCING	TIE BAR SIZE
P2.0	2'-0" x 2'-0"	(8) #6 VERTICAL BARS	#3 TIES @ 10"
P2.2	2'-2" x 1'-10"	(8) #6 VERTICAL BARS	#3 TIES @ 10"

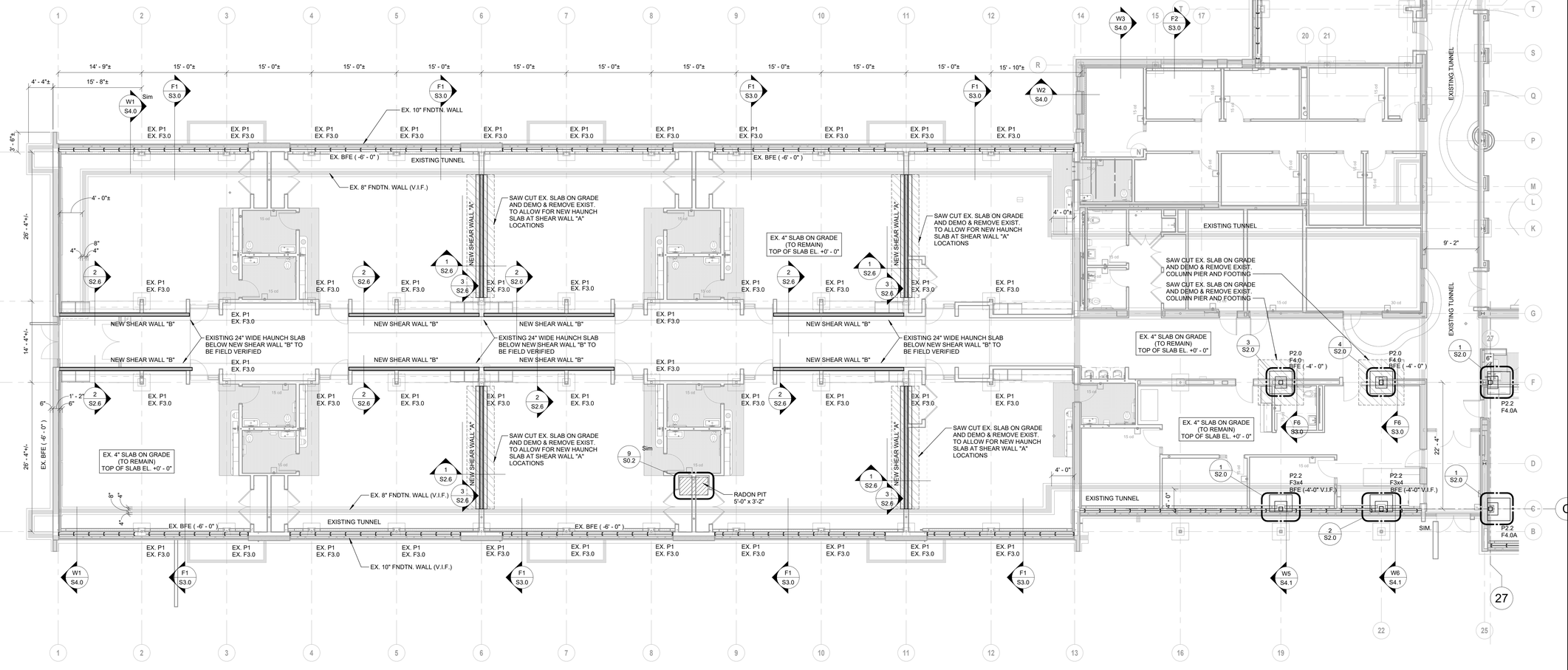
PIER SCHEDULE NOTE:

1. FOR ALL PIERS REDUCE SPACING OF TIES AT TOP OF PIER AROUND ANCHOR BOLTS TO 3" o.c. FOR A MINIMUM OF 3 TIES.

FOOTING SCHEDULE			
MARK	SIZE	DEPTH	REINFORCING
F3.0	3'-0" x 3'-0"	1'-0"	(4) #5 BARS EACH WAY BOTTOM
F3x4	3'-0" x 4'-0"	1'-0"	(3) #6 LONG BARS TOP & BOTTOM (4) #6 SHORT BARS TOP & BOTTOM
F4.0	4'-0" x 4'-0"	1'-0"	(5) #6 BARS EACH WAY BOTTOM
F4.0A	4'-0" x 4'-0"	2'-0"	(4) #6 BARS EACH WAY BOTTOM (4) #6 BARS EACH WAY TOP

FOUNDATION PLAN NOTES:

1. PATCHED AREAS OF EXISTING CONCRETE SLAB ON GRADE (INCLUDING TRENCHES COORDINATED W/ NEW UNDERGROUND PLUMBING) ARE TO BE A MINIMUM OF 4" THICK (MATCH EXISTING) REINFORCED WITH 6x6 - W2.9xW2.9 WELDED WIRE MESH CAST ON A 15 MIL VAPOR PATCHED INTO EXISTING VAPOR RETARDER (IF PRESENT). VAPOR RETARDER TO BE PLACED OVER A MINIMUM 8" LAYER OF COMPACTED STRUCTURAL FILL OR COMPACTED CRUSHED STONE. TRENCHES OR EXCAVATED AREAS ARE TO BE BACKFILLED WITH COMPACTED STRUCTURAL FILL OVER NATURAL SOILS. SEE DETAIL 7/S0.2.
2. THE PROJECT DOES NOT HAVE A GEOTECHNICAL INVESTIGATION FOR THIS PROJECT SITE. EXISTING SOILS ARE ASSUMED TO BE SITE CLASS "D" ACCORDING TO ASCE 7-16 SECTION 11.4.3 "SITE CLASS". THE ASSUMED ALLOWABLE SOIL BEARING PRESSURE WITHIN THE BUILDING FOOTPRINT IS 3000 POUNDS PER SQUARE FOOT (PSF).
3. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FLOOR ELEVATION = 0' - 0" (SITE EL. 262.96')
4. T.W.E. (. . . .) INDICATES TOP OF WALL ELEVATION REFERENCING DISTANCE ABOVE OR BELOW ELEVATION 0' - 0".
5. B.F.E. (. . . .) INDICATES BOTTOM OF FOOTING ELEVATION REFERENCING DISTANCE ABOVE OR BELOW ELEVATION 0' - 0".
6. COORDINATE THE BOTTOM OF FOOTING ELEVATIONS WITH UTILITIES. NOTIFY ARCHITECT AND / OR ENGINEER OF CONFLICTS FOR FURTHER INSTRUCTIONS. ALL PLUMBING INVERTS SHOWN ON STRUCTURAL PLANS ARE FOR GENERAL REFERENCE ONLY. FINAL INVERT ELEVATIONS ARE TO BE COORDINATED WITH PLUMBING DRAWINGS & SITE UTILITIES & DRAINAGE PLANS.
7. COLUMN PIERS ARE INDICATED ON THE DRAWINGS. FOR REINFORCING INFORMATION INCLUDING BAR SIZE, QUANTITY, TIE SIZE AND TIE SPACING INSTRUCTIONS REFER TO THE PIER SCHEDULE.
8. ELEVATION OF THE TOP OF CONCRETE COLUMN PIERS AND BUTTRESSES SUPPORTING NEW STEEL COLUMNS ARE AT THE ELEVATIONS LISTED ON THE COLUMN SCHEDULE NOTES AND PIER DETAILS.
9. THE STRUCTURAL CONDITIONS WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
10. SEE DWG. S2.6 FOR SHEAR WALL INFORMATION.



1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"

QA+M architecture
QuennBerryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

GM2

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FOUNDATION PLAN - AREA A

S1.1A

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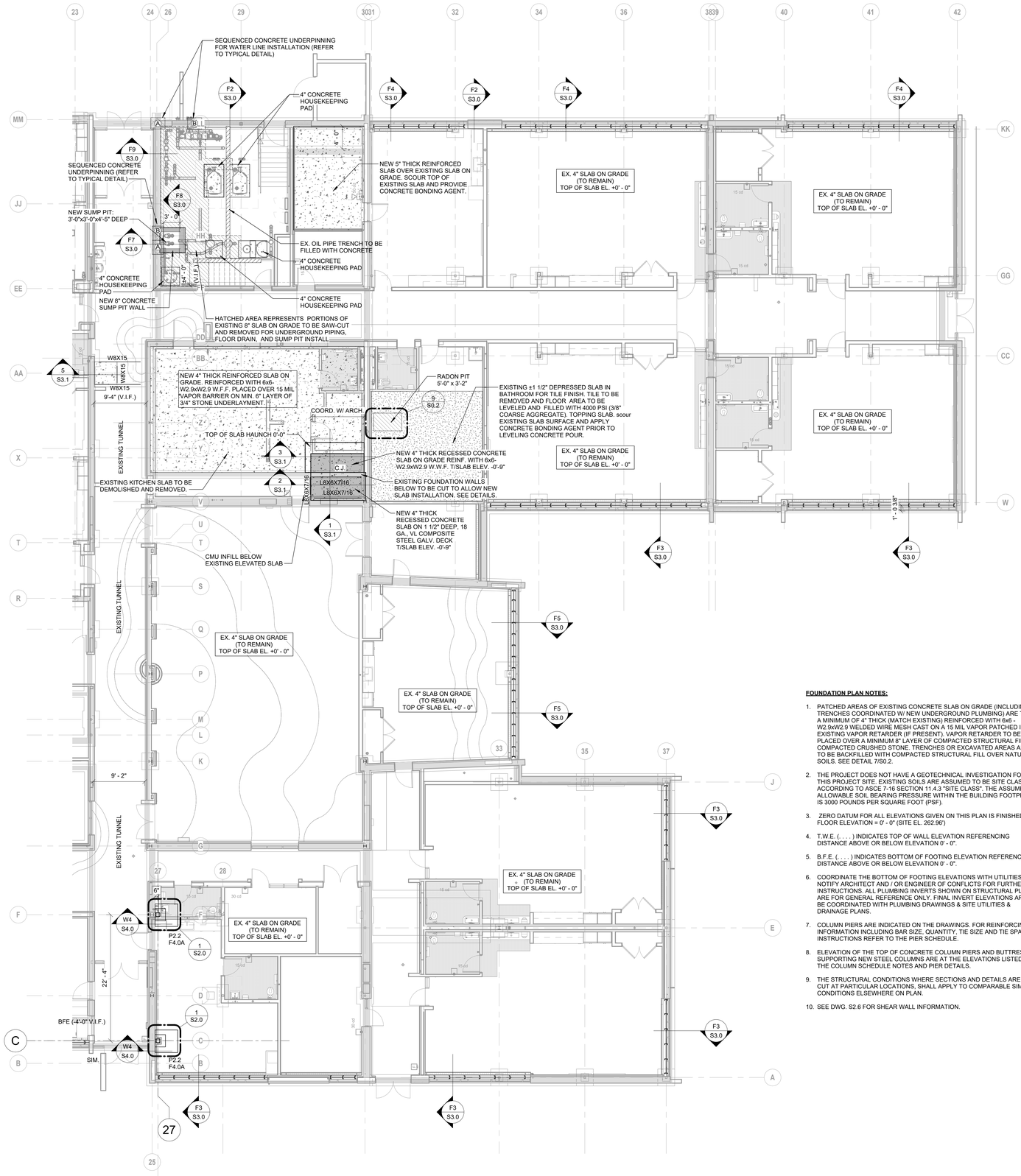

1 FOUNDATION PLAN - AREA B
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. PATCHED AREAS OF EXISTING CONCRETE SLAB ON GRADE (INCLUDING TRENCHES COORDINATED W/ NEW UNDERGROUND PLUMBING) ARE TO BE A MINIMUM OF 4" THICK (MATCH EXISTING) REINFORCED WITH 6x6 - W2.9xW2.9 WELDED WIRE MESH CAST ON A 15 MIL VAPOR PATCHED INTO EXISTING VAPOR RETARDER (IF PRESENT). VAPOR RETARDER TO BE PLACED OVER A MINIMUM 8" LAYER OF COMPACTED STRUCTURAL FILL OR COMPACTED CRUSHED STONE. TRENCHES OR EXCAVATED AREAS ARE TO BE BACKFILLED WITH COMPACTED STRUCTURAL FILL OVER NATURAL SOILS. SEE DETAIL 7/S0.2.
2. THE PROJECT DOES NOT HAVE A GEOTECHNICAL INVESTIGATION FOR THIS PROJECT SITE. EXISTING SOILS ARE ASSUMED TO BE SITE CLASS "D" ACCORDING TO ASCE 7-16 SECTION 11.4.3 "SITE CLASS". THE ASSUMED ALLOWABLE SOIL BEARING PRESSURE WITHIN THE BUILDING FOOTPRINT IS 3000 POUNDS PER SQUARE FOOT (PSF).
3. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FLOOR ELEVATION = 0' - 0" (SITE EL. 262.96')
4. T.W.E. (. . .) INDICATES TOP OF WALL ELEVATION REFERENCING DISTANCE ABOVE OR BELOW ELEVATION 0' - 0".
5. B.F.E. (. . .) INDICATES BOTTOM OF FOOTING ELEVATION REFERENCING DISTANCE ABOVE OR BELOW ELEVATION 0' - 0".
6. COORDINATE THE BOTTOM OF FOOTING ELEVATIONS WITH UTILITIES. NOTIFY ARCHITECT AND / OR ENGINEER OF CONFLICTS FOR FURTHER INSTRUCTIONS. ALL PLUMBING INVERTS SHOWN ON STRUCTURAL PLANS ARE FOR GENERAL REFERENCE ONLY. FINAL INVERT ELEVATIONS ARE TO BE COORDINATED WITH PLUMBING DRAWINGS & SITE UTILITIES & DRAINAGE PLANS.
7. COLUMN PIERS ARE INDICATED ON THE DRAWINGS. FOR REINFORCING INFORMATION INCLUDING BAR SIZE, QUANTITY, TIE SIZE AND TIE SPACING INSTRUCTIONS REFER TO THE PIER SCHEDULE.
8. ELEVATION OF THE TOP OF CONCRETE COLUMN PIERS AND BUTTRESSES SUPPORTING NEW STEEL COLUMNS ARE AT THE ELEVATIONS LISTED ON THE COLUMN SCHEDULE NOTES AND PIER DETAILS.
9. THE STRUCTURAL CONDITIONS WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
10. SEE DWG. S2.6 FOR SHEAR WALL INFORMATION.

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Revisions

AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FOUNDATION PLAN - AREA B

S1.1B

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UNIT SUPPORT NOTES:

1.(E) ROOF DECK PROFILE IS STANDARD METAL ROOF DECK COMPOSITION - V.I.F.
2.CUT EXISTING ROOFING, MINIMALLY, AS REQUIRED TO INSTALL STRUCTURAL ELEMENTS I.E. ANGLES/CHANNELS/BEAMS. COORDINATE EXACT LOCATIONS WITH MECH. CONTRACTOR. PROVIDE PROPER FLASHING AND WATERPROOFING AFTER NEW ELEMENTS ARE INSTALLED TO PROVIDE A WATERTIGHT ENCLOSURE (COORDINATE WITH ARCHITECT).
3.ALL STEEL AND CONNECTIONS EXPOSED TO THE ELEMENTS ARE TO BE HOT-DIPPED GALVANIZED.
4.CONTRACTOR TO VERIFY EXISTING STRUCTURAL ELEMENTS IN FIELD AND COORDINATE WITH MECH. DWGS. TO LOCATE THE UNIT CORRECTLY.
5.IF AT EXISTING UNIT SUPPORTS - CONTRACTOR TO VERIFY IN FIELD THE RTU FRAMING IS SUPPORTED BY MIN. „5"X3-1/2"X5/16" LLV OR BETTER . IF NOT, PLEASE UPDATE EXISTING ANGLE ON EACH SIDE OF OPENING.
6.CONTRACTOR TO NOTIFY IF THERE IS ANY DISCREPANCY FOUND TO THE STRUCTURAL ENGINEER OF RECORD.
7.IF NEW DECK INFILL IS REQUIRED: NEW INFILL ROOF DECK PROFILE TO MATCH EXIST. DECK TO SPAN BETWEEN EXISTING OR NEW SUPPORT ANGLE FRAMES. REFER TO ROOF IN-FILL DETAIL FOR MORE INFORMATION.
8.EXISTING JOIST "X" BRIDGING THAT CONFLICTS WITH NEW MECHANICAL DUCT RUNS IS TO BE CONVERTED TO PARALLEL BRIDGING AT TOP AND BOTTOM CHORD. BRIDGING REMOVAL IS NOT PERMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD.
9.ALL DETAILS ARE CONSIDERED TYPICAL AND APPLY AT SAME AND SIMILAR CONDITIONS WITHIN THE PROJECT SCOPE.
10. SUPPORT FRAMES ARE REQUIRED BENEATH ALL ROOF TOP UNIT (RTU) CURBS AND ROOF PENETRATIONS FOR DUCT AND OTHER MECHANICAL EQUIPMENT. ALL SUPPORT LOCATIONS TO BE COORDINATED WITH NEW RTU LOCATIONS. SEE MECH. AND ARCH. DWGS. FOR LOCATIONS. EXISTING UNDERSIZED OR CONFLICTING ANGLES ARE TO BE REMOVED AND REPLACED SIZED AS SHOWN IN DETAILS.
11. ALL NEW SUPPORT FRAMING IS TO BE INSTALLED TIGHT TO UNDERSIDE OF EXIST. ROOF DECK U.N.O.
12. ALL EXISTING STEEL IS TO BE VERIFIED IN FIELD PRIOR TO FABRICATION / INSTALLATION.
13. **UNLESS NOTED OTHERWISE, REINFORCING REQUIRED AT ALL CONCENTRATED LOADS WHERE NEW FRAMES DO NOT FALL ON PANEL POINTS - SEE TYPICAL DETAILS R4A AND R4B / S0.4**

RTU SUPPORT SCHEDULE:

L1 - INDICATES L5x5x5/16 DECK SUPPORT. DECK SUPPORT ANGLES PERPENDICULAR TO EXISTING FRAMING TO BE SEGMENTED BETWEEN MEMBERS AS NECESSARY (FIELD VERIFY).
L2 - INDICATES L5x3x5/16 (LLV) DUCT SUPPORTS WELDED TO BOTTOM OF HSS 6x3x1/4 AND L5x5 DECK SUPPORTS (V.I.F.)
L3 - L5x3x5/16 x 0'-6" LG. (LLV) CLIFF HANGER

EX. WIDE FLANGE BEAM AND OPEN WEB STEEL JOIST REINFORCING SCHEDULE:

R1 - REFERS TO STEEL BEAM REINFORCING WITH STEEL CHANNEL.
R2 - REFERS TO TOP CHORD AND WEB REINFORCING WITH ANGLES, AND BOTTOM CHORD REINFORCING WITH PLATE AND 3/4" DIA. ROUND STEEL BARS OR ANGLES.
R3 - REFERS TO SHEAR REINFORCING DETAIL FOR OPEN WEB STEEL JOISTS

REFER TO TYPICAL DETAIL SHEET S0.4, "JOIST REINFORCING" FOR TYPICAL OPEN WEB STEEL JOIST REINFORCING DETAILS

UNIT WEIGHTS:

UNIT	DESIGN WEIGHT
DOAS-1	2370#
DOAS-2	2704#
DOAS-3	1592#
DOAS-4	1246#
DOAS-5	1246#
DOAS-6	2372#
RTU-1	1347#
RTU-2	950#
RTU-3	1341#

NOTE: ALL UNIT DESIGN WEIGHTS SHOWN TO BE COORDINATED WITH MEP AND ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER

ROOF FRAMING PLAN NOTES:

1. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FLOOR ELEVATION = 0' - 0" (SITE EL. 262.96')
2. ELEVATION OF TOP OF STRUCTURAL STEEL ELEMENTS:

   1956 & 1963 EXISTING BUILDING: TOP OF STEEL = +10' - 4 1/2" AFF (V.I.F.)
   1985 EXISTING BUILDING: TOP OF STEEL = +10' - 4 1/2" AFF (V.I.F.)
3. ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS IS SHOWN [+. . . .] ON PLAN INDICATING DISTANCE ABOVE DATUM. SLOPE (IF ANY) IS INDICATED BY "SLOPED" OR "SL" ON PLAN. SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN, OR AS DETERMINED FROM DETAILS. ALL EXISTING BUILDING T.O.S. ELEVATIONS AND DIMENSIONS TO BE FIELD VERIFIED.
4. NEW ROOF CONSTRUCTION IS 1 1/2" DEEP, 20 GAUGE, TYPE "B", GALVANIZED METAL ROOF DECK UNLESS OTHERWISE NOTED.
5. LARGE PORTIONS OF THE EXISTING BUILDING HAVE ROOF LEAKS THAT HAVE BEEN ACTIVE FOR SOME TIME. ONCE THE EXISTING FINISHED ROOF MATERIAL AND ROOF INSULATION HAS BEEN STRIPPED AND REMOVED, THE EXISTING ROOF DECK IS REQUIRED TO BE INSPECTED FOR DAMAGE, RUST, OR DETERIORATION.

   SECTIONS OF DETERIORATED DECK WILL REQUIRE REPLACEMENT, RE-FASTENING AND/OR REPAIR DEPENDING ON THE SEVERITY OF THE EXISTING DAMAGE.

   1954 BUILDING ROOF DECK IS 1 1/2" DEEP, 20 GA. ROOF DECK
   1963 BLDG. ADDITIONS ARE 1 1/2" DEEP, UNKNOWN THICKNESS ROOF DECK
   1985 BDLG. ADDITIONS ARE 1 1/2" DEEP, 20 GA. WIDE RIB ROOF DECK
6. LOCATIONS WHERE EXISTING ROOF OPENINGS ARE TO BE ABANDONED AND COVERED OVER, ARE REQUIRED TO BE FILLED IN WITH 1 1/2" DEEP, 20 GA. TYPE "B" GALVANIZED METAL ROOF DECK.
7. ATTACH ROOF DECK WITH MECHANICAL FASTENERS.
8. PROVIDE STEEL ANGLE FRAMES AROUND ALL ROOF OPENINGS FOR ROOF DRAINS, MECHANICAL VENTILATION, AND HATCHES. FOR OPENINGS SMALLER THAN 12", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING. FRAMES SHOWN, HAVE NOT BEEN SIZED NOR LOCATED EXACTLY. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. THE STRUCTURAL CONDITIONS WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
10. ADD-ALTERNATE No.1 - ROOF SCREENS

    ADD-ALTERNATE INCLUDES COMPONENTS OF ROOF SCREEN FRAME AND BELOW ROOF SUPPORTS, INCLUDING EXISTING STEEL JOIST REINFORCING, UNLESS OTHERWISE NOTED ON PLANS.

S1 CONTRACTOR TO PROVIDE SHORING FOR EXISTING W12 GIRDERS WHERE INDICATED. SHORING IS REQUIRED TO PROVIDE WORKING ACCESS TO REMOVE THE EXISTING COLUMN AND EXISTING FOUNDATION BELOW.

1 ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"

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RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

LOW ROOF FRAMING PLAN - AREA A

S1.2A

UNIT SUPPORT NOTES:

1. (E) ROOF DECK PROFILE IS STANDARD METAL ROOF DECK COMPOSITION - V.I.F.
2. CUT EXISTING ROOFING, MINIMALLY, AS REQUIRED TO INSTALL STRUCTURAL ELEMENTS I.E. ANGLES/CHANNELS/BEAMS. COORDINATE EXACT LOCATIONS WITH MECH. CONTRACTOR. PROVIDE PROPER FLASHING AND WATERPROOFING AFTER NEW ELEMENTS ARE INSTALLED TO PROVIDE A WATERTIGHT ENCLOSURE (COORDINATE WITH ARCHITECT).
3. ALL STEEL AND CONNECTIONS EXPOSED TO THE ELEMENTS ARE TO BE HOT-DIPPED GALVANIZED.
4. CONTRACTOR TO VERIFY EXISTING STRUCTURAL ELEMENTS IN FIELD AND COORDINATE WITH MECH. DWGS. TO LOCATE THE UNIT CORRECTLY.
5. IF AT EXISTING UNIT SUPPORTS - CONTRACTOR TO VERIFY IN FIELD THE RTU FRAMING IS SUPPORTED BY MIN. „5"X3-1/2"X5/16" LLV OR BETTER . IF NOT, PLEASE UPDATE EXISTING ANGLE ON EACH SIDE OF OPENING.
6. CONTRACTOR TO NOTIFY IF THERE IS ANY DISCREPANCY FOUND TO THE STRUCTURAL ENGINEER OF RECORD.
7. IF NEW DECK INFILL IS REQUIRED: NEW INFILL ROOF DECK PROFILE TO MATCH EXIST. DECK TO SPAN BETWEEN EXISTING OR NEW SUPPORT ANGLE FRAMES. REFER TO ROOF IN-FILL DETAIL FOR MORE INFORMATION.
8. EXISTING JOIST "X" BRIDGING THAT CONFLICTS WITH NEW MECHANICAL DUCT RUNS IS TO BE CONVERTED TO PARALLEL BRIDGING AT TOP AND BOTTOM CHORD. BRIDGING REMOVAL IS NOT PERMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD.
9. ALL DETAILS ARE CONSIDERED TYPICAL AND APPLY AT SAME AND SIMILAR CONDITIONS WITHIN THE PROJECT SCOPE.
10. SUPPORT FRAMES ARE REQUIRED BENEATH ALL ROOF TOP UNIT (RTU) CURBS AND ROOF PENETRATIONS FOR DUCT AND OTHER MECHANICAL EQUIPMENT. ALL SUPPORT LOCATIONS TO BE COORDINATED WITH NEW RTU LOCATIONS. SEE MECH. AND ARCH. DWGS. FOR LOCATIONS. EXISTING UNDERSIZED OR CONFLICTING ANGLES ARE TO BE REMOVED AND REPLACED SIZED AS SHOWN IN DETAILS.
11. ALL EXISTING STEEL IS TO BE VERIFIED IN FIELD PRIOR TO FABRICATION / INSTALLATION.
12. **UNLESS NOTED OTHERWISE, REINFORCING REQUIRED AT ALL CONCENTRATED LOADS WHERE NEW FRAMES DO NOT FALL ON PANEL POINTS - SEE TYPICAL DETAILS R4A AND R4B / S0.4**

RTU SUPPORT SCHEDULE:

L1 - INDICATES L5x5x5/16 DECK SUPPORT. DECK SUPPORT ANGLES PERPENDICULAR TO EXISTING FRAMING TO BE SEGMENTED BETWEEN MEMBERS AS NECESSARY (FIELD VERIFY).
L2 - INDICATES L5x3x5/16 (LLV) DUCT SUPPORTS WELDED TO BOTTOM OF HSS 6x3x1/4 AND L5x5 DECK SUPPORTS (V.I.F.)
L3 - L5x3x5/16 x 0'-6" LG. (LLV) CLIFF HANGER

OPEN WEB STEEL JOIST REINFORCING SCHEDULE:

R1 - REFERS TO STEEL BEAM REINFORCING WITH STEEL CHANNEL.
R2 - REFERS TO BOTTOM CHORD REINFORCING WITH 3/4" DIA. ROUND STEEL BARS OR ANGLES.
R3 - REFERS TO SHEAR REINFORCING DETAIL FOR OPEN WEB STEEL JOISTS

REFER TO TYPICAL DETAIL SHEET "JOIST REINFORCING" FOR TYPICAL OPEN WEB STEEL JOIST REINFORCING DETAILS

UNIT WEIGHTS:

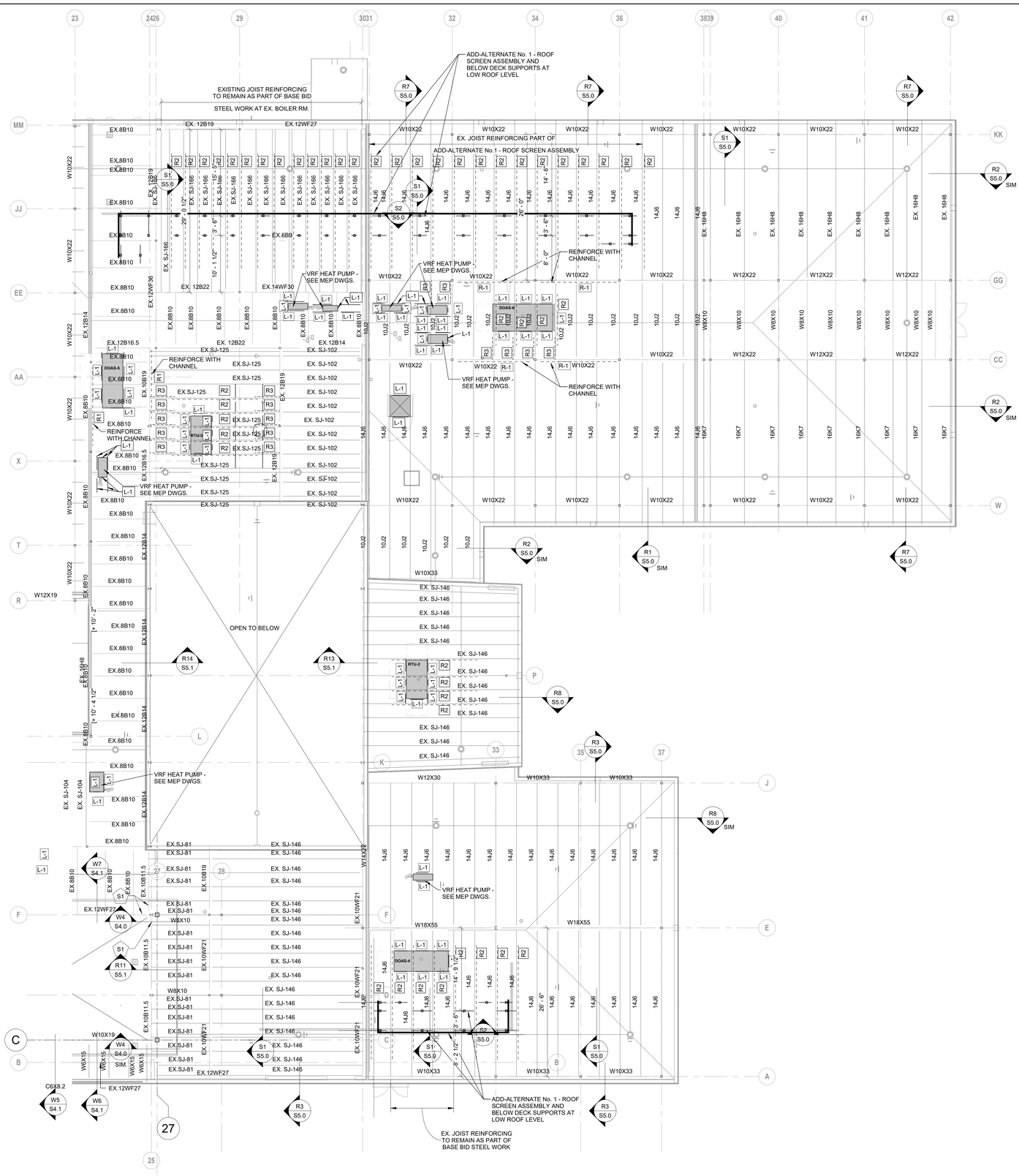
UNIT	DESIGN WEIGHT
DOAS-1	2370#
DOAS-2	2704#
DOAS-3	1592#
DOAS-4	1246#
DOAS-5	1246#
DOAS-6	2372#
RTU-1	1347#
RTU-2	950#
RTU-3	1341#

NOTE: ALL UNIT DESIGN WEIGHTS SHOWN TO BE COORDINATED WITH MEP AND ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER

ROOF FRAMING PLAN NOTES:

1. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FLOOR ELEVATION = 0' - 0" (SITE EL. 262.96')
2. ELEVATION OF TOP OF STRUCTURAL STEEL ELEMENTS:

   1956 & 1963 EXISTING BUILDING: TOP OF STEEL = +10' - 4 1/2" AFF (V.I.F.)
   1985 EXISTING BUILDING: TOP OF STEEL = +10' - 4 1/2" AFF (V.I.F.)
3. ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS IS SHOWN [+ . . .] ON PLAN INDICATING DISTANCE ABOVE DATUM. SLOPE (IF ANY) IS INDICATED BY "SLOPED" OR "SL" ON PLAN. SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN, OR AS DETERMINED FROM DETAILS. ALL EXISTING BUILDING T.O.S. ELEVATIONS AND DIMENSIONS TO BE FIELD VERIFIED.
4. NEW ROOF CONSTRUCTION IS 1 1/2" DEEP, 20 GAUGE, TYPE "B", GALVANIZED METAL ROOF DECK UNLESS OTHERWISE NOTED.
5. LOCATIONS WHERE EXISTING ROOF OPENINGS ARE TO BE ABANDONED AND COVERED OVER, ARE REQUIRED TO BE FILLED IN WITH 1 1/2" DEEP, 20 GA. TYPE "B" GALVANIZED METAL ROOF DECK.
6. ATTACH ROOF DECK WITH MECHANICAL FASTENERS. WELDING OF ROOF DECK SUPPORTS IS NOT PERMITTED.
7. PROVIDE STEEL ANGLE FRAMES AROUND ALL ROOF OPENINGS FOR ROOF DRAINS, MECHANICAL VENTILATION, AND HATCHES. FOR OPENINGS SMALLER THAN 12", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING. FRAMES SHOWN, HAVE NOT BEEN SIZED NOR LOCATED EXACTLY. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
8. THE STRUCTURAL CONDITIONS WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.



1 ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

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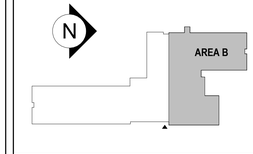

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

LOW ROOF FRAMING PLAN - AREA B

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UNIT SUPPORT NOTES:

1.(E) ROOF DECK PROFILE IS STANDARD METAL ROOF DECK COMPOSITION - V.I.F.
2.CUT EXISTING ROOFING, MINIMALLY, AS REQUIRED TO INSTALL STRUCTURAL ELEMENTS I.E. ANGLES/CHANNELS/BEAMS. COORDINATE EXACT LOCATIONS WITH MECH. CONTRACTOR. PROVIDE PROPER FLASHING AND WATERPROOFING AFTER NEW ELEMENTS ARE INSTALLED TO PROVIDE A WATERTIGHT ENCLOSURE (COORDINATE WITH ARCHITECT).
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6.CONTRACTOR TO NOTIFY IF THERE IS ANY DISCREPANCY FOUND TO THE STRUCTURAL ENGINEER OF RECORD.
7.IF NEW DECK INFILL IS REQUIRED; NEW INFILL ROOF DECK PROFILE TO MATCH EXIST. DECK TO SPAN BETWEEN EXISTING OR NEW SUPPORT ANGLE FRAMES. REFER TO ROOF IN-FILL DETAIL FOR MORE INFORMATION.
8.EXISTING JOIST "X" BRIDGING THAT CONFLICTS WITH NEW MECHANICAL DUCT RUNS IS TO BE CONVERTED TO PARALLEL BRIDGING AT TOP AND BOTTOM CHORD. BRIDGING REMOVAL IS NOT PERMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD.
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10. SUPPORT FRAMES ARE REQUIRED BENEATH ALL ROOF TOP UNIT (RTU) CURBS AND ROOF PENETRATIONS FOR DUCT AND OTHER MECHANICAL EQUIPMENT. ALL SUPPORT LOCATIONS TO BE COORDINATED WITH NEW RTU LOCATIONS. SEE MECH. AND ARCH. DWGS. FOR LOCATIONS. EXISTING UNDERSIZED OR CONFLICTING ANGLES ARE TO BE REMOVED AND REPLACED SIZED AS SHOWN IN DETAILS.
11. ALL EXISTING STEEL IS TO BE VERIFIED IN FIELD PRIOR TO FABRICATION / INSTALLATION.
12. **UNLESS NOTED OTHERWISE, REINFORCING REQUIRED AT ALL CONCENTRATED LOADS WHERE NEW FRAMES DO NOT FALL ON PANEL POINTS - SEE TYPICAL DETAILS R4A AND R4B / S0.4**

RTU SUPPORT SCHEDULE:

L1 - INDICATES L5x5x5/16 DECK SUPPORT. DECK SUPPORT ANGLES PERPENDICULAR TO EXISTING FRAMING TO BE SEGMENTED BETWEEN MEMBERS AS NECESSARY (FIELD VERIFY).
L2 - INDICATES L5x3x5/16 (LLV) DUCT SUPPORTS WELDED TO BOTTOM OF HSS 6x3x1/4 AND L5x5 DECK SUPPORTS (V.I.F.)
L3 - L5x3x5/16 x 0'-6" LG. (LLV) CLIFF HANGER

OPEN WEB STEEL JOIST REINFORCING SCHEDULE:

R1 - REFERS TO STEEL BEAM REINFORCING WITH STEEL CHANNEL.
R2 - REFERS TO BOTTOM CHORD REINFORCING WITH 3/4" DIA. ROUND STEEL BARS OR ANGLES.
R3 - REFERS TO SHEAR REINFORCING DETAIL FOR OPEN WEB STEEL JOISTS

REFER TO TYPICAL DETAIL SHEET "JOIST REINFORCING" FOR TYPICAL OPEN WEB STEEL JOIST REINFORCING DETAILS

UNIT WEIGHTS:

UNIT	DESIGN WEIGHT
DOAS-1	2370#
DOAS-2	2704#
DOAS-3	1592#
DOAS-4	1246#
DOAS-5	1246#
DOAS-6	2372#
RTU-1	1347#
RTU-2	950#
RTU-3	1341#

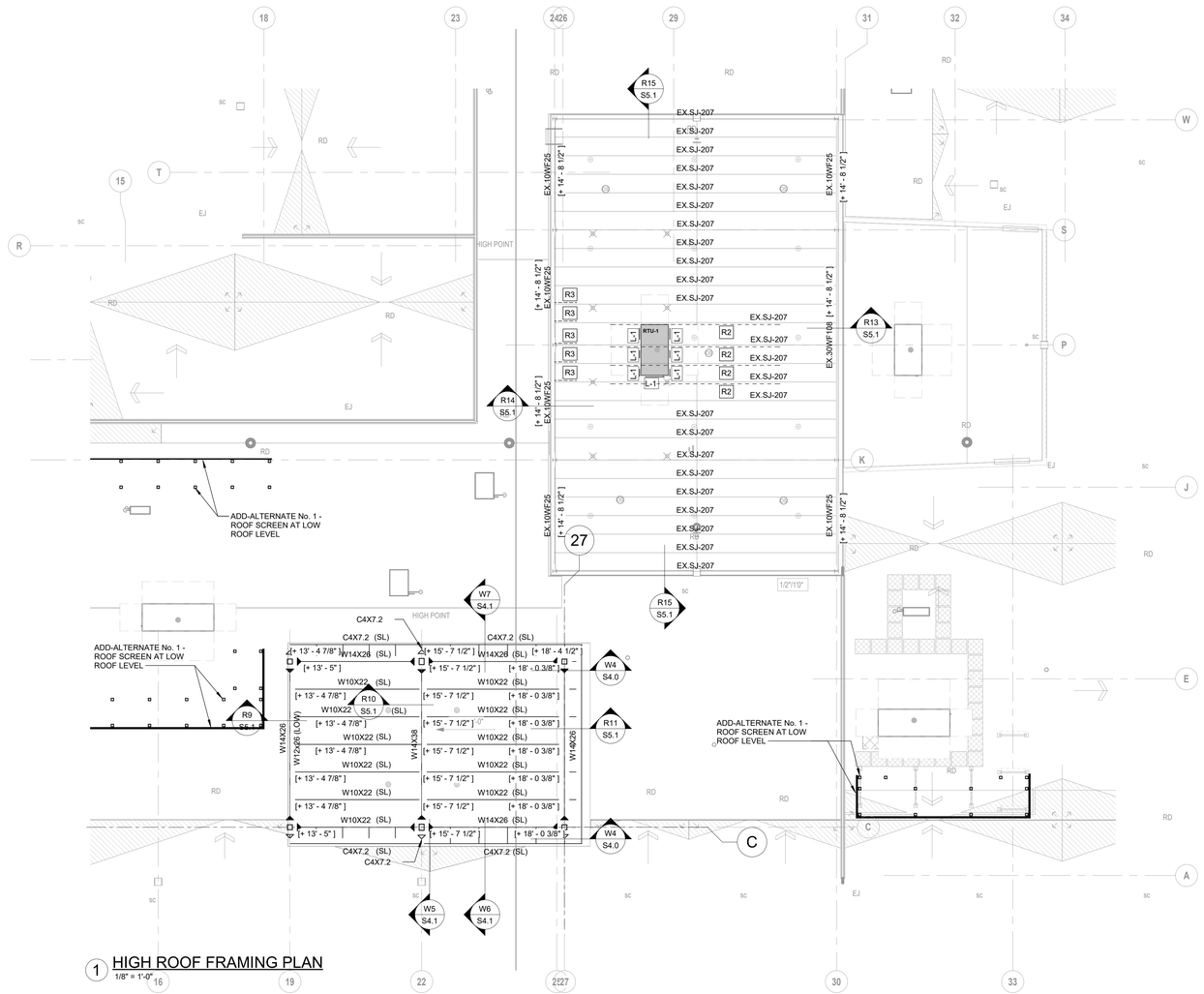
NOTE: ALL UNIT DESIGN WEIGHTS SHOWN TO BE COORDINATED WITH MEP AND ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER

HIGH ROOF FRAMING PLAN NOTES:

1. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THIS PLAN IS FINISHED FLOOR ELEVATION = 0' - 0" (SITE EL. 262.96')
2. ELEVATION OF TOP OF STRUCTURAL STEEL ELEMENTS:

   1956 EXISTING BUILDING (GYM): TOP OF STEEL = +14' - 11" AFF (V.I.F.)
   (OT/PT): TOP OF STEEL = +12' - 5 7/8" AFF (V.I.F.)

3. ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS IS SHOWN [+ . . .] ON PLAN INDICATING DISTANCE ABOVE DATUM. SLOPE (IF ANY) IS INDICATED BY "SLOPED" OR "SL" ON PLAN. SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN, OR AS DETERMINED FROM DETAILS. ALL EXISTING BUILDING T.O.S. ELEVATIONS AND DIMENSIONS TO BE FIELD VERIFIED.
4. NEW ROOF CONSTRUCTION IS 1 1/2" DEEP, 20 GAUGE, TYPE "B", GALVANIZED METAL ROOF DECK UNLESS OTHERWISE NOTED.
5. LOCATIONS WHERE EXISTING ROOF OPENINGS ARE TO BE ABANDONED AND COVERED OVER, ARE REQUIRED TO BE FILLED IN WITH 1 1/2" DEEP, 20 GA. TYPE "B" GALVANIZED METAL ROOF DECK.
6. ATTACH ROOF DECK WITH MECHANICAL FASTENERS. WELDING OF ROOF DECK SUPPORTS IS NOT PERMITTED.
7. PROVIDE STEEL ANGLE FRAMES AROUND ALL ROOF OPENINGS FOR ROOF DRAINS, MECHANICAL VENTILATION, AND HATCHES. FOR OPENINGS SMALLER THAN 12", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING. FRAMES SHOWN, HAVE NOT BEEN SIZED NOR LOCATED EXACTLY. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
8. THE STRUCTURAL CONDITIONS WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.



1 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

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BRISTOL, CT
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Project #:25064

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AREA A
AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

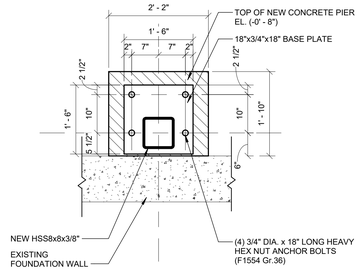
HIGH ROOF FRAMING PLAN

S1.3

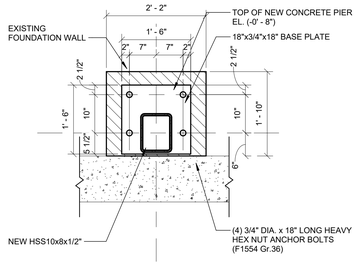
LEVEL 2							*LEVEL 2*
10' - 4 1/2"	HSS8X8X3/8	HSS10X8X1/2	HSS8X0X3/8	HSS8X8X3/8	HSS10X8X1/2	HSS8X0X3/8	*10' - 4 1/2"*
LEVEL 1							*LEVEL 1*
0' - 0"	EX. BFE (-0' - 8"	EX. BFE (-0' - 8"	T/PIER = -0' - 8"	EX. BFE (-0' - 8"	EX. BFE (-0' - 8"	EX. BFE (-0' - 8"	*0' - 0"*
Column Locations	**C-19**	**C-22**	**C-27**	**F-19**	**F-22**	**F-27**	

COLUMN SCHEDULE NOTES

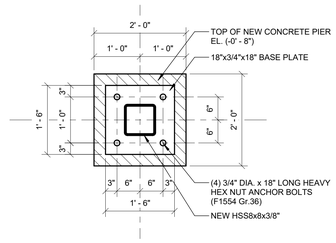
1. EXACT TOP OF COLUMN ELEVATIONS SHALL BE DETERMINED FROM SECTIONS, PLANS AND DETAILS.
2. THE DIMENSION GIVEN IN THE SCHEDULE AT THE BOTTOM OF COLUMNS INDICATES THE TOP OF CONCRETE FOOTING, PIER, OR BUTRESS SUPPORTING COLUMN. ALLOW 1" (3/4" GROUT PLUS 1/4" LEVELING PLATE) TO DETERMINE ELEVATION OF BOTTOM OF BASE PLATE.
3. ALL TUBULAR COLUMNS ARE HOLLOW, UNLESS OTHERWISE SHOWN IN DETAILS. PROVIDE 1/4" WELDED CAP PLATE TO PREVENT INTRUSION OF WATER.
4. REFER TO THE 'TYPICAL BASE PLATE DETAILS' FOR ADDITIONAL INFORMATION ON BASE PLATE GEOMETRY, ANCHOR LAYOUT, AND ANCHORAGE REQUIREMENTS.



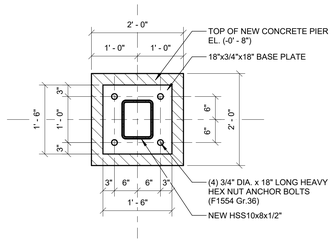
1 PLAN DETAIL AT NEW PIER
3/4" = 1'-0"



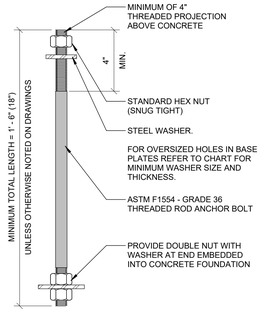
2 PLAN DETAIL AT NEW PIER - LINE 22
3/4" = 1'-0"



3 PLAN DETAIL AT NEW INTERIOR PIER
3/4" = 1'-0"



4 PLAN DETAIL AT NEW INTERIOR PIER - LINE 22
3/4" = 1'-0"

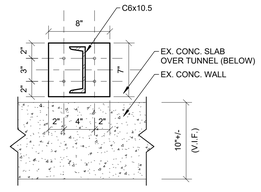


MAXIMUM SIZES FOR ANCHOR - ROD HOLES IN BASE PLATES:

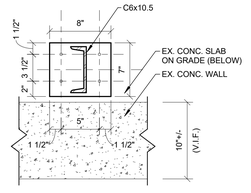
ANCHOR ROD DIA. (in.)	MAX. HOLE DIA. (in.)	MIN. WASHER SIZE (in.)	MIN. WASHER THICKNESS (in.)
3/4	1 5/16	2	1/4

NOTES: 1. REFERENCE AISC 360 TABLE 14-2
2. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.

5 TYPICAL ANCHOR BOLT DETAIL
3" = 1'-0"



6 PLAN DETAIL AT KNEE WALL SUPPORT BASE PLATE
1 1/2" = 1'-0"



7 PLAN DETAIL AT KNEE WALL SUPPORT AT SLAB ON GRADE
1 1/2" = 1'-0"

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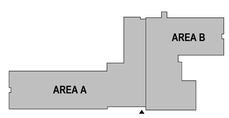

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JUNE 5, 2026

COLUMN SCHEDULE & PLAN DETAILS

S2.0

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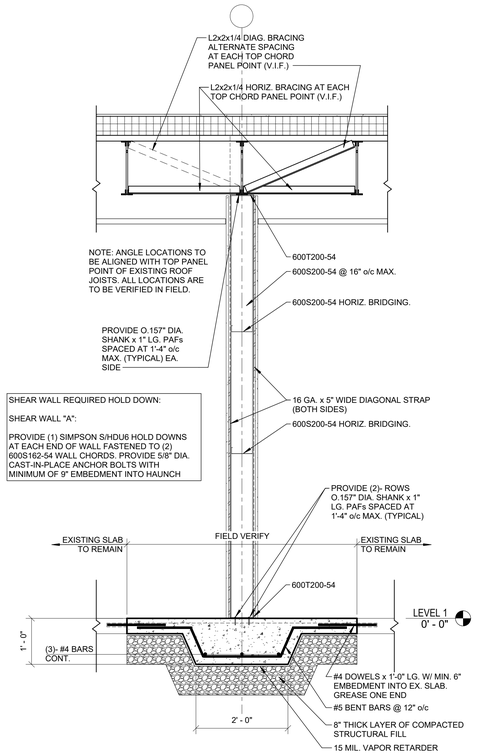
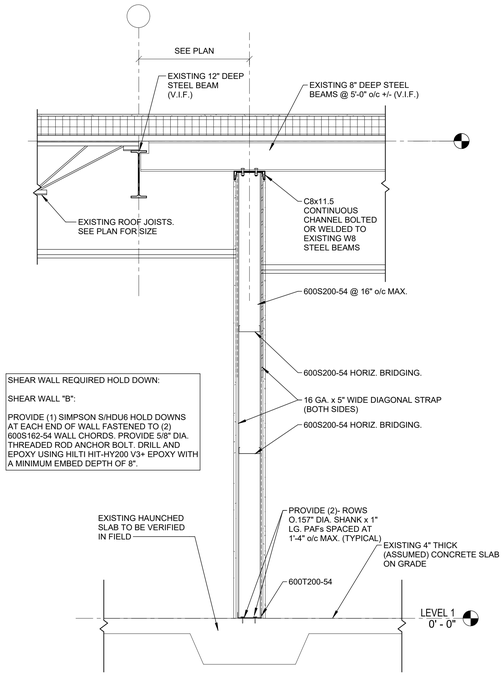
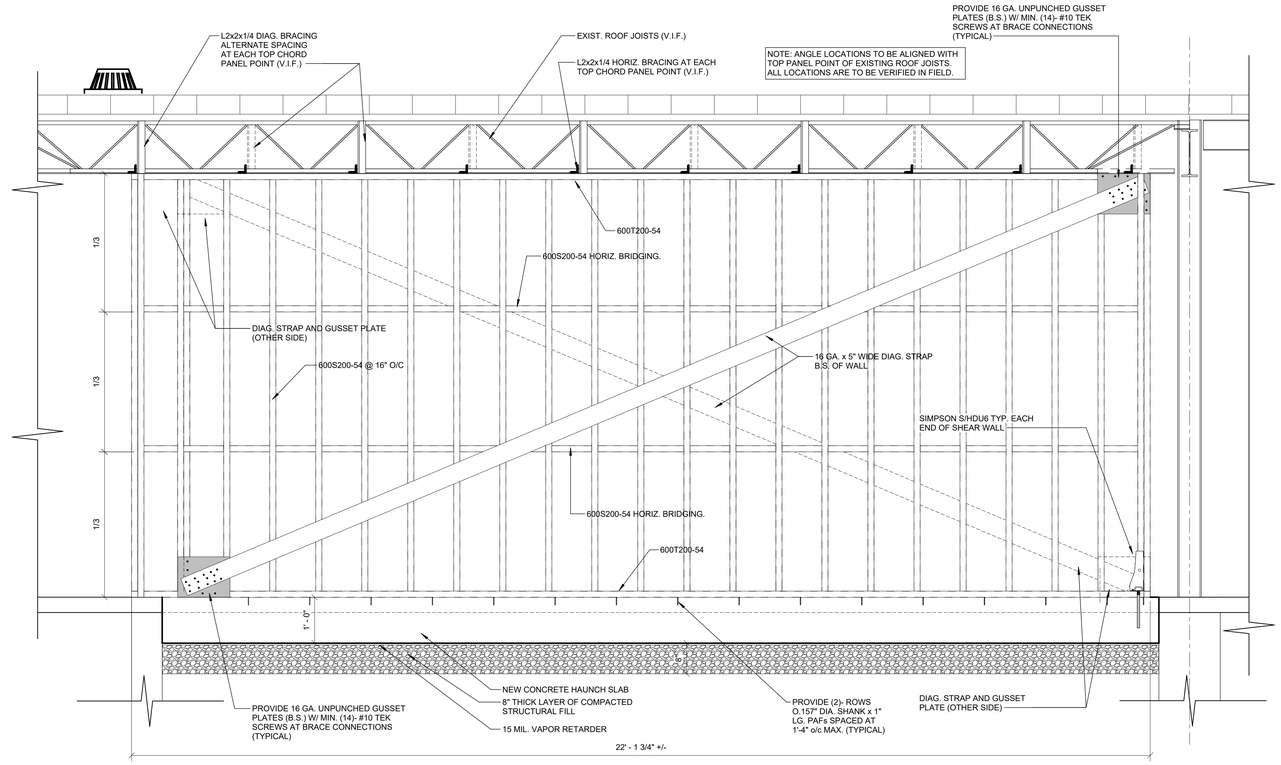


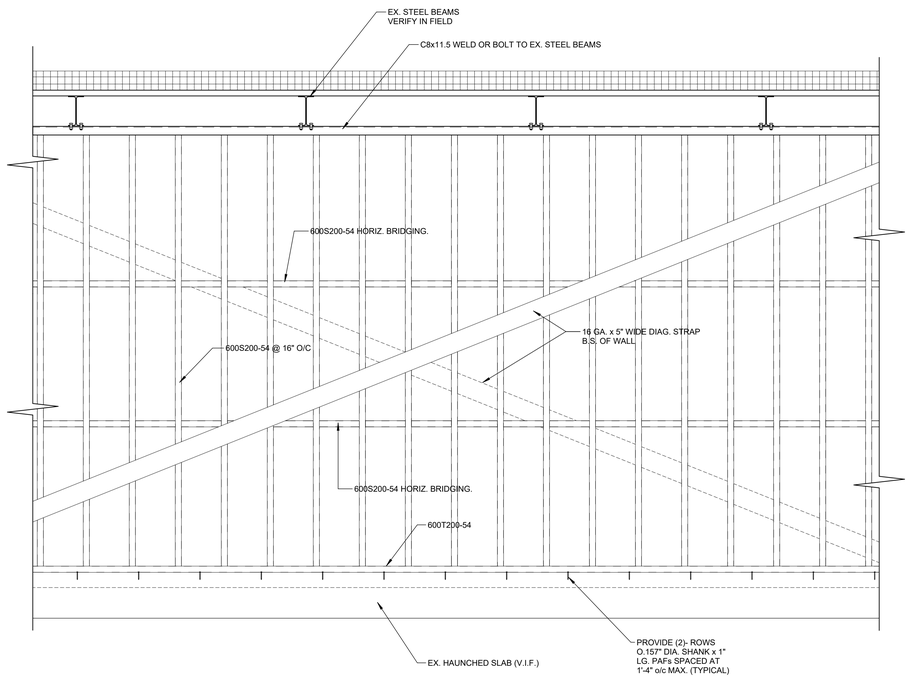
1 SECTION AT SHEAR WALL A
3/4" = 1'-0"



2 SECTION AT SHEAR WALL B
3/4" = 1'-0"



3 SHEAR WALL "A" ELEVATION
3/4" = 1'-0"



4 SHEAR WALL "B" ELEVATION
3/4" = 1'-0"

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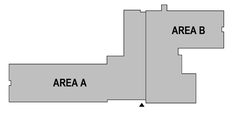

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SHEAR WALL DETAILS

S2.6

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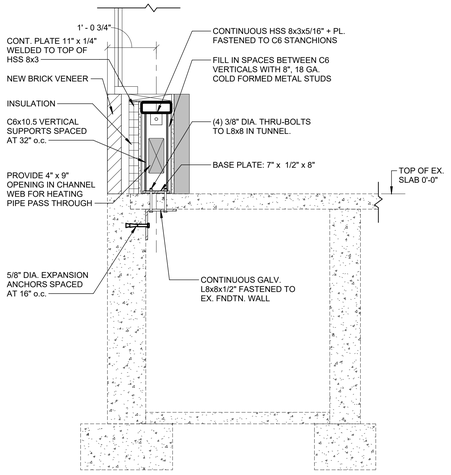
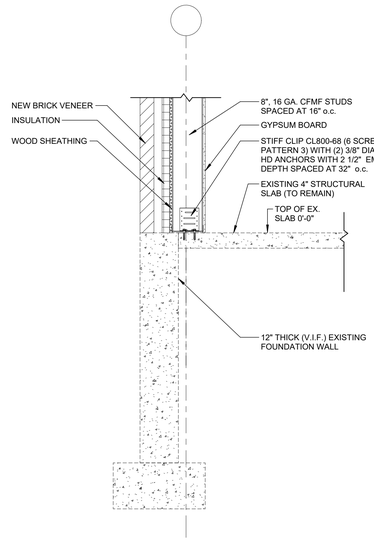
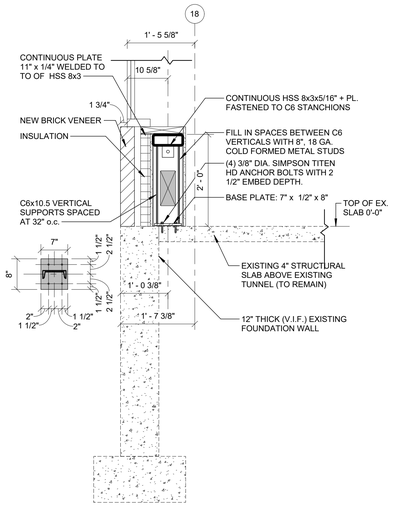


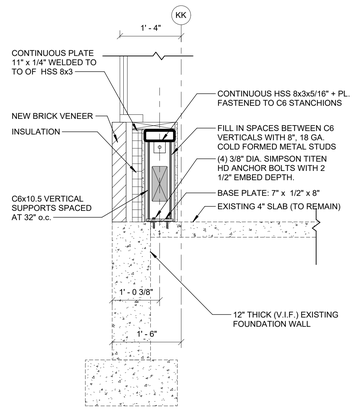
F1 SILL SUPPORT DETAIL F1
3/4" = 1'-0"



F2 SILL SUPPORT DETAIL F2
3/4" = 1'-0"



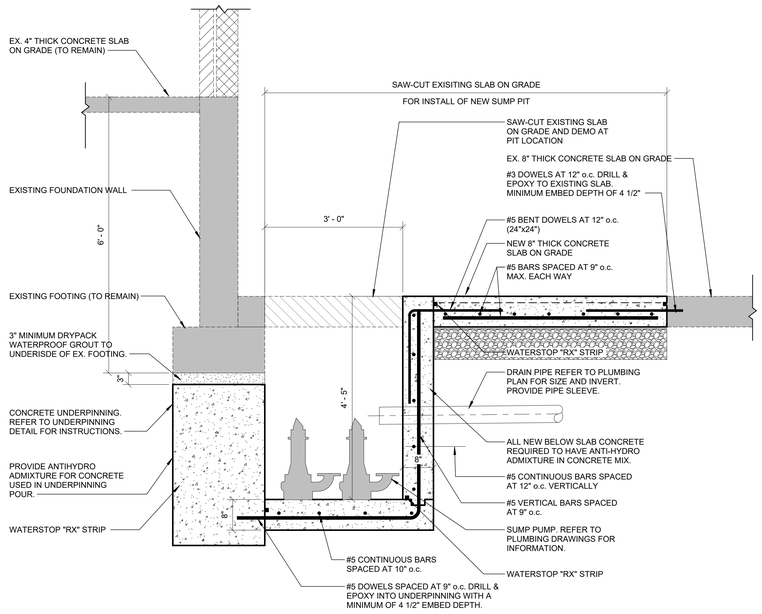
F3 SILL SUPPORT DETAIL F3
3/4" = 1'-0"



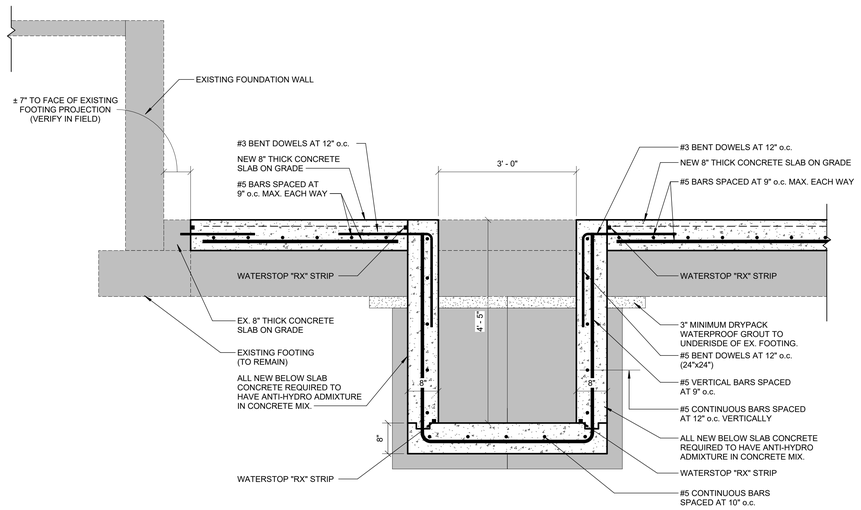
F4 SILL SUPPORT DETAIL F4
3/4" = 1'-0"

F5 SILL SUPPORT DETAIL F5
3/4" = 1'-0"

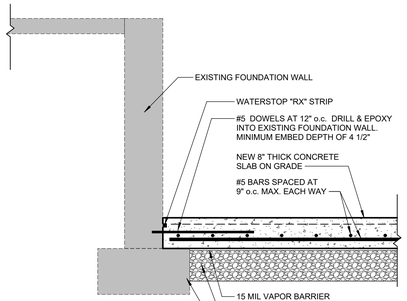
F6 FOUNDATION SECTION AT COL. LINE 6
3/4" = 1'-0"



F7 SECTION AT SUMP PIT & UNDERPINNING
3/4" = 1'-0"



F8 SECTION AT SUMP PIT
3/4" = 1'-0"



F9 SECTION AT NEW BASEMENT SLAB
3/4" = 1'-0"

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FOUNDATION SECTIONS

S3.0

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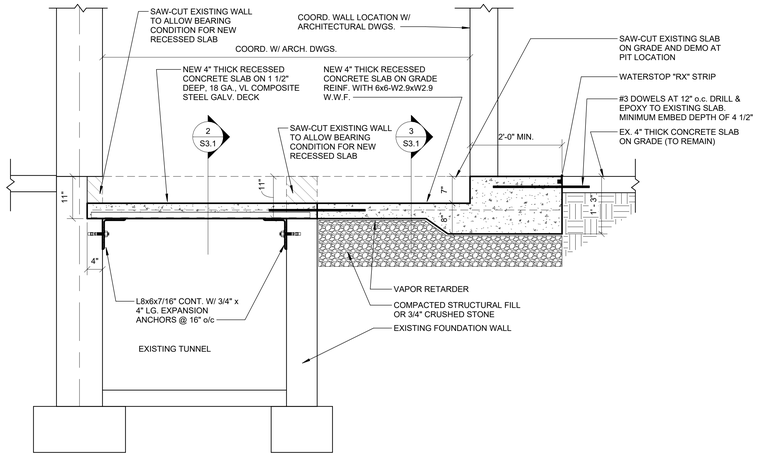
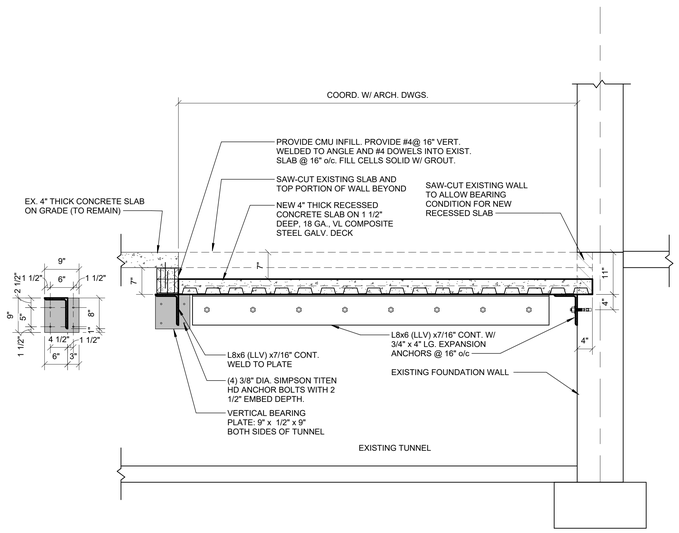


1 SECTION AT RECESSED SLAB
3/4" = 1'-0"



2 DETAIL AT SLAB RECESSION
3/4" = 1'-0"

3 DETAIL AT SLAB ON GRADE RECESSION
3/4" = 1'-0"

4 TYPICAL TUNNEL SLAB PATCH DETAIL
3/4" = 1'-0"

5 SECTION AT LARGE TUNNEL SLAB CUT
3/4" = 1'-0"

6 DETAIL AT LARGE TUNNEL SLAB CUT
3/4" = 1'-0"

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STATE OF CONNECTICUT CHRISTOPHER A. MALIK 28139 REGISTERED PROFESSIONAL ENGINEER

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EDGEWOOD PRE-K ACADEMY
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Project #:25064

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CONSTRUCTION DOCUMENTS
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FOUNDATION SECTIONS

S3.1

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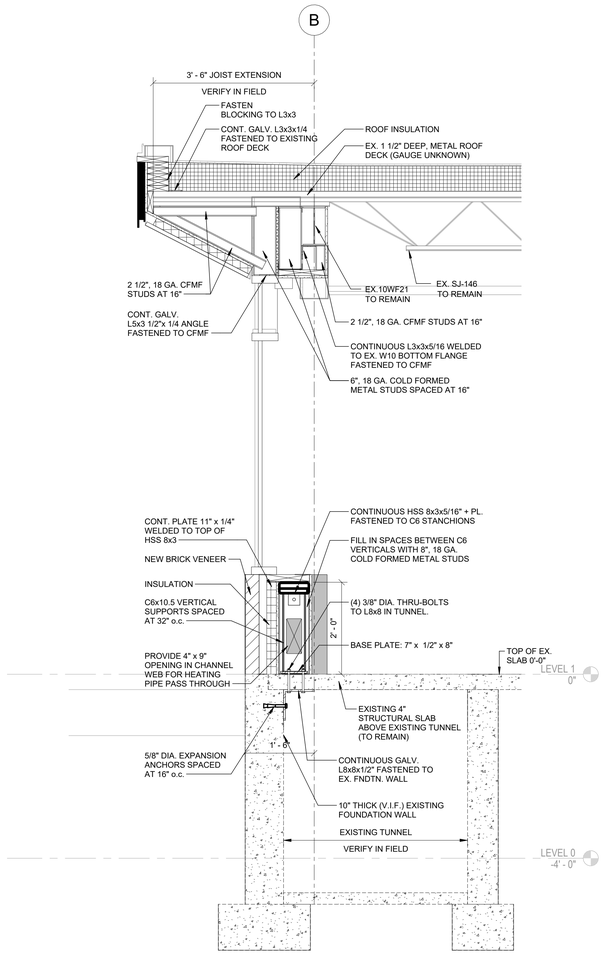
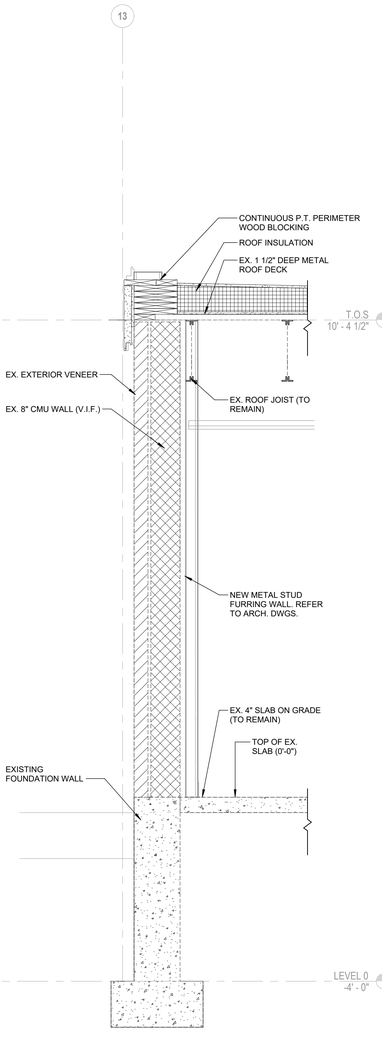
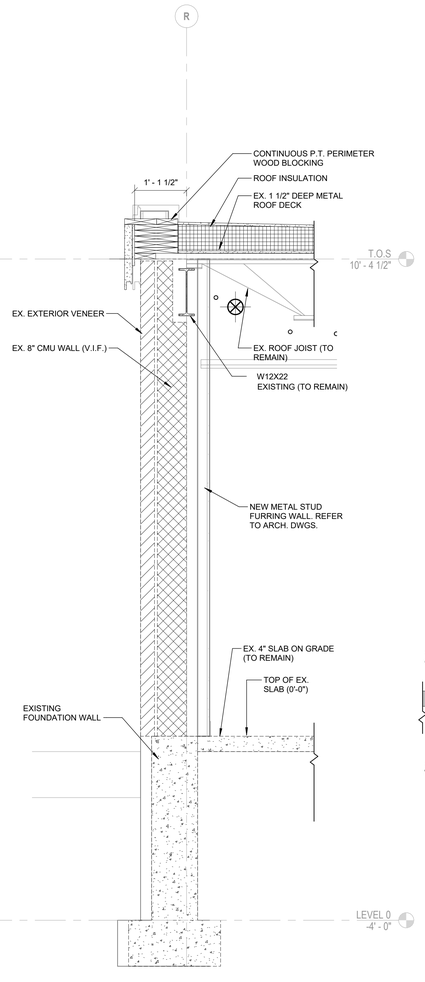


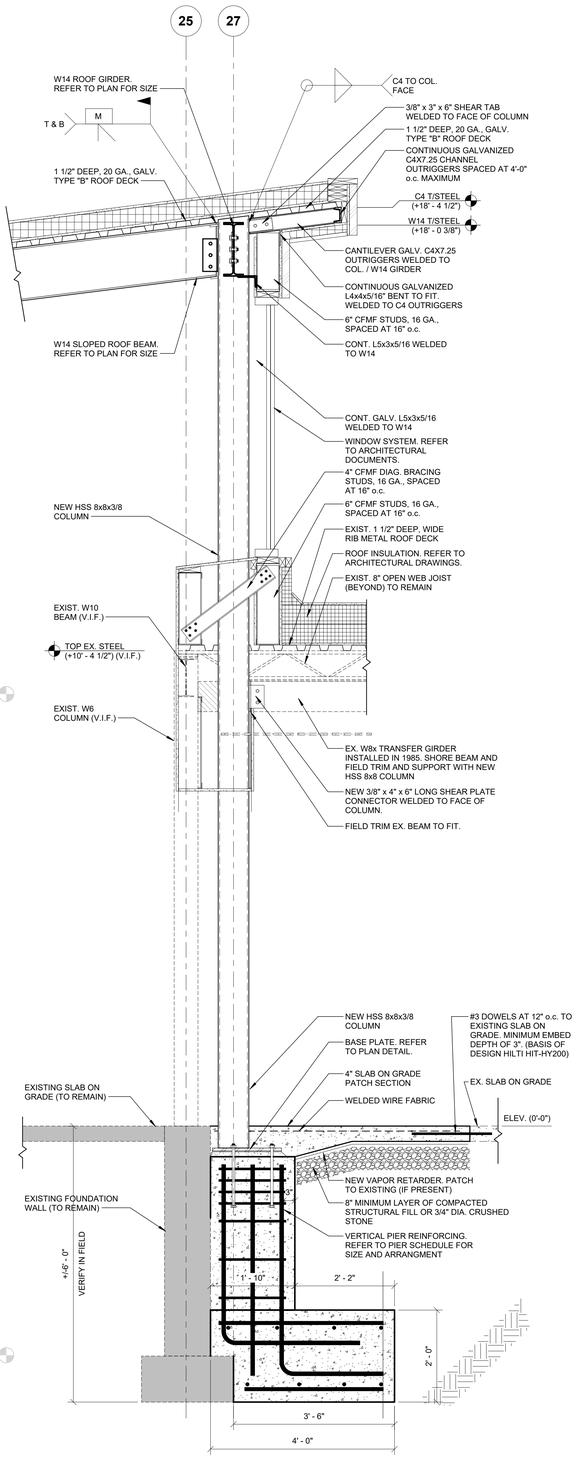
W1 S4.0 WALL SECTION W1 (1956 CLASSROOM)
3/4" = 1'-0"



W2 S4.0 WALL SECTION W2
3/4" = 1'-0"



W3 S4.0 WALL SECTION W3
3/4" = 1'-0"



W4 S4.0 WALL SECTION W4
3/4" = 1'-0"

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STATE OF CONNECTICUT CHRISTOPHER J. MARTIN REGISTERED PROFESSIONAL ENGINEER

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WALL SECTIONS

S4.0

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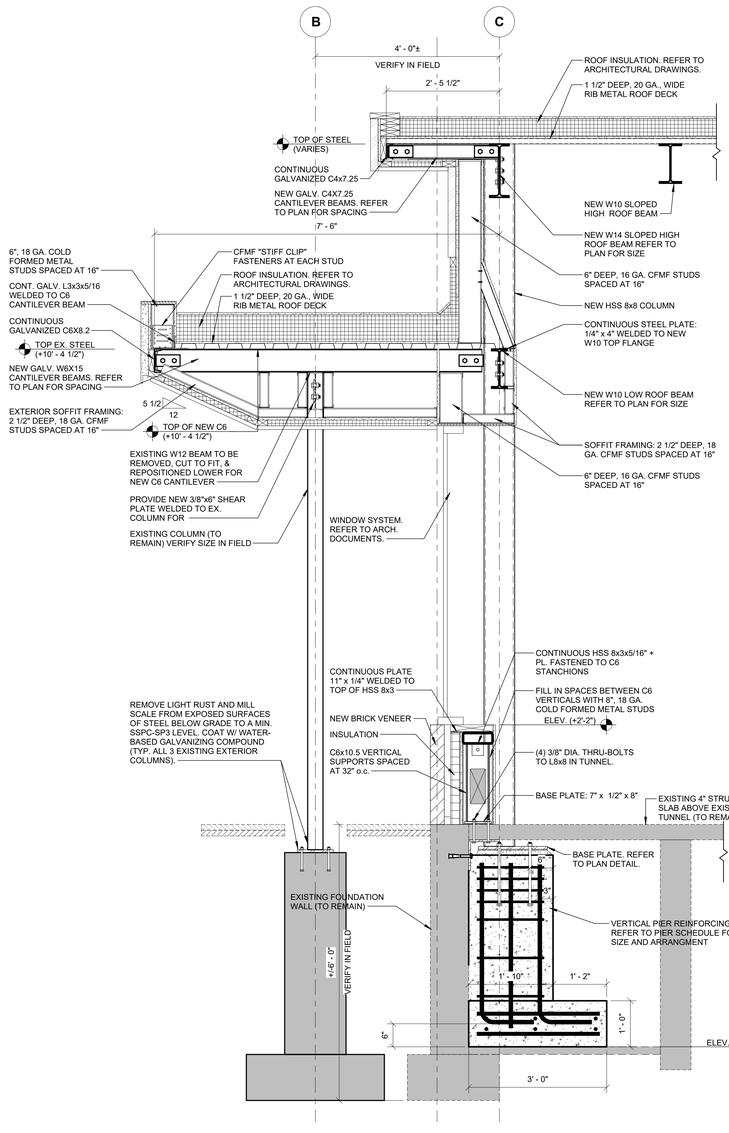
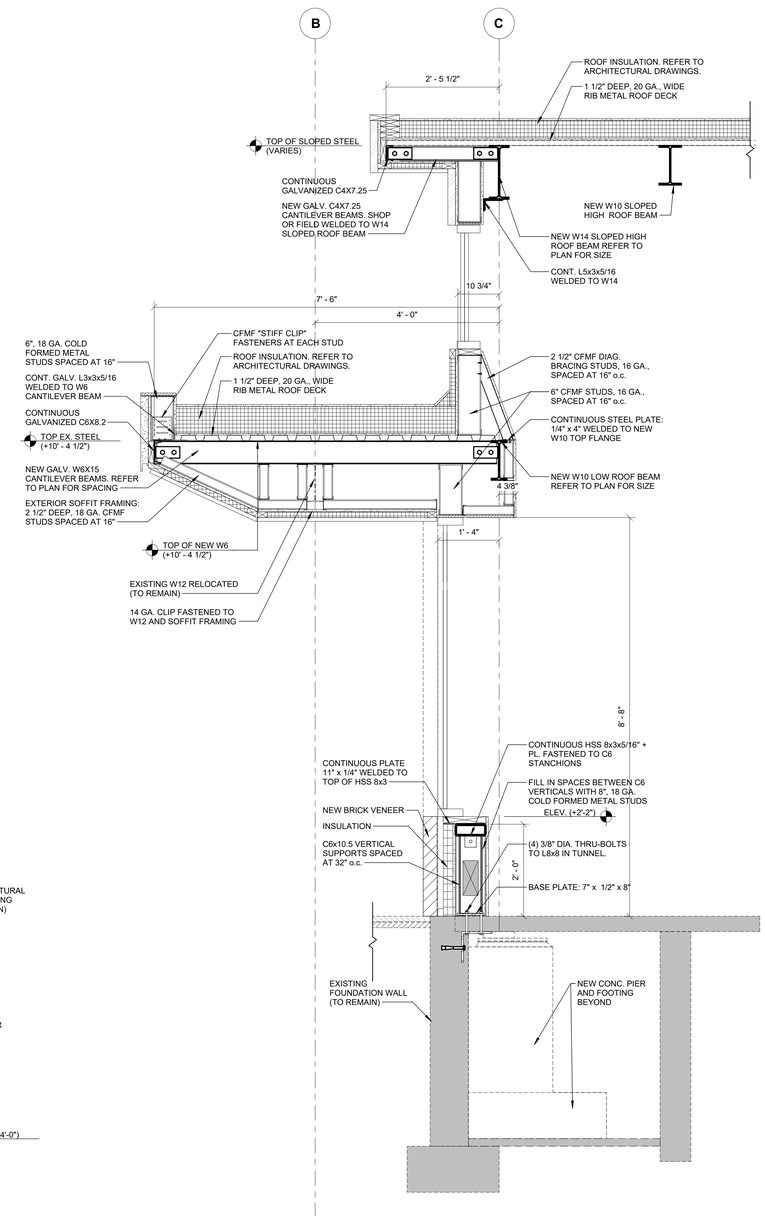
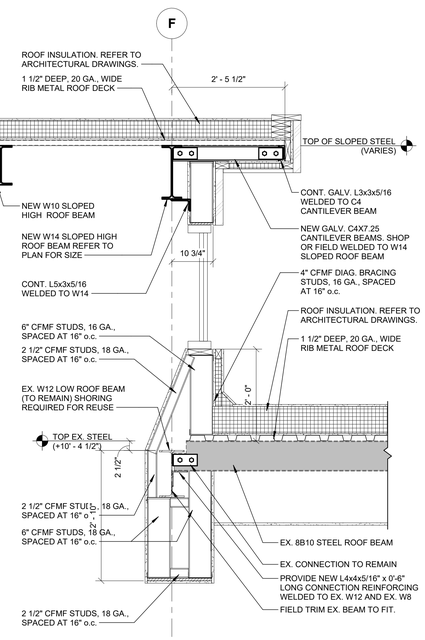


W5 S4.1 WALL SECTION W5
3/4" = 1'-0"



W6 S4.1 WALL SECTION W6
3/4" = 1'-0"



W7 S4.1 WALL SECTION W7
3/4" = 1'-0"

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RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

WALL SECTIONS

S4.1

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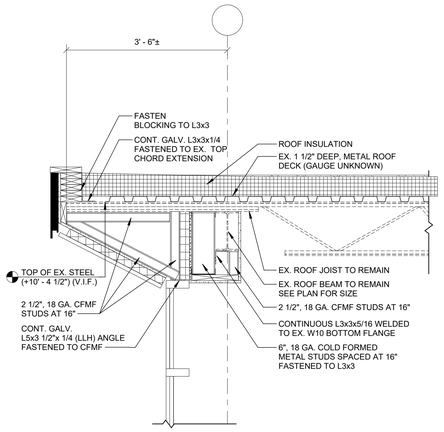
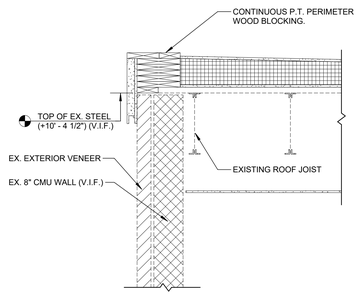


R1 ROOF EDGE DETAIL R1
3/4" = 1'-0"



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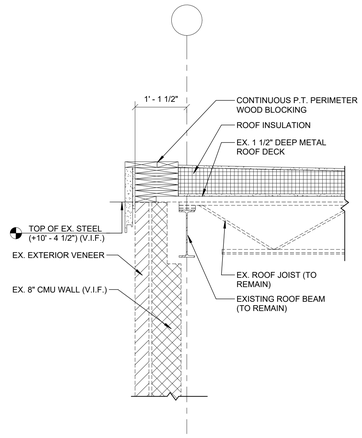

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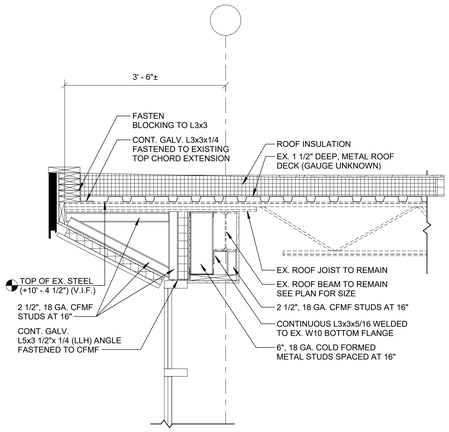

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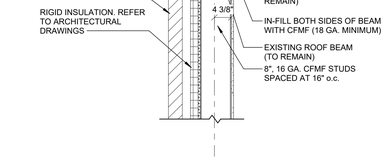

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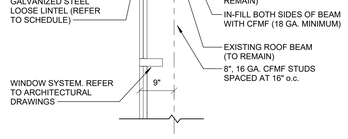

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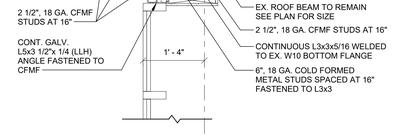
3/4" = 1'-0"



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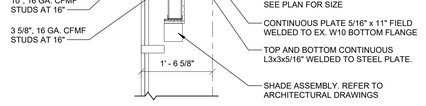
3/4" = 1'-0"



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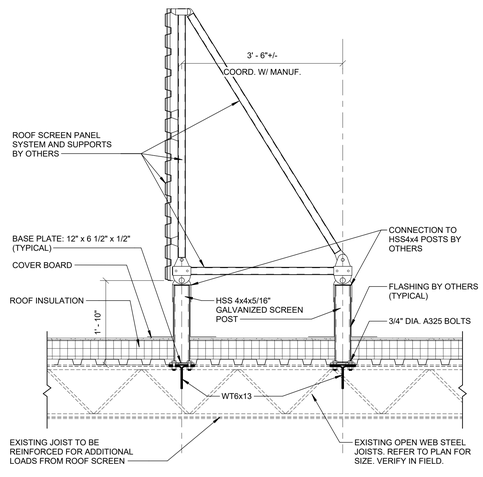

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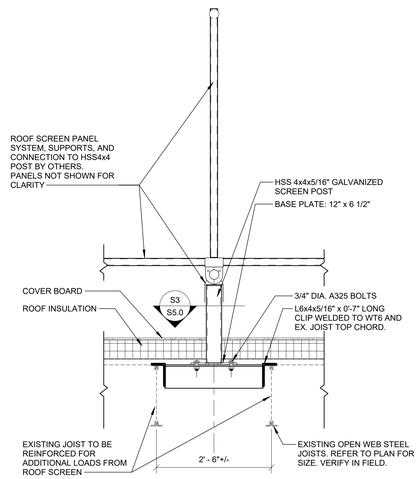
S1 ROOF SCREEN DETAIL S1
3/4" = 1'-0"



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S2 ROOF SCREEN DETAIL S2
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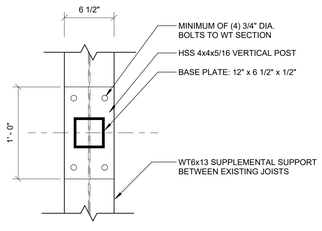

ADD-ALTERNATE No. 1
S3 ROOF SCREEN DETAIL S3
1 1/2" = 1'-0"

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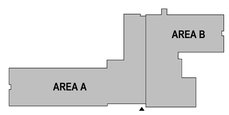
STATE OF CONNECTICUT
CHRISTOPHER J. FORDA
LICENSED PROFESSIONAL ENGINEER

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ROOF SECTIONS

S5.0

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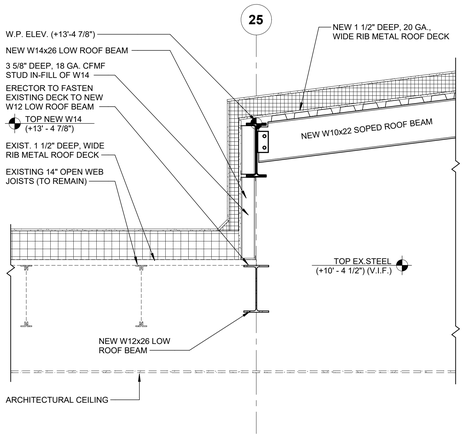
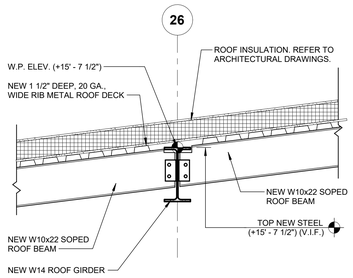


R9 S5.1 ROOF EDGE DETAIL R9
3/4" = 1'-0"



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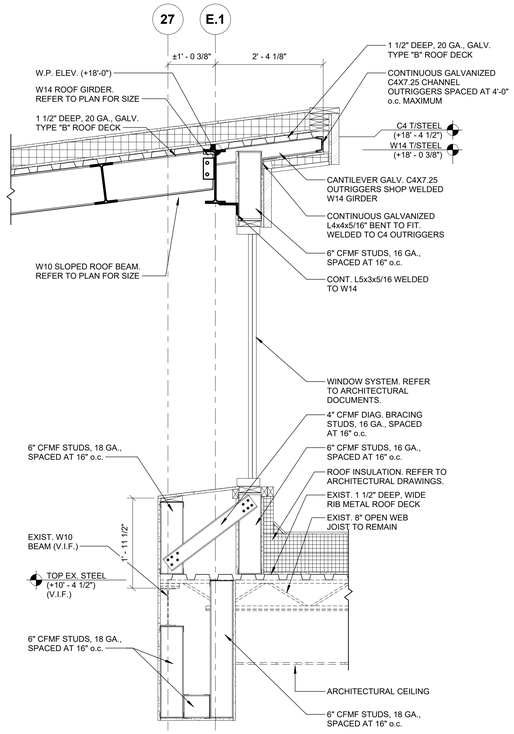

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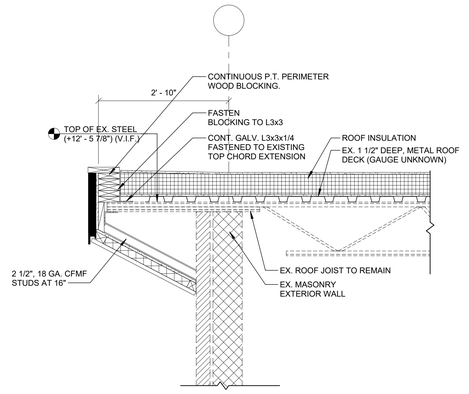
3/4" = 1'-0"



R12 S5.1 ROOF EDGE DETAIL R12
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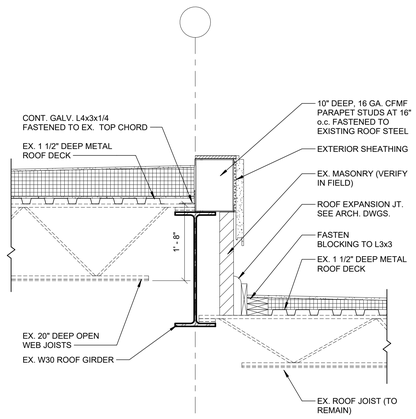

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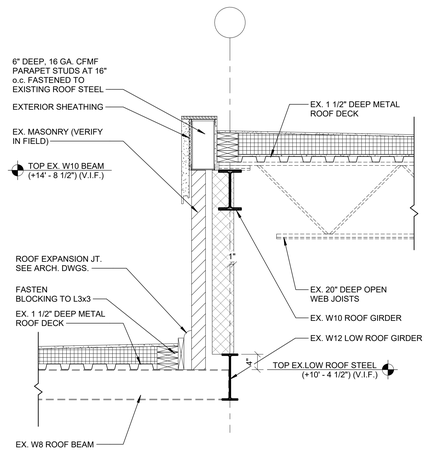
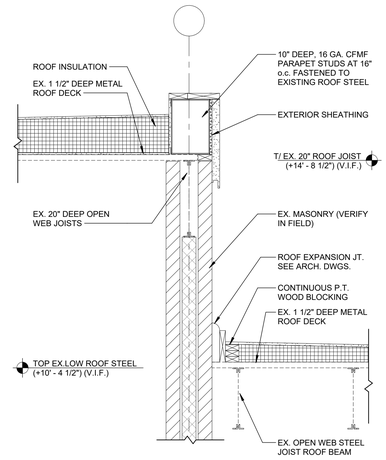


R14 S5.1 ROOF EDGE DETAIL R14
3/4" = 1'-0"



R15 S5.1 ROOF EDGE DETAIL R15
3/4" = 1'-0"

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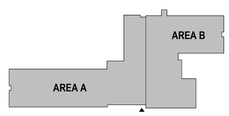

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ROOF SECTIONS

S5.1

ABBREVIATIONS

AC	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APROX	APPROXIMATE
AS	AIR SEPERATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACK DRAFT DAMPER
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BMS	BULIDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CDR	CONDENSER WATER RETURN
CDS	CONDENSER WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
COND	CONDENSER
CONV	CONVECTOR
CP	CONDENSATE PUMP
CPU	CENTRAL PROCESSING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CV	CONSTANT VOLUME
D	DEPTH
DB	DRY BULB TEMPERATURE
dB	DECIBEL
DEG or °	DEGREE
DIA or Ø	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD RADIATION
EDR	EQUIVALENT DIRECT RADIATION
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE
GAL	GALLONS
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HEIGHT
H/C	HEATING/COOLING
HC	HEATING COIL
HD	HEAD
HP	HEAT PUMP
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HT	HEAT

ABBREVIATIONS

HTHW	HIGH TEMPERATURE HOT WATER
HTHWR	HIGH TEMPERATURE HOT WATER RETURN
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
HTR	HEATER
HUM	HUMIDIFIER
HV	HEATING/VENTILATION UNIT
HW	HOT WATER
HWR	HOT WATER RETURN
HWRP	HOT WATER RETURN PUMP
HWRR	HOT WATER REVERSE RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY (CYC, PER SEC.)
ID	INSIDE DIAMETER
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESS.)
IW	INDIRECT WASTE
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
N2	NITROGREN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PCD	PUMPED CONDENSATE DRAIN (COOLING)
PCR	PUMPED CONDENSATE RETURN (STEAM)
PD	PRESSURE DROP
PH or Ø	PHASE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RG	REFRIGERANT GAS
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RP	RADIANT CEILING PANEL
RPD	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S&R	SUPPLY AND RETURN
SA	SUPPLY AIR
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
TSTAT	THERMOSTAT
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTAGE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	WATT
W	WIDTH
WB	WET BULB TEMPERATURE
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

ACOUSTICAL GENERAL NOTES

1. PROVIDE A MINIMUM OF 10'-0" OF 1" THICK ACOUSTICAL DUCT LINER UPSTREAM AND DOWNSTREAM OF EACH GENERAL DEDICATED OUTDOOR AIR SYSTEM (DOAS-) AND ROOFTOP UNIT (RTU-).
2. PROVIDE A MINIMUM OF 5'-0" OF 1" THICK ACOUSTICAL DUCT LINER UPSTREAM AND DOWNSTREAM OF ALL HORIZONTAL DUCTED FAN COIL UNITS.
3. ALL SUPPLY, RETURN AND EXHAUST DIFFUSERS AND GRILLES SHALL BE SELECTED AT 25 NC OR LOWER.
4. LOCATE ALL VOLUME DAMPERS A MINIMUM OF 6'-0" TO 8'-0" FROM DIFFUSERS AND GRILLES. IF DUCT IS SHORTER THAN 6'-0", LOCATE IT AS FAR AWAY AS POSSIBLE.

HVAC SYMBOLS

	RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT
	AIR DUCT WITH ACOUSTICAL LINING
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	TURNING VANES
AD / AD	ACCESS DOOR
	FLEXIBLE DUCT CONNECTION
	CEILING SUPPLY DIFFUSERS
	CEILING RETURN / EXHAUST GRILLE
	HARD DUCTED DIFFUSER OR GRILLE WITH FULL SIZE BOTTOM TAKE-OFF
	DIRECTION OF SUPPLY OR OUTDOOR AIRFLOW
	DIRECTION OF RETURN OR EXHAUST AIRFLOW
	DOOR UNDERCUT
BDD	BACK DRAFT DAMPER
VD	VOLUME DAMPER
FD	FIRE DAMPER
FD/SB	FIRE DAMPER WITH INTEGRAL SECURITY BARS
FS	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER SYSTEM AND ASSOCIATED DEVICES PER SPECIFICATIONS AND MEP DETAILS
M	MOTORIZED DAMPER
H	HUMIDIFIER TUBE/PANEL
XXX	SUPPLY PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
XXX	RETURN PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX)
DS	DUCT SMOKE DETECTOR WITH REMOTE INDICATING LIGHT AND TEST SWITCH
SP	DUCT STATIC PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
AFS	AIR FLOW STATION
SA	DUCT SOUND ATTENUATOR
T	ROOM THERMOSTAT
T	ROOM TEMPERATURE SENSOR
CO	CARBON MONOXIDE SENSOR
C	CARBON DIOXIDE SENSOR
H	HUMIDISTAT
S	MECHANICAL SWITCH
	FINNED TUBE RADIATION
FM	FLOW METER
RC	VRF REMOTE CONTROL

FITTINGS AND VALVES

	BACKFLOW PREVENTOR
	STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	TAKEOFF FROM BOTTOM OF MAIN PIPE
	TAKEOFF FROM TOP OF MAIN PIPE
	IN-LINE EXPANSION COMPENSATOR
	PIPE ANCHOR
	COMPANION FLANGE
	PIPE CAP OR CAPPED END OF PIPE
	UNION
	PIPE GUIDES
	PUMP
	DIRECTION OF FLUID FLOW
	VALVE ON RISER
	VALVE ON DROP
	AIR VENT
	FLOW SENSOR
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALL VALVE
	AUTO FLOW BALANCING VALVE
	SHUT-OFF VALVE (SEE SPECIFICATIONS FOR APPLICATION TYPE)
	BUTTERFLY VALVE
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	PRESSURE REDUCING VALVE
	TRIPLE DUTY VALVE
	OS&Y VALVE
	DRAIN VALVE WITH HOSE END, CAP & CHAIN OR WALL HYDRANT / HOSE BIBB
M	MOTORIZED BUTTERFLY VALVE
	PRESSURE RELIEF SAFETY VALVE
A	AQUASTAT
T	TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
T	TEMPERATURE GAUGE WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
T	THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
P	PRESSURE GAUGE
P	PRESSURE SENSOR WITH SYPHON (STEAM)
	FLEXIBLE CONNECTOR

DUCT SIZING	
20x12	RECTANGULAR DUCT
20/12	FLAT OVAL DUCT
20"ø	ROUND DUCT

HVAC GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL PIPING AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. INSTALL SMOKE DETECTORS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 2,000 CFM AND GREATER.
11. PROVIDE SMOKE DAMPERS IN BOTH SUPPLY & RETURN AIR DUCTS FOR AIR HANDLING EQUIPMENT 15,000 CFM AND GREATER.
12. PROVIDE SMOKE DAMPERS AND SMOKE DETECTORS AT DUCT PENETRATIONS OF SMOKE-BARRIERS, AND AT ELEVATOR SHAFT VENTS PER CODE REQUIREMENTS.
13. PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE-RATED CONSTRUCTION, INCLUDING WALLS, SHAFTS AND FLOOR PENETRATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.
14. PROVIDE AN AUTOMATIC TEMPERATURE CONTROL SYSTEM COMPLETE IN ALL REGARDS. ALL ZONES, VAV'S AND SYSTEM SHALL BE THERMOSTATICALLY CONTROLLED. REVIEW THE PLANS AND SPECIFICATIONS OF ALL MEP TRADES FOR A COMPLETE SCOPE OF THE WORK.
15. PIPING SHALL BE SUPPORTED FROM STRUCTURE ABOVE. TO MAXIMIZE HEAD ROOM, INSTALL PIPING TIGHT TO BOTTOM OF BEAMS WHEN RUNNING PERPENDICULAR TO BEAM; INSTALL PIPING TIGHT TO FLOOR SLAB WHEN RUNNING PARALLEL TO BEAM; PROVIDE ALL NECESSARY FITTINGS AND TRANSITIONS.
16. PROVIDE THROTTLING VALVES AND SHUT-OFF VALVES AS INDICATED IN SPECIFICATIONS IN ADDITION TO THOSE INDICATED ON THE DOCUMENTS.
17. INSTALL ALL EQUIPMENT VALVES AS REQUIRED BY MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS AND AS DETAILED.
18. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS.
19. PROVIDE PRESSURE RELIEF DOORS FOR AIR SYSTEMS, PER THE SPECIFICATIONS.
20. PROVIDE MOTORIZED DAMPERS AT ALL PERMANENT OPENINGS (EXHAUST, SUPPLY, RELIEF, O.A. INTAKES, MAKE-UP AIR, SMOKE VENTS, ETC.) EXCEPT DRYER, KITCHEN, AND FUME EXHAUST AND PROVIDE A MEANS TO CONTROL THE DAMPER OPERATION.
21. ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.
22. PROVIDE DUCT TAKE-OFF TYPES AND VOLUME DAMPERS PER THE SPECIFICATIONS AND DUCT TAKE-OFF DETAILS ON DRAWINGS. TAKE-OFFS SHOWN ON FLOOR PLANS DO NOT REPRESENT THE SPECIFIC TYPE OF TAKE-OFF REQUIRED; CONSULT THE DETAILS AND SPECIFICATIONS.
23. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, EXHAUST, AND RETURN BRANCH DUCTS.
24. COORDINATE AND VERIFY LOCATIONS OF ALL ITEMS REQUIRING ACCESS WITH ARCHITECT IN FIELD., INCLUDING VALVES, VOLUME DAMPERS, FIRE DAMPERS, ETC.
25. ALL EQUIPMENT LOCATED ON THE ROOF THAT REQUIRES SERVICING SHALL BE LOCATED A MINIMUM 10'-0" FROM EDGE OF THE ROOF.
26. ALL EXPOSED DUCTWORK SHALL BE FLAT, OVAL, OR ROUND. COORDINATE WITH ARCHITECT'S CEILING PLANS AND IDENTIFY ON DUCTWORK SHOP DRAWINGS.
27. ALL DUCTWORK AND PIPING CROSSING SEISMIC JOINTS SHALL ACCOMMODATE DIFFERENTIAL MOTION. REFER TO DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS.
28. MOUNT THERMOSTATS/TEMPERATURE SENSORS 48" AFF UNLESS OTHERWISE NOTED; COORDINATE WITH ARCHITECT. INCLUDE INSULATED PAD FOR ANY THERMOSTATS/TEMPERATURE SENSORS LOCATED ON AN OUTSIDE WALL.
29. ALL MOTORIZED DAMPERS SHALL BE WIRED BY ATC CONTRACTOR, COORDINATE VOLTAGE REQUIREMENTS WITH EQUIPMENT.
30. ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.
31. ALL LOUVERS ARE SELECTED AND SCHEDULED BY ARCHITECT. LOUVER TAGS ARE SHOWN FOR COORDINATION ONLY.
32. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
33. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

GENERAL LINETYPES

	THICK, DARK LINES INDICATE NEW OR RELOCATED ITEMS
	THIN, LIGHT LINES INDICATE EXISTING ITEMS TO REMAIN IN PLACE AND BE REUSED
	ON DEMOLITION DRAWINGS, THICK, DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED
	POINT OF NEW TO EXISTING CONNECTION, INCLUDING TRANSITIONS

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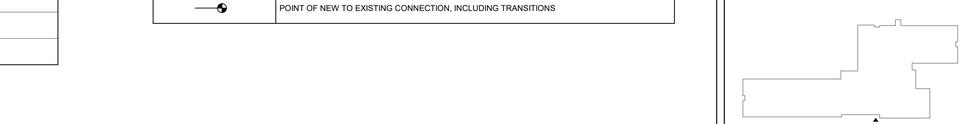
STATE OF CONNECTICUT · JOSEPH M. PESSOLANO · No. 21720 · LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MECHANICAL GENERAL INFORMATION

M0.1

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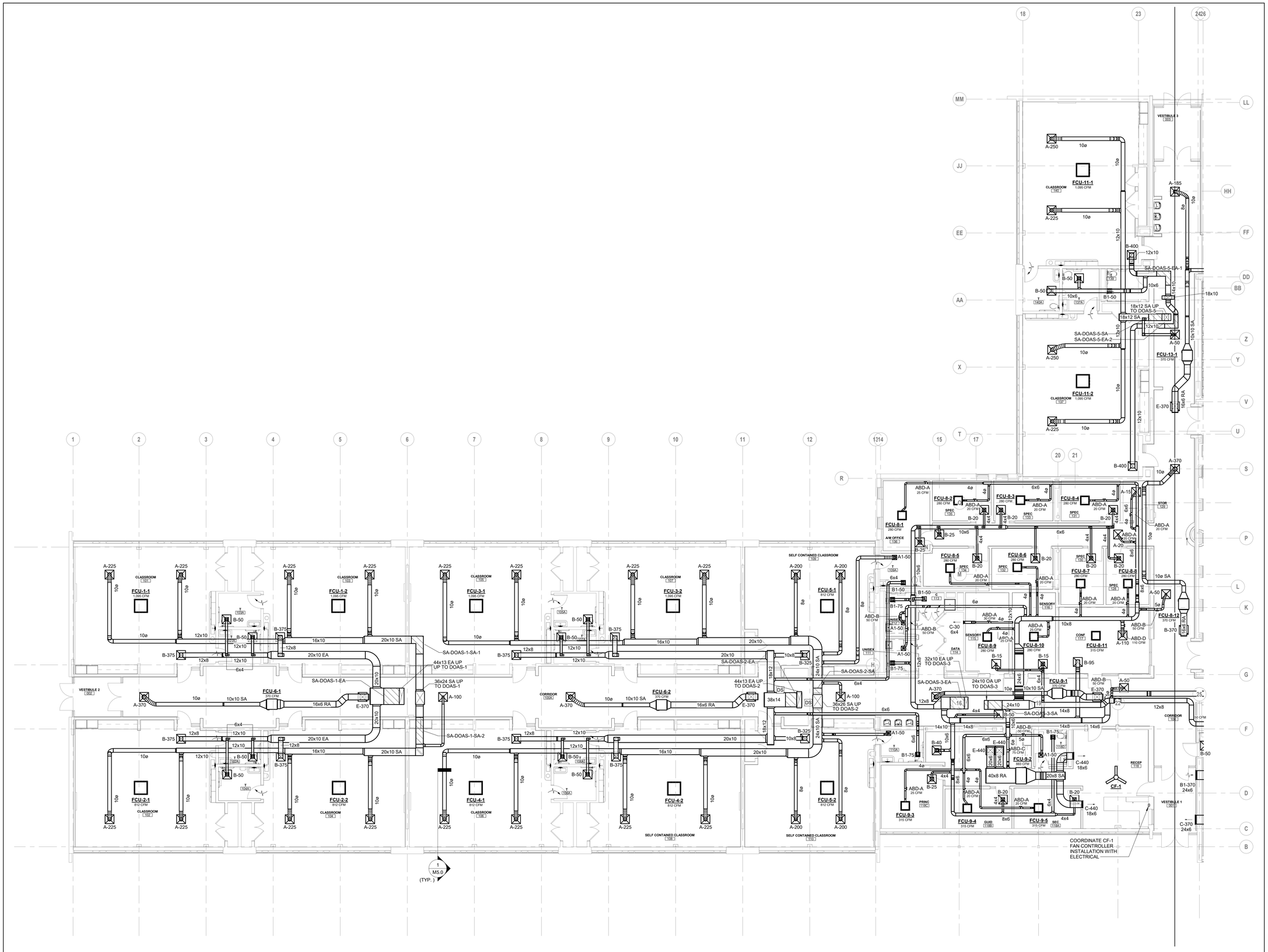

1 FIRST FLOOR MECHANICAL DUCT PLAN - AREA A
1/8" = 1'-0"

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RENOVATIONS TO:

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State Project #: 017-0090 RNV
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AREA A

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FIRST FLOOR MECHANICAL DUCT PLAN - AREA A

M1.1A

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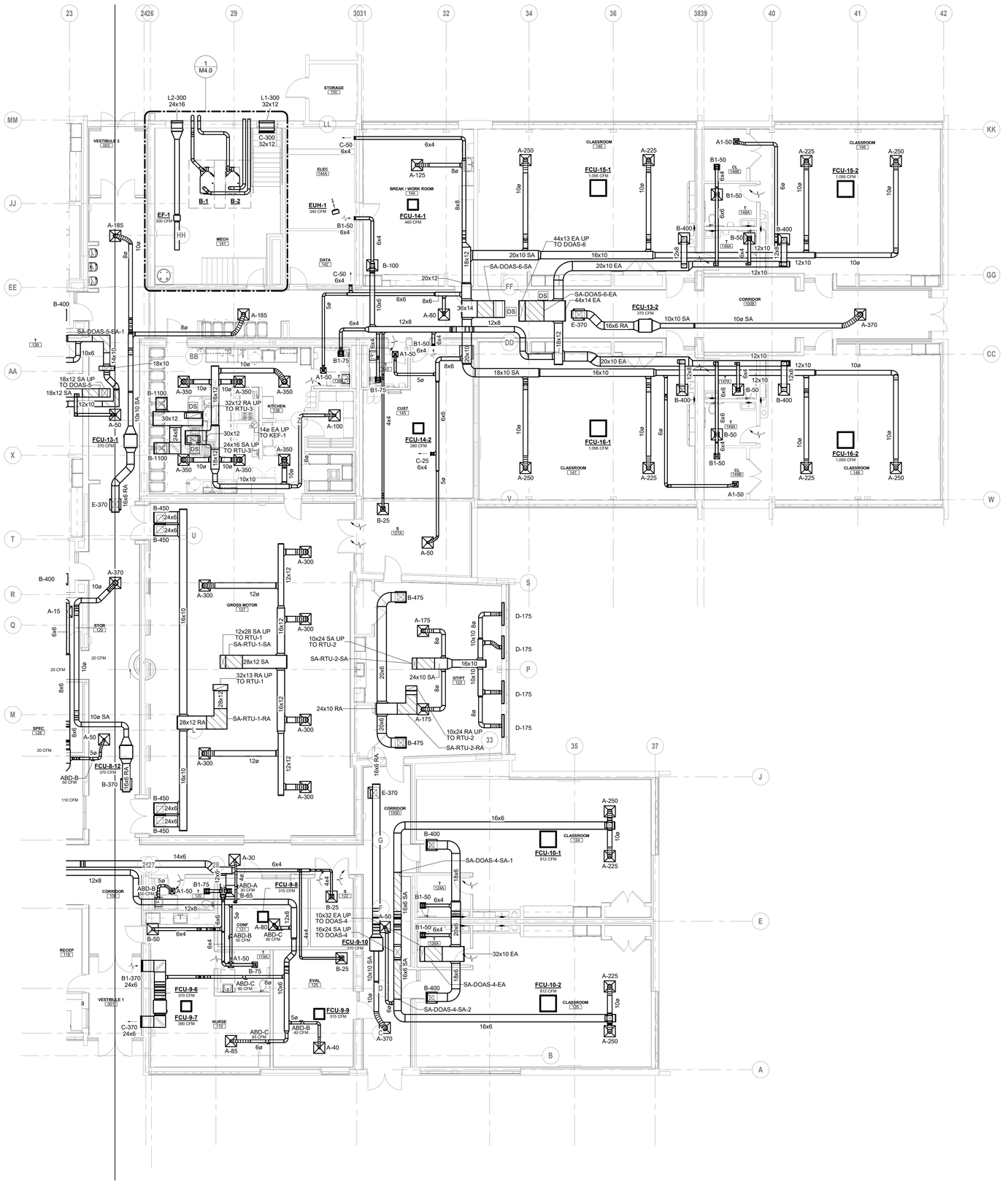

1 FIRST FLOOR MECHANICAL DUCT PLAN - AREA B
1/8" = 1'-0"

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

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AREA B

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FIRST FLOOR MECHANICAL DUCT PLAN - AREA B

M1.1B

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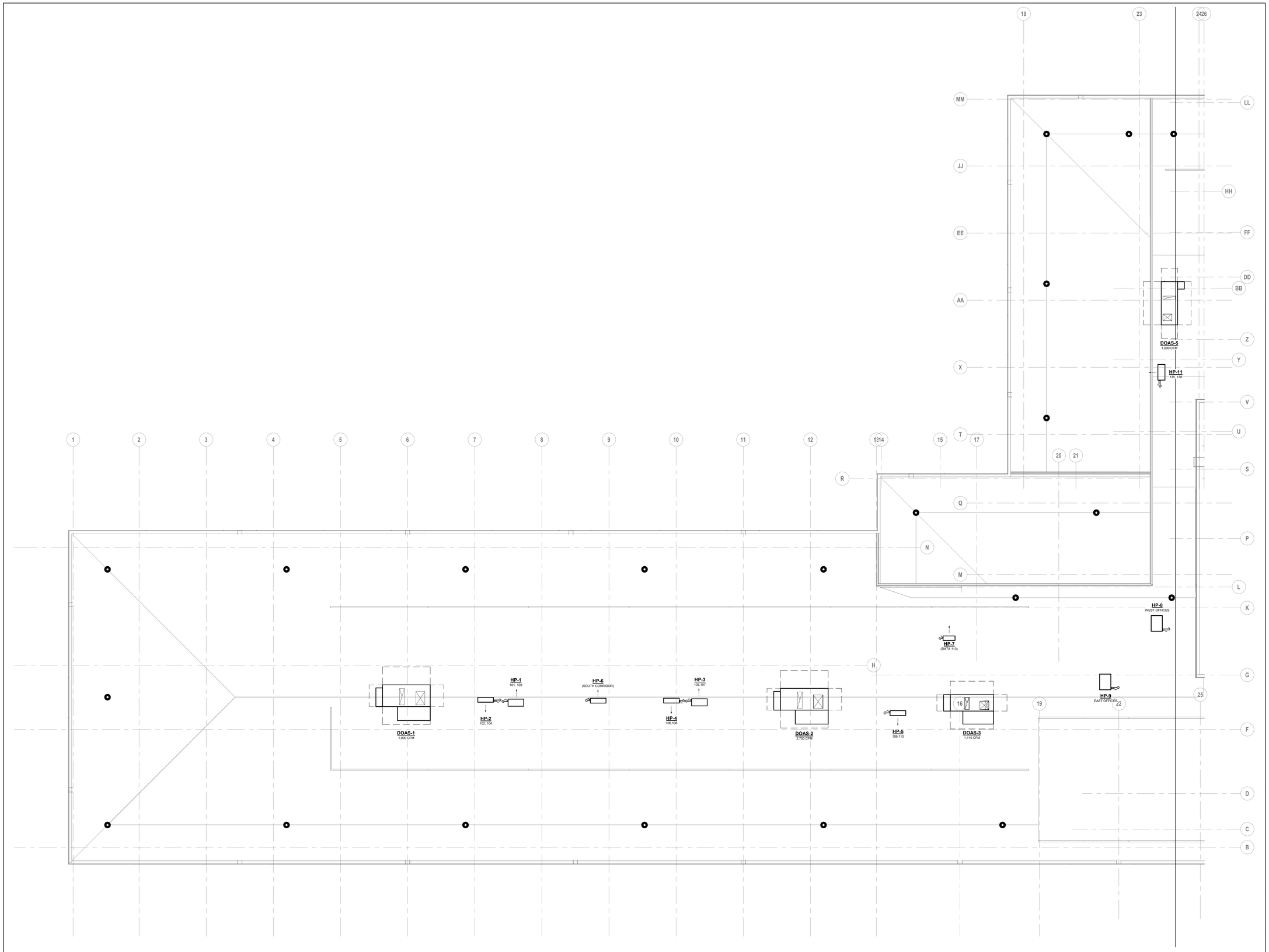

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1/8" = 1'-0"

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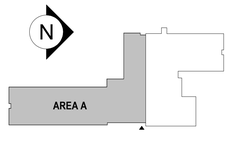

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JUNE 5, 2026

MECHANICAL ROOF PLAN - AREA A

M1.2A

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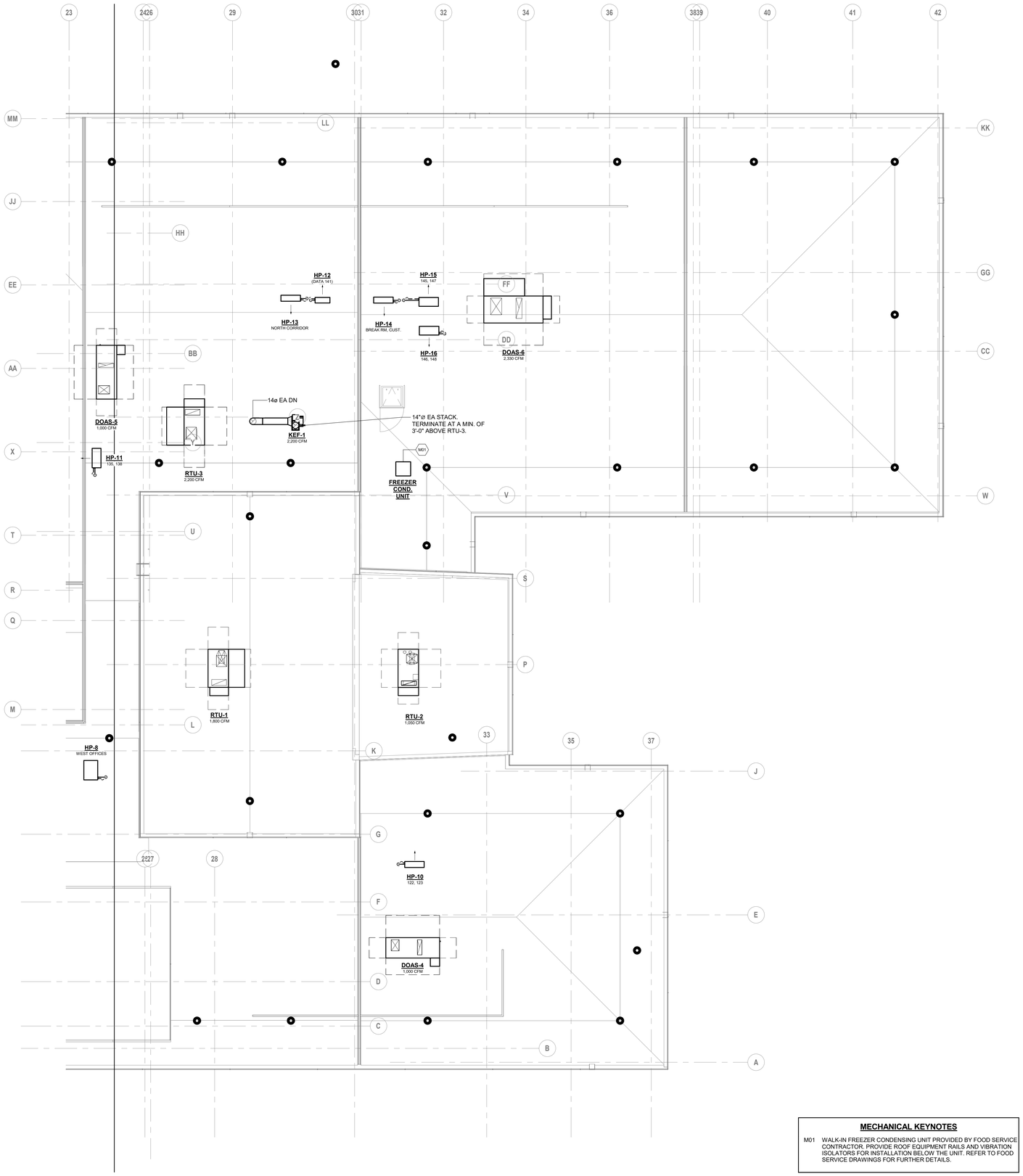

MECHANICAL KEYNOTES

M01 WALK-IN FREEZER CONDENSING UNIT PROVIDED BY FOOD SERVICE CONTRACTOR. PROVIDE ROOF EQUIPMENT RAILS AND VIBRATION ISOLATORS FOR INSTALLATION BELOW THE UNIT. REFER TO FOOD SERVICE DRAWINGS FOR FURTHER DETAILS.

1 MECHANICAL ROOF PLAN - AREA B
1/8" = 1'-0"

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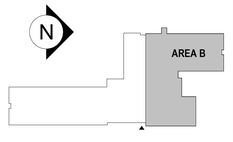

CONSTRUCTION DOCUMENTS
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MECHANICAL ROOF PLAN - AREA B

M1.2B

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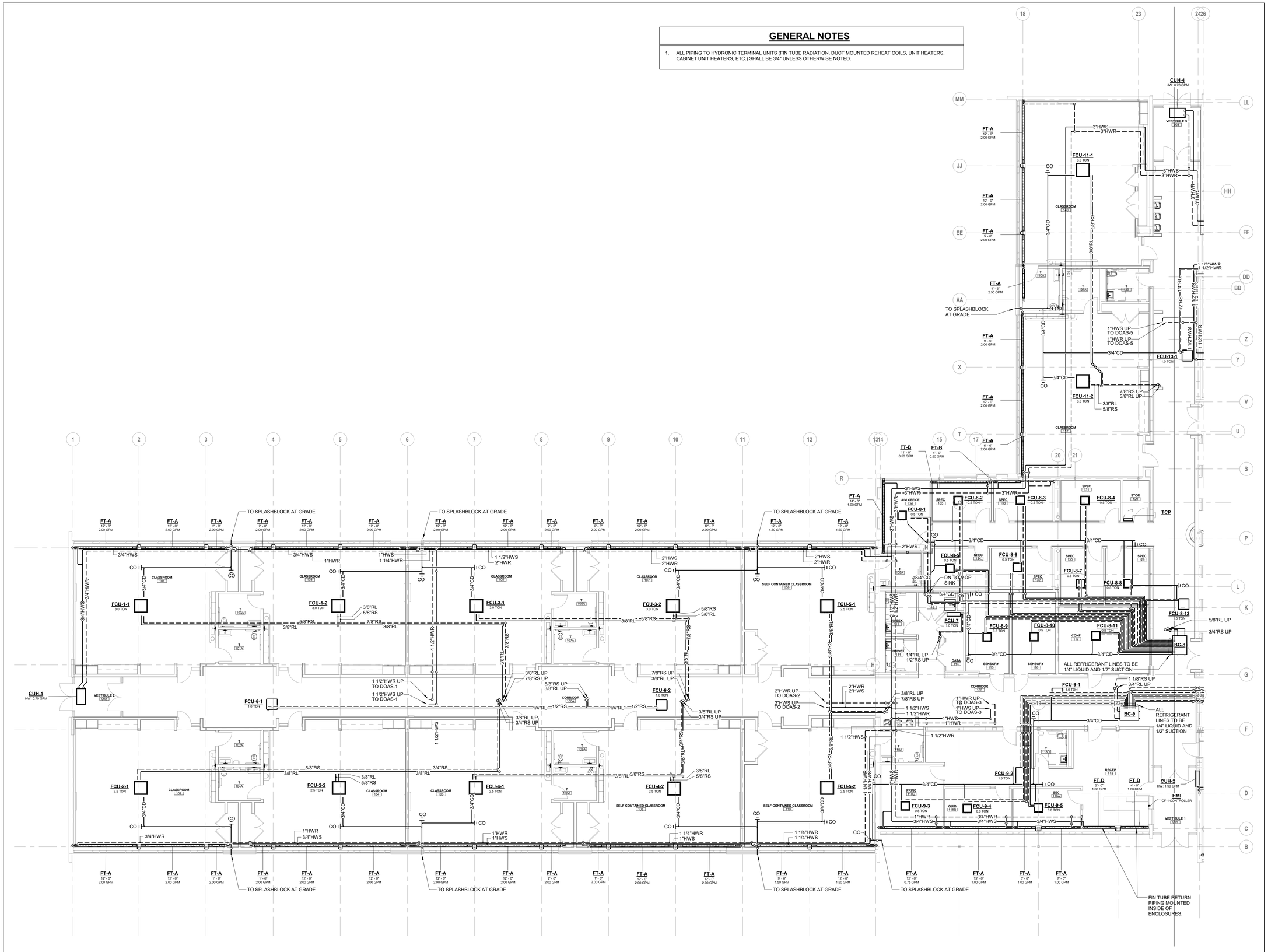
GENERAL NOTES

1. ALL PIPING TO HYDRONIC TERMINAL UNITS (FIN TUBE RADIATION, DUCT MOUNTED REHEAT COILS, UNIT HEATERS, CABINET UNIT HEATERS, ETC.) SHALL BE 3/4" UNLESS OTHERWISE NOTED.



1 FIRST FLOOR MECHANICAL PIPE PLAN - AREA A
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State Project #: 017-0090 RNV
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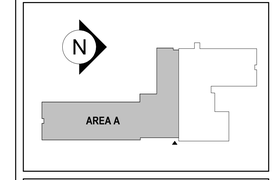

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR MECHANICAL PIPE PLAN - AREA A

M2.1A

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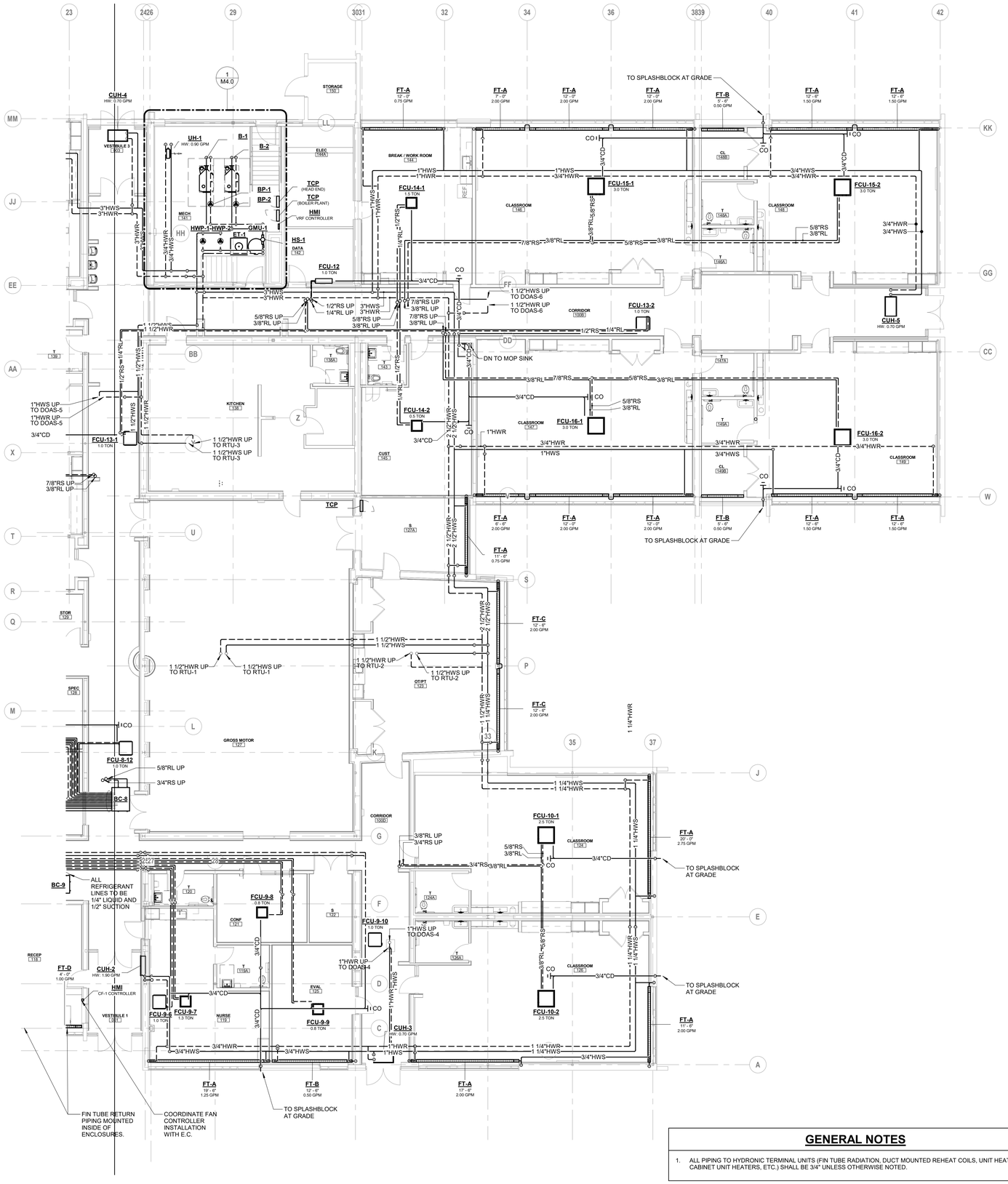

1 FIRST FLOOR MECHANICAL PIPE PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

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EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
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AREA B

CONSTRUCTION DOCUMENTS
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FIRST FLOOR MECHANICAL PIPE PLAN - AREA B

M2.1B

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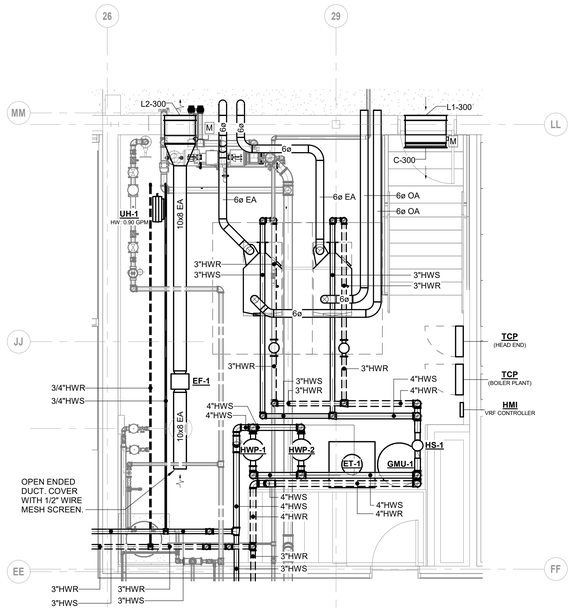
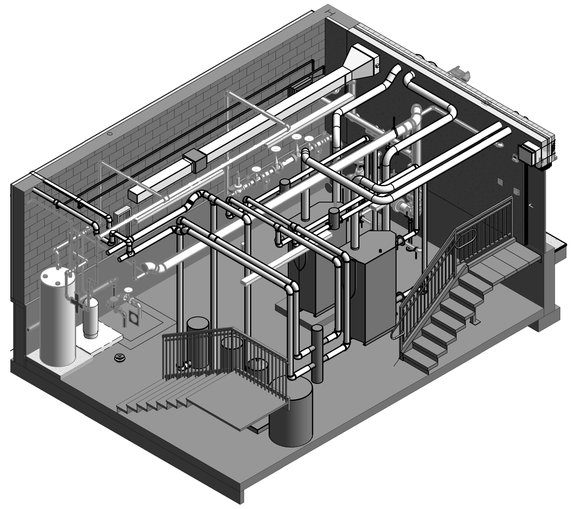
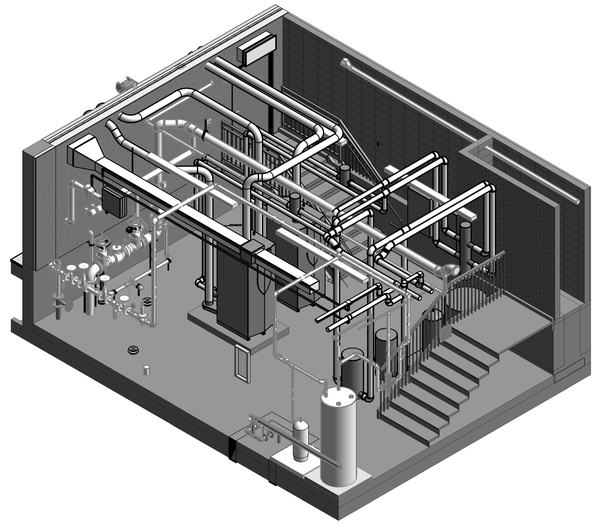


1 MECH ROOM ENLARGED PLAN
1/4" = 1'-0"



2 MECHANICAL ROOM ORTHOGRAPHIC VIEW 1



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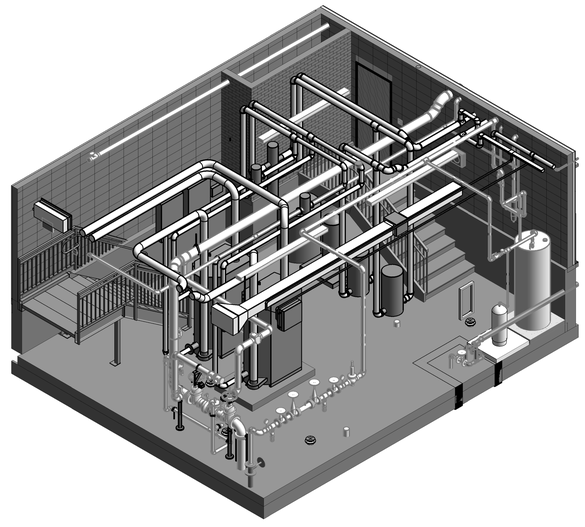

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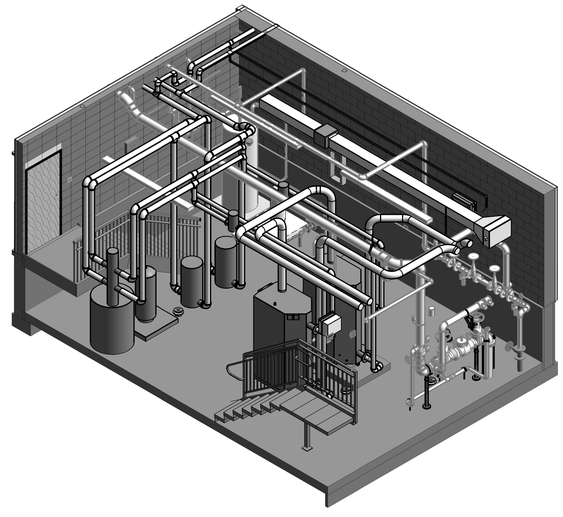

5 MECHANICAL ROOM ORTHOGRAPHIC VIEW 4

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
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CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MECHANICAL
ENLARGED PLANS

M4.0

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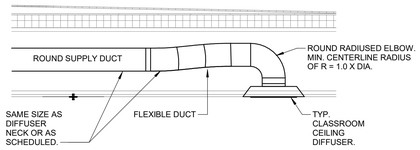
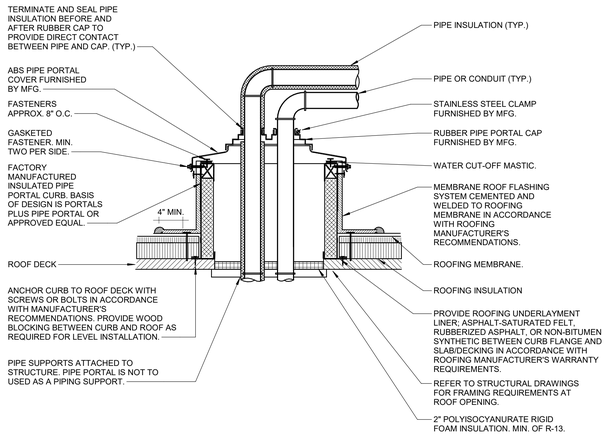
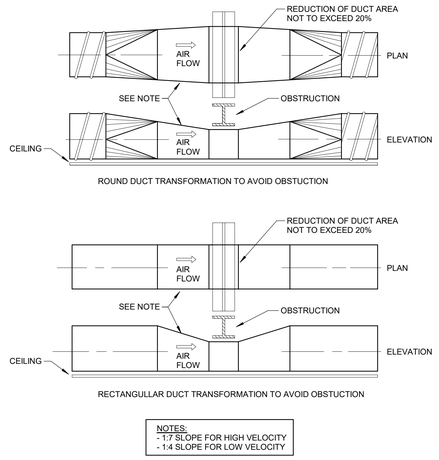


1 TYPICAL CLASSROOM CEILING DIFFUSER DETAIL.
NOT TO SCALE



2 ROOF PIPING PENETRATION DETAIL
3/4" = 1'-0"



3 DUCT OBSTRUCTION TRANSFORMATION DETAILS
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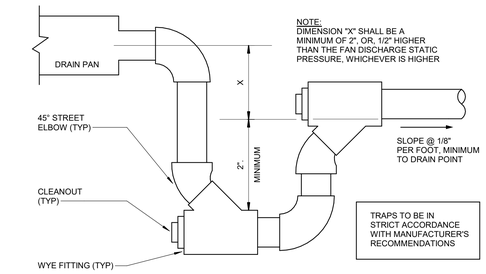

4 COOLING COIL CONDENSATE TRAP DETAIL FOR DRAW-THRU COILS
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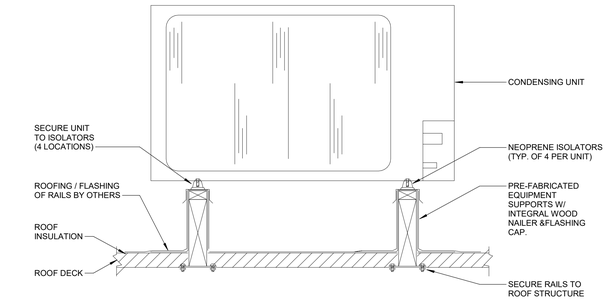

5 TYPICAL ROOF MOUNTED CONDENSING UNIT DETAIL
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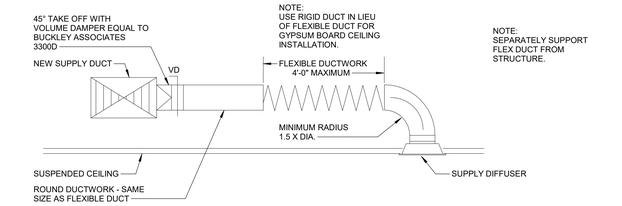

6 TYPICAL CEILING MOUNTED SUPPLY DIFFUSER DETAIL
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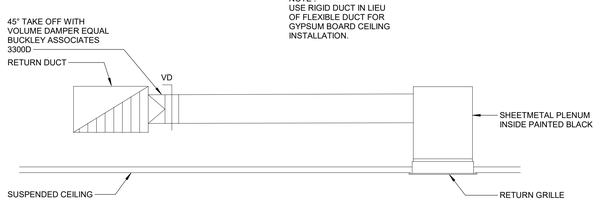
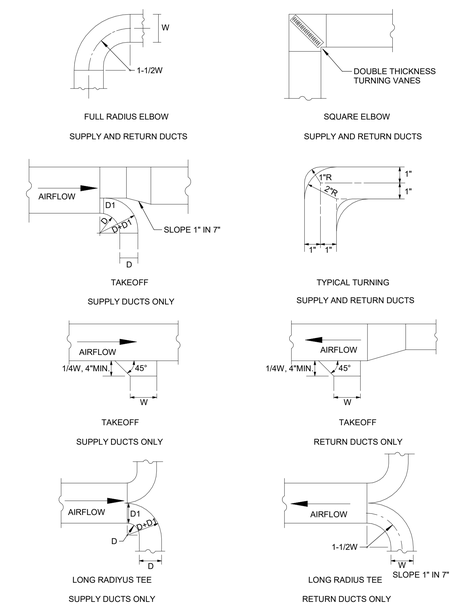
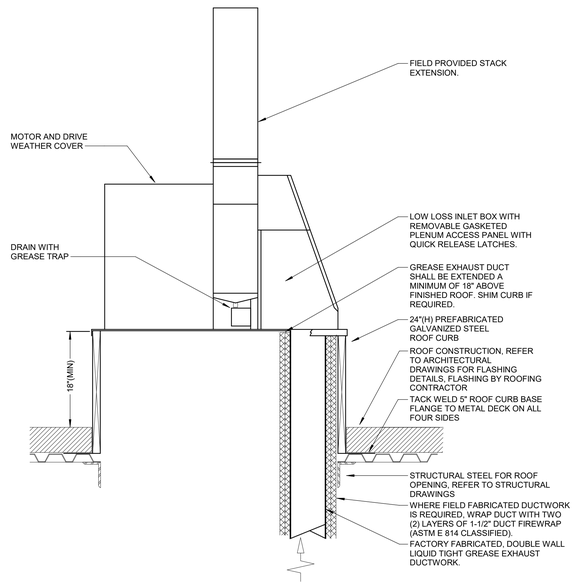


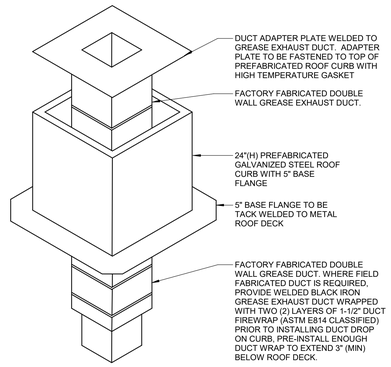
7 TYPICAL CEILING MOUNTED RETURN AIR GRILL DETAIL
NOT TO SCALE



8 TYPICAL DUCT DETAILS
NOT TO SCALE



9 UTILITY SET KITCHEN HOOD EXHAUST FAN DETAIL
NTS



NOTE: FOR KITCHEN HOOD EXHAUST FAN INSTALLATIONS, FANS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND AS REQUIRED BY IMC-2021 AND NFPA 96.

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345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MECHANICAL DETAILS

M5.0

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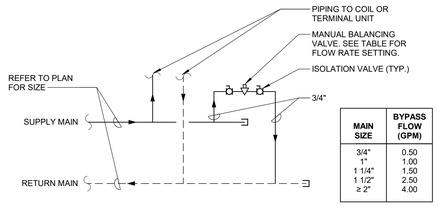
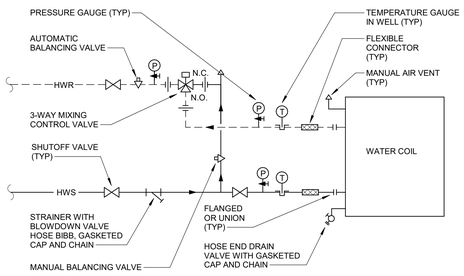


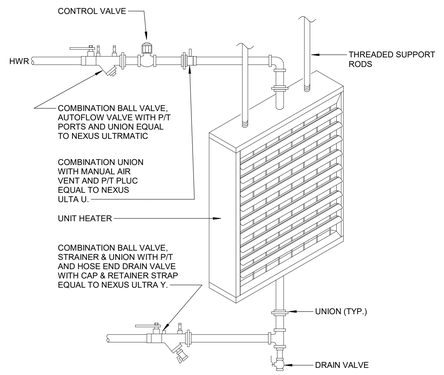
MAIN SIZE	BYPASS FLOW (GPM)
3/4"	0.50
1"	1.00
1 1/4"	1.50
1 1/2"	2.50
≥ 2"	4.00

1 END OF MAIN MIN. FLOW BYPASS LINE PIPING DETAIL
NTS

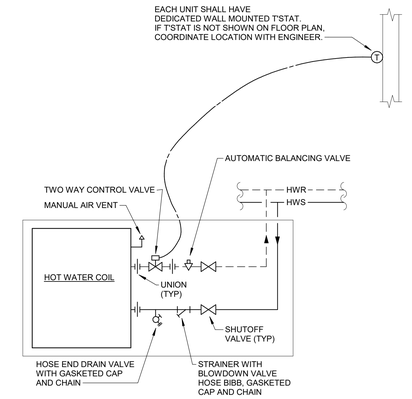


NOTE:
PROVIDE UNIONS IN LIEU OF FLANGES AT CONTROL VALVES AND COIL CONNECTIONS WHERE APPLICABLE.

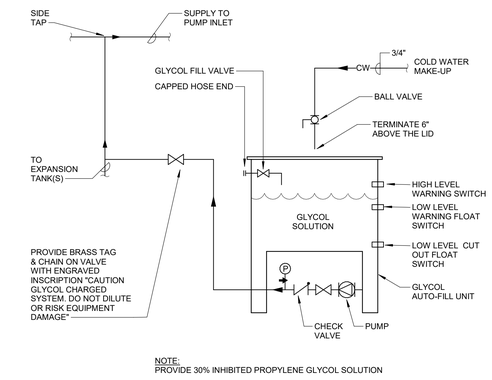
2 3-WAY COIL PIPING DETAIL
NTS



3 HORIZONTAL UNIT HEATER PIPING DETAIL
NOT TO SCALE



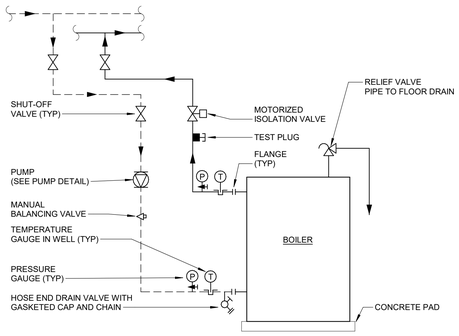
4 CABINET UNIT HEATER PIPING DETAIL
NOT TO SCALE



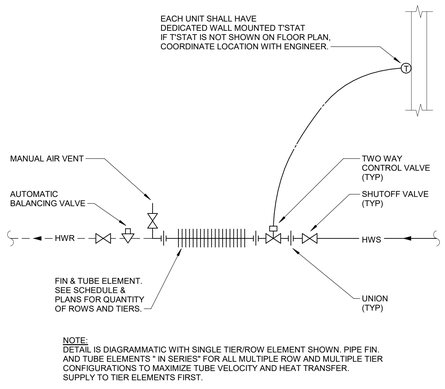
FLOOR MOUNTED IN-LINE PUMP

NOTES:
1. PROVIDE SUCTION DIFFUSERS AND FLOOR SUPPORTS FOR FLOOR MOUNTED INSTALLATIONS.
2. PROVIDE PUMP SUPPORTS AS DIRECTED BY MANUFACTURER.
3. PROVIDE VIBRATION ISOLATION OF PIPING UPSTREAM AND DOWNSTREAM OF PUMP IN ACCORDANCE WITH THE SPECIFICATIONS

5 VERTICAL IN-LINE PUMP DETAIL
NOT TO SCALE

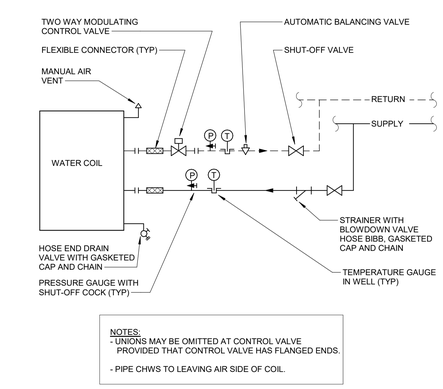


6 HYDRONIC BOILER PIPING DETAIL
NOT TO SCALE



NOTE:
DETAIL IS DIAGRAMMATIC WITH SINGLE TIER/ROW ELEMENT SHOWN. PIPE FIN. AND TUBE ELEMENTS " IN SERIES" FOR ALL MULTIPLE ROW AND MULTIPLE TIER CONFIGURATIONS TO MAXIMIZE TUBE VELOCITY AND HEAT TRANSFER. SUPPLY TO TIER ELEMENTS FIRST.

7 HOT WATER RADIATION PIPING DETAIL
NOT TO SCALE

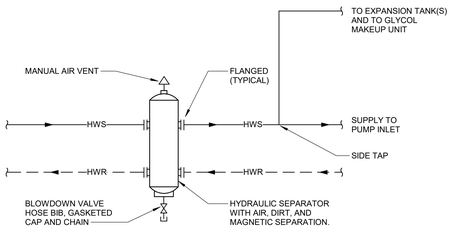


NOTES:
- UNIONS MAY BE OMITTED AT CONTROL VALVE PROVIDED THAT CONTROL VALVE HAS FLANGED ENDS.
- PIPE CHWS TO LEAVING AIR SIDE OF COIL.

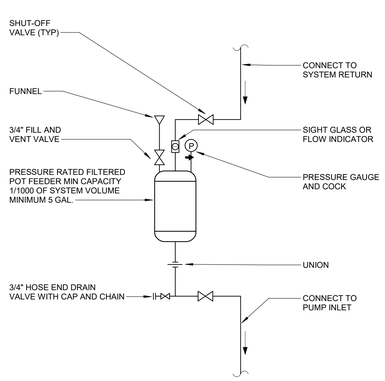
8 AHU WATER COIL PIPING DETAIL
NOT TO SCALE

NOTE:
PROVIDE 30% INHIBITED PROPYLENE GLYCOL SOLUTION

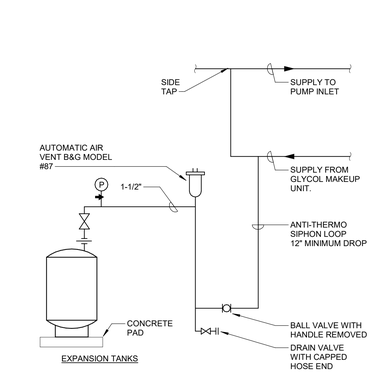
9 GLYCOL MAKEUP UNIT DETAIL
NOT TO SCALE



10 HYDRAULIC AIR & DIRT SEPARATOR DETAIL
NOT TO SCALE



11 CHEMICAL POT FEEDER DETAIL
NOT TO SCALE



12 EXPANSION TANK DETAIL
NOT TO SCALE

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

GM2

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
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GRILLES, DIFFUSERS AND REGISTERS SCHEDULE

(BASED ON PRICE)

SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION, AND COLOR SELECTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS.

A - MODEL SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION. PROVIDE MODEL SR ADAPTER.

A1 - MODEL SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 12X12 MODULE SIZE, SURFACE MOUNT, STEEL CONSTRUCTION. PROVIDE MODEL SR ADAPTER.

B - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION.

B1 - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, FLAT SURFACE MOUNT BORDER, STEEL CONSTRUCTION. FACE SIZE TO BE A MINIMUM OF 12X12 UNLESS SIZE IS NOTED ON PLANS.

C - MODEL 520 LOUVERED SUPPLY REGISTER, DOUBLE DEFLECTION CORE, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT FRAME, STEEL CONSTRUCTION.

D - PRICE MODEL SDS LINEAR SLOT DIFFUSER, 1" SLOTS, SURFACE MOUNT FRAME, ALUMINUM CONSTRUCTION, BLACK PATTERN CONTROLLERS. PROVIDE INSULATED PLENUM.

E - MODEL 530FF FILTER RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION. PROVIDE WITH 1" MERV 8 HIGH CAPACITY FILTER AND PLENUM BOX.

CEILING SUPPLY DIFFUSER TYPE A & A1		CEILING RETURN/EXHAUST DIFFUSER TYPE B & B1		FLEIXBLE DUCT SIZE	
CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0 - 100	6 X 6	0 - 100	6 X 6	0 - 45	4"Ø
101 - 225	9 X 9	101 - 150	8 X 8	50 - 70	5"Ø
226 - 400	12 X 12	151 - 250	10 X 10	71 - 100	6"Ø
401 - 625	15 X 15	251 - 350	12 X 12	101 - 150	8"Ø
626 - 900	18 X 18	351 - 500	14 X 14	151 - 225	9"Ø
		501 - 650	16 X 16	226 - 275	10"Ø
		651 - 800	18 X 18	276 - 400	12"Ø
		801 - 1200	22 X 22	401 - 500	14Ø
				501 - 700	16"Ø
				701 - 900	18"Ø
				901 - 1100	20"Ø
				1101 - 1300	22"Ø

AUTOMATIC BALANCING DAMPER SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE	CFM RANGE	PRESSURE RANGE (IN. W.G.)
ABD-A	AMERICAN ALDES	CAR3-L	4"	0 TO 35	0.12 TO 1.2
ABD-B	AMERICAN ALDES	CAR3-L	5"	36 TO 70	0.12 TO 1.2
ABD-C	AMERICAN ALDES	CAR3-L	6"	71 TO 95	0.12 TO 1.2
ABD-D	AMERICAN ALDES	CAR3-L	8"	96 TO 150	0.12 TO 1.2

DEDICATED OUTDOOR AIR SYSTEM UNIT SCHEDULE

				OUTSIDE AIRFLOW		FANS										SOUND POWER LEVEL (db) DISCHARGE/INLET/RADIATED								EFFICIENCY				ELECTRICAL DATA				
						SUPPLY					EXHAUST																					
TAG	MANUFACTURER	MODEL	SERVES	MAX (CFM)	MIN (CFM)	FLOW (CFM)	ESP (in-wg)	QTY	POWER (hp)	RPM	FLOW (CFM)	ESP (in-wg)	QTY	POWER (hp)	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	SEER2	EER	IEER	COP	MCA	MOCP	VOLT	PH	REMARKS
DOAS-1	AAON	RNA-009	CLASSROOMS 101-104	1900	1900	1900	1	1	1.51	1769	1700	1	1	0.95	1371	85	83	86	82	74	71	68	62	[redacted]	12.74	16.56	6.21	57 A	70 A	208 V	3	ALL
DOAS-2	AAON	RNA-013	CLASSROOMS 105-110	2700	2700	2700	1	1	3.11	2031	2350	1	1	1.56	1580	88	86	89	86	78	75	72	67	[redacted]	11.07	14.6	5.06	92 A	110 A	208 V	3	ALL
DOAS-3	AAON	RNA-006	OFFICES	1115	1115	1115	1.2	1	1	2049	1055	1.2	1	0.52	1724	80	80	82	78	71	67	64	59	[redacted]	12.74	14.5	5.69	51 A	70 A	208 V	3	ALL
DOAS-4	AAON	RQA-004	CLASSROOMS 123, 125	1000	1000	1000	1	1	1.08	1857	900	1	1	0.53	1654	85	83	86	79	71	69	67	61	14.5	14	[redacted]	5.9	39 A	50 A	208 V	3	ALL
DOAS-5	AAON	RQA-004	CLASSROOMS 137, 140	1000	1000	1000	1	1	1.08	1857	950	1	1	0.55	1676	85	83	86	79	72	69	67	61	14.5	14	[redacted]	5.87	39 A	50 A	208 V	3	ALL
DOAS-6	AAON	RNA-009	CLASSROOMS 146-149, BREAK RM, CUST.	2330	2330	2330	1	1	2.07	1974	2200	1	1	1.4	1529	87	85	88	85	77	74	71	66	[redacted]	12.74	16.56	6.7	62 A	70 A	208 V	3	ALL

ROOFTOP UNIT SCHEDULE

				OUTSIDE AIRFLOW		FANS										SOUND POWER LEVEL (db) DISCHARGE/INLET/RADIATED								EFFICIENCY				ELECTRICAL DATA				
						SUPPLY					RETURN																					
TAG	MANUFACTURER	MODEL	TYPE	MAX (CFM)	MIN (CFM)	FLOW (CFM)	ESP (in-wg)	QTY	POWER (hp)	RPM	FLOW (CFM)	ESP (in-wg)	QTY	POWER (hp)	RPM	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	SEER2	EER	IEER	COP	MCA	MOCP	VOLT	PH	REMARKS
RTU-1	AAON	RNA-006-A	GROSS MOTOR	1800	750	1800	0.75	1	1.32	1691	1750	0.75	1	0.56	861	82	84	82	80	72	70	67	61	[redacted]	12.74	14.5	2.03	50 A	70 A	208 V	3	ALL
RTU-2	AAON	RQA-002-A	OT/PT	1050	250	1050	0.75	1	0.83	1688	950	0.75	1	0.4	1472	84	82	85	77	70	67	64	58	16.4	8.9	[redacted]	1.79	27 A	35 A	208 V	3	ALL
RTU-3	AAON	RNA-010-A	KITCHEN	2200	0	2200	1	1	1.67	1779	2200	0.6	[redacted]			84	82	85	81	72	70	68	63	[redacted]	11.86	14.9	[redacted]	52 A	80 A	208 V	3	ALL

PRIMARY AIRSIDE ENERGY RECOVERY

	SUMMER DESIGN ENERGY RECOVERY												WINTER DESIGN ENERGY RECOVERY											
	OUTSIDE AIR								EXHAUST AIR				OUTSIDE AIR								EXHAUST AIR			
					EFF												EFF							
TAG	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	SENSIBLE	LATENT	TOTAL	CAPACITY (Btu/h)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	SENSIBLE	LATENT	TOTAL	CAPACITY (Btu/h)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)
DOAS-1	95	75	81.4	67.2	76.3	65.9	70.3	56,500	75	62	90.2	71.6	0	-1	45.8	41.4	76.3	66.1	73.2	134,200	70	58	19.6	19.6
DOAS-2	95	75	83.3	68.3	68.2	58.6	62.5	69,500	75	62	88.5	70.6	0	-1	39.7	36.9	68.2	58.9	65.3	165,900	70	58	24.9	24.9
DOAS-3	95	75	80.7	66.4	78.4	73.3	75.5	37,400	75	62	90.7	72.2	0	-1	48	43.8	78.4	74	77.1	87,100	70	58	17	16.9
DOAS-4	95	75	84.2	69.1	60.9	47.7	53.1	22,500	75	62	87	69.5	0	-1	36.3	33.3	60.9	46.4	56.5	54,600	70	58	30.2	30.1
DOAS-5	95	75	84.2	69	58.5	47.4	51.8	22,900	75	62	86.5	69.3	0	-1	36.4	33.6	58.5	46	54.7	55,300	70	58	31.2	31.2
DOAS-6	95	75	81.8	67.5	70.4	60.3	64.5	67,100	75	62	88.9	70.9	0	-1	44.5	40.4	70.4	60.6	67.4	160,200	70	58	23.6	23.5

HEAT PUMP COIL / HEATING WATER COIL

	COOLING COIL						HEATING			HOT GAS REHEAT			HEATING WATER COIL								
	CAPACITY (Btu/h)		AIRSIDE											AIRSIDE				WATERSIDE			
TAG	TOTAL	SENSIBLE	EAT(db) (°F) (°F)	EAT(wb) (°F) (°F)	LAT(db) (°F) (°F)	LAT(wb) (°F) (°F)	CAPACITY (Btu/h)	EAT(db) (°F)	LAT(db) (°F)	CAPACITY (Btu/h)	LAT(db) (°F)	RELATIVE HUMIDITY (%)	CAPACITY (Btu/h)	FLOW (CFM)	EAT(db) (°F)	LAT(db) (°F)	ROWS	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)
DOAS-1	93,900	63,600	81.4	67.2	52	50.8	40,400	46 °F	65 °F	50,500	75	41.1	127,700	1,900	64.5	125.9	4	16	140	123.1	5.7
DOAS-2	152,600	99,700	83.3	68.3	51.4	49.8	65,200	40 °F	61 °F	75,700	75	39.1	169,600	2,700	60.7	117.7	4	24	140	125.1	2.8
DOAS-3	62,700	41,600	80.7	66.4	48.8	47.5	28,000	48 °F	70 °F	34,400	75	36.1	38,700	1,115	69.7	101	4	6	140	126.4	0.8
DOAS-4	48,500	33,100	84.2	69.1	56	54.1	20,000	36 °F	54 °F	23,300	75	46	58,300	1,000	53.5	105.7	4	7	140	122.4	0.6
DOAS-5	48,400	33,300	84.2	69	55.9	54	20,000	36 °F	54 °F	23,400	75	45.8	58,200	1,000	53.7	105.8	4	7	140	122.4	0.6
DOAS-6	97,900	70,600	81.8	67.5	55.7	54.2	42,200	45 °F	60 °F	53,500	75	46.5	146,000	2,330	60.4	117.1	4	16	140	120.7	5.7
RTU-1	72,300	54,700	83.3	67.9	56.4	55.2	28,500	41 °F	55 °F	38,600	75	48.4	107,400	1,800	54.6	108.1	4	16	140	125.8	1.2
RTU-2	28,000	25,800	79.8	65.4	59.1	57.4	12,400	53 °F	64 °F	20,400	75	52.2	58,300	1,050	63.9	114.4	4	16	140	132.3	2.6
RTU-3	126,600	86,100	95	75	59.5	58.2	[redacted]			40,000	75	54.2	204,600	2,200	0	74.8	4	16	140	113	1.2

REMARKS:
1. HEATING COIL PERFORMANCE BASED ON 30% PROPYLENE GLYCOL SOLUTION.
2. PROVIDE BACNET CARDS.
3. UNITS SHALL BE PREWIRED FOR A SINGLE POINT CONNECTION.
4. ALTERNATE MANUFACTURER OF EQUAL PERFORMANCE AND CAPACITY MUST HAVE SIMILAR PHYSICAL DIMENSIONS, OTHERWISE BASE MANUFACTURER MUST BE SUPPLIED. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING DIMENSIONS IN FIELD.
5. R-454B REFRIGERANT.
6. PROVIDE 2" MERV 8 AND 4" MERV 13 HIGH EFFICIENCY FILTERS.
7. PROVIDE DUCT TRANSITION AT THE UNIT AS NECESSARY, V.I.F.
8. PROVIDE OA INTAKE HOODS.
9. ROOF OPENING AROUND BOTH SUPPLY AND RETURN DUCTS BELOW EACH ROOFTOP UNIT SHALL BE COMPLETELY SEALED TO PREVENT ANY NOISE TRANSFER.
10. PROVIDE VFD'S ON BOTH SUPPLY AND EXHAUST FANS.
11. PROVIDE MANUFACTURER SUPPLIED AND WIRED DISCONNECT SWITCH.
12. UNITS SHALL BE DOUBLE-WALL CABINET WITH R-13 INSULATION.
13. PROVIDE STAINLESS STEEL DRAIN PAN WITH CONDENSATE OVERFLOW SWITCH.
14. PROVIDE WITH WIND RATED VIBRATION ISOLATION CURB. CURB SHALL BE A MINIMUM OF 18" HIGH UNLESS OTHERWISE NOTEDED. THE HEIGHT OF THE STATIONARY PORTION OF THE CURB SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED ROOF ELEVATION. COORDINATE WITH ARCHITECTURAL ROOF PLANS.
15. FACTORY WIRED 115V CONVENIENCE OUTLET.

CEILING FAN SCHEDULE

TAG	MANUFACTURER	MODEL	AIRFLOW (CFM)	TYPE	SERVES	MOTOR WATTS	ELECTRICAL DATA VOLT	PH	REMARKS
CF-1	BIG ASS FANS	HAIKU	7632	CEILING FAN	RECEPTION	25.1	120 V	1	ALL

REMARKS:
1. COLOR BY ARCHITECT FROM STANDARD COLORS/FINISHES.
2. HIGH-EFFICIENCY BRUSHLESS DC/EC MOTOR.
3. ONBOARD TEMPERATURE AND MOTION SENSORS
4. UNIVERSAL MOUNTING WITH 32" DOWNROD.
5. FIXED WALL MOUNT REMOTE.

FAN SCHEDULE

					FAN								ELECTRICAL DATA		
									MOTOR POWER		SOUND PRESS LEVEL				
TAG	MANUFACTURER	MODEL	SERVES	TYPE	FLOW (CFM)	ESP (in-wg)	RPM	DRIVE TYPE	HP	WATTS	(dBA)	SONES	VOLT	PH	REMARKS
EF-1	GREENHECK	CSP-A390-VG	MECHANICAL ROOM	INLINE	300	0.25	1153	DIRECT DRIVE	[redacted]	98	[redacted]	2.5	120 V	1	ALL
KEF-1	GREENHECK	USF-20-B6	KITCHEN	UTILITY	2200	1.5	1071	DIRECT DRIVE	1	[redacted]	64	14.7	208 V	3	ALL

REMARKS:
1. VARIABLE SPEED ELECTRONICALLY COMMUTATED MOTOR WITH DIAL SPEED CONTROL OR INVERTER DUTY MOTOR WITH VARIABLE FREQUENCY DRIVE.
2. MANUFACTURER MOUNTED AND WIRED DISCONNECT.
3. AIRFLOW AND SOUND PERFORMANCE IN ACCORDANCE WITH AMCA STANDARDS.
4. PROVIDE WITH UL 705 LISTING.
5. PROVIDE EF-1 WITH REVERSE ACTING THERMOSTAT.
6. PROVIDE KEF-1 WITH INTEGRATED CURB CAP AND LOW LOSS INLET BOX, GREASE TRAP AND SELF SUPPORTED, FIELD STACK EXTENSION. OUTLET TO BE MINIMUM OF 3' ABOVE RTU-3 INTAKE.

AIR LOUVER SCHEDULE

TAG	QUANTITY	MANUFACTURER	MODEL	AIR FLOW DIRECTION	AIRFLOW	MAXIMUM FACE VELOCITY	MINIMUM FREE AREA (FT2)	WIDTH (IN.)	HEIGHT (IN.)	SERVES	REMARKS
L1	1	GREENHECK	ESD-635	INTAKE LOUVER	300	380 FPM	0.4	32	12	MECHANICAL ROOM	ALL
L2	1	GREENHECK	ESD-635	EXHAUST LOUVER	300	960 FPM	0.4	24	16	MECHANICAL ROOM	ALL

REMARKS:
1. COLOR TO BE SELECTED BY ARCHITECT FROM LIST OF STANDARD COLORS.

VARIABLE REFRIGERANT FLOW AIR-SOURCED HEAT PUMP SCHEDULE

			NOMINAL CAPACITY		EFFICIENCY			ELECTRICAL DATA				
TAG	MANUFACTURER	MODEL	COOLING (Btu/h)	HEATING (Btu/h)	EER	IEER	COP	MCA	MOCP	VOLT	PH	REMARKS
HP-1	MITSUBISHI	MXZ-SM72TL-U1	72,000	80,000	12.15	[redacted]	4.2	32 A	58 A	208 V	3	ALL
HP-2	MITSUBISHI	MXZ-SM60NL	60,000	66,000	[redacted]	10.7	3.74	45 A	80 A	208 V	1	ALL
HP-3	MITSUBISHI	MXZ-SM72TL-U1	72,000	80,000	12.15	[redacted]	4.2	32 A	58 A	208 V	3	ALL
HP-4	MITSUBISHI	MXZ-SM60NL	60,000	66,000	[redacted]	10.7	3.74	45 A	80 A	208 V	1	ALL
HP-5	MITSUBISHI	MXZ-SM60NL	60,000	66,000	[redacted]	10.7	3.74	45 A	80 A	208 V	1	ALL
HP-6	MITSUBISHI	MXZ-SM36NL	36,000	41,000	[redacted]	12.05	3.74	36 A	64 A	208 V	1	ALL
HP-8	MITSUBISHI	PURY-HM72TXU-A	72,000	80,000	14.75	[redacted]	4.35	51 A	80 A	208 V	3	ALL
HP-9	MITSUBISHI	PURY-HM120TXU-A	120,000	135,000	13.55	[redacted]	3.98	60 A	100 A	208 V	3	ALL
HP-10	MITSUBISHI	MXZ-SM60NL	60,000	66,000	[redacted]	10.7	3.74	45 A	80 A	208 V	1	ALL
HP-11	MITSUBISHI	MXZ-SM72TL-U1	72,000	80,000	12.15	[redacted]	4.2	32 A	58 A	208 V	3	ALL
HP-13	MITSUBISHI	MXZ-SM36NL	36,000	41,000	[redacted]	12.05	3.74	36 A	64 A	208 V	1	ALL
HP-14	MITSUBISHI	MXZ-SM36NL	36,000	41,000	[redacted]	12.05	3.74	36 A	64 A	208 V	1	ALL
HP-15	MITSUBISHI	MXZ-SM72TL-U1	72,000	80,000	12.15	[redacted]	4.2	32 A	58 A	208 V	3	ALL
HP-16	MITSUBISHI	MXZ-SM72TL-U1	72,000	80,000	12.15	[redacted]	4.2	32 A	58 A	208 V	3	ALL

REMARKS:
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. PROVIDE ADDED FIELD CHARGE REQUIRED IN ADDITION TO FACTORY CHARGE

SPLIT SYSTEM FAN COIL UNIT SCHEDULE

				AIRFLOW		COIL CAPACITY		SOUND PRESS LEVEL			ELECTRICAL DATA		
TAG	MANUFACTURER	MODEL	TYPE	SUPPLY (CFM)	SENSIBLE CAPACITY (BTU/H)	COOLING (Btu/h)	HEATING (Btu/h)	LOW (dBA)	MID (dBA)	HIGH (dBA)	VOLT	PH	REMARKS
FCU-7	MITSUBISHI	PKA-AL12NL	WALL MOUNTED	385	8441	11,447	10,397	34	41	48	208 V	1	ALL
FCU-12	MITSUBISHI	PKA-AL24NL	WALL MOUNTED	775	16605	22,518	16,173	39	42	45	208 V	1	ALL

REMARKS:
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. PROVIDE ADDED FIELD CHARGE REQUIRED IN ADDITION TO FACTORY CHARGE
5. PROVIDE WITH CONDENSATE PUMPS AS MANUFACTURED BY ASPEN MODEL #83939 (ASP-MW-UNIT) 2.9 GPH @ 0 FT, 1.2 GPH @ 33 FT, 208V/1PH, SAME COLOR AS FCUS.
6. INDOOR UNITS POWERED BY OUTDOOR UNITS.

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	CAPACITY (Btu/h)	SEER2	EER2	MCA	MOCP	VOLT	PH	REMARKS
HP-7	MITSUBISHI	PUZ-AK12NL	12,000	21.1	14.8	16 A	27 A	208 V	1	ALL
HP-12	MITSUBISHI	PUZ-AK24NL	24,000	21.8	14.5	24 A	39 A	208 V	1	ALL

REMARKS:
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 SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
4. VARIABLE COMPRESSOR SPEED INVERTER TECHNOLOGY.
5. PROVIDE 18" HIGH ROOF EQUIPMENT RAILS.
6. PROVIDE LOW AMBIENT TEMPERATURE KIT ALLOWING COOLING OPERATION TO 40°F.
7. INDOOR UNITS POWERED BY OUTDOOR UNITS.

VARIABLE REFRIGERANT FLOW DISTRIBUTION BOX SCHEDULE

			ELECTRICAL DATA			
TAG	MANUFACTURER	MODEL	MCA	VOLT	PH	REMARKS
BC-8	MITSUBISHI	CMB-M1012NU-MA-SV	0.1 A	208 V	1	ALL
BC-9	MITSUBISHI	CMB-M1012NU-MA-SV	0.1 A	208 V	1	ALL

REMARKS:
1. PROVIDE DIAMONDBACK BALL VALVES BV-SERIES, 700 PSIG WORKING PRESSURE, FULL PORT.

VARIABLE REFRIGERANT FLOW FAN COIL UNIT SCHEDULE

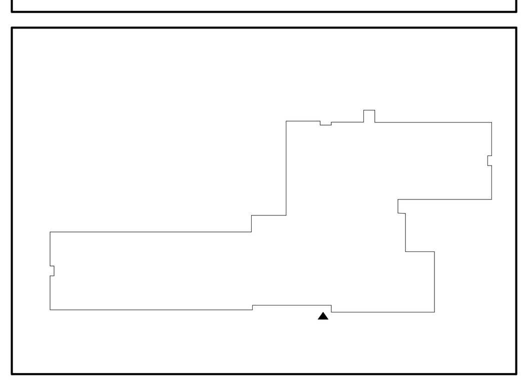
				AIRFLOW			COIL CAPACITY		SOUND PRESS LEVEL			ELECTRICAL DATA				
TAG	MANUFACTURER	MODEL	TYPE	SUPPLY (CFM)	OUTSIDE (CFM)	SENSIBLE CAPCAITY (BTU/H)	COOLING (Btu/h)	HEATING (Btu/h)	LOW (dBA)	MID (dBA)	HIGH (dBA)	MCA	MOCP	VOLT	PH	REMARKS
FCU-1-1	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22759	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-1-2	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	23903	31165	22759	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-2-1	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23538	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-2-2	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23538	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-3-1	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22873	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-3-2	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22873	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-4-1	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23665	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-4-2	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23665	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-5-1	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23855	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-5-2	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23855	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-6-1	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	7962	10355	12918	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-6-2	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	7962	10355	12918	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-8-1	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	25	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-2	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-3	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-4	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-5	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-6	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-7	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-8	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	20	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-9	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	25	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-10	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	25	4757	4757	5387	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-8-11	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	0	7196	7612	8657	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-8-12	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	8697	11418	12986	26	30	34	1.2 A	0 A	208 V	1	ALL
FCU-9-1	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	8530	11614	12873	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-9-2	MITSUBISHI	PEFY-L18NMAU-A	HORIZ. CONCEALED DUCTED	883	75	17035	17420	19072	31	35	39	2.5 A	0 A	208 V	1	ALL
FCU-9-3	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	25	7250	7742	8582	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-9-4	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	20	7250	7742	8582	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-9-5	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	20	7250	7742	8582	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-9-6	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	8530	11614	12873	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-9-7	MITSUBISHI	PLFY-M15NFMU-A	2' X 2' CEILING CASSETTE	390	0	11087	14517	16211	28	33	39	0.4 A	0 A	208 V	1	ALL
FCU-9-8	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	0	7250	7742	8582	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-9-9	MITSUBISHI	PLFY-M08NFMU-A	2' X 2' CEILING CASSETTE	315	0	7250	7742	8582	26	30	33	0.4 A	0 A	208 V	1	ALL
FCU-9-10	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	8530	11614	12873	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-10-1	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23783	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-10-2	MITSUBISHI	PLFY-EM30NEMU-A	3' X 3' CEILING CASSETTE	812	0	21181	25886	23783	28	32	35	0.6 A	0 A	208 V	1	ALL
FCU-11-1	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22932	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-11-2	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22932	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-13-1	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	7962	10355	12918	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-13-2	MITSUBISHI	PEFY-L12NMAU-A	HORIZ. CONCEALED DUCTED	370	0	7962	10355	12918	26	30	34	1.9 A	0 A	208 V	1	ALL
FCU-14-1	MITSUBISHI	PLFY-M18NFMU-A	2' X 2' CEILING CASSETTE	460	0	11310	15532	19138	33	39	43	0.4 A	0 A	208 V	1	ALL
FCU-14-2	MITSUBISHI	PLFY-M05NFMU-A	2' X 2' CEILING CASSETTE	280	0	4203	4314	5359	26	28	30	0.4 A	0 A	208 V	1	ALL
FCU-15-1	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22764	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-15-2	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22764	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-16-1	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22764	35	38	41	0.9 A	0 A	208 V	1	ALL
FCU-16-2	MITSUBISHI	PLFY-EM36NEMU-A	3' X 3' CEILING CASSETTE	1095	0	26969	31165	22764	35	38	41	0.9 A	0 A	208 V	1	ALL

REMARKS:
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 SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
4. PROVIDE EACH UNIT WITH MA CONTROLLER
5. PROVIDE A CENTRAL CONTROLLER FOR ALL VRF EQUIPMENT (AE-C400A)
6. PROVIDE CONDENSATE PUMPS AT EACH UNIT.
7. FCU-9-6: PROVIDE FILTER BOX WITH 1" MERV 8 HIGH CAPACITY FILTERS.
8. HORIZONTAL CONCEALED DUCTED UNITS: PROVIDE WITH CONDENSATE DRAIN PAN WITH OVERFLOW DRAIN AND OVERFLOW ALARM.
9. 3' X 3' CEILING CASSETTE: CENTER IN THE MIDDLE OF A 4' X 4' GRID AREA.

QA+M architecture
QueenberryArcanMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MECHANICAL SCHEDULES

M6.0

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GAS-FIRED BOILER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GAS BURNER						WATERSIDE					AFUE (%)	THERMAL EFF (%)	INLET DIAMETER	FLUE DIAMETER	ELECTRICAL DATA			REMARKS
				INPUT (BTUH)	OUTPUT (BTUH)	TURN DOWN RATIO	FUEL TYPE	PIPE PRESSURE (in-wg) MIN	PIPE PRESSURE (in-wg) MAX	FLOW (GPM)	EWT (°F)	LWT (°F)	PD (FT)	VOL (gal)					FLA	VOLT	PH	
B-1	LOCHINVAR	FBN1001	CONDENSING FIRETUBE	999,000	961,000	20:1	NATURAL GAS	7	14	67	110	140	6.5	77	96.2	9620	6"	6"	6 A	120 V	1	ALL
B-2	LOCHINVAR	FBN1001	CONDENSING FIRETUBE	999,000	961,000	20:1	NATURAL GAS	7	14	67	110	140	6.5	77	96.2	9620	6"	6"	6 A	120 V	1	ALL

REMARKS:
1. PROVIDE WITH 75 PSIG PRESSURE RELIEF VALVE.
2. HEATING WATER FLUID SHALL BE 30% PROPYLENE GLYCOL.
3. PROVIDE INTERNAL MANUAL HIGH LIMIT AND AUTOMATIC LIMIT.
4. PROVIDE CONDENSATE NEUTRALIZING TUBES.
5. PROVIDE INTERNAL LOW WATER CUT-OFF.
6. PROVIDE WITH BACNET MSTP CARD.
7. PROVIDE CONCRETE HOUSEKEEPING PAD.

AIR SEPARATOR SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	TYPE	PIPE SIZE (IN.)	PRIMARY FLOW RATE (GPM)	SECONDARY FLOW RATE (GPM)	MAX. PRESS. DROP (FT. W.G.)	VOL. (GAL.)	DRY WEIGHT (LBS.)	REMARKS
HS-1	SPIROTHERM	VDX400FAM	HW SYSTEM	COMBINATION HYDRAULIC / AIR / DIRT / MAGNETIC	4	67	240	1.00	9.4	197	ALL

REMARKS:
1. ASME STAMPED. MAXIMUM PRESSURE RATING OF 150 PSIG..
2. PROVIDE WITH AUTOMATIC AIR VALVE AND BALL TYPE BLOWDOWN VALVE WITH CAPPED HOSE END.

DUCT SOUND ATTENUATOR SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	SYSTEM	AIRFLOW (CFM)	MAX PD (in-wg)	OVERALL SIZE (IN.) L	W	H	INSERTION LOSS OCTAVE BAND FREQUENCIES (Hz) 63	125	250	500	1000	2000	4000	8000	REMARKS
SA-DOAS-1-EA	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	1,900	0.22	60	12	44	8	16	26	37	37	37	27	20	ALL
SA-DOAS-1-SA-1	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	950	0.23	60	20	10	5	11	19	32	41	35	22	15	ALL
SA-DOAS-1-SA-2	VIBRO-ACOUSTICS	RD	RECTANGULAR	SUPPLY	950	0.26	72	20	10	10	17	30	30	39	25	18	14	ALL
SA-DOAS-2-EA	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	2,700	0.34	44	14	38	10	19	30	38	48	49	35	25	ALL
SA-DOAS-2-SA	VIBRO-ACOUSTICS	TRED	TRANSITIONAL	SUPPLY	2,700	0.14	72	24	10	9	18	30	36	44	40	36	27	ALL
SA-DOAS-3-EA	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	1,140	0.33	60	10	32	11	16	30	35	48	48	37	27	ALL
SA-DOAS-3-SA	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	1,140	0.21	72	10	24	7	16	29	38	50	51	40	30	ALL
SA-DOAS-4-EA	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	1,000	0.25	60	10	32	11	16	30	35	48	48	37	27	ALL
SA-DOAS-4-SA-1	VIBRO-ACOUSTICS	RD	RECTANGULAR	SUPPLY	500	0.21	84	16	6	10	17	31	34	42	29	20	17	ALL
SA-DOAS-4-SA-2	VIBRO-ACOUSTICS	RD	RECTANGULAR	SUPPLY	500	0.21	84	16	6	10	17	31	34	42	29	20	17	ALL
SA-DOAS-5-EA-1	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	550	0.31	62	14	10	8	16	28	34	45	46	35	27	ALL
SA-DOAS-5-EA-2	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	450	0.26	60	12	10	7	16	29	34	47	49	38	29	ALL
SA-DOAS-5-SA	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	1,000	0.25	60	12	18	9	14	25	32	38	39	28	19	ALL
SA-DOAS-6-EA	VIBRO-ACOUSTICS	RED	ELBOW	EXHAUST	2,300	0.29	60	14	44	9	16	27	37	37	36	26	20	ALL
SA-DOAS-6-SA	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	2,330	0.27	84	14	36	7	14	24	33	44	40	34	29	ALL
SA-RTU-1-RA	VIBRO-ACOUSTICS	RED	ELBOW	RETURN	1,800	0.22	84	28	12	7	14	22	32	49	45	31	22	ALL
SA-RTU-1-SA	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	1,800	0.26	60	12	28	8	13	20	31	32	33	26	22	ALL
SA-RTU-2-RA	VIBRO-ACOUSTICS	RED	ELBOW	RETURN	1,050	0.17	60	24	10	9	11	17	26	28	32	26	20	ALL
SA-RTU-2-SA	VIBRO-ACOUSTICS	RED	ELBOW	SUPPLY	1,050	0.31	72	10	24	7	15	23	34	47	48	36	25	ALL

REMARKS:
1. ELBOW AND TEE ATTENUATOR LENGTHS TO BE TOTAL OF EACH SIDE. CONTRACTOR IS RESPONSIBLE FOR FINAL COORDINATION.
2. PRESSURE DROP MAY BE ALTERED BY SYSTEM EFFECT. INSTALL EQUIPMENT PER MANUFACTURER'S SPECIFICATION.
3. MAXIMUM STATIC PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
4. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20.
5. LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
6. CASING TO BE HTL EQUIVALENT TO 14 GAUGE DUCT WALL TO CONTROL BREAKOUT.
7. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA.
8. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.
9. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER	MODEL	SERVES	TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	DIAM. (IN.)	HEIGHT (IN.)	CHARGE PRESS. (PSIG)	DRY WEIGHT (LBS)	REMARKS
ET-1	WESSELS	NLAP-150	HW SYSTEM	BLADDER	39	39.0	16	49	30	115	ALL

REMARKS:
1. ASME STAMPED.
2. REPLACEABLE BLADDER TYPE.

GLYCOL MAKE-UP UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NO.	SERVES	TYPE	PUMP FLOW RATE (GPM)	PUMP PRESS. (PSIG)	TANK VOLUME (GAL.)	MOTOR QTY	MOTOR POWER (HP)	MOTOR RPM	MOCP	VOLT	PH	REMARKS
GMU-1	WESSELS	GMP-13050	HW SYSTEM	SINGLE PUMP	1.80	70	50	1	0.33	1550	20 A	120 V	1	ALL

REMARKS:
1. SET TO 30 PSIG FILL PRESSURE.
2. PROVIDE WITH HIGH LEVEL AND LOW WATER LEVEL ALARMS, PUMP STARTER PANEL, AND REMOTE MONITORING TERMINAL STRIP.

PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	PUMP FLOW (GPM) DESIGN	PUMP FLOW (GPM) MIN	HEAD (FT)	MOTOR POWER HP	MOTOR POWER RPM	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	REMARKS
BP-1	GRUNDFOS	MAGNA3 65-150	CANNED-ROTOR CIRCULATOR	67	0	20.0	1	2832	115 V	1	ALL
BP-2	GRUNDFOS	MAGNA3 65-150	CANNED-ROTOR CIRCULATOR	67	0	20.0	1	2832	115 V	1	ALL
HWP-1	GRUNDFOS	VLS 40129 4P	VERTICAL, MULTISTAGE, INLINE	180	93	50.0	7.5	1173	208 V	3	ALL
HWP-2	GRUNDFOS	VLS 40129 4P	VERTICAL, INLINE, SPLIT-COUPLE	180	93	50.0	7.5	1173	208 V	3	ALL

REMARKS:
1. PROVIDE MAXIMUM IMPELLER DIAMETER FOR NON-OVERLOADING PERFORMANCE FOR THE SPECIFIED HORSEPOWER.
2. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR OR INVERTER DUTY INDUCTION MOTOR WITH INTEGRAL VARIABLE FREQUENCY DRIVE.
3. PROVIDE EC MOTOR OR VFD WITH NATIVE BACNET COMMUNICATION.
4. PUMP FLUID SHALL BE 30% PROPYLENE GLYCOL.
5. FLOOR MOUNTED PUMP. PROVIDE WITH SUCTION DIFFUSER, FLOOR SUPPORT STANCHION PLATES OR STANDS AND CONCRETE HOUSEKEEPING PAD.

FIN TUBE RADIATION SCHEDULE

TAG	MANUFACTURER	ENCLOSURE MODEL	ELEMENT	ROWS OF ELEMENT	ENCLOSURE HEIGHT (IN.)	MOUNTING HEIGHT (IN.)	EWT (°F)	LWT (°F)	BTUH/LF	REMARKS
FT-A	ZEHNDER-RITTLING	BGHL5	3/4" x 4 1/4" x 4 1/4" x 32 FPF	2	20"	24"	140	120	594.3	ALL
FT-B	ZEHNDER-RITTLING	BGHL5	3/4" x 2 3/4" x 4" x 32 FPF	1	14"	18"	140	120	300.7	ALL
FT-C	ZEHNDER-RITTLING	BGHL5	3/4" x 4 1/4" x 4 1/4" x 32 FPF	3	24"	28"	140	120	754	ALL
FT-D	ZEHNDER-RITTLING	BGHL5	3/4" x 2 3/4" x 4 1/4" x 32 FPF	2	20"	24"	140	120	480.5	ALL

REMARKS:
1. WATER FLOW SHALL BE NO LESS THAN 0.5 GPM.
2. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL.
3. COORDINATE ENCLOSURE LENGTH WITH WALL LENGTH PROVIDE CONTINUOUS ENCLOSURE ALONG EXPOSED WALLS UNLESS NOTED OTHERWISE. V.I.F.
4. ENCLOSURE MAY EXTEND BEYOND ELEMENT, PROVIDE FILLER SECTIONS FOR CONTINUOUS APPEARANCE.

CABINET UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	FAN FLOW (CFM)	FAN MOTOR QTY	FAN MOTOR POWER (hp)	FAN MOTOR RPM	HEATING COIL CAPACITY (BTUH)	HEATING COIL AIRSIDE EAT(db) (°F)	HEATING COIL AIRSIDE LAT(db) (°F)	HEATING COIL WATERSIDE FLOW (GPM)	HEATING COIL WATERSIDE EWT (°F)	HEATING COIL WATERSIDE LWT (°F)	HEATING COIL WATERSIDE PD (PSI)	SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	REMARKS
CUH-1	ZEHNDER-RITTLING	RCWI-350-04	CEILING MOUNT	310	1	0.04	1550	6700	70.0	89.9	0.70	140.0	120.0	0.1	50	120 V	1	ALL
CUH-2	ZEHNDER-RITTLING	RCWI-350-04	RECESSED WALL MOUNT	420	1	0.04	1550	18300	70.0	110.2	1.90	140.0	120.0	1.3	55	120 V	1	ALL
CUH-3	ZEHNDER-RITTLING	RCWI-350-04	CEILING MOUNT	310	1	0.04	1550	6700	70.0	89.9	0.70	140.0	120.0	0.1	50	120 V	1	ALL
CUH-4	ZEHNDER-RITTLING	RCWI-350-04	CEILING MOUNT	310	1	0.04	1550	6700	70.0	89.9	0.70	140.0	120.0	0.1	50	120 V	1	ALL
CUH-5	ZEHNDER-RITTLING	RCWI-350-04	CEILING MOUNT	310	1	0.04	1550	6700	70.0	89.9	0.70	140.0	120.0	0.1	50	120 V	1	ALL

REMARKS:
1. HEATING COIL PERFORMANCE BASED ON 30% PROPYLENE GLYCOL.
2. PROVIDE WITH 3-SPEED EC MOTOR.
3. PROVIDED WITH FACTORY WIRED AND MOUNTED NON-FUSED DISCONNECT.
4. PROVIDE WITH 24 VAC FAN CONTROL RELAY WITH TRANSFORMER.
5. PROVIDE WITH 1" MERV 8 PANEL FILTER.
6. PROVIDE WITH PAINTED CABINET. CABINET COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR CHART.

UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	FAN FLOW (CFM)	FAN MOTOR QTY	FAN MOTOR RPM	FAN MOTOR HP	HEATING COIL CAPACITY (Btu/h)	HEATING COIL AIRSIDE EAT(db) (°F)	HEATING COIL AIRSIDE LAT(db) (°F)	HEATING COIL WATERSIDE FLOW (GPM)	HEATING COIL WATERSIDE EWT (°F)	HEATING COIL WATERSIDE LWT (°F)	HEATING COIL WATERSIDE PD (psi)	SOUND PRESS LEVEL	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	REMARKS
UH-1	ZEHNDER-RITTLING	RH-33	HORIZ. UNIT HEATER	490	1	1550	0.07	9100.0	70.0	87.2	0.90	140.0	120.0	0.10	50	120 V	1	ALL

REMARKS:
1. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL SOLUTION AND HIGH FAN SPEED.
2. UNIT SHALL BE CONTROLLED BY WALL MOUNTED TEMPERATURE SENSOR.
3. PROVIDE WITH FACTORY WIRED AND MOUNTED NON-FUSED DISCONNECT SWITCH.
4. PROVIDE WITH CEILING MOUNTING BRACKET.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING ELEMENTS QTY	HEATING ELEMENTS POWER Btu/h	HEATING ELEMENTS POWER kW	FAN FLOW (CFM)	FAN MOTOR QTY	FAN MOTOR POWER (hp)	FAN MOTOR RPM	SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA FLA	ELECTRICAL DATA VOLT	ELECTRICAL DATA PH	REMARKS
EUH-1	REZNOR	EUHC-3	1	10.236	3	340	1	0.03	1550	58	14.4 A	208 V	1	ALL

REMARKS:
1. PROVIDE WITH UNIVERSAL WALL AND CEILING MOUNTING BRACKET.
2. PROVIDE WITH FACTORY WIRED AND MOUNTED NON-FUSED DISCONNECT SWITCH.
3. PROVIDE WITH 24 VAC POWER CONTACTOR AND CONTROL TRANSFORMER. UNIT SHALL BE CONTROLLED BY WALL MOUNTED TEMPERATURE SENSOR.

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EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

MECHANICAL SCHEDULES

M6.1

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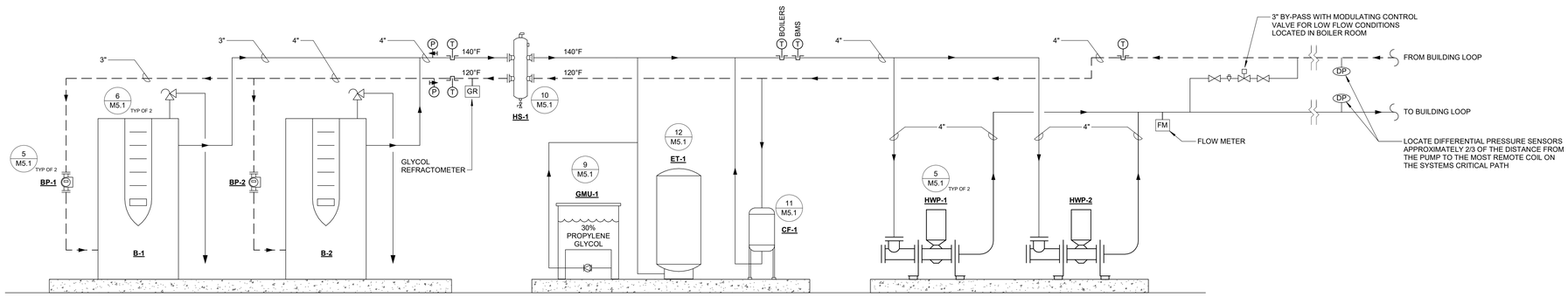

1 HOT WATER SYSTEM PIPING SCHEMATIC
NTS

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Project #:25064

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CONSTRUCTION DOCUMENTS
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MECHANICAL PIPING DIAGRAMS

M7.0

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DIAGRAM SYMBOL LEGEND

DISPLAY	DESCRIPTION
//////	POWER WIRE
———	CONTROL WIRE
———	REF. PIPE

PIPING AND CONTROLS		
SYMBOL	BRANCH PIPE	MODEL NAME
J1		CMY-Y62-GA-E
J2		CMY-Y62-G-E
SYMBOL	LIQUID PIPE	GAS PIPE SIZE
P1	3/8	7/8
P2	3/8	5/8
P3	3/8	3/4
P4	1/4	1/2
P5	5/8	3/4
P6	3/4	1-1/8
SYMBOL	MODEL NUMBER	
CR	PAC-YTS30CRAU	

1 VRF AND SPLIT SYSTEM REFIGERANT PIPING AND CONTROL WIRING DIAGRAM
NTS

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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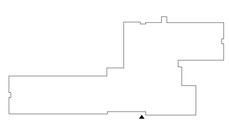

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MECHANICAL PIPING DIAGRAMS

M7.1

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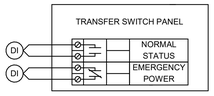
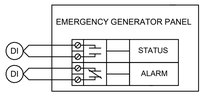


1 EMERGENCY GENERATOR TRANSFER MONITORING CONTROL DIAGRAM
NTS



2 EMERGENCY GENERATOR MONITORING CONTROL DIAGRAM
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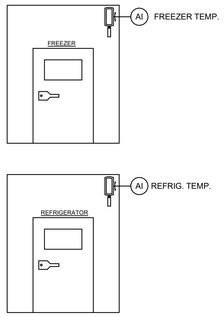
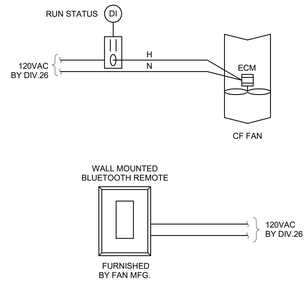
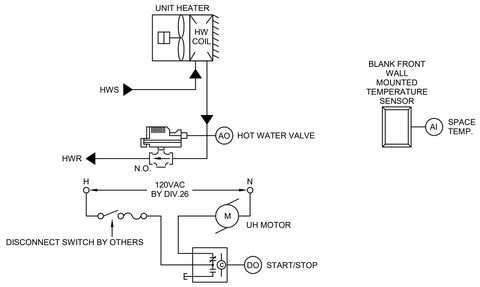


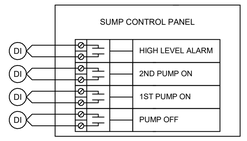
3 REFRIGERATOR/FREEZER TEMP MONITORING CONTROL DIAGRAM
NTS



4 CEILING FAN CONTROL DIAGRAM
NTS



5 HOT WATER UNIT HEATER CONTROL DIAGRAM
NOT TO SCALE



6 EJECTOR PIT MONITORING CONTROL DIAGRAM
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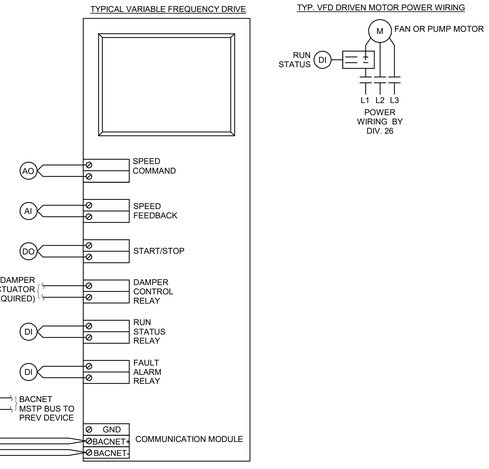

9 VARIABLE FREQUENCY DRIVE CONTROL DIAGRAM
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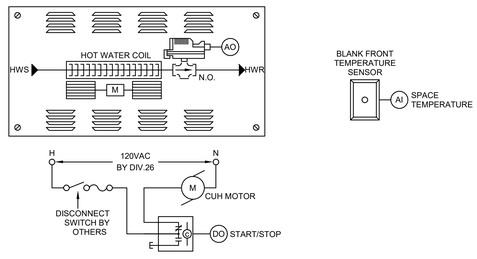
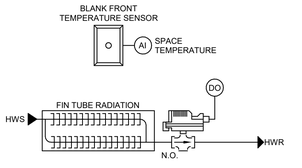


7 HOT WATER CABINET UNIT HEATER CONTROL DIAGRAM
NOT TO SCALE



8 HOT WATER FIN TUBE CONTROL DIAGRAM
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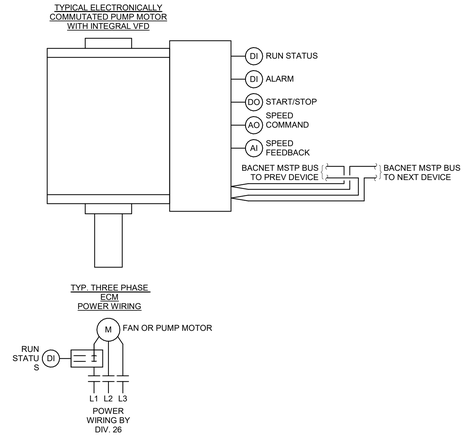
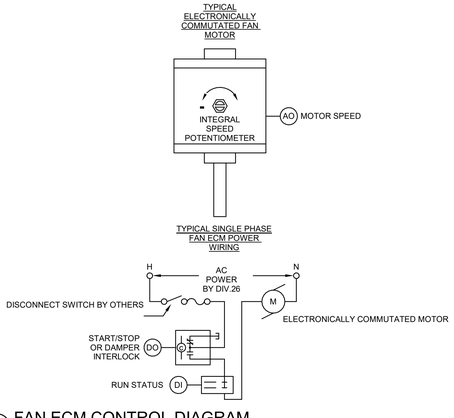


10 PUMP ECM CONTROL DIAGRAM.
NTS



11 FAN ECM CONTROL DIAGRAM
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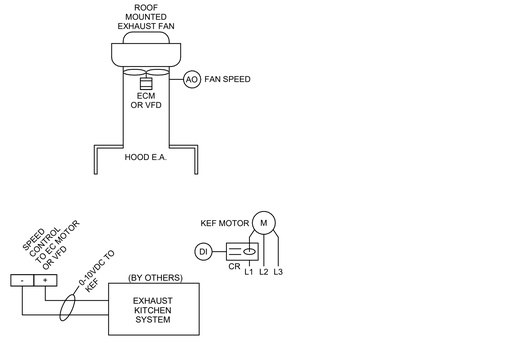

12 KITCHEN EXHAUST FAN CONTROL DIAGRAM
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EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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MECHANICAL CONTROL DIAGRAMS

M8.0

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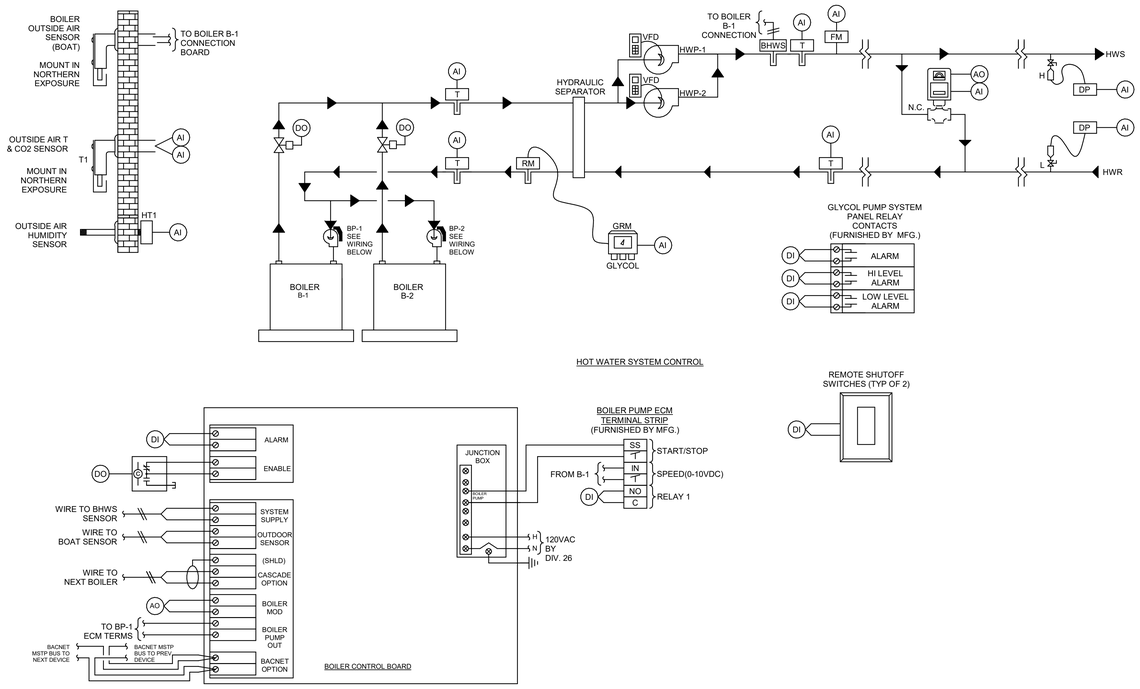
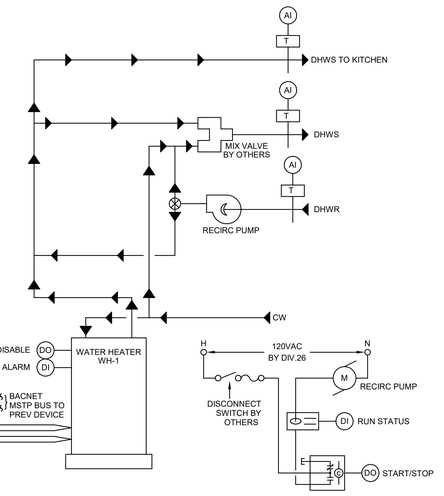
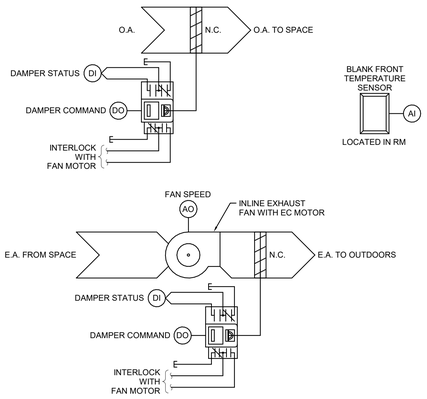


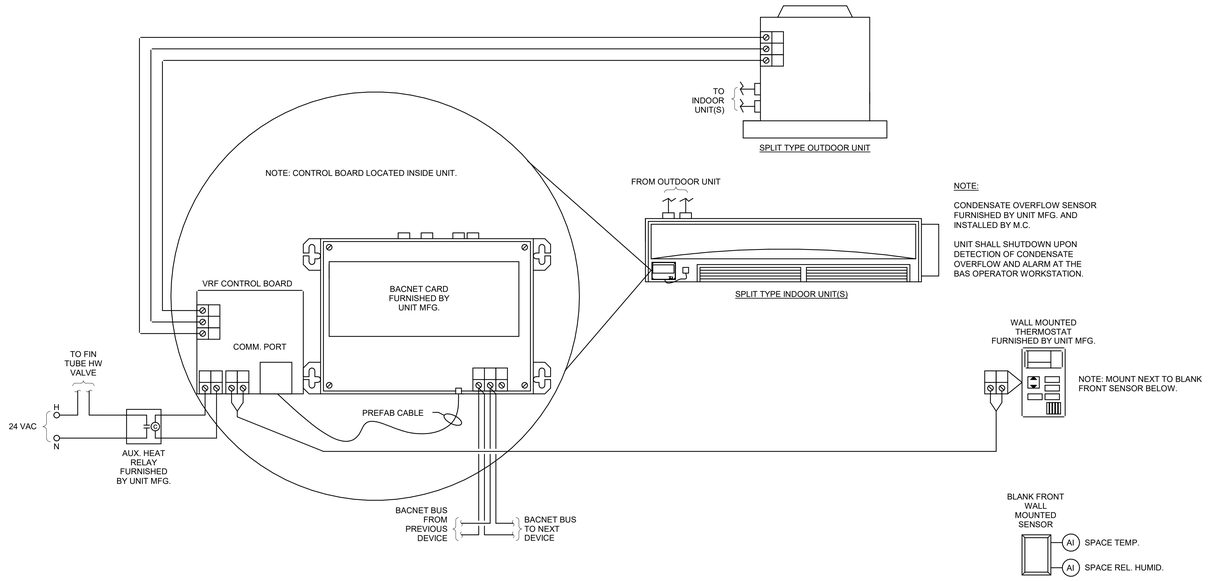
1 HOT WATER SYSTEM CONTROL DIAGRAM
NTS



2 DOMESTIC WATER HEATER AND RECIRC PUMP CONTROL DIAGRAM
NOT TO SCALE



3 BOILER ROOM EXHAUST FAN AND OUTDOOR AIR DAMPER CONTROL DIAGRAM
NOT TO SCALE



4 SPLIT SYSTEM HEAT PUMP CONTROL DIAGRAM
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MECHANICAL CONTROL DIAGRAMS

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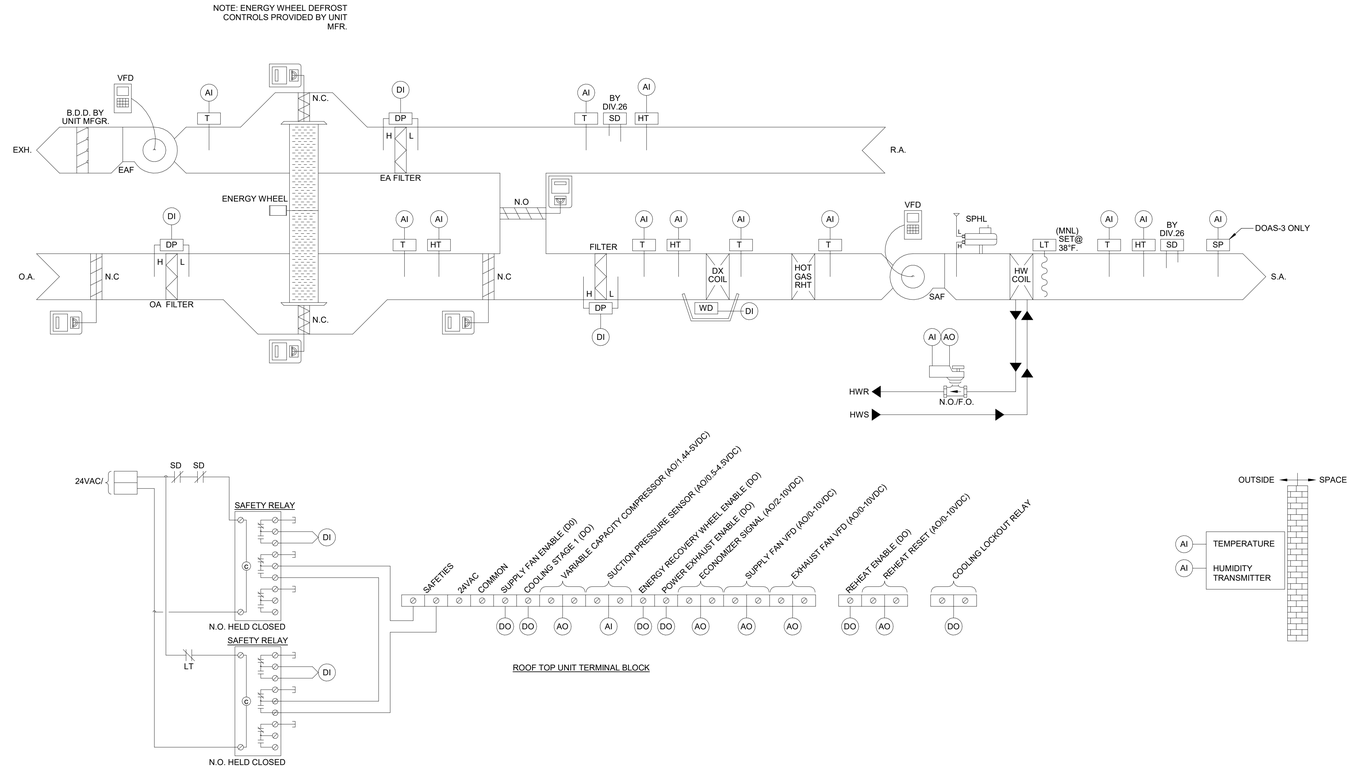
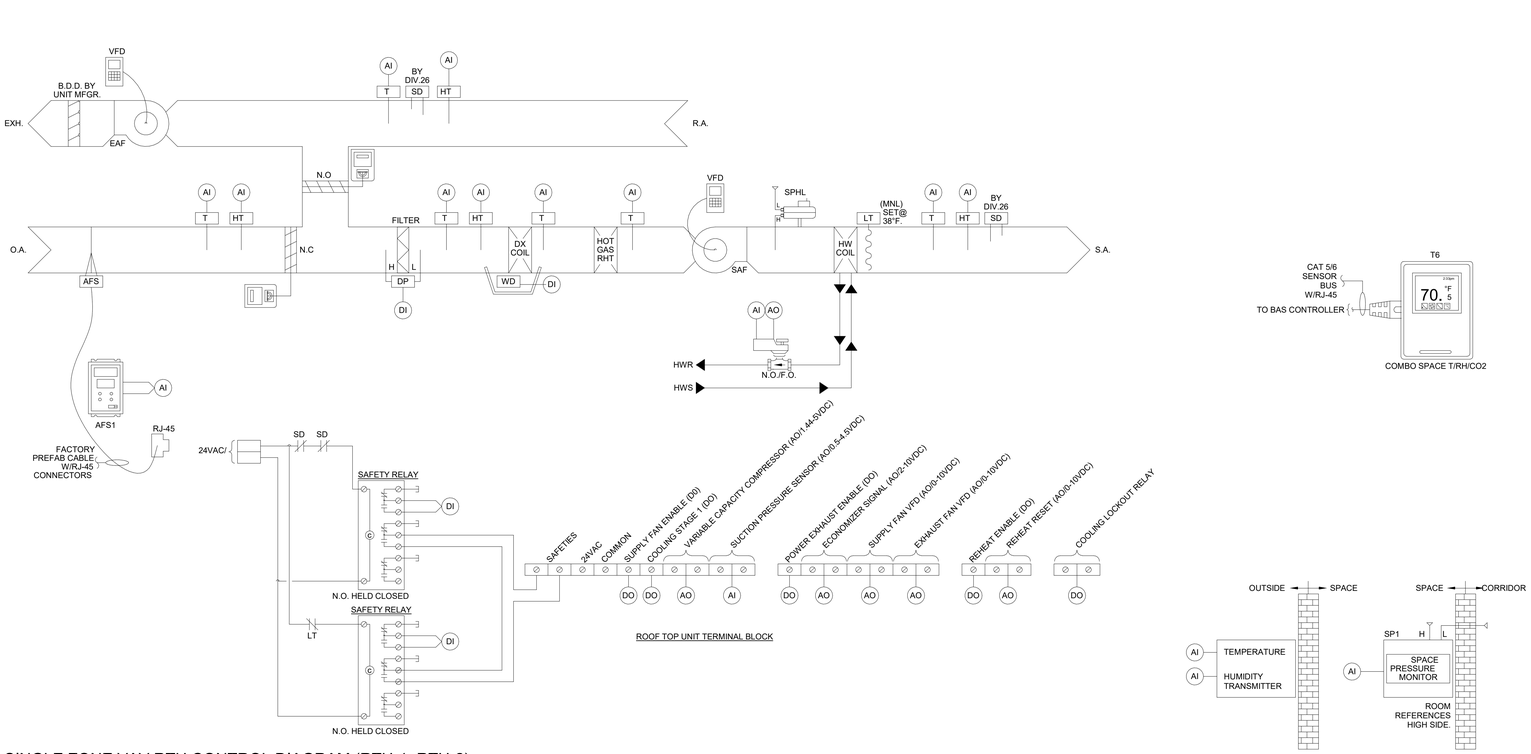


1 DEDICATED OUTDOOR AIR SYSTEM CONTROL DIAGRAM (TYP. OF ALL DOAS UNITS)
NOT TO SCALE



2 SINGLE ZONE VAV RTU CONTROL DIAGRAM (RTU-1, RTU-2)
NTS

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STATE OF CONNECTICUT · REGISTERED · No. 21720 · LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
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JUNE 5, 2026

MECHANICAL CONTROL DIAGRAMS

M8.2

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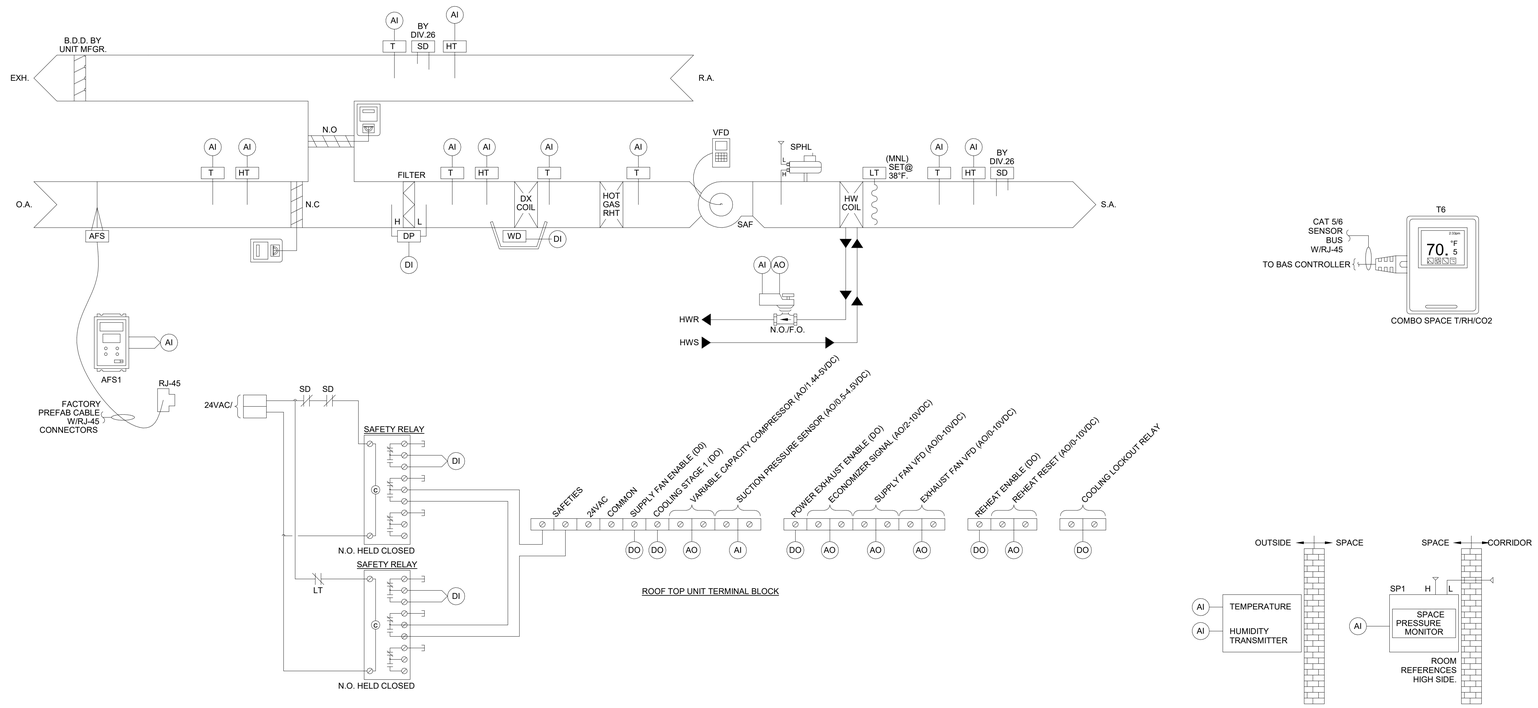

1 SINGLE ZONE VAV RTU CONTROL DIAGRAM (RTU-3)
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345 MIX STREET
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MECHANICAL CONTROL DIAGRAMS

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ABBREVIATIONS

A	GENERAL SERVICE COMPRESSED AIR
A/AMP	AMPERE
AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT(S)
AD	ACCESS DOORS
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AMB	AMBIENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
AS	AIR SEPARATOR
AV	ACID VENT (CHEMICAL)
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS/HOUR
C	CONNDESATE
C/B	CIRCUIT BREAKER
CER/CEG	CEILING EXHAUST REG./GRILLE
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMPS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	CEILING
CLPS	CLEAN LOW PRESSURE STEAM
CMPS	CLEAN MEDIUM PRESSURE STEAM
CMV	CEILING MOUNTED VENTILATOR
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	COEFFICIENT, VALVE FLOW
CW	COLD WATER
D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DCV	DOUBLE CHECK VALVE
DE	DEIONIZED PROCESS WATER
DEG or °	DEGREE
DI	DISTILLED WATER
DIA	DIAMETER
DN	DOWN
DWBP	DOMESTIC WATER BOOSTER PUMP
DWG	DRAWING
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRICAL HEATING CABLES
ELEC	ELECTRICAL
ELEV	ELEVATOR
ETP	ELECTRIC TRAP PRIMER
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
F	FAHRENHEIT
FA	FIRE ALARM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FM	FLOW METER
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FOOR OR FEET
FVC	FIRE VALVE CABINET
G	GAS
GA	GAUGE
GAL	GALLONS
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRU	GREASE RECOVERY UNIT
GW	GREASE WASTE
H	HEIGHT
HD	HEAD
HP	HORSEPOWER
HPG	HIGH PRESSURE GAS
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HT	HEAT
HTR	HEATER
HUM	HUMIDIFIER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER

ABBREVIATIONS

HWR	HOT WATER RETURN
HWRP	HOT WATER RETURN PUMP
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGE
ID	INSIDE DIAMETER
IEF	IN-LINE EXHAUST FAN
IN	INCHES
IN WG	INCHES OF WATER, GAUGE (PRESSURE)
IW	INDIRECT WASTE
JP	JOCKEY PUMP
KEF	KITCHEN EXHAUST FAN
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KITCHEN WATER HEATER
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAV	LAVATORY
LBS/HR	POUNDS PER HOUR
LF	LINEAR FEET
LG	LABORATORY GAS
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LV	LABORATORY VACUUM
MA	MEDICAL COMPRESSED AIR
MAGP	MASTER ALARM GAS PANEL
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
MUAU	MAKE UP AIR UNIT
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAIN LEADER
P	POLE
PH / Ø	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RD	ROOF DRAIN
REF	ROOF EXHAUST FAN
RL	RAIN LEADER
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPD/RPZ	REDUCED PRESSURE DEVICE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
RV	RADON VENT
S	SOIL
SAC	SHOP AIR COMPRESSOR
SCP	STEAM CONDENSATE PUMP
SEP	SEWAGE EJECTOR PUMP
SP	STATIC PRESSURE
SP	SUMP PUMP
SPEC	SPECIFICATION
SQ	SQUARE
SS	SOIL/STACK
ST	STORM
STD	STANDARD
SWH	STEAM WATER HEATER
TAG	IDENTIFICATION OF EQUIPMENT
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
UH	UNIT HEATER
UR	URINAL
V	VENT
VAC	VACUUM
VEL	VELOCITY
VFC	VARIABLE FREQUENCY CONTROLLER
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WG	WIREGUARD
WH	WALL HYDRANT (HOSE BIBB)
WHA	WATER HAMMER ARRESTER
WI	WIDTH
WP	WEATHERPROOF
WTG	WALL TRANSFER GRILLE
WV	WASTE AND VENT COMBINATION

PLUMBING SYMBOLS

———	COLD WATER
— — —	HOT WATER
———	HOT WATER RECIRCULATING
- - - - - -	VENT
——S——	SOIL OR WASTE
——RV——	RADON VENT
——WV——	COMBINATION WASTE & VENT
——GW——	GREASE WASTE
——GV——	GREASE VENT
——IW——	INDIRECT WASTE
——ORL——	OVERFLOW RAIN LEADER
——RL——	RAIN LEADER
——ST——	STORM DRAIN
——CD——	CONDENSATE DRAIN
——G——	GAS
——[HT]——	HEAT TRACED
Ⓜ	WATER METER ASSEMBLY
G	GAS METER ASSEMBLY
TP	TRAP PRIMER
ETP	ELECTRONIC TRAP PRIMER

MAXIMUM HOT WATER ROUGH IN LENGTH

NOMINAL PIPE SIZE	MAXIMUM PIPE LENGTH FROM END OF HEAT TRACE OR RECIRCULATED MAIN TO FIXTURE STOP (FEET)
PUBLIC LAVATORIES	
1/2"	2
3/4" AND LARGER	0.5
OTHER FIXTURES AND APPLIANCES	
1/2"	43
3/4"	21
1"	16
1-1/4"	8
1-1/2"	6
2" AND LARGER	4

IECC TABLE C404.5.1

MIN. SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (IN)	MIN. SLOPE (IN PER FOOT)
LESS THAN 3"	1/4
3" TO 6"	1/8

FITTINGS AND VALVES

	BALL VALVE
	DIRECTION OF FLUID FLOW
	GATE VALVE
	BUTTERFLY VALVE
	CALIBRATED BALANCING VALVE
	CIRCUIT SETTER
	GAS COCK
	CHECK VALVE
	PRESSURE REDUCING VALVE
	THERMOSTATIC MIXING VALVE
	SOLENOID VALVE
	DRAIN VALVE WITH HOSE END, CAP & CHAIN OR HOSE BIBB
	WALL HYDRANT
	TAKEOFF FROM TOP OF MAIN PIPE
	TAKEOFF FROM BOTTOM OF MAIN PIPE
	UNION
	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	WALL CLEANOUT OR BLIND FLANGE
	FLOOR CLEANOUT
	"P" TRAP
	ROUND FLOOR DRAIN
	FLOOR SINK
	STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN
	BACKFLOW PREVENTER (2 1/2" AND LARGER)
	PUMP
	WATER HAMMER ARRESTOR
	PIPE CAP OR CAPPED END OF PIPE
	AIR VENT
	PRESSURE RELIEF SAFETY VALVE
A	AQUASTAT
T	TEMPERATURE SENSOR WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
	THERMOMETER WITH SEPARABLE SOCKET IN IMMERSIBLE WELL
	PRESSURE GAUGE

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED PLUMBING SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, OFFSETS, ETC. AS REQUIRED TO INSTALL PIPING, EQUIPMENT, MAINTAINING PROPER CLEARANCES AND TO AVOID ANY CONFLICTS WITH OTHER TRADES, AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE, AND VENT PIPING SYSTEMS. REFER TO THE PLUMBING SCHEDULES FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
11. PROVIDE PROPER PIPING SYSTEM IDENTIFICATION LABELS, SLOPES FOR DRAIN PIPING, CLEANOUTS, HANGERS, ETC. IN ACCORDANCE WITH THE PLUMBING CODE.
12. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES OR EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT. MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
13. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC.); SIZE SHALL BE BASED ON FIXTURE UNITS PER PDI STANDARDS AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
14. ALL PIPING, DRAINS, STRAINERS, FAUCETS, FAUCET AERATORS, FILTERS, ETC. SHALL BE THOROUGHLY CLEANED AND FLUSHED IMMEDIATELY BEFORE PROJECT COMPLETION. PROVIDE CERTIFICATION ON CONTRACTOR'S LETTER HEAD THAT THIS WORK HAS BEEN COMPLETED.
15. DOMESTIC WATER DROPS AND RISERS INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF INSULATION AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
16. BEFORE INSTALLATION, COORDINATE THE WORK WITH OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, FACTORY START UPS AND INSTALLATION OF FIELD DEVICES.
17. PIPE ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT COOLING COILS, BY GRAVITY (INTERIOR AIR HANDLING UNITS, FAN COIL UNITS, AC UNITS, ETC.) TO FLOOR DRAINS, JANITOR'S SINKS OR OTHER APPROVED LOCATION THROUGH AN AIR GAP. EACH CONDENSATE DRAIN SHALL BE TRAPPED AT THE EQUIPMENT DRAIN OUTLET, REFER TO TRAP DETAILS ON DRAWINGS. COORDINATE EXACT LOCATION OF EQUIPMENT WITH THE HVAC CONTRACTOR AND ADJUST AS NECESSARY.
18. INSULATE ALL WASTE ABOVE SLAB RECEIVING CONDENSATE FROM EQUIPMENT INCLUDING "P" TRAPS AND BRANCH WASTE PIPING
19. ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS, THROUGH AIR GAP OR TO A SINK DRAIN TAILPIECE.
20. INSTALL TRAP PRIMERS OR TRAP GUARD SEALER FOR FLOOR DRAINS, HUB DRAINS AND FIXED AIR GAP FITTINGS, WHERE TRAP IS SUBJECT TO LOSS OF SEAL BY EVAPORATION, CONNECT TRAP PRIMER TO COLD WATER LINE. PROVIDE ISOLATION VALVES AND EXTEND SLOPED PRIMING LINE TO DRAIN TRAPS.
21. COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FOR EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
22. ALL EXTERIOR EXPOSED GAS PIPING SHALL BE PRIMED AND PAINTED.
23. FLOOR MOUNTED PLUMBING EQUIPMENT SHALL BE INSTALLED ON A 6" CONCRETE HOUSE-KEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN THE EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
24. COORDINATE EXACT LOCATION OF PLUMBING SERVICES ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS PRIOR TO INSTALLATION. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER BEFORE COMMENCING WORK.
25. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.
26. PROVIDE PIPE EXPANSION COMPENSATION FOR THE VARIOUS PIPING SYSTEMS. SUBMIT ENGINEERED DETAILS FOR APPROVAL AND VERIFY INSTALLATION IS IN ACCORDANCE WITH THE CODE. THE CONTRACTOR'S CONSULTING ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A REPORT OF THE FINDINGS.

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STATE OF CONNECTICUT — JOSEPH M. MALIK — No. 21720 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING GENERAL INFORMATION

P0.1

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UNDERSLAB GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. ALL WORK SHOWN SHALL BE PERFORMED BY PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INVERTS, UTILITY CONNECTIONS, AND SLAB ELEVATIONS PRIOR TO INSTALLATION. REPORT ANY CONFLICTS TO ENGINEER BEFORE PROCEEDING.
4. RUN ALL PIPING WITHIN EXISTING UTILITY TUNNEL WHERE POSSIBLE.
5. ALL UNDER-SLAB PIPING SHALL BE INSTALLED ON COMPACTED SUBGRADE WITH 4" MIN SAND OR FINE GRAVEL BEDDING. BACKFILL AND COMPACT PER STRUCTURAL REQUIREMENTS.
6. COORDINATE ALL PIPE ROUTES AND PENETRATIONS THROUGH GRADE BEAMS WITH STRUCTURAL PRIOR TO CONCRETE PLACEMENT.
7. PROVIDE PVC OR STEEL SLEEVES THROUGH GRADE BEAMS WITH 1" MIN ANNULAR CLEARANCE AROUND PIPE. SEAL WITH NON-SHRINK GROUT OR FLEXIBLE FIRESTOP SEALANT. FIELD CORING OF REINFORCED GRADE BEAMS IS NOT PERMITTED WITHOUT STRUCTURAL APPROVAL.
8. PIPING LAYOUTS ARE DIAGRAMMATIC. COORDINATE ROUTING TO AVOID CONFLICTS WITH FOUNDATIONS, REINFORCING, AND OTHER UTILITIES.
9. ALL BELOW-GRADE MATERIALS SHALL BE SUITABLE FOR UNDER-SLAB USE AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
10. TEST ALL UNDER-SLAB SANITARY AND STORM PIPING FOR LEAKS PRIOR TO COVER OR CONCRETE POUR.
11. PROVIDE CLEANOUTS AT CHANGES OF DIRECTION >45°, AT BASE OF STACKS, AND AT INTERVALS PER CODE. CLEANOUTS SHALL BE ACCESSIBLE AFTER SLAB POUR.
12. COORDINATE ALL CLEANOUT LOCATIONS WITH ARCHITECT.
13. MAINTAIN REQUIRED COVER UNDER STRUCTURAL SLABS AND COORDINATE ALL TRENCHES AND RECESSES WITH STRUCTURAL.
14. PROVIDE WATERPROOF SLEEVES AND SEALANTS AT ALL EXTERIOR WALL AND FOUNDATION PENETRATIONS. ALL JOINTS BELOW SLAB SHALL BE WATERTIGHT.
15. PLUMBING CONTRACTOR TO PROVIDE SEALING AND FIRESTOPPING OF ALL PENETRATIONS THROUGH FIRE-RATED FLOOR/WALL ASSEMBLIES.
16. GREASE INTERCEPTOR SIZING, SELECTION, AND LOCATION SHALL BE DETERMINED BY CIVIL ENGINEER IN ACCORDANCE WITH LOCAL CODE AND AHJ REQUIREMENTS. COORDINATE FINAL MODEL, CAPACITY, AND INSTALLATION WITH ARCH., PLUMBING, AND SITE DRAWINGS PRIOR TO CONSTRUCTION.
17. RADON MITIGATION SYSTEM SHALL BE PER STRUCTURAL DRAWINGS. COORDINATE PIPE ROUTING, SLEEVES, FOUNDATION PENETRATIONS, AND ROOF TERMINATIONS WITH MECH. EQUIPMENT.

PLUMBING KEYNOTES

P01 NEW SAN. DISCHARGE TO SITE. REFER TO CIVIL FOR CONT. & CONNECTION. COORD. INVERTS & ROUTING W/ CIVIL & FIELD CONDITIONS.

P21 UP TO FCO

P22 3" ST RISER UP

P24 4" ST RISER UP

P25 2" UP TO HS-1

P26 4" UP TO WC-2A

P27 2" V UP

P28 2" UP TO LAV-2A

P29 2" UP TO FD-1

P35 6" RADON VENT PIPING. INSTALL UNDERGROUND RADON COLLECTION PIPING AS SHOWN AND CONNECT TO RISER(S) FOR VENTING THROUGH ROOF. TERMINATE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND LOCATE A MINIMUM OF 25'-0" FROM ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND OTHER BUILDING OPENINGS. COORDINATE INSTALLATION WITH STRUCTURAL, SITE, AND FOUNDATION REQUIREMENTS.

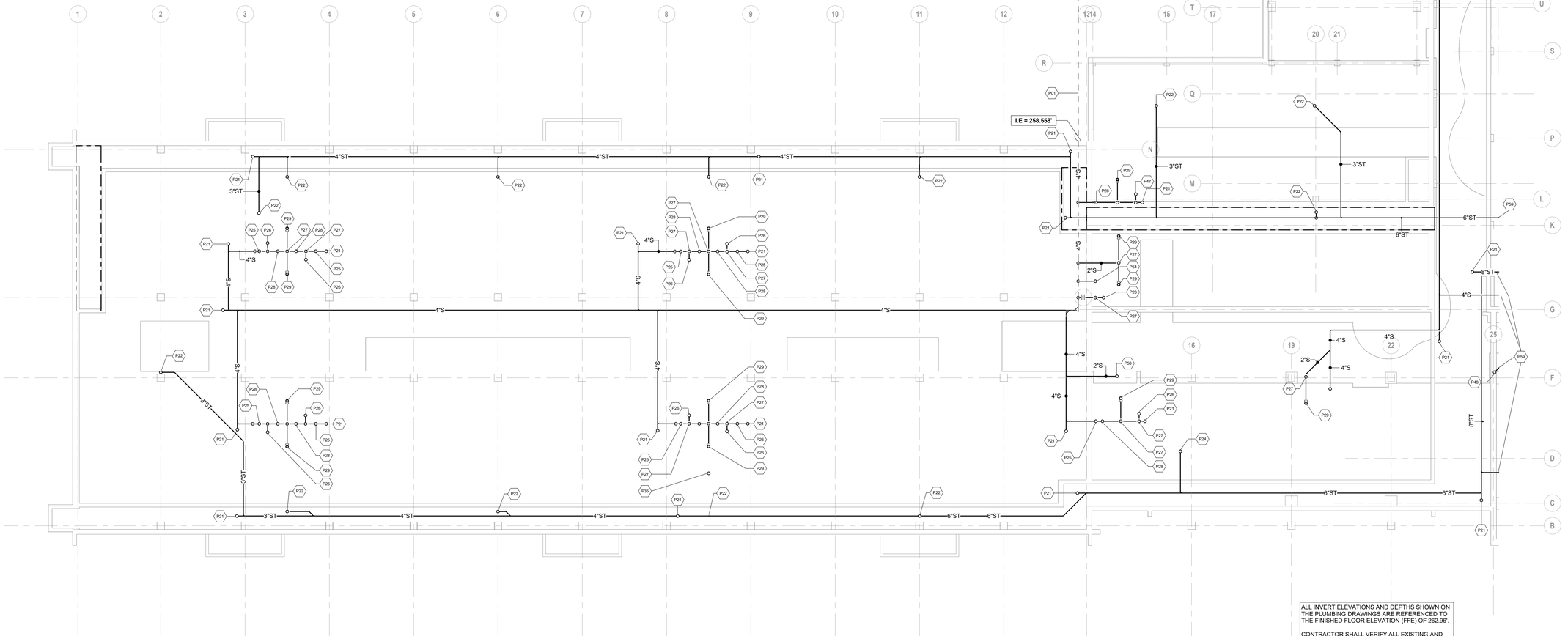
P47 4"W UP TO WC-1A

P48 2" S UP TO LAV-1A

P53 2"W UP TO EWC

P54 4" GV UP TO VTR

P59 REFER TO P1.0B FOR CONT.



ALL INVERT ELEVATIONS AND DEPTHS SHOWN ON THE PLUMBING DRAWINGS ARE REFERENCED TO THE FINISHED FLOOR ELEVATION (FFE) OF 262.96'.

CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS IN THE FIELD AND COORDINATE WITH CIVIL DRAWINGS PRIOR TO CONSTRUCTION.

1 BASEMENT DRAINAGE PLAN - AREA A
1/8" = 1'-0"

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STATE OF CONNECTICUT — JOSEPH M. MALIK — PE.21720 — LICENSED PROFESSIONAL ENGINEER

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AREA A

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BASEMENT DRAINAGE PLAN - AREA A

P1.0A

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4. RUN ALL PIPING WITHIN EXISTING UTILITY TUNNEL WHERE POSSIBLE.
5. ALL UNDER-SLAB PIPING SHALL BE INSTALLED ON COMPACTED SUBGRADE WITH 4" MIN SAND OR FINE GRAVEL BEDDING. BACKFILL AND COMPACT PER STRUCTURAL REQUIREMENTS.
6. COORDINATE ALL PIPE ROUTES AND PENETRATIONS THROUGH GRADE BEAMS WITH STRUCTURAL PRIOR TO CONCRETE PLACEMENT.
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8. PIPING LAYOUTS ARE DIAGRAMMATIC. COORDINATE ROUTING TO AVOID CONFLICTS WITH FOUNDATIONS, REINFORCING, AND OTHER UTILITIES.
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10. TEST ALL UNDER-SLAB SANITARY AND STORM PIPING FOR LEAKS PRIOR TO COVER OR CONCRETE POUR.
11. PROVIDE CLEANOUTS AT CHANGES OF DIRECTION >45°, AT BASE OF STACKS, AND AT INTERVALS PER CODE. CLEANOUTS SHALL BE ACCESSIBLE AFTER SLAB POUR.
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13. MAINTAIN REQUIRED COVER UNDER STRUCTURAL SLABS AND COORDINATE ALL TRENCHES AND RECESSES WITH STRUCTURAL.
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17. RADON MITIGATION SYSTEM SHALL BE PER STRUCTURAL DRAWINGS. COORDINATE PIPE ROUTING, SLEEVES, FOUNDATION PENETRATIONS, AND ROOF TERMINATIONS WITH MECH. EQUIPMENT.

PLUMBING KEYNOTES

P21 UP TO FCO

P22 3" ST RISER UP

P24 4" ST RISER UP

P25 2" UP TO HS-1

P26 4" UP TO WC-2A

P27 2" V UP

P28 2" UP TO LAV-2A

P29 2" UP TO FD-1

P30 NEW 8" STORM TO EXISTING SITE STORM DRAIN REFER TO CIVIL FOR CONT. & CONNECTION. COORD. INVERTS & ROUTING W/ CIVIL & FIELD CONDITIONS. INVERT ELEVATION AT BUILDING EXIT : CONTRACTOR SHALL VERIFY ELEVATION IN FIELD AND MAINTAIN REQUIRED SLOPE TO POINT OF CONNECTION

P31 NEW CONCRETE PIT FOR DUPLEX SEWAGE EJECTOR SYSTEM (SP-1 & SP-2). PROVIDE (2) 2" DISCHARGE RISERS & 2" VENT. INSTALL CHECK VALVE AND ISOLATION VALVE ON EACH DISCHARGE LINE. COORDINATE POWER AND CONTROLS WITH ELECTRICAL. REFER TO SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS. PIT CONSTRUCTION BY STRUCTURAL.

P32 3" PD TO TIE INTO GRAVITY SANITARY LINE. PROVIDE WYE FITTING IN DIRECTION OF FLOW COORDINATE EXACT CONNECTION LOCATION AND INVERT WITH FIELD CONDITIONS.

P33 4" UP TO FD-2

P35 6" RADON VENT PIPING. INSTALL UNDERGROUND RADON COLLECTION PIPING AS SHOWN AND CONNECT TO RISER(S) FOR VENTING THROUGH ROOF. TERMINATE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND LOCATE A MINIMUM OF 25'-0" FROM ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND OTHER BUILDING OPENINGS. COORDINATE INSTALLATION WITH STRUCTURAL, SITE, AND FOUNDATION REQUIREMENTS.

P39 4" W UP TO FS-1

P40 4" W UP TO FD-1

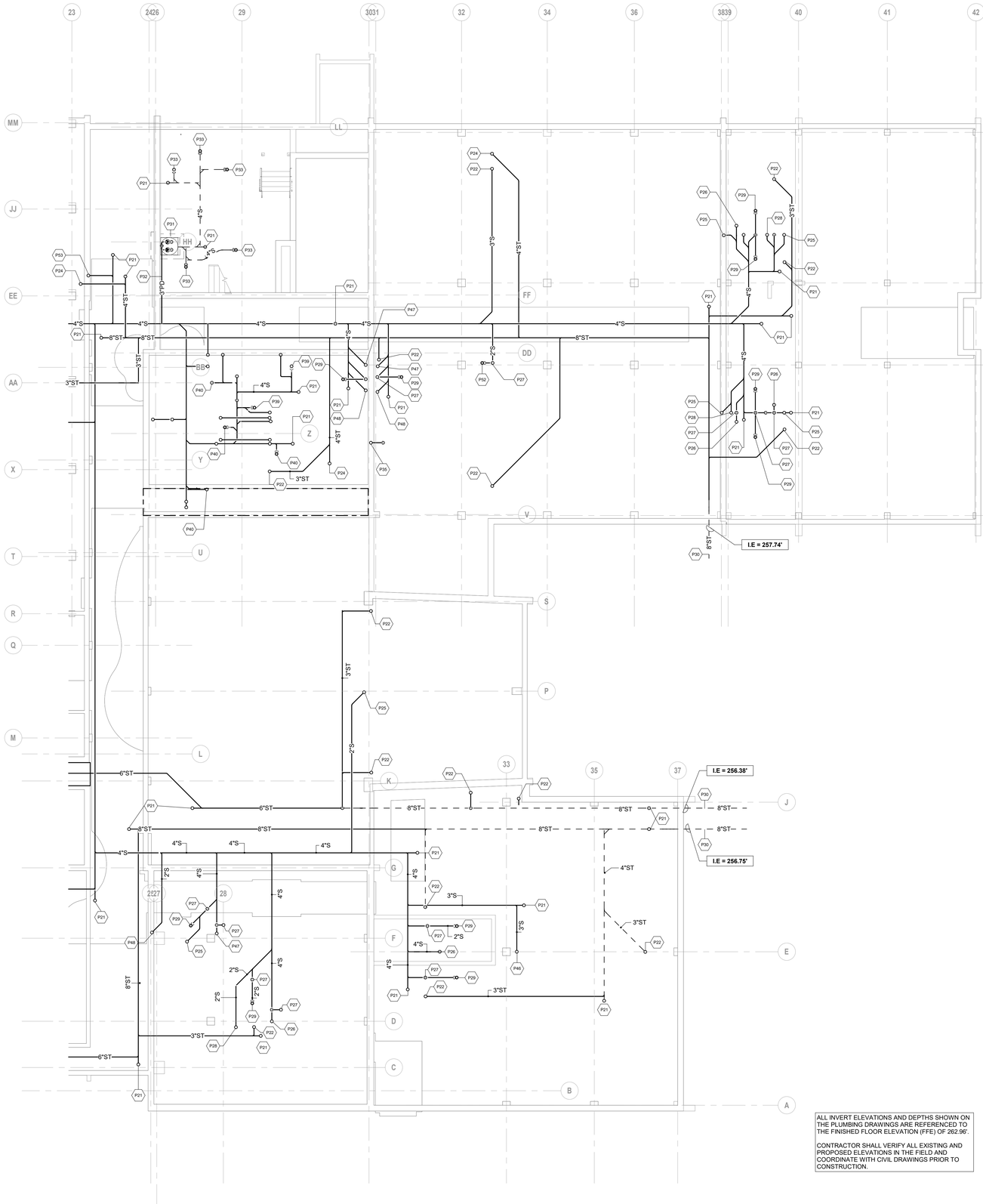
P46 3" W UP TO HS-1

P47 4"W UP TO WC-1A

P48 2" S UP TO LAV-1A

P52 2"S UP TO JS-1

P53 2"W UP TO EWC



ALL INVERT ELEVATIONS AND DEPTHS SHOWN ON THE PLUMBING DRAWINGS ARE REFERENCED TO THE FINISHED FLOOR ELEVATION (FFE) OF 262.96'.

CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED ELEVATIONS IN THE FIELD AND COORDINATE WITH CIVIL DRAWINGS PRIOR TO CONSTRUCTION.

1 BASEMENT DRAINAGE PLAN - AREA B
1/8" = 1'-0"

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QuisenberryArcariMalik
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RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

BASEMENT DRAINAGE PLAN - AREA B

P1.0B

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GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. ALL WORK SHOWN SHALL BE PERFORMED BY PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
3. PIPING LAYOUTS ARE DIAGRAMMATIC. COORDINATE ROUTING TO AVOID CONFLICTS WITH FOUNDATIONS, REINFORCING, AND OTHER UTILITIES.
4. PROVIDE CLEANOUTS AT CHANGES OF DIRECTION >45°, AT BASE OF STACKS, AND AT INTERVALS PER CODE. CLEANOUTS SHALL BE ACCESSIBLE AFTER SLAB POUR.
5. PROVIDE WATERPROOF SLEEVES AND SEALANTS AT ALL EXTERIOR WALL AND FOUNDATION PENETRATIONS.
6. PLUMBING CONTRACTOR TO PROVIDE SEALING AND FIRESTOPPING OF ALL PENETRATIONS THROUGH FIRE RATED FLOOR/WALL ASSEMBLIES.
7. COORDINATE ALL CLEANOUT LOCATIONS (FLOOR AND WALL PLATE CLEANOUT) WITH ARCHITECTURAL LAYOUT.
8. REFER TO PDI "MINIMUM SPACE REQUIREMENT FOR ENCLOSED PLUMBING FIXTURE SUPPORTS" FOR ALL WALL HUNG FIXTURES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
9. FINAL SELECTION AND FINISH OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT/OWNER.
10. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.
11. PROVIDE TRAP SEALS FOR ALL FLOOR DRAINS INDICATED.

PLUMBING KEYNOTES

P18 3" ST UP TO RD-1

P19 4" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

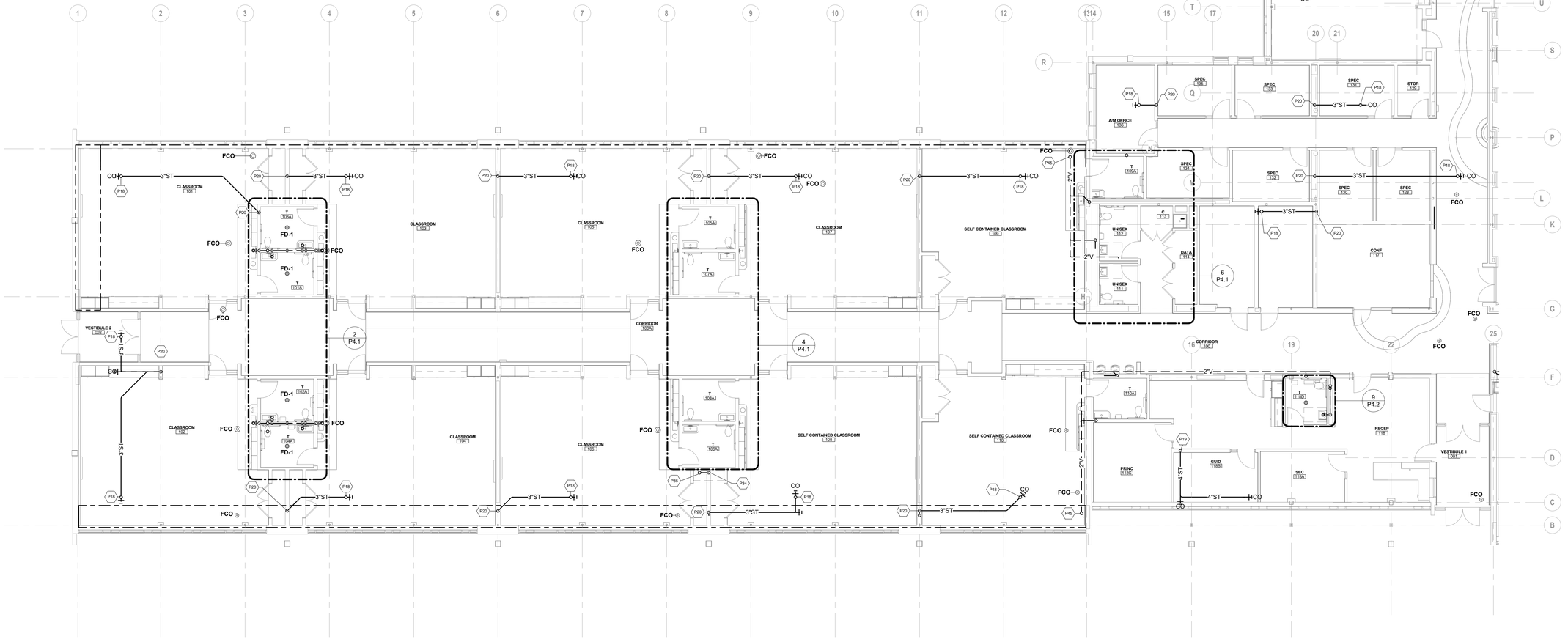
P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P34 APPROXIMATE LOCATION OF RADON COLLECTION PIT. PROVIDE 6" RADON VENT PIPING FROM RADON PIT AND EXTEND THROUGH BUILDING AS SHOWN. RADON PIT BY OTHERS. COORDINATE EXACT PIT LOCATION, SLEEVES, AND FOUNDATION PENETRATIONS WITH STRUCTURAL DRAWINGS.

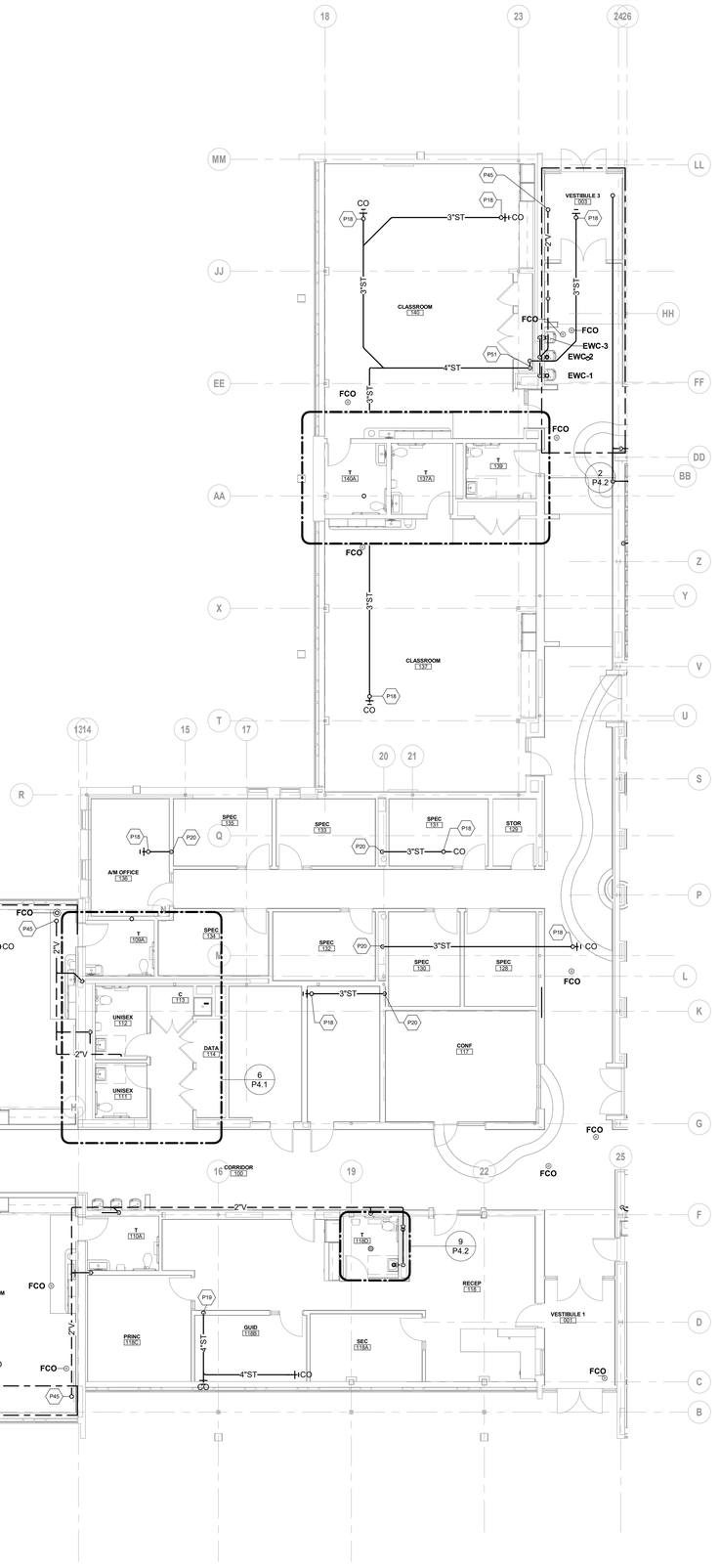
P35 6" RADON VENT PIPING. INSTALL UNDERGROUND RADON COLLECTION PIPING AS SHOWN AND CONNECT TO RISER(S) FOR VENTING THROUGH ROOF. TERMINATE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND LOCATE A MINIMUM OF 25'-0" FROM ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND OTHER BUILDING OPENINGS. COORDINATE INSTALLATION WITH STRUCTURAL, SITE, AND FOUNDATION REQUIREMENTS.

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

P51 4"ST DN



1 FIRST FLOOR DRAINAGE PLAN - AREA A
1/8" = 1'-0"



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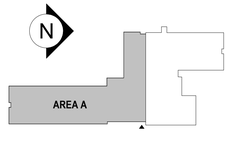
STATE OF CONNECTICUT
KA-21720
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR DRAINAGE PLAN - AREA A

P1.1A

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GENERAL NOTES

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PLUMBING KEYNOTES

P18 3" ST UP TO RD-1

P19 4" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

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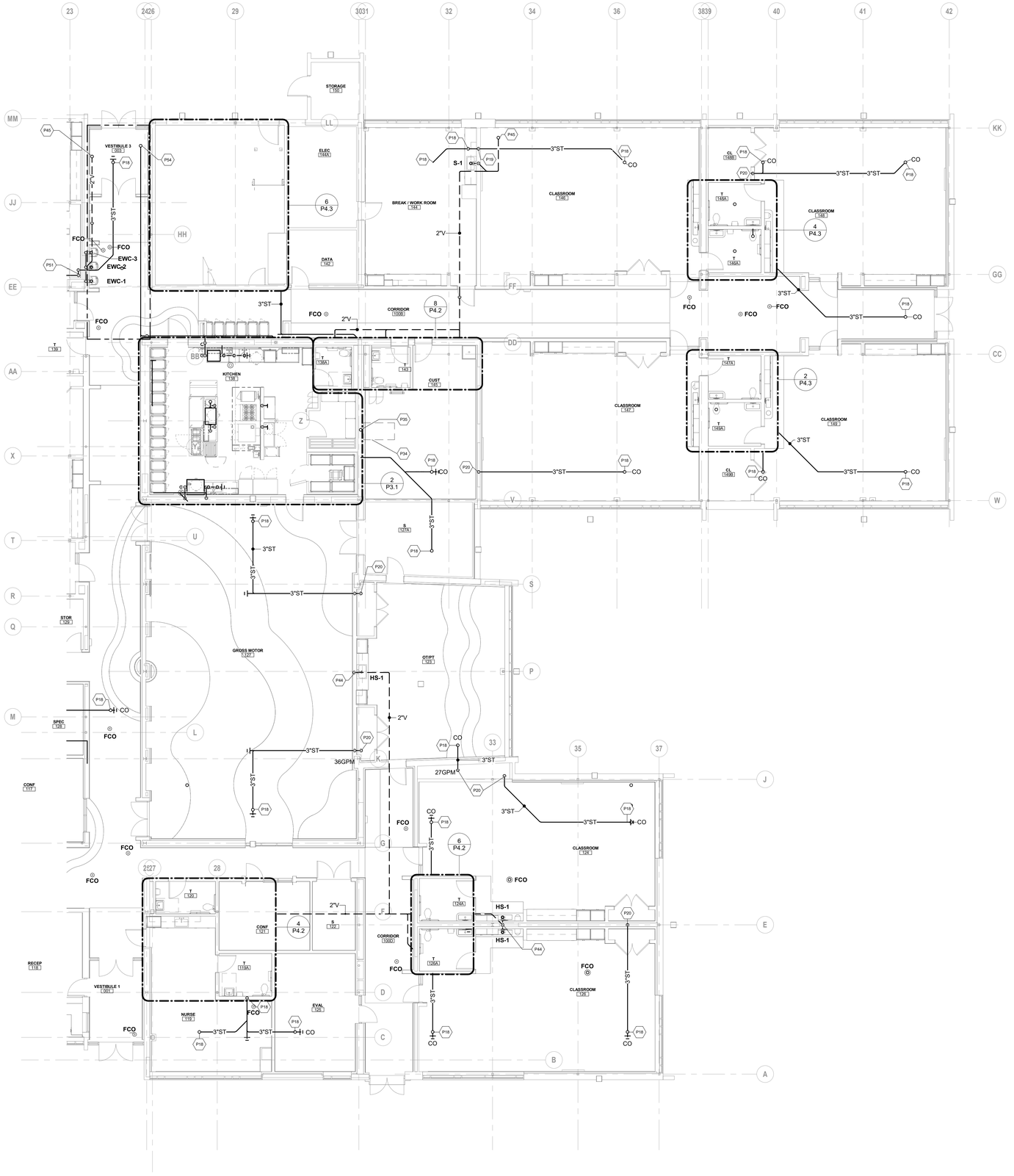
P35 6" RADON VENT PIPING. INSTALL UNDERGROUND RADON COLLECTION PIPING AS SHOWN AND CONNECT TO RISER(S) FOR VENTING THROUGH ROOF. TERMINATE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND LOCATE A MINIMUM OF 25'-0" FROM ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND OTHER BUILDING OPENINGS. COORDINATE INSTALLATION WITH STRUCTURAL, SITE, AND FOUNDATION REQUIREMENTS.

P44 2" W DN & 2" V RISE

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

P51 4"ST DN

P54 4" GV UP TO VTR



1 FIRST FLOOR DRAINAGE PLAN - AREA B
1/8" = 1'-0"

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RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
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Revisions

AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR DRAINAGE PLAN - AREA B

P1.1B

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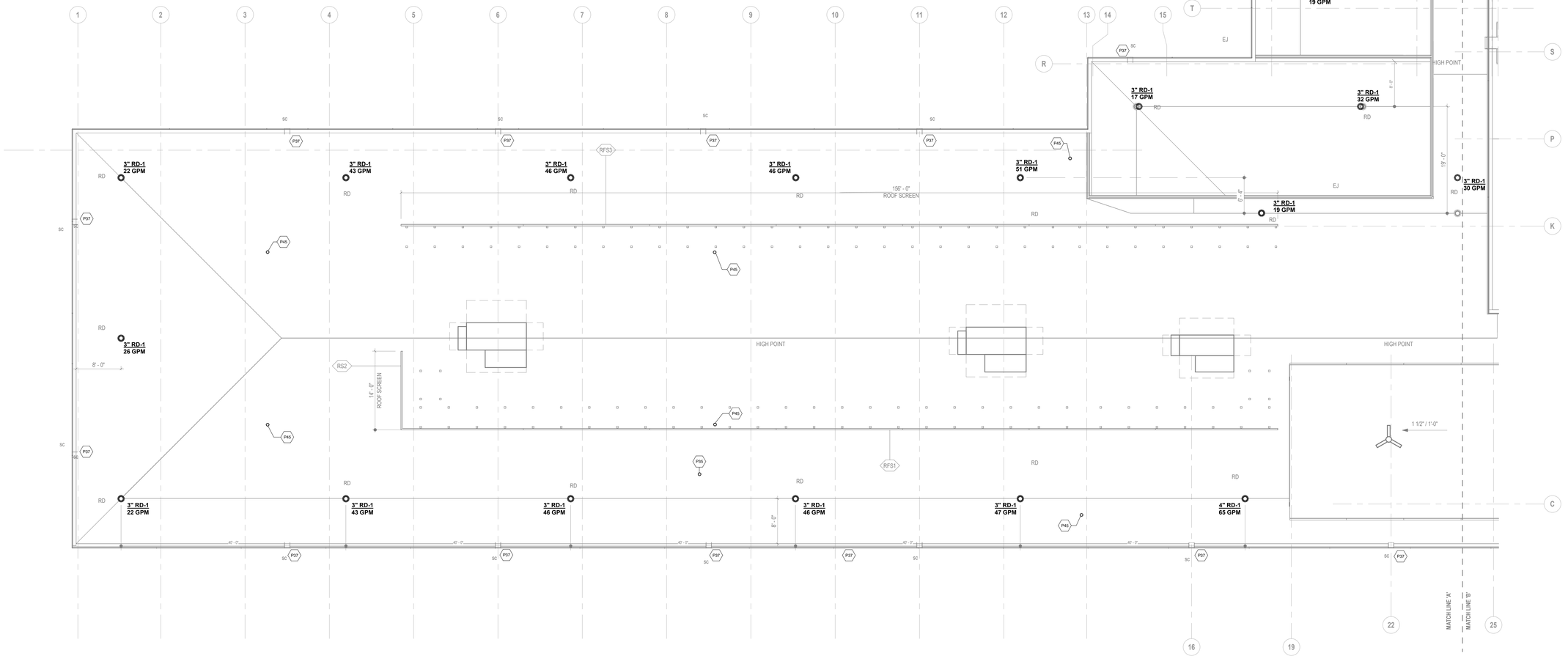
PLUMBING KEYNOTES

P35 6" RADON VENT PIPING. INSTALL UNDERGROUND RADON COLLECTION PIPING AS SHOWN AND CONNECT TO RISER(S) FOR VENTING THROUGH ROOF. TERMINATE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND LOCATE A MINIMUM OF 25'-0" FROM ALL OUTSIDE AIR INTAKES, OPERABLE WINDOWS, DOORS, AND OTHER BUILDING OPENINGS. COORDINATE INSTALLATION WITH STRUCTURAL, SITE, AND FOUNDATION REQUIREMENTS.

P37 SECONDARY ROOF DRAINAGE SHALL BE PROVIDED VIA OVERFLOW SCUPPERS BY ARCHITECTURAL DIVISION. COORDINATE SCUPPER LOCATIONS, ELEVATIONS, AND DISCHARGE REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.



1 PLUMBING ROOF PLAN - AREA A
1/8" = 1'-0"

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STATE OF CONNECTICUT — KA-21720 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING ROOF PLAN - AREA A

P1.2A

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PLUMBING KEYNOTES

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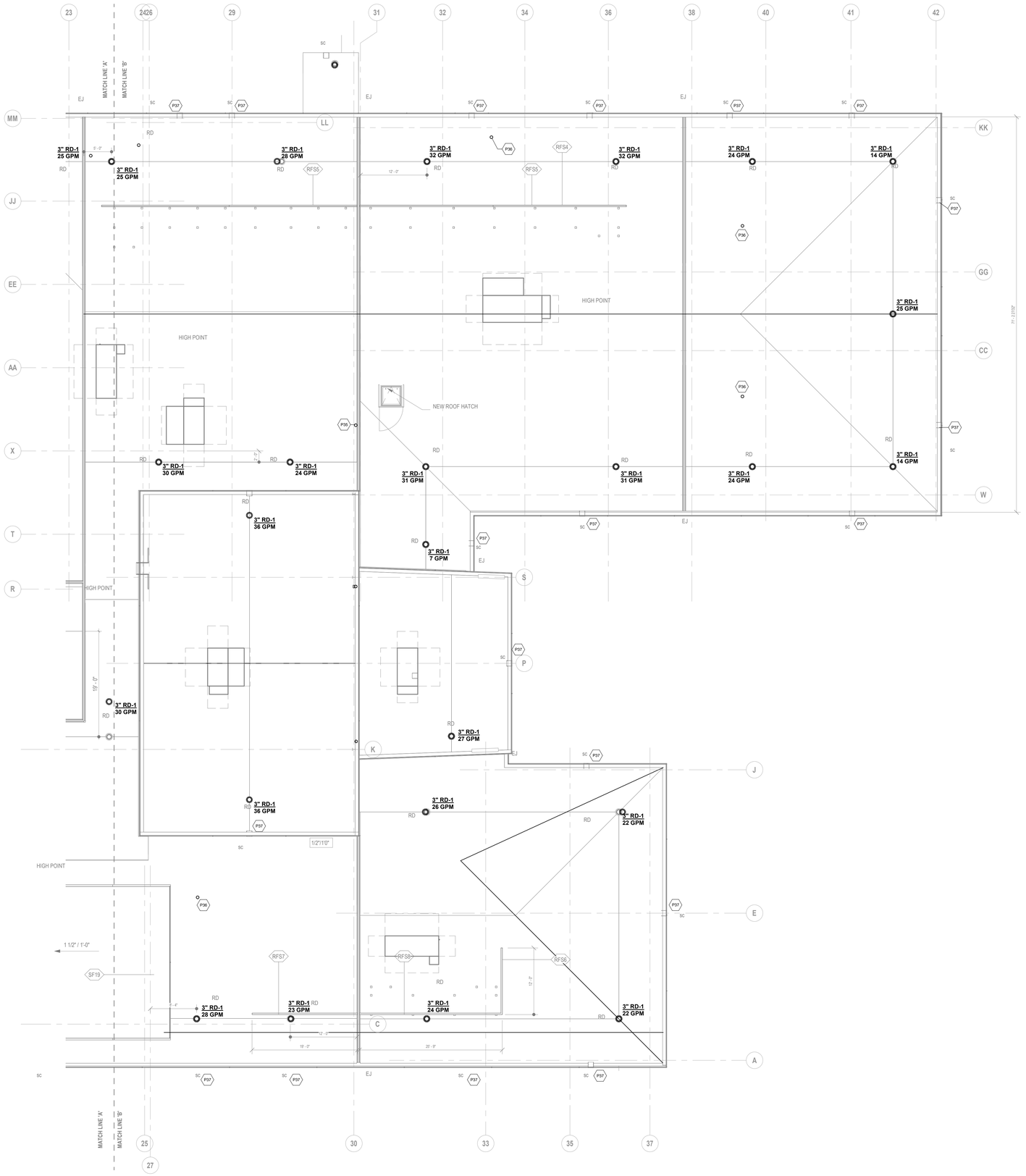
P36 NEW 4" VTR TERMINATE A MINIMUM OF 24" ABOVE ROOF SURFACE OR AS REQUIRED BY CODE. PROVIDE WEATHERPROOF ROOF FLASHING AND COORDINATE FINAL PENETRATION LOCATION WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.

P37 SECONDARY ROOF DRAINAGE SHALL BE PROVIDED VIA OVERFLOW SCUPPERS BY ARCHITECTURAL DIVISION. COORDINATE SCUPPER LOCATIONS, ELEVATIONS, AND DISCHARGE REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.



1 PLUMBING ROOF PLAN - AREA B
1/8" = 1'-0"

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STATE OF CONNECTICUT — RICHARD A. MALIK — 24761 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING ROOF PLAN - AREA B

P1.2B

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GENERAL NOTES

ALL PLUMBING FIXTURES / APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.

ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.

ANY PRODUCT DESIGNED FOR DISPENSING POTABLE WATER MUST BE LEAD FREE AND MEET BOTH NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD-PARTY TESTING AND CERTIFICATION. LEAD FREE REFERS TO THE WETTED SURFACE OF PIPE, FITTINGS, AND FIXTURES IN POTABLE WATER SYSTEMS THAT HAVE A WEIGHTED AVERAGE LEAD CONTENT ≤ 0.25% PER THE SAFE DRINKING WATER ACT (SEC. 1417), AMENDED 1-4-2011, AND OTHER EQUIVALENT STATE REGULATIONS.

INSTALL 1" INSULATION ON ALL 1-1/4" AND SMALLER PIPE REQUIRING INSULATION AND 1-1/2" INSULATION ON ALL 1-1/2" AND LARGER PIPE REQUIRING INSULATION.

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS AS REQUIRED TO MAKE VALVES, TRAP PRIMERS, ETC. READILY ACCESSIBLE. COORDINATE LOCATIONS WITH INSTALLATIONS OF VALVES, WATER HAMMER ARRESTERS, AND TRAP PRIMERS IN FIELD DURING CONSTRUCTION.

PLUMBING CONTRACTOR TO INSTALL WATER HAMMER ARRESTORS ON ALL WATER SUPPLIES SERVING QUICK CLOSING FIXTURES PER PDI-WH 201.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.

PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT, INCLUDING EQUIPMENT SUPPLIED BY OTHERS.

ALL GAS PIPING SHALL BE IDENTIFIED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF IFGC 2022. ALL GAS PIPING EXPOSED TO ELEMENTS SHALL BE PAINTED WITH TWO COATS OF OSHA YELLOW ENAMEL PAINT SUITABLE FOR EXTERIOR USE.

ALL GAS-FIRED EQUIPMENT SHALL BE CONNECTED TO GAS PIPING IN ACCORDANCE WITH IFGC 2022. EACH PIECE OF EQUIPMENT SHALL HAVE A DIRT LEG, UNION, GAS COCK, AND REGULATOR WHERE REQUIRED.

PLUMBING CONTRACTOR TO PROVIDE SEALING AND FIRESTOPPING OF ALL PENETRATIONS THROUGH FIRE-RATED FLOOR/WALL ASSEMBLIES.

PROVIDE AN ASSE 1070 APPROVED TEMPERATURE LIMITING DEVICE ON HAND WASH AND LAVATORY SINKS.

FINAL SELECTION AND FINISH OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT/OWNER.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.

PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS INDICATED.

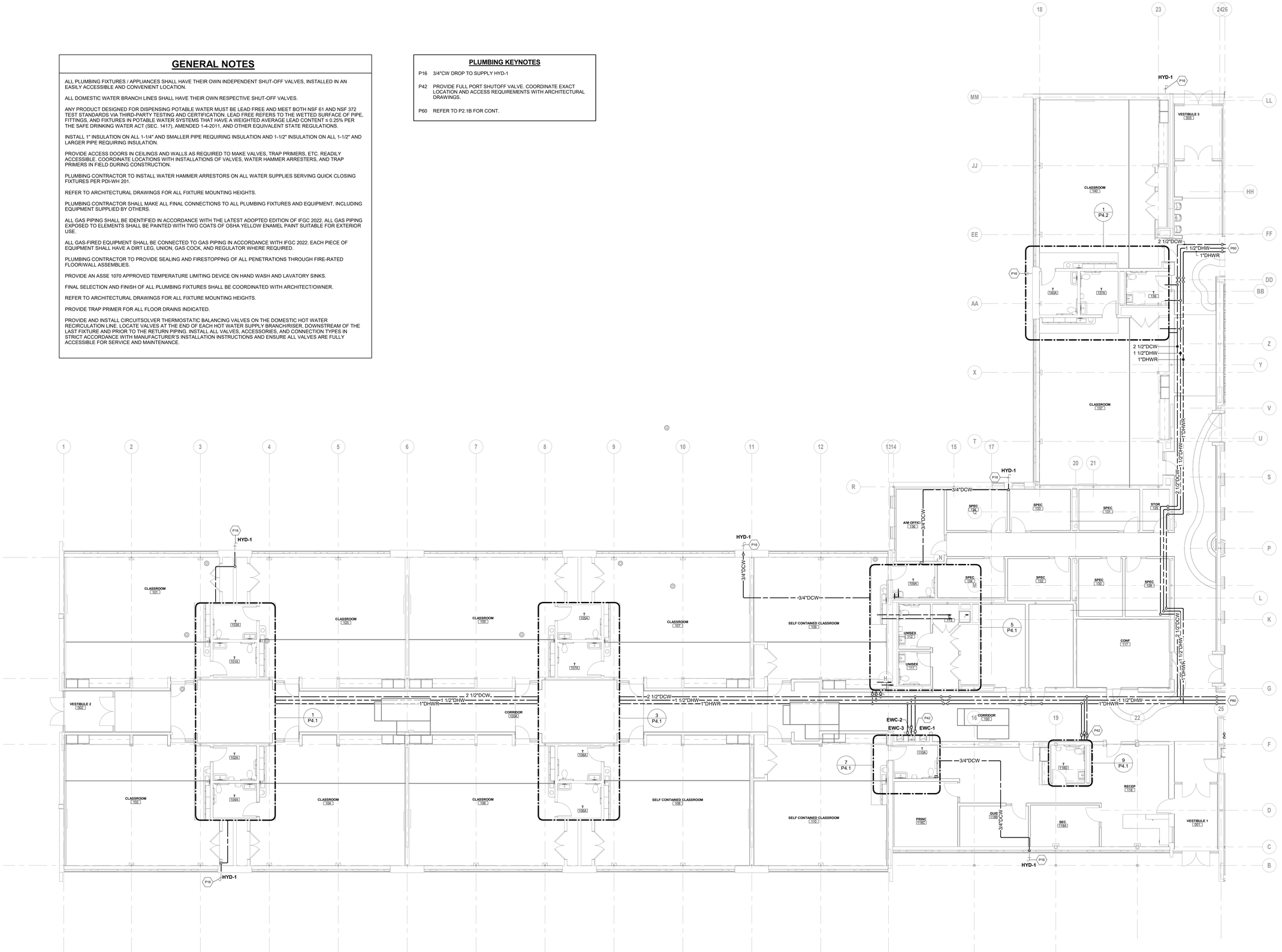
PROVIDE AND INSTALL CIRCUITSOLVER THERMOSTATIC BALANCING VALVES ON THE DOMESTIC HOT WATER RECIRCULATION LINE. LOCATE VALVES AT THE END OF EACH HOT WATER SUPPLY BRANCH/RISER, DOWNSTREAM OF THE LAST FIXTURE AND PRIOR TO THE RETURN PIPING. INSTALL ALL VALVES, ACCESSORIES, AND CONNECTION TYPES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ENSURE ALL VALVES ARE FULLY ACCESSIBLE FOR SERVICE AND MAINTENANCE.

PLUMBING KEYNOTES

P16 3/4"CW DROP TO SUPPLY HYD-1

P42 PROVIDE FULL PORT SHUTOFF VALVE. COORDINATE EXACT LOCATION AND ACCESS REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

P60 REFER TO P2.1B FOR CONT.



1 FIRST FLOOR PLUMBING SUPPLY PLAN - AREA A
1/8" = 1'-0"

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STATE OF CONNECTICUT
JOSEPH R. MALIK
No. 21720
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR PLUMBING SUPPLY PLAN - AREA A

P2.1A

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GENERAL NOTES

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ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.

ANY PRODUCT DESIGNED FOR DISPENSING POTABLE WATER MUST BE LEAD FREE AND MEET BOTH NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD-PARTY TESTING AND CERTIFICATION. LEAD FREE REFERS TO THE WETTED SURFACE OF PIPE, FITTINGS, AND FIXTURES IN POTABLE WATER SYSTEMS THAT HAVE A WEIGHTED AVERAGE LEAD CONTENT ≤ 0.25% PER THE SAFE DRINKING WATER ACT (SEC. 1417), AMENDED 1-4-2011, AND OTHER EQUIVALENT STATE REGULATIONS.

INSTALL 1" INSULATION ON ALL 1-1/4" AND SMALLER PIPE REQUIRING INSULATION AND 1-1/2" INSULATION ON ALL 1-1/2" AND LARGER PIPE REQUIRING INSULATION.

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS AS REQUIRED TO MAKE VALVES, TRAP PRIMERS, ETC. READILY ACCESSIBLE. COORDINATE LOCATIONS WITH INSTALLATIONS OF VALVES, WATER HAMMER ARRESTERS, AND TRAP PRIMERS IN FIELD DURING CONSTRUCTION.

PLUMBING CONTRACTOR TO INSTALL WATER HAMMER ARRESTORS ON ALL WATER SUPPLIES SERVING QUICK CLOSING FIXTURES PER PDI-WH 201.

REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS.

PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING FIXTURES AND EQUIPMENT, INCLUDING EQUIPMENT SUPPLIED BY OTHERS.

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PLUMBING KEYNOTES

P04 NEW 4" DOMESTIC WATER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P05 NEW 6" FIRE SPRINKLER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P06 PROVIDE NEW 3" DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY. INSTALL IN ACCORDANCE WITH THE STATE OF CONNECTICUT CROSS CONNECTION CONTROL MANUAL, DEPARTMENT OF PUBLIC HEALTH – DRINKING WATER DIVISION.

P07 PROVIDE PRESSURE REDUCING VALVE (PRV). OUTLET PRESSURE TO BE SET AT 60 PSI. CONTRACTOR SHALL ADJUST FINAL SETTING IN FIELD AFTER TESTING TO ENSURE PROPER OPERATION OF ALL FLUSH VALVE FIXTURES AND TO MAINTAIN ADEQUATE RESIDUAL PRESSURE UNDER PEAK DEMAND CONDITIONS. PROVIDE PRESSURE GAUGES UPSTREAM AND DOWNSTREAM OF PRV.

P08 (WH-1) PROVIDE NEW 100 GALLON GAS-FIRED WATER HEATER. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES.

P09 (ET-1) NEW EXPANDION TANK. (SEE SCHEDULE SHEET)

P10 (TMV-1) THERMOSTATIC MIXING VALVE (SEE SCHEDULE SHEET)

P11 NEW 2" GAS SERVICE EXTENDED BACK TO MAIN. REFER TO UTILITY AND CIVIL DRAWINGS FOR CONNECTION LOCATION AND COORDINATE WITH UTILITY COMPANY.

P12 1 1/4" GAS DROP TO SERVE (2) BOILERS. SPLIT INTO (2) 1" BRANCH CONNECTIONS TO EACH UNIT. PROVIDE SHUTOFF VALVE AND GAS PRESSURE REGULATOR AT EACH CONNECTION AS REQUIRED.

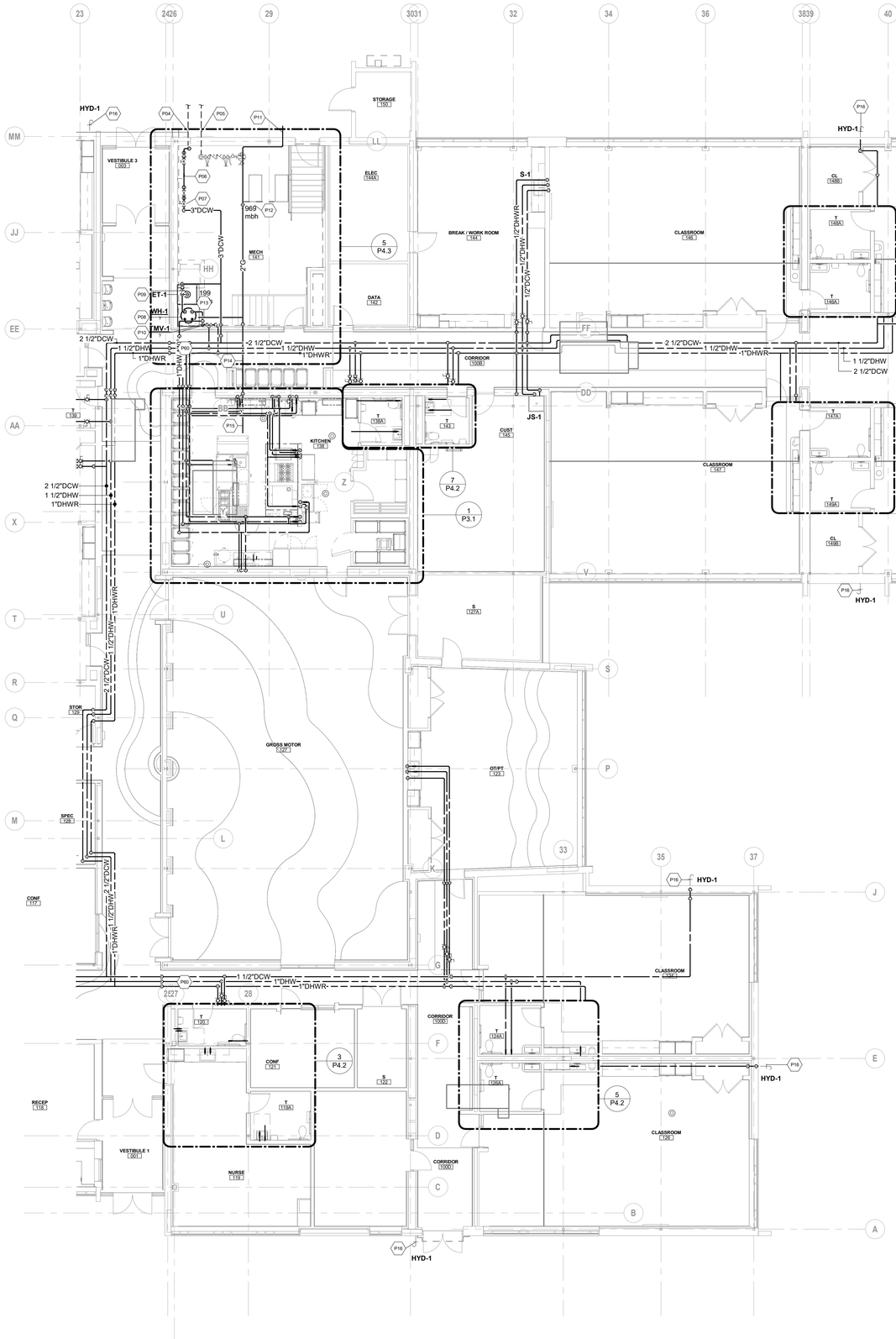
P13 3/4" GAS DROP TO SUPPLY DWH-1. PROVIDE SHUTOFF VALVE, AND LINE PRESSURE REGULATOR AS REQUIRED. COORDINATE FINAL CONNECTION TO WATER HEATER IN FIELD.

P14 MAINTAIN FIRE RATING AT EGRESS CORRIDOR. COORDINATE WITH ARCH.

P15 1"GAS TO SUPPLY KITCHEN

P16 3/4"CW DROP TO SUPPLY HYD-1

P60 REFER TO P2.1B FOR CONT.



1 FIRST FLOOR PLUMBING SUPPLY PLAN - AREA B
1/8" = 1'-0"

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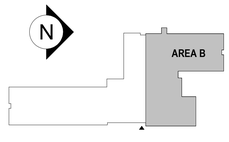
STATE OF CONNECTICUT
KEVIN M. SMITH
PE.-21720
LICENSED
PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR PLUMBING SUPPLY PLAN - AREA B

P2.1B

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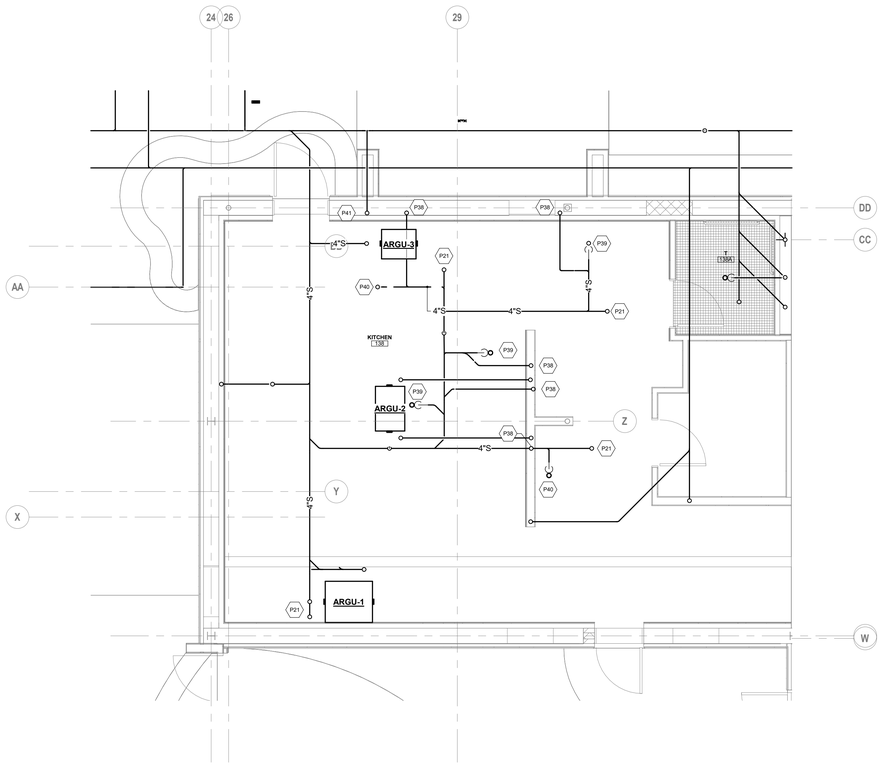


5 PLUMBING UNDERSLAB PART PLAN - AREA A KITCHEN 138
1/4" = 1'-0"

PLUMBING KEYNOTES

P18 3" ST UP TO RD-1

P19 4" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P21 UP TO FCO

P38 2" GV UP

P39 4" W UP TO FS-1

P40 4" W UP TO FD-1

P41 2" W UP TO ITEM #16

P43 2" GV DN

P44 2" W DN & 2" V RISE

P61 AGRU-1: PROVIDE 30 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

P62 AGRU-2: PROVIDE 5 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

P63 AGRU-3: PROVIDE 40 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

SCHEDULE OF FOODSERVICE EQUIPMENT & CONNECTIONS

ITEM	QTY	DESCRIPTION	PLUMBING	EQUIPMENT REMARKS
1	1	MOP SINK CABINET	1/2" H&CW, DRAIN IN FLOOR	REQUIRES WALL BLOCKING BY GC (SEE SPECIAL CONDITIONS PLANS)
7	1	COOLER EVAPORATOR COIL	3/4" IW TO FD	REMOTE REFRIGERATION FROM ITEM 8 BY KEC
16	2	HAND SINK CABINET	1/2" H&CW; 1-1/2" W	REQUIRES WALL BLOCKING BY GC (SEE SPECIAL CONDITIONS PLANS)
19	1	PREP TABLE WITH SINKS	1/2" H&CW; 2" IW TO FS	
26	1	COUNTERTOP SIX PAN STEAMER	1/2" G @ 32MBTU (2) 3/4" CW; 1-1/2 IW TO FS	
27	1	WATER FILTER ASSEMBLY	3/4" CW	REQUIRES WALL BLOCKING BY GC (SEE SPECIAL CONDITIONS PLANS)
28	1	EXISTING SIX-BURNER RANGE	3/4" G @ 230 MBTU; QD	
29	1	DOUBLE CONVECTION OVEN	3/4" G @ 230 MBTU; QD	
37	1	COOK'S TABLE WITH SINK	1/2" H&CW, 2" IWTO FS	
39	1	WATER FILTER ASSEMBLY, WAREWASHER	3/4" HW	REQUIRES WALL BLOCKING BY GC (SEE SPECIAL CONDITIONS PLANS)
44	1	THREE COMPARTMENT SINK	(2) 3/4" 120°F H&CW (3) 2" W MANIFOLD THRU GI BY PC	
46	1	PRE-RINSE ASSEMBLY WITH ADD-ON FAUCET	3/4" H&CW	REQUIRES WALL BLOCKING BY GC (SEE SPECIAL CONDITIONS PLANS)
47	1	VENTLESS WAREWASHER	1/2" H&CW; 3/4" IW TO FS	6,800 BTU/HR LATENT HEAT; 5,000 BTU/HR SENSIBLE HEAT

NOTES:

1) UTILITIES SHOWN IN THESE SCHEDULES ARE SPECIFIC TO THE PRIME MANUFACTURER LISTED IN THE WRITTEN SPECIFICATION SECTION 114000. IF EQUIPMENT FROM AN ALTERNATE MANUFACTURER IS PROVIDED, IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE AND SUBMIT TO THE PROJECT DESIGN TEAM FOR REVIEW.

2) UTILITIES LISTED ON THIS SCHEDULE FOR OWNER FURNISHED OR VENDOR SUPPLIED EQUIPMENT ARE ESTIMATES ASSUMED FOR ENGINEERING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE EQUIPMENT CUT SHEETS OF THIS EQUIPMENT TO CRABTREE-MCGRATH ASSOCIATES PRIOR TO CONSTRUCTION.

3) INSTALLING SUB-CONTRACTORS MUST NOTIFY CRABTREE-MCGRATH ASSOCIATES IF A UTILITY REQUIREMENT LISTED ON THIS EQUIPMENT SCHEDULE IS NOT AVAILABLE.

4) REFER TO THE ABBREVIATIONS NOTES PROVIDED ON THIS SHEET FOR CLARIFICATION OF ABBREVIATIONS USED WITHIN THIS EQUIPMENT SCHEDULE.

Point-of-Use AGRU Sizing Calculation

Assumptions		
Fill Factor	0.75	
Drain Time	2	min
Retention Factor	2	

Fixture	Compartments	Length (in)	Width (in)	Depth (in)	Total Volume (gal)	Working Volume (gal)	Required Flow (GPM)	AGRU Size
#19 PREP TABLE WITH SINKS	2	18	18	12	33.66	25.25	25.25	30 GPM minimum
# 37 COOK'S TABLE WITH SINK	1	12	12	8	4.99	3.74	3.74	5 GPM minimum
#44 THREE COMPARTMENT SINK	3	18	18	12	50.49	37.87	37.87	40 GPM minimum

PLAN NOTES

1) IT IS THE RESPONSIBILITY OF THE KITCHEN EQUIPMENT CONTRACTOR TO FIELD VERIFY THE DELIVERY PATH OF ALL EQUIPMENT WITHIN THEIR SCOPE WITH BUILDING CONDITIONS PRIOR TO ORDERING TO CONFIRM ALL EQUIPMENT FITS WITHIN THE DESIGNATED SPACE AS LOCATED ON PLANS.

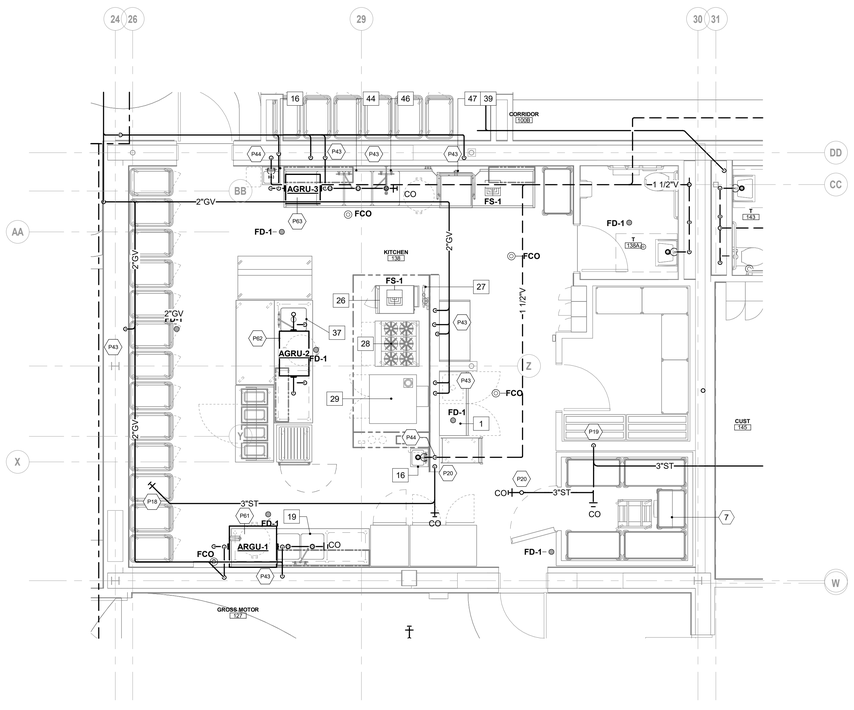
2) KITCHEN EQUIPMENT CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AS NECESSARY FOR OPENINGS IN BUILDING, WALL LEAVE OUTS, DOOR WIDTHS AND HEADER HEIGHTS REQUIRED FOR DELIVERY AND INSTALLATION MEANS.

3) FINISHES TO ALL WALLS, FLOORS AND CEILINGS ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR AS SPECIFIED BY THE PROJECT ARCHITECT TO MEET THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT.

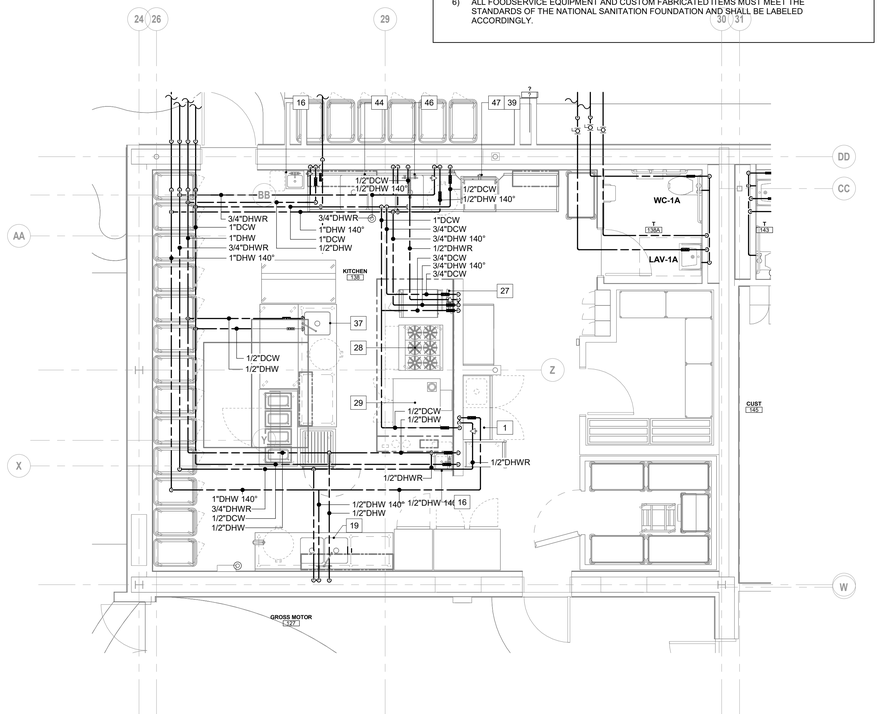
4) REVISIONS TO THESE PLANS DUE TO FIELD CONDITIONS MUST BE SUBMITTED TO THE PROJECT DESIGN TEAM FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.

5) FLOORING MATERIAL SPECIFIED BY THE ARCHITECT MUST BE PROVIDED WITH A COVED BASE AT ALL WALLS TO INCLUDE THE INTERIOR AND EXTERIOR OF WALK-IN REFRIGERATED ROOMS.

6) ALL FOODSERVICE EQUIPMENT AND CUSTOM FABRICATED ITEMS MUST MEET THE STANDARDS OF THE NATIONAL SANITATION FOUNDATION AND SHALL BE LABELED ACCORDINGLY.



2 FIRST FLOOR DRAINAGE PART PLAN - AREA B KITCHEN 138
1/4" = 1'-0"



1 FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B KITCHEN 138
1/4" = 1'-0"

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STATE OF CONNECTICUT * KEVIN J. SMITH * 30-21720 LICENSED PROFESSIONAL ENGINEER

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State Project #: 017-0090 RNV
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Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING KITCHEN PART PLANS

P3.1

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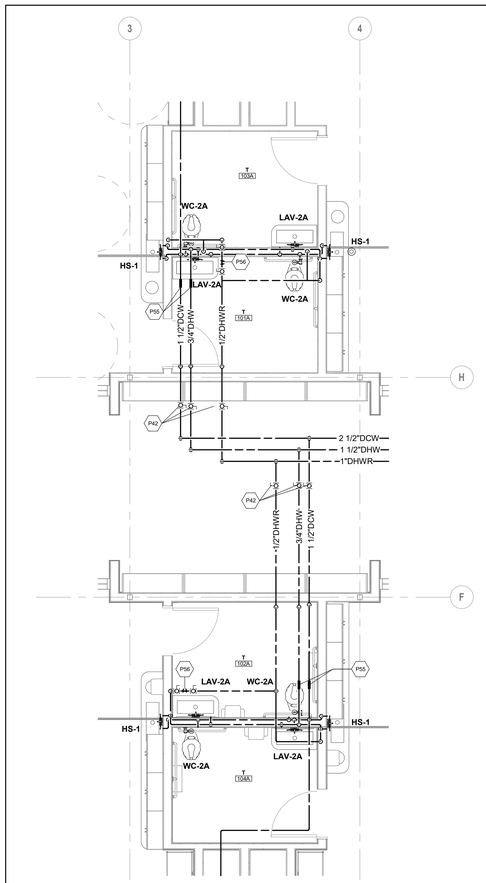
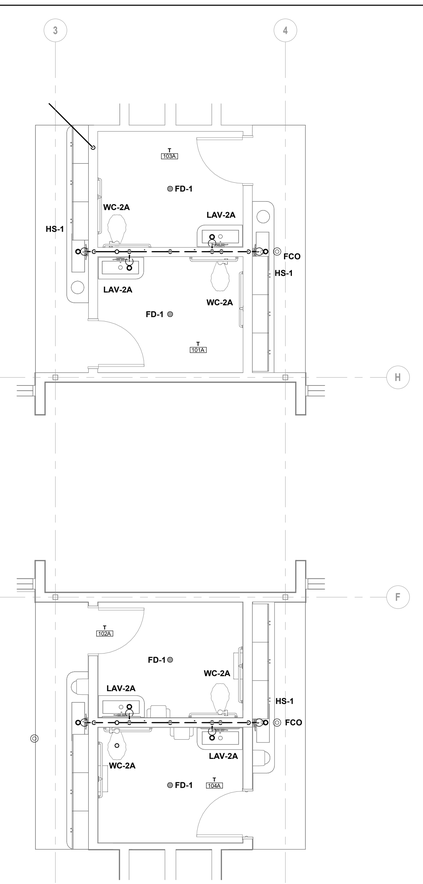


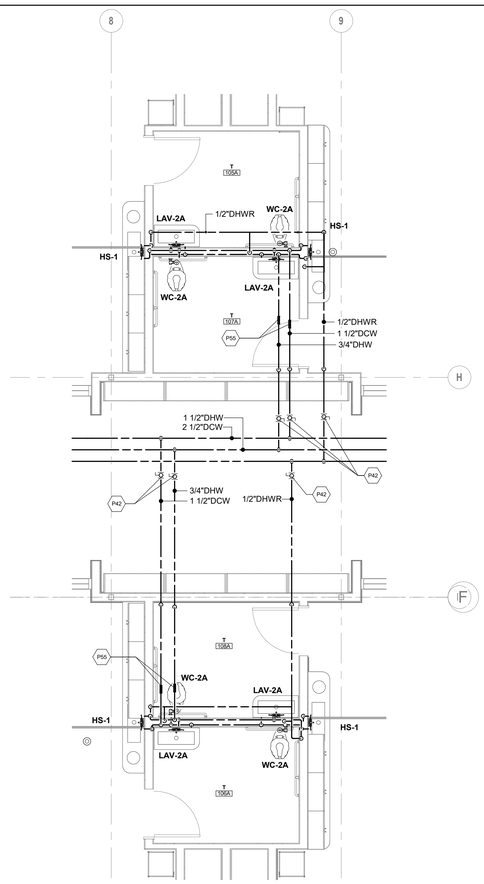
FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 102A, T 104A

1/4" = 1'-0"



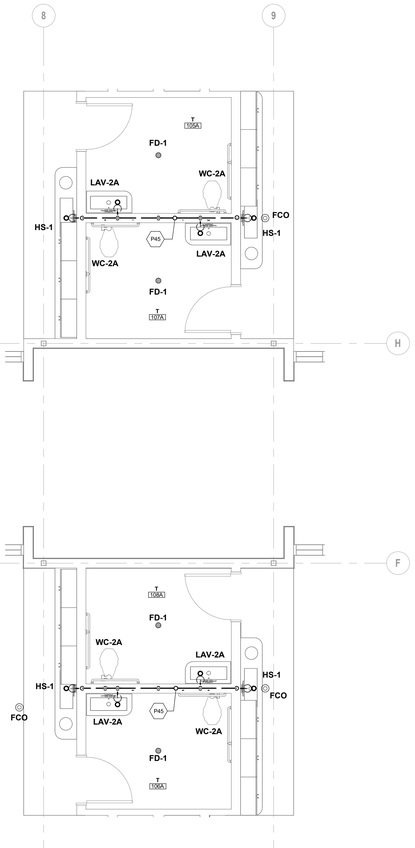
FIRST FLOOR DRAINAGE PRT PLAN - AREA A T 102A, T 104A

1/4" = 1'-0"



FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 105A, T 107A, T 108A, T 106 A

1/4" = 1'-0"



FIRST FLOOR DRAINAGE PART PLAN - AREA A T 105A, T 107A, T 108A, T 106 A

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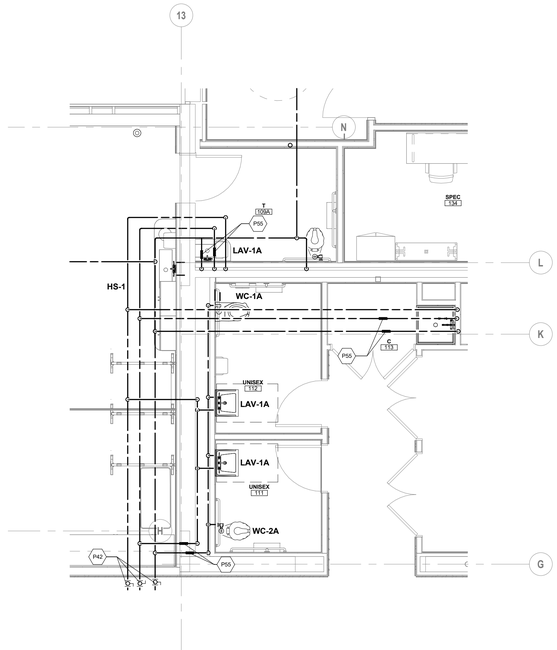
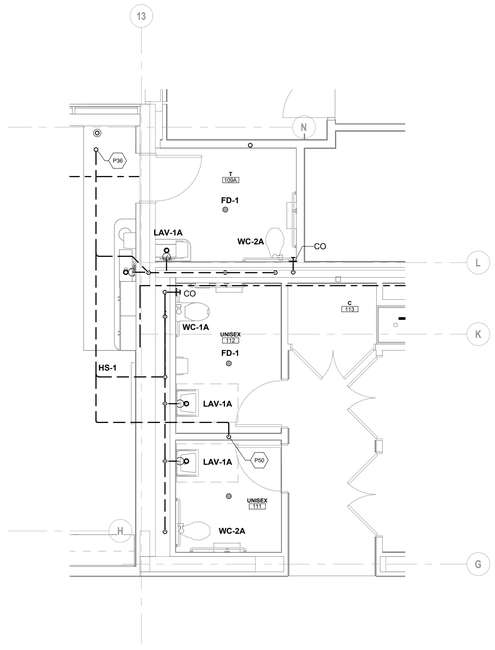


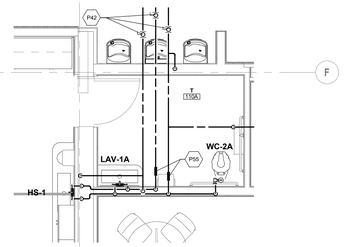
FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 109A, T 110A, UNISEX 111,112, C 113 (3/P4.1)

1/4" = 1'-0"



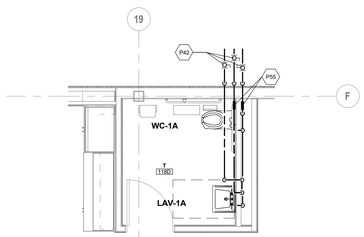
FIRST FLOOR DRAINAGE PART PLAN - AREA A T 109A, UNISEX 111,112, C 113

1/4" = 1'-0"



FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 110A

1/4" = 1'-0"



FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 117D

1/4" = 1'-0"

PLUMBING KEYNOTES

P36 NEW 4" VTR TERMINATE A MINIMUM OF 24" ABOVE ROOF SURFACE OR AS REQUIRED BY CODE. PROVIDE WEATHERPROOF ROOF FLASHING AND COORDINATE FINAL PENETRATION LOCATION WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.

P42 PROVIDE FULL PORT SHUTOFF VALVE. COORDINATE EXACT LOCATION AND ACCESS REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

P50 2"V DN

P55 PROVIDE WATER HAMMER ARRESTORS PER PDI WH-201. INSTALL ABOVE ACCESSIBLE CEILINGS AS CLOSE AS PRACTICAL TO FIXTURES SERVED. SIZE PER PDI WH-201. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND REPLACEMENT.

P56 PROVIDE CIRCUITSOLVER THERMOSTATIC BALANCING VALVE AT END OF EACH DHW BRANCH. INSTALL PER MANUFACTURER'S REQUIREMENTS WITH ISOLATION VALVES, UNION, AND ACCESS FOR MAINTENANCE. INSTALL IN CORRECT FLOW DIRECTION AND COORDINATE LOCATION WITH OTHER TRADES.

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING ENLARGED PLANS

P4.1

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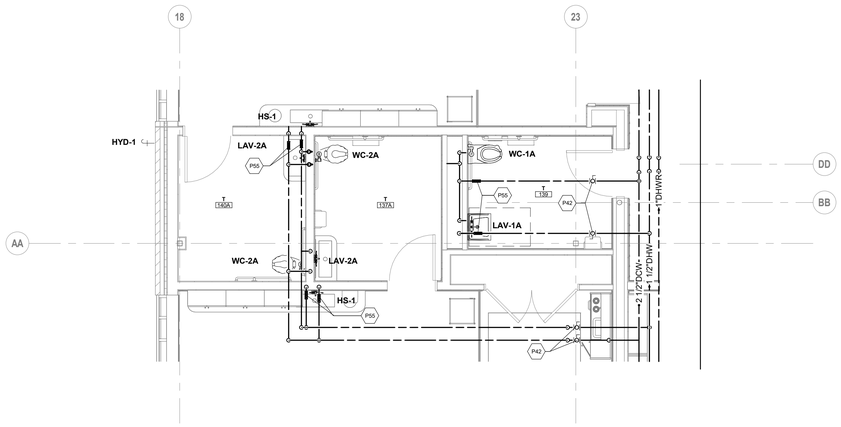
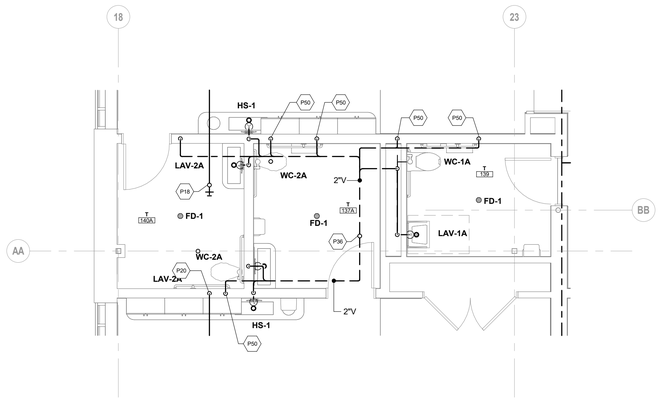


1 FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA A T 139, T 137A, T 140A
1/4" = 1'-0"



2 FIRST FLOOR DRAINAGE PART PLAN - AREA A T 139, T 137A, T 140A
1/4" = 1'-0"

PLUMBING KEYNOTES

P04 NEW 4" DOMESTIC WATER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P18 3" ST UP TO RD-1

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P36 NEW 4" VTR.TERMINATE A MINIMUM OF 24" ABOVE ROOF SURFACE OR AS REQUIRED BY CODE. PROVIDE WEATHERPROOF ROOF FLASHING AND COORDINATE FINAL PENETRATION LOCATION WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.

P42 PROVIDE FULL PORT SHUTOFF VALVE. COORDINATE EXACT LOCATION AND ACCESS REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

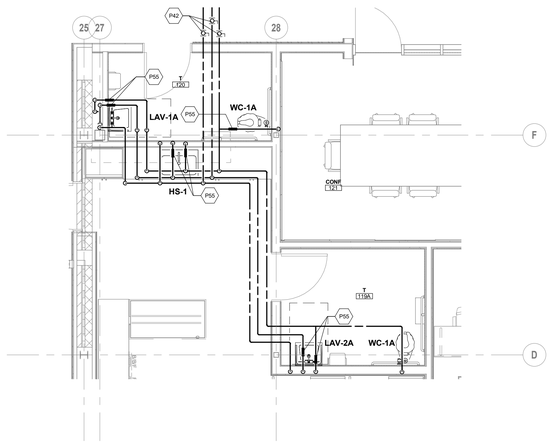
P44 2" W DN & 2" V RISE

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

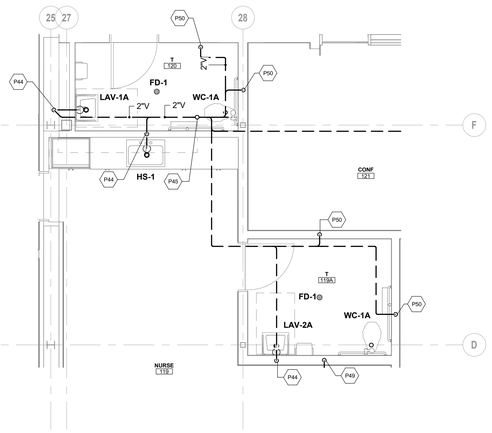
P49 3" ST DN

P50 2"V DN

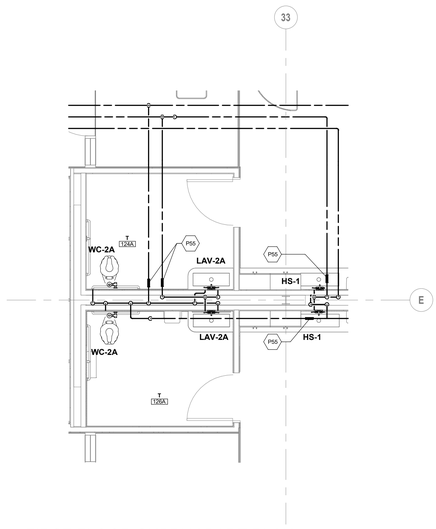
P55 PROVIDE WATER HAMMER ARRESTORS PER PDI WH-201. INSTALL ABOVE ACCESSIBLE CEILINGS AS CLOSE AS PRACTICAL TO FIXTURES SERVED. SIZE PER PDI WH-201. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND REPLACEMENT.



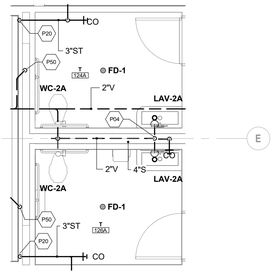
3 FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B T 118A, T 119
1/4" = 1'-0"



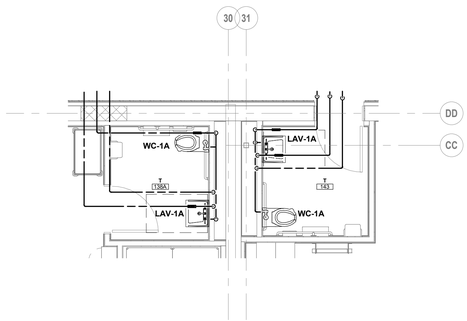
4 FIRST FLOOR DRAINAGE PART PLAN - AREA B T 118A, T 119
1/4" = 1'-0"



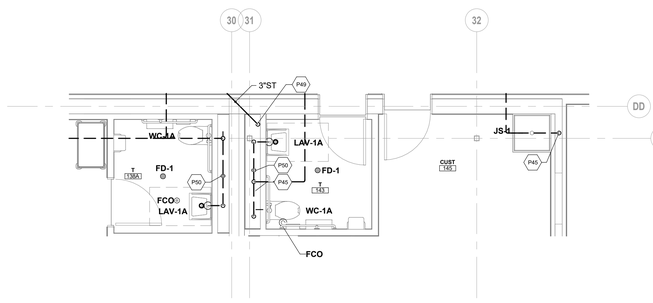
5 FIRST FLOOR SUPPLY PART PLAN - AREA B T 118A, T 123A, T 125A
1/4" = 1'-0"



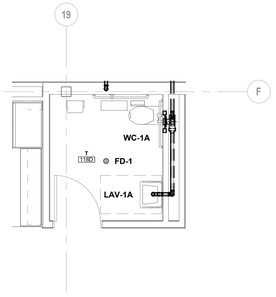
6 FIRST FLOOR DRAINAGE PART PLAN - AREA B T 118A, T 123A, T 125A
1/4" = 1'-0"



7 FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B T 138A, T 143
1/4" = 1'-0"



8 FIRST FLOOR DRAINAGE PART PLAN - AREA B T 138A, T 143, CUST 145
1/4" = 1'-0"



9 FIRST FLOOR DRAINAGE PART PLAN - AREA A T118 D
1/4" = 1'-0"

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STATE OF CONNECTICUT
PRELIMINARY
NOT FOR CONSTRUCTION
NO. 41720
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
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345 MIX STREET
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State Project #: 017-0090 RNV
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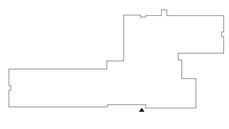
Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING ENLARGED PLANS

P4.2

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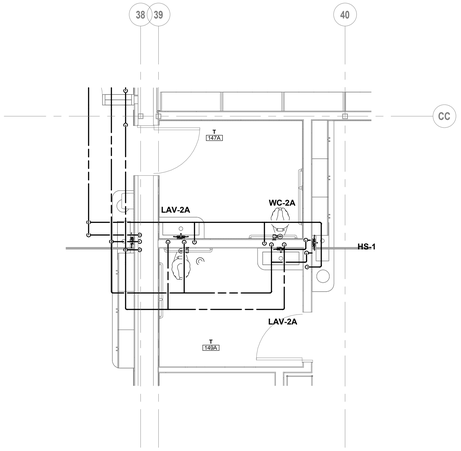
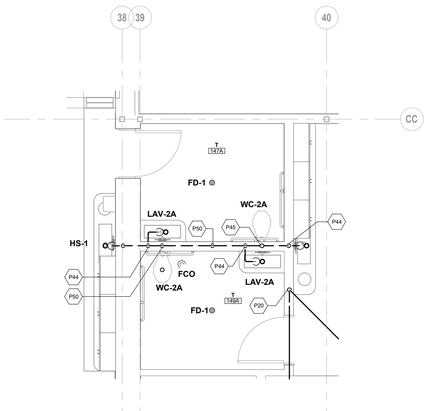
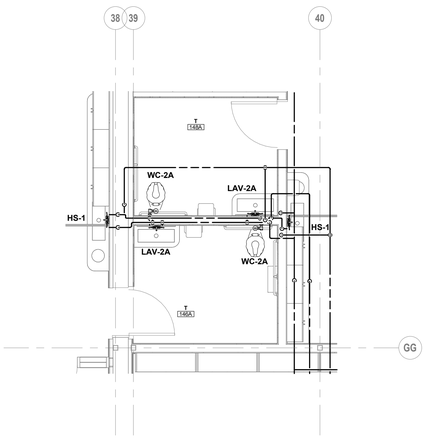


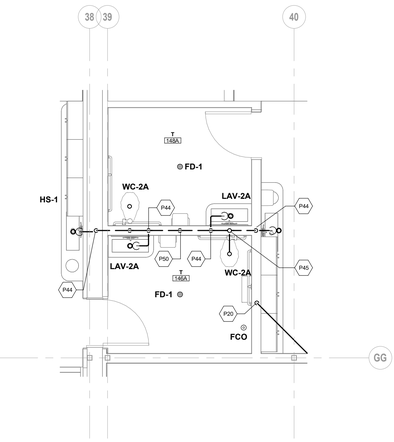
FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B T 147A, T 149A
1/4" = 1'-0"



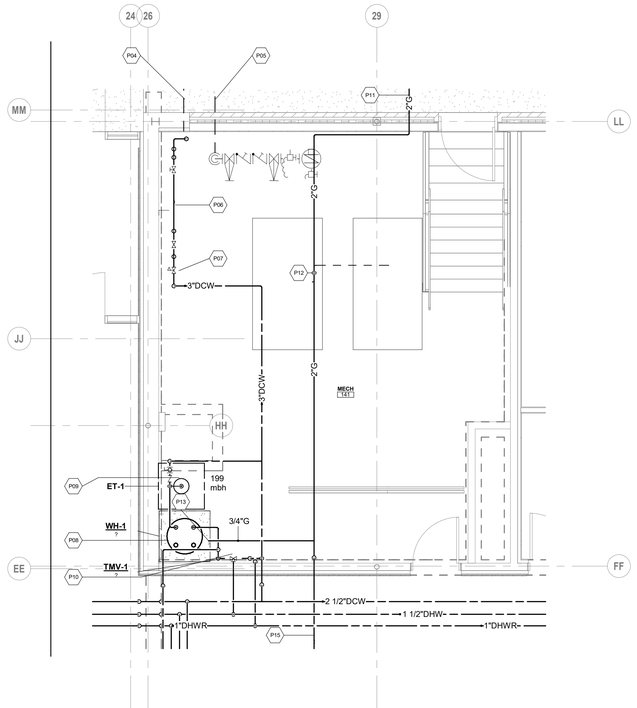
FIRST FLOOR DRAINAGE PART PLAN - AREA B T 147A, T 149A
1/4" = 1'-0"



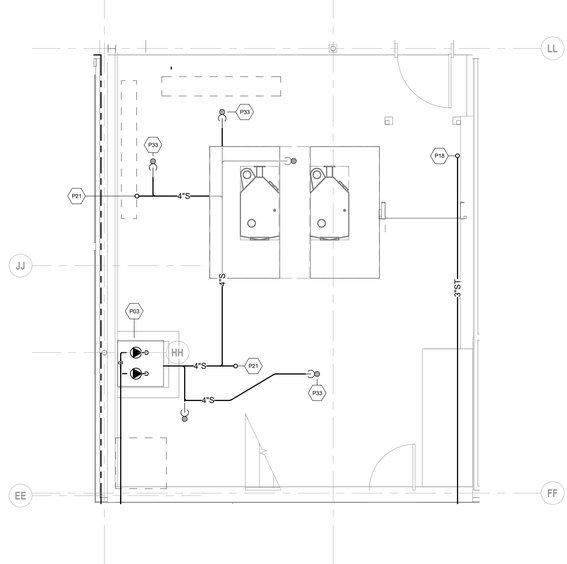
FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B T 148A, T 146A
1/4" = 1'-0"



FIRST FLOOR DRAINAGE PART PLAN - AREA B T 148A, T 147A
1/4" = 1'-0"



FIRST FLOOR PLUMBING SUPPLY PART PLAN - AREA B BOILER ROOM
1/4" = 1'-0"



FIRST FLOOR DRAINAGE PART PLAN - BOILER ROOM
1/4" = 1'-0"

PLUMBING KEYNOTES

P03 NEW CONCRETE PIT FOR DUPLEX SEWAGE EJECTOR SYSTEM (SP-1 & SP-2). PROVIDE (2) 2" DISCHARGE RISERS & 2" VENT. INSTALL CHECK VALVE AND ISOLATION VALVE ON EACH DISCHARGE LINE. COORDINATE POWER AND CONTROLS WITH ELECTRICAL. REFER TO SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS. PIT CONSTRUCTION BY STRUCTURAL.

P04 NEW 4" DOMESTIC WATER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P05 NEW 6" FIRE SPRINKLER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P06 PROVIDE NEW 3" DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY. INSTALL IN ACCORDANCE WITH THE STATE OF CONNECTICUT CROSS CONNECTION CONTROL MANUAL, DEPARTMENT OF PUBLIC HEALTH – DRINKING WATER DIVISION.

P07 PROVIDE PRESSURE REDUCING VALVE (PRV). OUTLET PRESSURE TO BE SET AT 60 PSI. CONTRACTOR SHALL ADJUST FINAL SETTING IN FIELD AFTER TESTING TO ENSURE PROPER OPERATION OF ALL FLUSH VALVE FIXTURES AND TO MAINTAIN ADEQUATE RESIDUAL PRESSURE UNDER PEAK DEMAND CONDITIONS. PROVIDE PRESSURE GAUGES UPSTREAM AND DOWNSTREAM OF PRV.

P08 (WH-1) PROVIDE NEW 100 GALLON GAS-FIRED WATER HEATER. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES.

P09 (ET-1) NEW EXPANDION TANK. (SEE SCHEDULE SHEET)

P10 (TMV-1) THERMOSTATIC MIXING VALVE (SEE SCHEDULE SHEET)

P11 NEW 2" GAS SERVICE EXTENDED BACK TO MAIN. REFER TO UTILITY AND CIVIL DRAWINGS FOR CONNECTION LOCATION AND COORDINATE WITH UTILITY COMPANY.

P12 1 1/4" GAS DROP TO SERVE (2) BOILERS. SPLIT INTO (2) 1" BRANCH CONNECTIONS TO EACH UNIT. PROVIDE SHUTOFF VALVE AND GAS PRESSURE REGULATOR AT EACH CONNECTION AS REQUIRED.

P13 3/4" GAS DROP TO SUPPLY DWH-1. PROVIDE SHUTOFF VALVE, AND LINE PRESSURE REGULATOR AS REQUIRED. COORDINATE FINAL CONNECTION TO WATER HEATER IN FIELD.

P15 1"GAS TO SUPPLY KITCHEN

P18 3" ST UP TO RD-1

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P21 UP TO FCO

P33 4" UP TO FD-2

P44 2" W DN & 2" V RISE

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

P50 2"V DN

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RICHARD A. MALIK
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LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
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PLUMBING
ENLARGED PLANS

P4.3

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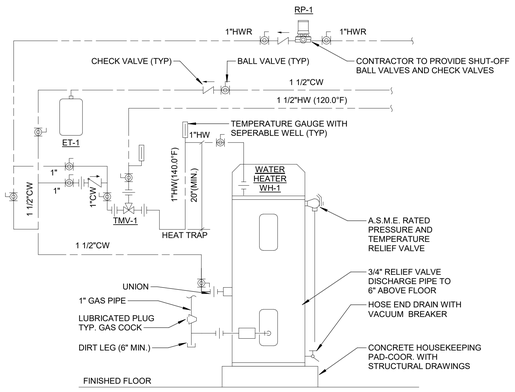
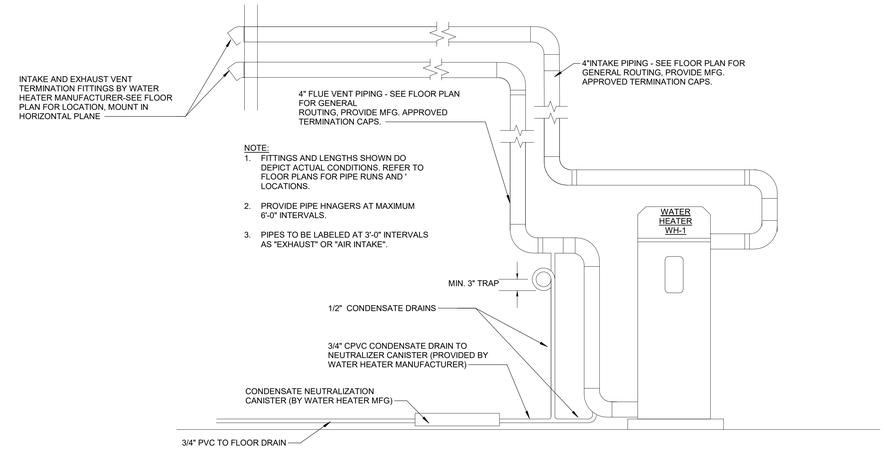
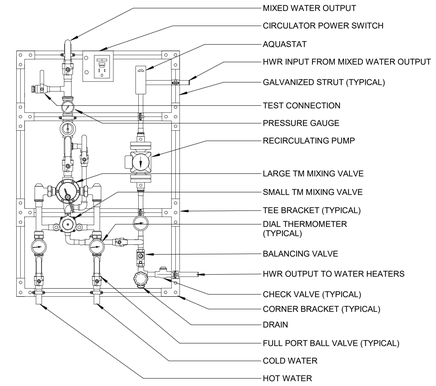


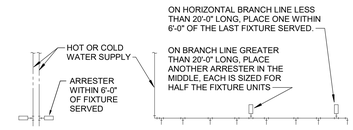
6 GAS WATER HEATER PIPING DETAIL - WH-1
NOT TO SCALE



3 GAS WATER HEATER VENTING DETAIL - TYPICAL WH-1
NOT TO SCALE



2 PACKAGED THERMOSTATIC MIXING STATION
NOT TO SCALE

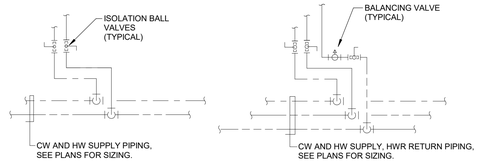


PDI SIZE	FIXTURE UNIT LOAD
AA	1-3
A	4-11
B	12-32
C	33-60
D	61-113
E	114-154
F	155-330

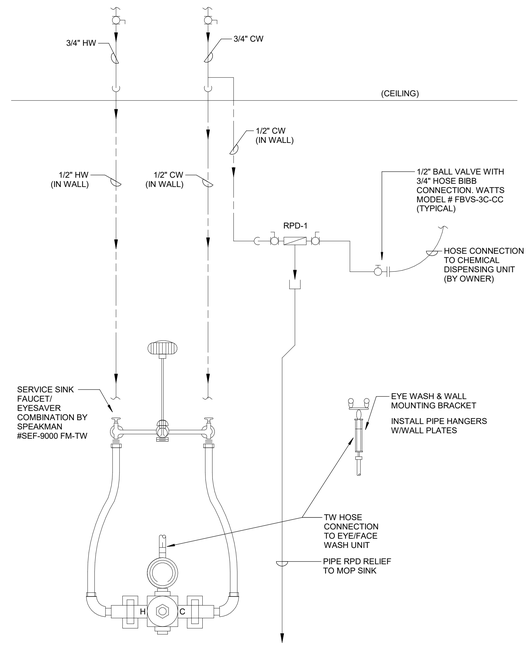
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	-
TANK WATER CLOSET	5	-
URINAL	5	-
LAVATORY	1.5	1.5
SINK	2	2
MOP BASIN	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	0.5	-

PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. TABLES ABOVE ARE BASED ON SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSIG THEN UPSIZE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER.)

5 WATER HAMMER ARRESTORS
NOT TO SCALE



4 TYPICAL BRANCH PIPING DETAIL
NOT TO SCALE



1 JANITOR CLOSET-TYPICAL PIPING DETAIL
NOT TO SCALE

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State Project #: 017-0090 RNV
Project #:25064

Revisions

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P5.1

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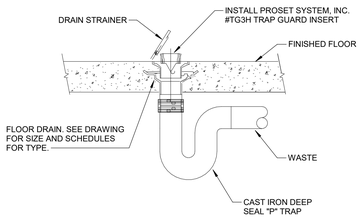
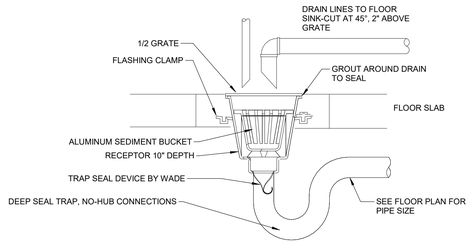
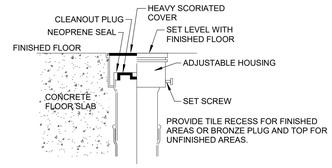


1 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL
NOT TO SCALE



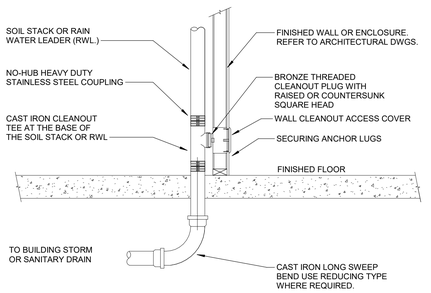
2 FLOOR SINK (FS-1) HALF GRATE DETAIL
NOT TO SCALE



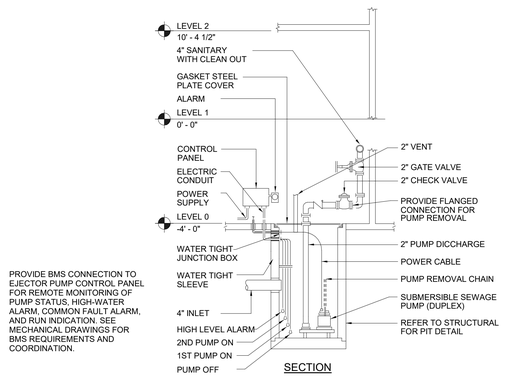
3 INTERIOR FLOOR CLEANOUT DETAIL
NOT TO SCALE

GREASE WASTE HEAT TRACE SCHEDULE

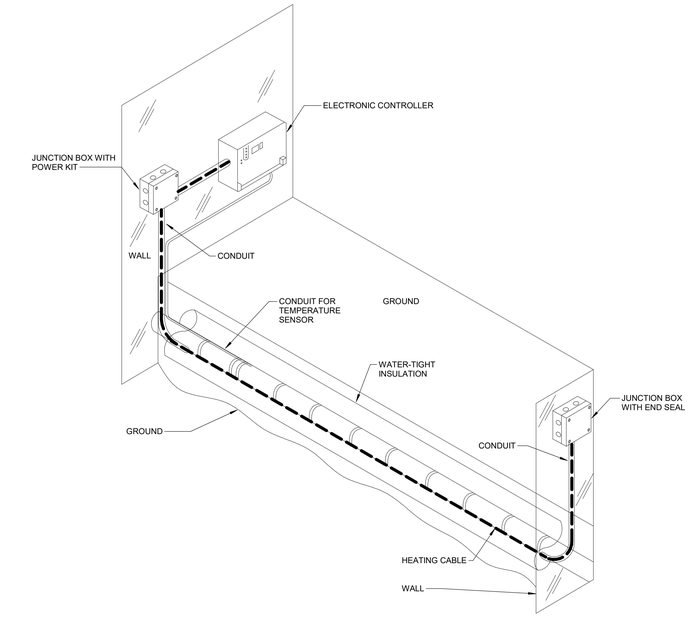
MANUFACTURER	MODEL #	LOCATION	WATTS PER FOOT	OPERATING TEMP.	CIRCUIT BREAKER (A)	MAX. CT. LENGTH	NOTES
RAYCHEM XL-TRACE	12XLE2-CT 208-277V	**********	12	110 F	30	340	CONTROLLER LOCATED IN *********



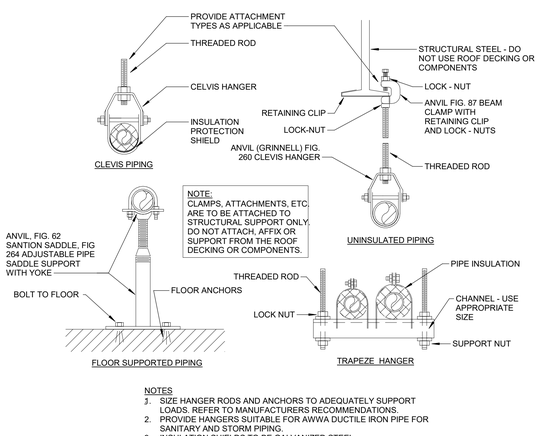
4 TYPICAL CLEAN OUT DETAIL AT BASE OF SOIL STACK OR RWL
NOT TO SCALE



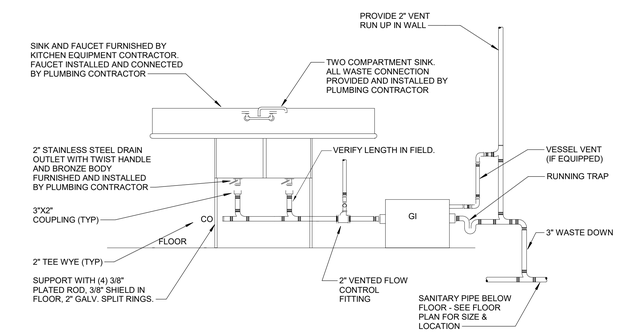
5 DUPLEX SEWAGE PUMP
NOT TO SCALE



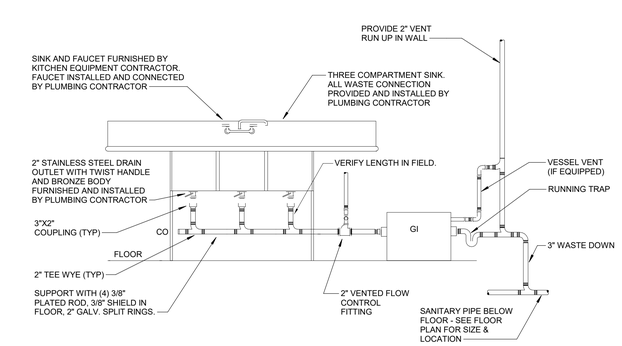
7 GREASE WASTE HEAT CABLE DETAIL - BELOW SLAB
NOT TO SCALE



8 TYPICAL PIPE HANGER AND SUPPORT DETAIL
NOT TO SCALE



6 2 BAY SINK AND GREASE TRAP DETAIL
NTS



9 3 BAY SINK AND GREASE TRAP DETAIL
NTS

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STATE OF CONNECTICUT
KA-01720
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

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P5.2

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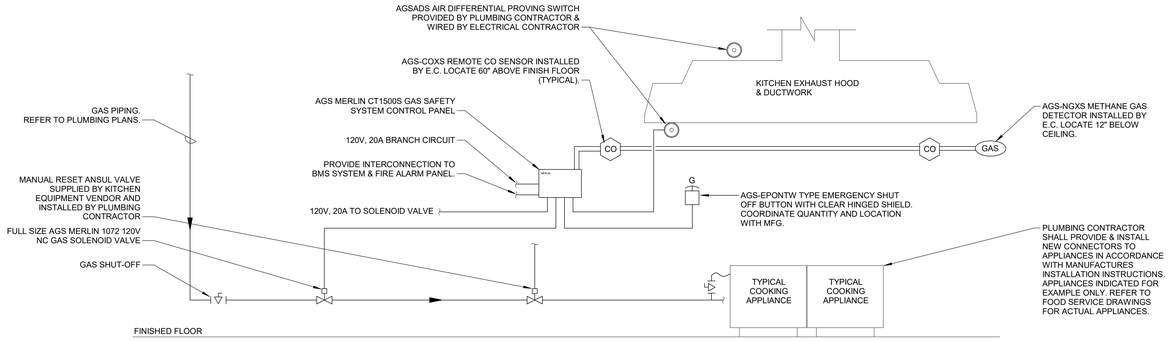


SEQUENCE OF OPERATION:

THE SYSTEM'S GAS SOLENOID VALVE SHALL CLOSE UPON ANY OF THE FOLLOWING:

A. WHEN CARBON MONOXIDE IS DETECTED.
B. SHUT DOWN OF HOOD (LOSS OF DRAFT).
C. ALARM SIGNAL FROM PANIC BUTTON.
D. ALARM SIGNAL FROM FIRE ALARM PANEL.

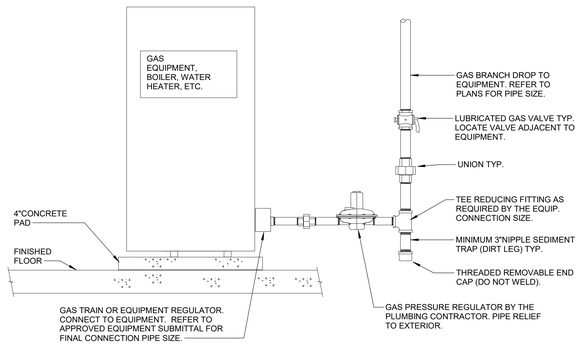
1. UNDER NORMAL OPERATION CONDITION, KITCHEN EXHAUST FAN IS ON HIGH SPEED, GAS CONTROL PANEL IS POWERED, GAS SOLENOID CAN BE MANUALLY OPENED VIA AUTHORITY KEY SWITCH.
2. UPON DETECTION OF CARBON MONOXIDE OR COMBUSTIBLE GAS, GAS CONTROL PANEL SHALL GO INTO ALARM, CLOSING GAS SOLENOID VALVE AND GENERATING A TROUBLE SIGNAL FOR BMS / BAS, FIRE ALARM PANEL
3. UPON LOSS OF POWER TO HOOD OR GAS CONTROL PANEL, GAS SOLENOID SHALL CLOSE, MANUAL RESET OF SYSTEM IS REQUIRED TO OPEN GAS SOLENOID VALVE.
4. UPON SENSOR FAILURE OR FAULT, SYSTEM SHALL GO INTO ALARM AND CLOSE GAS SOLENOID VALVE.
5. INCIDENT ON COOKING LINE SHALL ACTIVATE HOOD ANSUL SYSTEM AND CLOSE THERMALLY-ACTIVATED GAS VALVE.

NOTES:

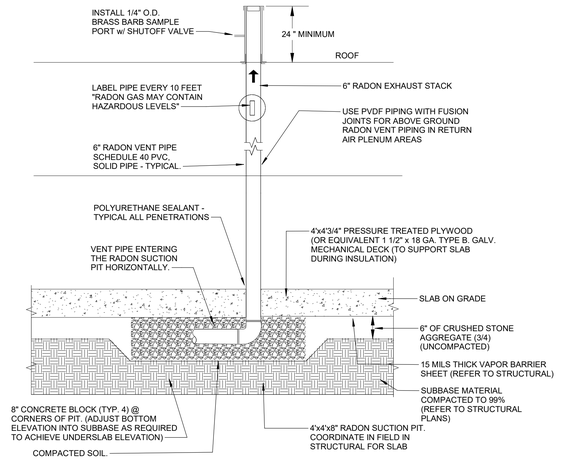
1. INSTALLATION OF SYSTEM MUST CONFORM TO NATIONAL AND LOCAL APPLICABLE CODES AND REQUIREMENTS.
2. BASIS OF DESIGN IS AMERICAN GAS SAFETY (AGS) MERLIN CT1500S GAS VENTILATION INTERLOCK AND SHUTOFF SYSTEM INCORPORATING, CO DETECTOR, AIR DIFFERENTIAL SWITCHES, GAS DETECTOR, AND OTHER ITEMS LISTED IN SCHEMATIC ABOVE. CONTACT LOCAL REPRESENTATIVE: EMERSON SWAN 781-986-2000
3. SYSTEM SHALL BE THE ULTIMATE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. GAS SOLENOID, MERLIN CONTROL PANEL, DETECTORS, DIFFERENTIAL SWITCHES, EMERGENCY STOP BUTTONS AND ALL ACCESSORIES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR. LIAISE WITH PLUMBING CONTRACTOR, ARCHITECT, AND KITCHEN CONTRACTOR FOR LOCATION AND POSITION OF EQUIPMENT. ELECTRICAL CONTRACTOR TO INSTALL ALL WIRING AND CONDUIT.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE 120VAC LINE VOLTAGE TO MERLIN PANEL AND GAS SOLENOID. PROVIDE 12VDC FROM MERLIN PANEL TO DETECTORS / SENSORS. PROVIDE SIGNAL WIRE FROM DETECTORS AND DIFFERENTIAL SWITCHES TO MERLIN PANEL. VOLT FREE CIRCUIT TO REMOTE EMERGENCY STOP BUTTON.
5. COORDINATE PLACEMENT AND FINAL LOCATION OF DETECTORS WITH MANUFACTURER.

1 GAS CONTROLLER DETAIL
NOT TO SCALE

NOTES:
1. ALL NEW GAS PIPING SHALL BE PAINTED WITH PRIMER AND (2) COATS OF YELLOW RUST INHIBITIVE PAINT.
2. COORDINATE LOCATION OF GAS CONNECTION WITH EQUIPMENT LOCATION AND MECHANICAL CONTRACTOR.
3. GAS PRESSURE REGULATORS TO BE AS MANUFACTURED BY MAXITROL, FISHER OR SENSUS. CONTRACTOR TO SURVEY GAS UTILIZATION EQUIPMENT FOR SELECTION AND SIZING OF PROPER GAS REGULATORS.



2 EQUIPMENT GAS CONNECTION DETAIL
NOT TO SCALE



CRUSHED STONE GRADING REQUIREMENTS

1. USE ASTM SIZE #5 MEETING THE FOLLOWING GRADATIONS (SQUARE OPENING AMOUNT FINER THAN EACH LAB SIEVE WEIGHT %): 100% PASSING 1 1/2"; 90 - 100% PASSING 1"; 20 - 55% PASSING 3/4";0 - 10% PASSING 1/2"; 0 - 5% PASSING 3/8". CONTRACTOR AT THEIR OPTION, MAY SUBMIT ALTERNATELY CRUSHED STONE MEETING CTDOT SPECIFICATIONS FOR #6 (SEE SPECIFICATION EARTHWORK SECTION).
2. CONTRACTOR TO SUBMIT SAMPLES & ANALYSIS BASED ON EARTHWORK SECTION DIVISION 2 REQUIREMENTS FOR CRUSHED STONE ASTM #5.
3. CONTRACTOR TO INSTALL MATERIAL IN CONFORMANCE W/CTDOT FORM 816.

GENERAL NOTES RADON SYSTEM :

1. RADON SUCTION PIPE SHALL BE CENTRALLY LOCATED AS SHOWN.
2. DO NOT LOCATE SUCTION PIT NEAR SUBSLAB BARRIERS OR NEAR UNSEALED OPENINGS THROUGH THE SLAB.
3. VENT PIPE SHALL ENTER THE RADON SUCTION PUT HORIZONTALLY.
4. RUN VENT PIPE UNDER THE SLAB AND EXIT THE SUBSLAB IN THE GENERAL LOCATION INDICATED IN THE PLANS.
5. PROVIDE PRESSURE MONITOR/WARNING SIGNAL AT RISER. WHERE LOCATED IN A CHASE, PROVIDE ACCESS DOOR.
6. HORIZONTAL PIPE RUNS IN CEILING MUST PITCH A MINIMUM OF 1/8"/FT. BACK TO THE RADON SUCTION PIT
7. CONTRACTOR TO CONFIRM PROPER OPERATION OF SYSTEM AFTER INSTALLATION BY DRILLING 10 (1/2") HOLES THROUGH SLAB @ EVENLY SPACED LOCATIONS REPRESENTING THE AREA COVERED BY EACH SUCTION PIT. PRESSURES SHALL BE MEASURED @ EACH HOLE BY USING MICROMANOMETER OR SIMILAR DEVICE. A MINIMUM -0.002 in. WATER COLUMN (WC) IS REQUIRED @ ALL TEST HOLES.
8. CONTRACTOR SHALL FILL HOLES AFTER COMPLETION OF TEST W/APPROVED NON-SHRINK "QUICKRETE" CONCRETE GROUT OR EQUAL.
9. ALL PVC PIPING SECTIONS TO BE CONNECTED USING PVC CEMENT (LOW VOC's).
10 ALL PVC PIPING SECTIONS TO BE CONNECTED USING PVC CEMENT (LOW VOC's).
11. REFER TO STRUCTURAL DWGS FOR MORE INFORMATION AND CRUSHED STONE REQUIREMENTS.
12. CONTRACTOR TO RETAIN LICENSED CERTIFIED (CTDPH) RADON TEST PROFESSIONAL TO PREPARE A WRITTEN PLAN APPROVAL AND CONDUCT ON-SITE TESTING TO DETERMINE RADON LEVELS.
13. CONTRACTOR SHALL UTILIZE A LICENSED CERTIFIED RADON TESTING COMPANY TO COLLECT SAMPLES FROM THE SAMPLE PORT ON THE ROOF TO DETERMINE EFFECTIVENESS OF THE SYSTEM. THE LICENSED CERTIFIED RADON TESTING COMPANY SHALL BE A PROFESSIONAL WHO IS ON THE APPROVED LIST OF QUALIFIED SCHOOL RADON MEASUREMENTS PROFESSIONALS WITH CT DEPT. OF PUBLIC HEALTH.
14. LOCATE EXHAUST STACK ON ROOF A MINIMUM 25' FROM ANY BUILDING AIR INTAKES.
15. COORDINATE INSTALLATION OF NEW RADON/GAS VENT PIPING WITH LOCATION OF STRUCTURAL FOOTINGS, GRADE BEAMS. ADJUST PIPING LOCATION (< 5' EITHER DIRECTION) AS NECESSARY TO AVOID CONFLICTS.
16. RADON SYSTEM SUBSLAB DETAIL APPLIES UNDER ENTIRE BUILDING SLAB AREA.
17. NO PVC PIPING WILL BE ALLOWED IN RETURN AIR PLENUM AREAS. USE PVDF PIPING WITH FUSION JOINTS FOR ABOVE GROUND RADON VENT PIPING IN RETURN AIR PLENUM AREAS.

3 RADON MITIGATION SYSTEM DETAILS
NOT TO SCALE

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Revisions

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PLUMBING DETAILS

P5.3

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PLUMBING FIXTURE SCHEDULE

GENERAL NOTES:

PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON, 17-GAUAGE SEMICAST "P" TRAPS WITH CLEANOUT PLUGS, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNECTION. REFER TO SPECIFICATIONS FOR EQUIVALENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF PLUMBING FIXTURES, CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. COORDINATE MOUNTING HEIGHTS FOR CHILDREN AND ADULT FIXTURES WITH ARCHITECTURAL DRAWINGS.

TAG	ADA	MANUFACTURER	MODEL	COLD	HOT	SAN	VENT	DESCRIPTION
EWC-1	Yes	ELKAY	EZS8L	1/2"		2"	1 1/2"	ADA REGULAR HEIGHT SINGLE-LEVEL WATER COOLER WITH INTEGRAL CHILLER. MANUAL PUSH BAR ACTIVATION, SINGLE BUBBLER. APPROX. 0.5 GPM FLOW.
EWC-2	Yes	ELKAY	EZS8WSLK	1/2"		2"	1 1/2"	ADA REGULAR HEIGHT SINGLE-LEVEL WATER COOLER WITH INTEGRAL BOTTLE FILLER. MANUAL PUSH BAR FOR COOLER AND SENSOR ACTIVATED BOTTLE FILLER. BOTTLE FILLER MAX 1.1 GPM, COOLER APPROX. 0.5 GPM.
EWC-3	Yes	ELKAY	EZS8L (LOW HEIGHT / PRE-K MOUNT)	1/2"		2"	1 1/2"	ADA PRE-K HEIGHT SINGLE-LEVEL WATER COOLER WITH INTEGRAL CHILLER. MANUAL PUSH BAR ACTIVATION, LOW HEIGHT SINGLE BUBBLER. APPROX. 0.5 GPM FLOW.
HS-1	Yes	WHITEHAUS / NEWPORT BRASS	WINEHAUS (UNDERMOUNT SINK) / 3-3121 (FAUCET TRIM)	1/2"	1/2"	2"	1 1/2"	UNDERMOUNT FIRECLAY CLASSROOM SINK (APPROX. 22" x 12") WITH WALL-MOUNTED MANUAL FAUCET, LEVER HANDLES (NEWPORT BRASS 3-3121 OR EQUAL). FAUCET TO BE PROVIDED WITH REQUIRED ROUGH VALVE. MAX FLOW RATE 1.2 GPM @ 60 PSI (WATERSENSE COMPLIANT). COORDINATE WITH ARCHITECTURAL CABINET AND BACKSPLASH.
JS-1	No	FIAT	MSB-2424	3/4"	3/4"	3"	2"	FIAT #MSB-2424, MOLDED STONE BASIN, 24"x24"x10", SST INTEGRAL DRAIN BODY. SPEAKMAN SEF-9000-TW, EYESAVER COMBINATION SERVICE SINK FAUCET AND EMERGENCY EYEWASH UNIT WITH DRENCH HOSE. WALL MOUNTED, 8" BODY FAUCET, 3/4" THREADED MALE HOSE OUTLET, PAIL HOOK, WALL BRACE AND VACUUM BREAKER SPOUT. PROVIDE DRENCH HOSE ADJACENT TO SINK.
LAV-1A	Yes	ELKAY	ADA WALL HUNG LAV	1/2"	1/2"	1 1/2"	1 1/2"	ADA WALL HUNG LAVATORY WITH MANUAL GOOSENECK FAUCET, LEVER HANDLE, MAX FLOW RATE 0.5 GPM @ 60 PSI.
LAV-2A	Yes	WHITEHAUS / NEWPORT BRASS	WINEHAUS (UNDERMOUNT SINK) / 3-3121 (FAUCET TRIM)	1/2"	1/2"	1 1/2"	1 1/2"	UNDERMOUNT FIRECLAY LAVATORY (APPROX. 22" x 12") WITH WALL-MOUNTED MANUAL FAUCET, LEVER HANDLES (NEWPORT BRASS 3-3121 OR EQUAL). FAUCET TO BE PROVIDED WITH REQUIRED ROUGH VALVE. MAX FLOW RATE 1.2 GPM @ 60 PSI (WATERSENSE COMPLIANT). COORDINATE WITH ARCHITECTURAL CABINET AND BACKSPLASH.
S-1	Yes	ELKAY	ELUH3021	1/2"	1/2"	2"	2"	30" x 21" UNDERMOUNT STAINLESS STEEL SINK. PROVIDE DECK OR COUNTER MOUNTED MANUAL FAUCET, IKEA TAKSJON PULL DOWN LEVER HANDLE, MAX FLOW RATE 2.2 GPM @ 60 PSI. PROVIDE STRAINER AND P-TRAP. COORDINATE WITH ARCH.
WC-1A	Yes	KOHLER	K-4369	1"		4"	2"	ADA WALL MOUNT TOILET WITH MANUAL FLUSH VALVE (LEVER TYPE), 1.28 GPF.
WC-2A	Yes	KOHLER	<varies>	1"		4"	2"	<varies>

PLUMBING SPECIALTY SCHEDULE

TAG	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
HYD-1		NIBCO	763-LS SERIES	EXTERIOR WALL HYDRANT	FINISHED AREAS, CHROME PLATED BRONZE SILL COCK WITH "LOCK SHIELD KEY", REMOVABLE HAND WHEEL, AND VACUUM BREAKER

GAS-FIRED WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	GAS BURNER		WATER SIDE				THERMAL EFFICIENCY	ELECTRICAL DATA			REMARKS
			INPUT (BTU/H)	FUEL TYPE	STORAGE RECOVERY @ 100°F (GPH)	STORAGE VOL (gal)	PIPE DIAMETER INLET	PIPE DIAMETER OUTLET		FLA	VOLT	PH	
WH-1	A.O. SMITH	BTH-199	199,900	NATURAL	235	100	1 1/2"	1 1/2"	97	5 A	120 V	1	POWER VENT, HIGH EFFICIENCY CONDENSING GAS WATER HEATER. PROVIDE T&P RELIEF VALVE, THERMAL EXPANSION TANK, DRAIN PAN, AND CONDENSATE NEUTRALIZER. PROVIDE CONCENTRIC VENT KIT PER MANUFACTURER REQUIREMENTS.

GENERAL NOTES:

1. THE WATER HEATER SHALL BE FACTORY ASSEMBLED, AND SHALL INCLUDE HOOKUPS FOR ELECTRICAL, GAS, VENTING AND PLUMBING. THE BURNER SHALL BE A HIGH EFFICIENCY TYPE. IGNITION SHALL BE BY AN ELECTRONIC PILOT SYSTEM WITH AUTOMATIC SAFETY CONTROLS FOR HIGH LIMIT, GAS PRESSURE REGULATOR. VENTING SHALL BE U.L. RATED FOR USE WITH CPVC. THE WATER HEATER SHALL BE CONSTRUCTED TO ASME CODE, CERTIFIED BY CSA, AND APPROVED BY NSF FOR DOMESTIC HOT WATER USE.
2. PROVIDE ASME PRESSURE/TEMPERATURE RELIEF VALVE FOR THE WATER HEATER.
3. THE WATER HEATER SHALL COMPLY WITH THE ENERGY EFFICIENCY REQUIREMENTS FOR STANDBY LOSS AND THERMAL EFFICIENCY AS SPECIFIED IN THE LATEST EDITION OF ASHRAE 90.1 STANDARD.

PLUMBING DRAINAGE SCHEDULE

TAG	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
FCO	FLOOR CLEANOUT	JR SMITH	4020 SERIES	AREAS INCORPORATING FLOOR FINISHES, ADJUSTABLE ROUND SCORIATED HEAVY DUTY NICKEL BRONZE SECURED TOP, CAST IRON BODY, FLASHING FLANGE AND CLAMP, TAPERED BRONZE PLUG.	
FD-1	FLOOR DRAIN	JR SMITH	2010(A)-NB-P050	CAST IRON BODY, BOTTOM OUTLET, 6" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER TOP, COMBINATION SEEPAGE PAN/MEMBRANE FLASHING CLAMP AND TRAP PRIMER CONNECTION.	
FD-2	FLOOR DRAIN	JR SMITH	2110-P050-B	CAST IRON BODY, BOTTOM OUTLET, 9" DIAMETER CAST IRON TOP, SEDIMENT BUCKET, COMBINATION SEEPAGE PAN/MEMBRANE FLASHING CLAMP AND TRAP PRIMER CONNECTION.	
FS-1	FLOOR SINK	JR SMITH	3101-C	ACID RESISTANT COATED(ARC) INTERIOR, 6" DEEP CAST IRON BODY, BOTTOM OUTLET, 8" SQUARE NICKEL BRONZE TOP, ALUMINUM SEDIMENT BUCKET AND COMBINATION SEEPAGE PAN/MEMBRANE FLASHING CLAMP. PROVIDE DRAINS RECEIVING INDIRECT WASTE WITH 1/2 GRATE.	
RD-1	ROOF DRAIN	JR SMITH	1010-E-R-C	DIAMETER CAST IRON BODY, BOTTOM OUTLET, 12" DIAMETER CAST IRON DOME, SUMP RECEIVER, UNDER-DECK CLAMP, FIXED EXTENSION COLLAR, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD.	

PLUMBING EXPANSION TANK SCHEDULE

TAG	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
ET-1	DOMESTIC WATER EXPANSION TANK	AMTROL	ST-25V-C		10.3 GALLON THERMAL EXPANSION TANK FOR DOMESTIC WATER HEATER SYSTEM. PROVIDE 6.9 GALLON ACCEPTANCE VOLUME. SET TANK PRE-CHARGE TO MATCH INCOMING STATIC WATER PRESSURE. INSTALL ON COLD WATER SUPPLY TO WATER HEATER PER MANUFACTURER REQUIREMENTS.

MIXING VALVE SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	GPM	MAX. PRESSURE	MIN GPM WITH ACCURATE TEMP.	OUTLET SET TEMP. (°F)	SIZE (INLET, OUTLET)	UNIT COMPLIANCE	REMARKS
TMV-1	ACORN	MV17-3	PACKAGED MIXING STATION	90	125 PSI	2	120	2"	ASSE 1017	COMMAND STATION. INCLUDED WILL BE COMBINATION TEMPERATURE/PRESSURE GAUGES ON THE INLETS AND OUTLET, FULL PORT LOCKABLE BALL VALVES FOR SERVICE STOPS, CARTRIDGE-STYLE INLET CHECKS W/STRAINERS, A HOSE CONNECTION FOR CREATING DEMAND LOCALLY. ATTACHED TO A WELDED UNISTRUT FRAME FOR SUPPORT. ASSEMBLY SHALL BE LEAD-FREE.

DUPLEX EFFLUENT PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	TYPE	FLOW	HEAD	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL HZ	REMARKS
SP-1 / SP-2	ZOELLER	6155	FLOOR DRAIN WASTE	DUPLEX SUBMERSIBLE EFFLUENT PUMP	77 GPM MAX	44' MAX	208	3	60	PROVIDE DUPLEX EFFLUENT PUMP SYSTEM FOR FLOOR DRAIN WASTE ONLY. PROVIDE (2) MODEL 6155 PUMPS, EACH RATED FOR 30 GPM. CONCRETE PIT BY STRUCTURAL DIVISION. REFER TO STRUCTURAL DRAWINGS FOR PIT SIZE AND REINFORCEMENT REQUIREMENTS. PROVIDE AIR-TIGHT COVER WITH PORTS FOR PUMPS, PIPING, AND CONTROLS. PROVIDE DUPLEX PIVOT PRO DUPLEX CONTROLLER WITH 3-FLOAT TREE FOR ON/OFF AND HIGH-WATER ALARM. TIE HIGH-WATER ALARM AND COMMON FAULT SIGNAL INTO BUILDING MANAGEMENT SYSTEM. PROVIDE Z-RAIL SYSTEM FOR EASY PUMP REMOVAL WITHOUT DISCONNECTING PIPING.

GREASE INTERCEPTOR SCHEDULE

TAG	MANUFACTURER	MODEL	FLOW RATE (GPM)	REMARKS

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RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING SCHEDULES

P6.1

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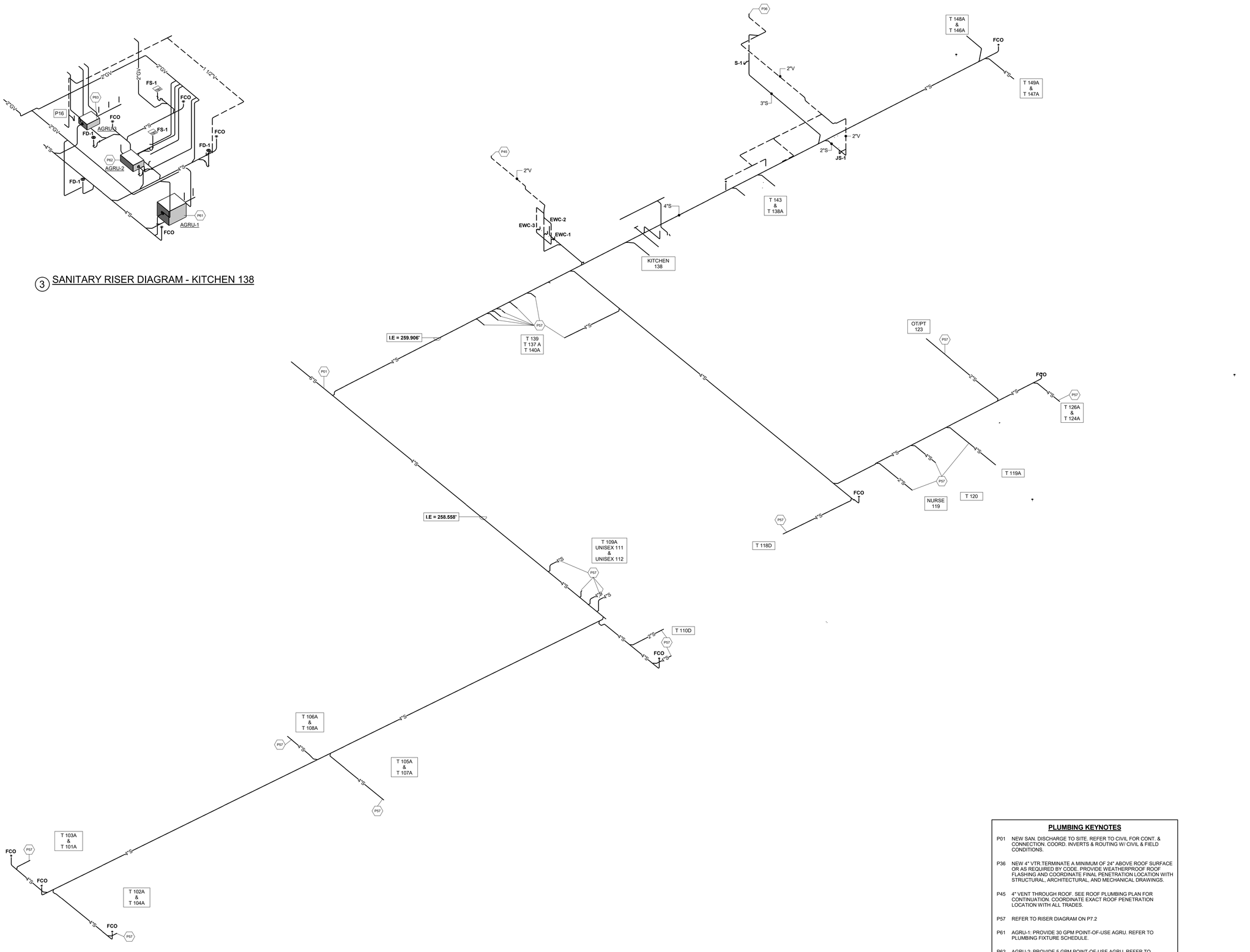
3 SANITARY RISER DIAGRAM - KITCHEN 138



1 SANITARY RISER DIAGRAM 1

PLUMBING KEYNOTES

P01 NEW SAN. DISCHARGE TO SITE. REFER TO CIVIL FOR CONT. & CONNECTION. COORD. INVERTS & ROUTING W/ CIVIL & FIELD CONDITIONS.

P36 NEW 4" VTR.TERMINATE A MINIMUM OF 24" ABOVE ROOF SURFACE OR AS REQUIRED BY CODE. PROVIDE WEATHERPROOF ROOF FLASHING AND COORDINATE FINAL PENETRATION LOCATION WITH STRUCTURAL, ARCHITECTURAL, AND MECHANICAL DRAWINGS.

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

P57 REFER TO RISER DIAGRAM ON P7.2

P61 AGRU-1: PROVIDE 30 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

P62 AGRU-2: PROVIDE 5 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

P63 AGRU-3: PROVIDE 40 GPM POINT-OF-USE AGRU. REFER TO PLUMBING FIXTURE SCHEDULE.

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GM2

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RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING RISERS - DRAINAGE

P7.1

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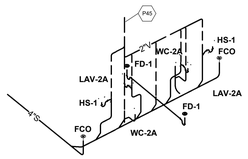
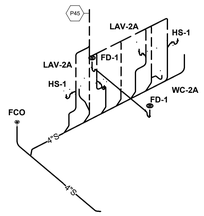
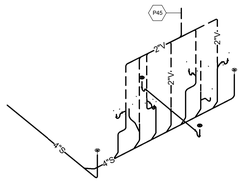


1 SANITARY RISER DIAGRAM T 102A & T 104A



2 SANITARY RISER DIAGRAM T 103A & T 101A



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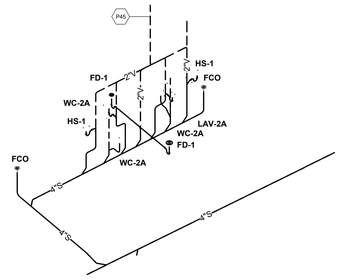
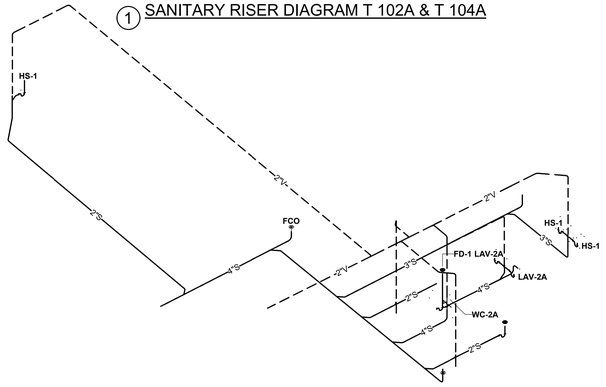
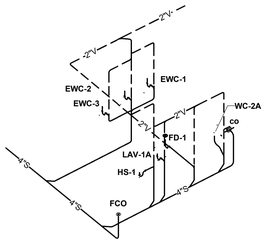


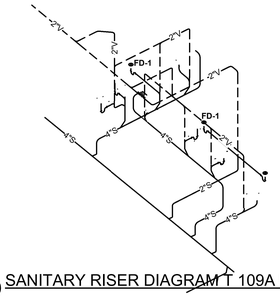
4 SANITARY RISER DIAGRAM T 106A & T 108A



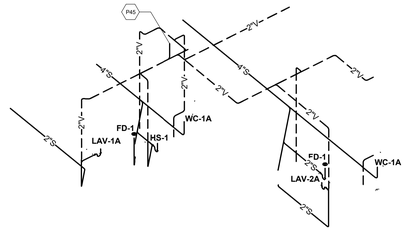
8 SANITARY RISER DIAGRAM T 126A, T 124A, & OT/PT 123



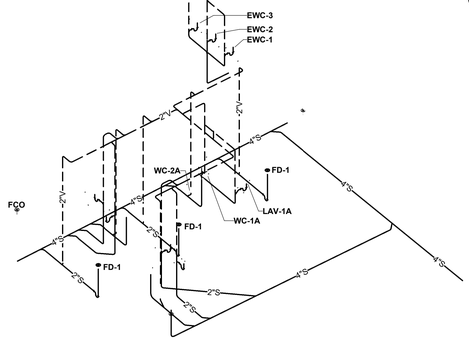
5 SANITARY RISER DIAGRAM T 110D



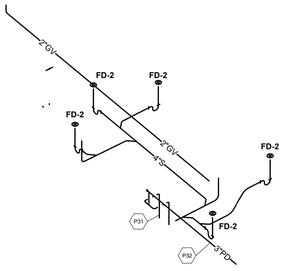
6 SANITARY RISER DIAGRAM T 109A UNISEX 111 & UNISEX 112



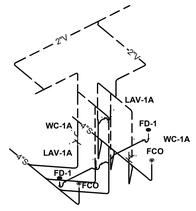
7 SANITARY RISER DIAGRAM T 119A, NURSE 119, & T 120



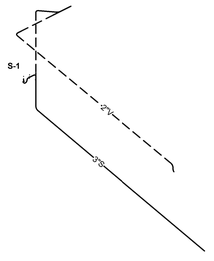
9 SANITARY RISER DIAGRAM T 139, T 137 A & T 140A



10 MECHANICAL ROOM

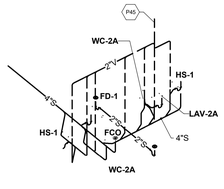


11 SANITARY RISER DIAGRAM T 138A & T 143

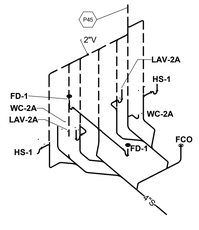


12 SANITARY RISER DIAGRAM BREAK/WORK RM 144

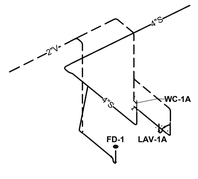
13 SANITARY RISER DIAGRAM CUST 145



14 SANITARY RISER DIAGRAM T 147 A & T 149A



15 SANITARY RISER DIAGRAM T 146A & T 149A



16 SANITARY RISER DIAGRAM T 118D

PLUMBING KEYNOTES

P31 NEW CONCRETE PIT FOR DUPLEX SEWAGE EJECTOR SYSTEM (SP-1 & SP-2). PROVIDE (2) 2" DISCHARGE RISERS & 2" VENT. INSTALL CHECK VALVE AND ISOLATION VALVE ON EACH DISCHARGE LINE. COORDINATE POWER AND CONTROLS WITH ELECTRICAL. REFER TO SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS. PIT CONSTRUCTION BY STRUCTURAL.

P32 3" PD TO TIE INTO GRAVITY SANITARY LINE. PROVIDE WYE FITTING IN DIRECTION OF FLOW COORDINATE EXACT CONNECTION LOCATION AND INVERT WITH FIELD CONDITIONS.

P45 4" VENT THROUGH ROOF. SEE ROOF PLUMBING PLAN FOR CONTINUATION. COORDINATE EXACT ROOF PENETRATION LOCATION WITH ALL TRADES.

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STATE OF CONNECTICUT
ANTHONY J. SIMONELLI
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LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
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PLUMBING RISERS - DRAINAGE

P7.2

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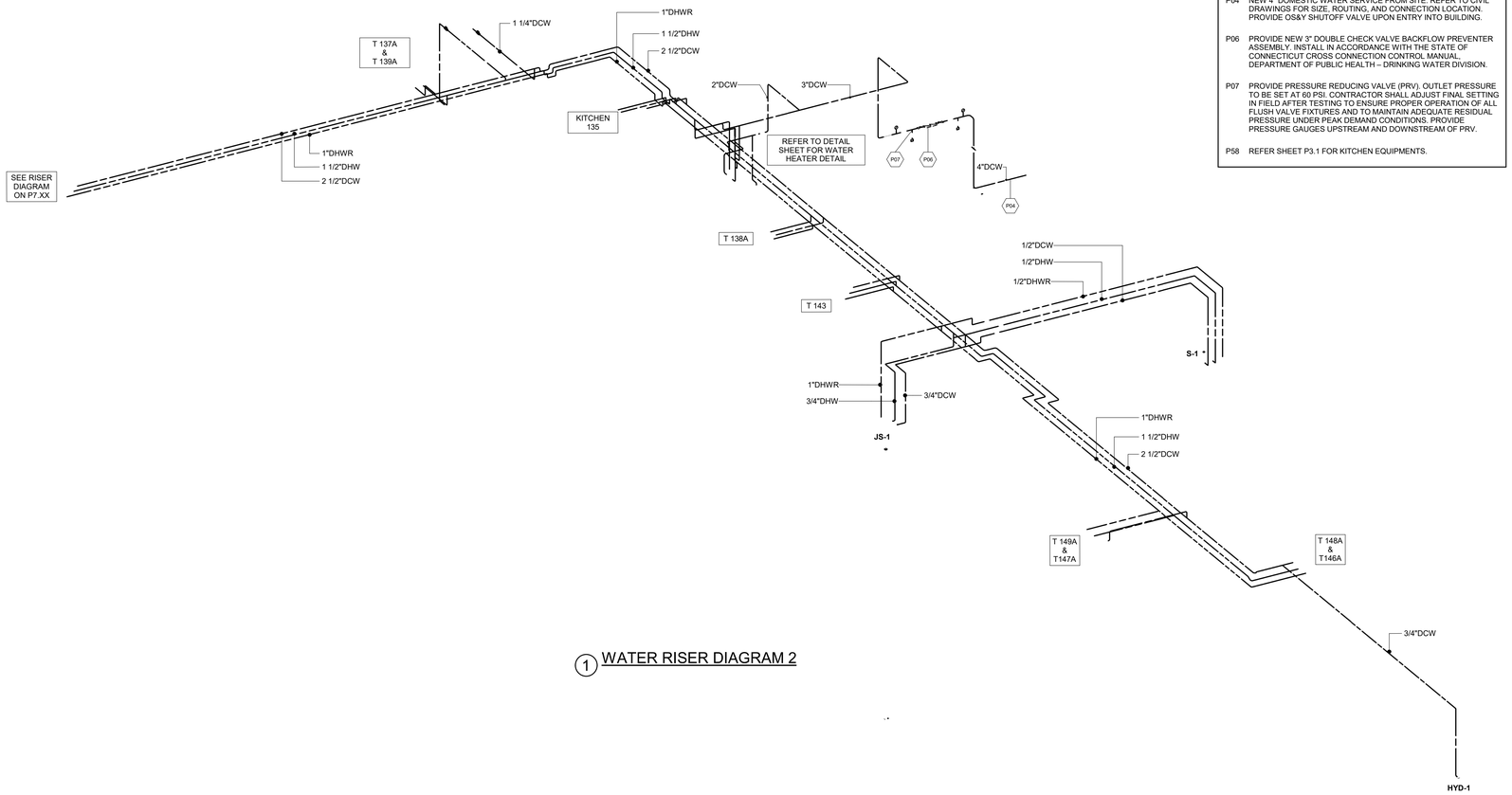
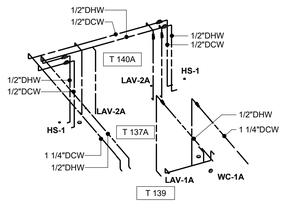
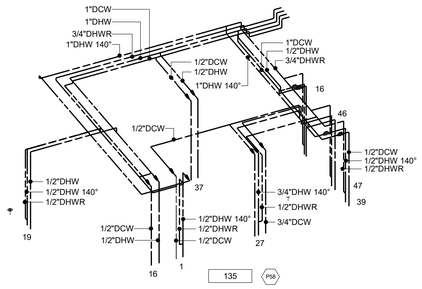


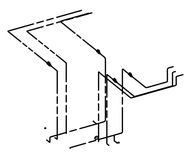
1 WATER RISER DIAGRAM 2



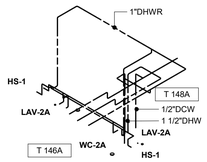
2 WATER RISER DIAGRAM - T 137A, T 139 & 140A



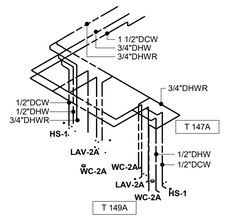
3 WATER RISER DIAGRAM - KITCHEN 135



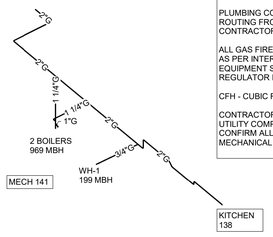
4 WATER RISER DIAGRAM - T 138A & T 143



5 WATER RISER DIAGRAM - T 146A & 148



6 WATER RISER DIAGRAM - T 147A & 149A



7 GAS RISER DIAGRAM

PLUMBING KEYNOTES

P04 NEW 4" DOMESTIC WATER SERVICE FROM SITE. REFER TO CIVIL DRAWINGS FOR SIZE, ROUTING, AND CONNECTION LOCATION. PROVIDE OS&Y SHUTOFF VALVE UPON ENTRY INTO BUILDING.

P06 PROVIDE NEW 3" DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY. INSTALL IN ACCORDANCE WITH THE STATE OF CONNECTICUT CROSS CONNECTION CONTROL MANUAL, DEPARTMENT OF PUBLIC HEALTH – DRINKING WATER DIVISION.

P07 PROVIDE PRESSURE REDUCING VALVE (PRV). OUTLET PRESSURE TO BE SET AT 60 PSI. CONTRACTOR SHALL ADJUST FINAL SETTING IN FIELD AFTER TESTING TO ENSURE PROPER OPERATION OF ALL FLUSH VALVE FIXTURES AND TO MAINTAIN ADEQUATE RESIDUAL PRESSURE UNDER PEAK DEMAND CONDITIONS. PROVIDE PRESSURE GAUGES UPSTREAM AND DOWNSTREAM OF PRV.

P58 REFER SHEET P3.1 FOR KITCHEN EQUIPMENTS.

NOTES:
TOTAL DEVELOPED LENGTH OF GAS PIPING FROM METER RIG TO FURTHEST OUTLET = 100FT.

GAS PIPING BASED ON SOUTHWEST GAS COMPANY REQUIREMENT AND IPC

NATURAL GAS INLET PRESSURE OF LESS THAN 2.0PSI, PRESSURE DROP OF 0.3 PSI AND 0.6 SPECIFIC GRAVITY.

PLUMBING CONTRACTOR TO COORDINATE ALL GAS VENT ROUTING FROM GAS REGULATORS, ETC... WITH MECHANICAL CONTRACTOR

ALL GAS FIRED EQUIPMENT SHALL BE CONNECTED TO PIPING AS PER INTERNATIONAL FUEL GAS CODE. EACH PIECE OF EQUIPMENT SHALL HAVE A DIRT LEG, UNION GAS COCK, & REGULATOR IF LOWER THEN SUPPLIED PRESSURE IS REQUIRED

CFH - CUBIC FEET PER HOUR MBH = M (1000) BTU PER HOUR

CONTRACTOR TO COORDINATE INSTALLATION WITH GAS UTILITY COMPANY
CONFIRM ALL PRESSURE REQUIREMENTS WITH APPROVED MECHANICAL EQUIPMENT.

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REGISTERED
PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PLUMBING RISERS - SUPPLY

P7.3

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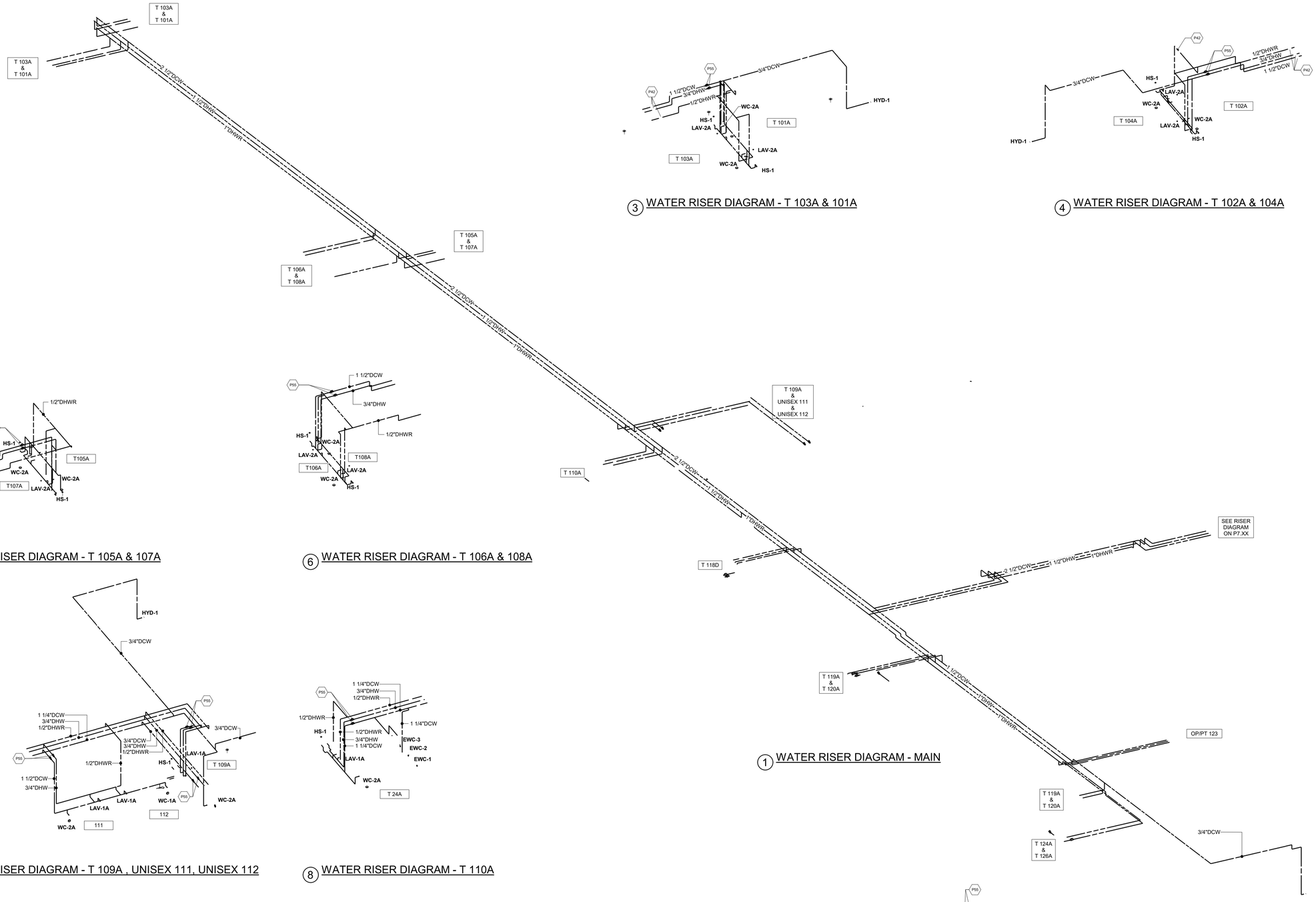

3 WATER RISER DIAGRAM - T 103A & 101A

4 WATER RISER DIAGRAM - T 102A & 104A

5 WATER RISER DIAGRAM - T 105A & 107A

6 WATER RISER DIAGRAM - T 106A & 108A

7 WATER RISER DIAGRAM - T 109A , UNISEX 111, UNISEX 112

8 WATER RISER DIAGRAM - T 110A

1 WATER RISER DIAGRAM - MAIN

9 WATER RISER DIAGRAM - T 118D

10 WATER RISER DIAGRAM - T 119A & T 120A

11 WATER RISER DIAGRAM - T 124A & T 126A

12 WATER RISER DIAGRAM - OT/PT 123

PLUMBING KEYNOTES

P42 PROVIDE FULL PORT SHUTOFF VALVE. COORDINATE EXACT LOCATION AND ACCESS REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

P55 PROVIDE WATER HAMMER ARRESTORS PER PDI WH-201. INSTALL ABOVE ACCESSIBLE CEILINGS AS CLOSE AS PRACTICAL TO FIXTURES SERVED. SIZE PER PDI WH-201. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND REPLACEMENT.

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345 MIX STREET
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State Project #: 017-0090 RNV
Project #:25064

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PLUMBING RISERS - SUPPLY

P7.4

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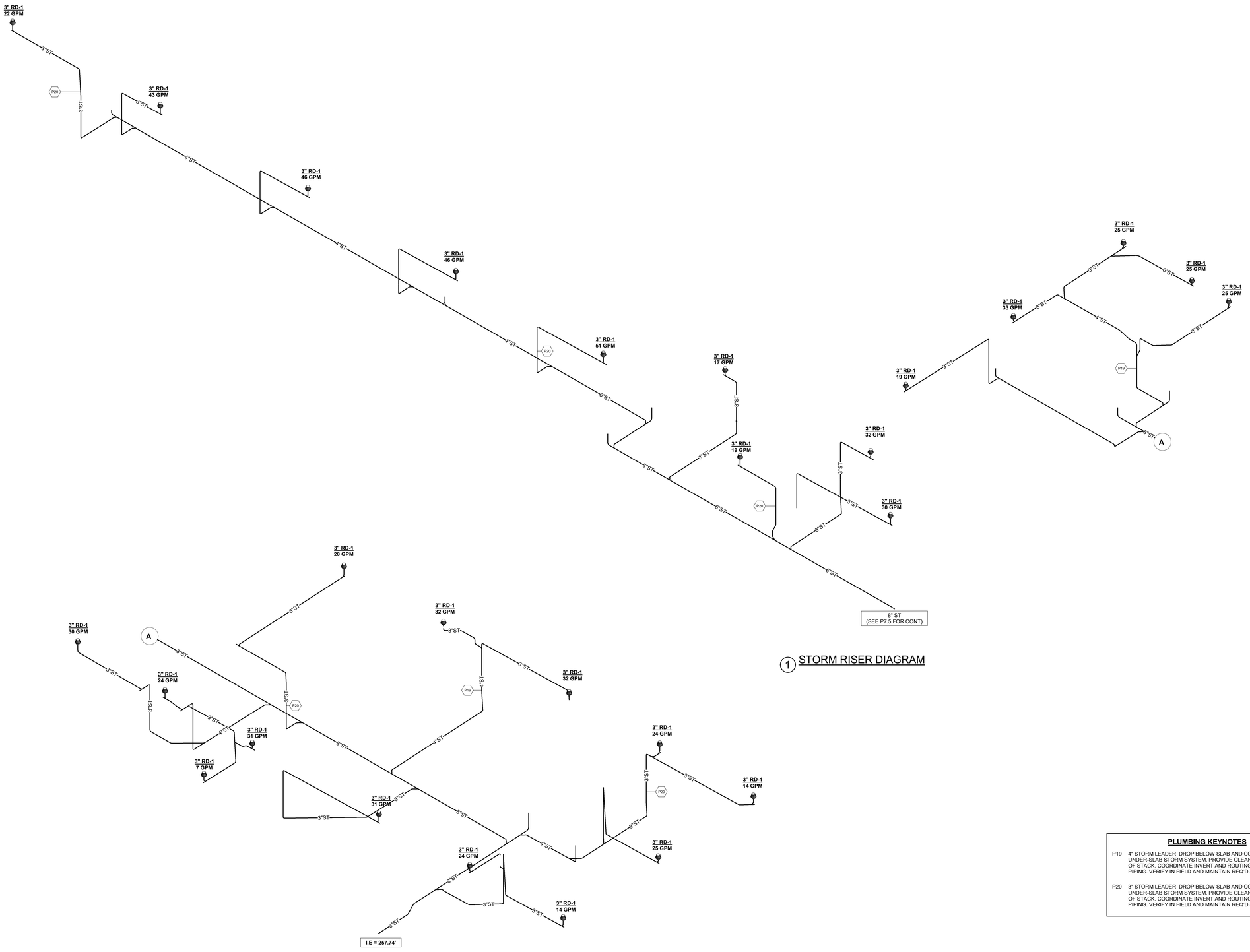

1 STORM RISER DIAGRAM

2 STORM RISER DIAGRAM 2

PLUMBING KEYNOTES

P19 4" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

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State Project #: 017-0090 RNV
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PLUMBING RISERS - STORM

P7.5

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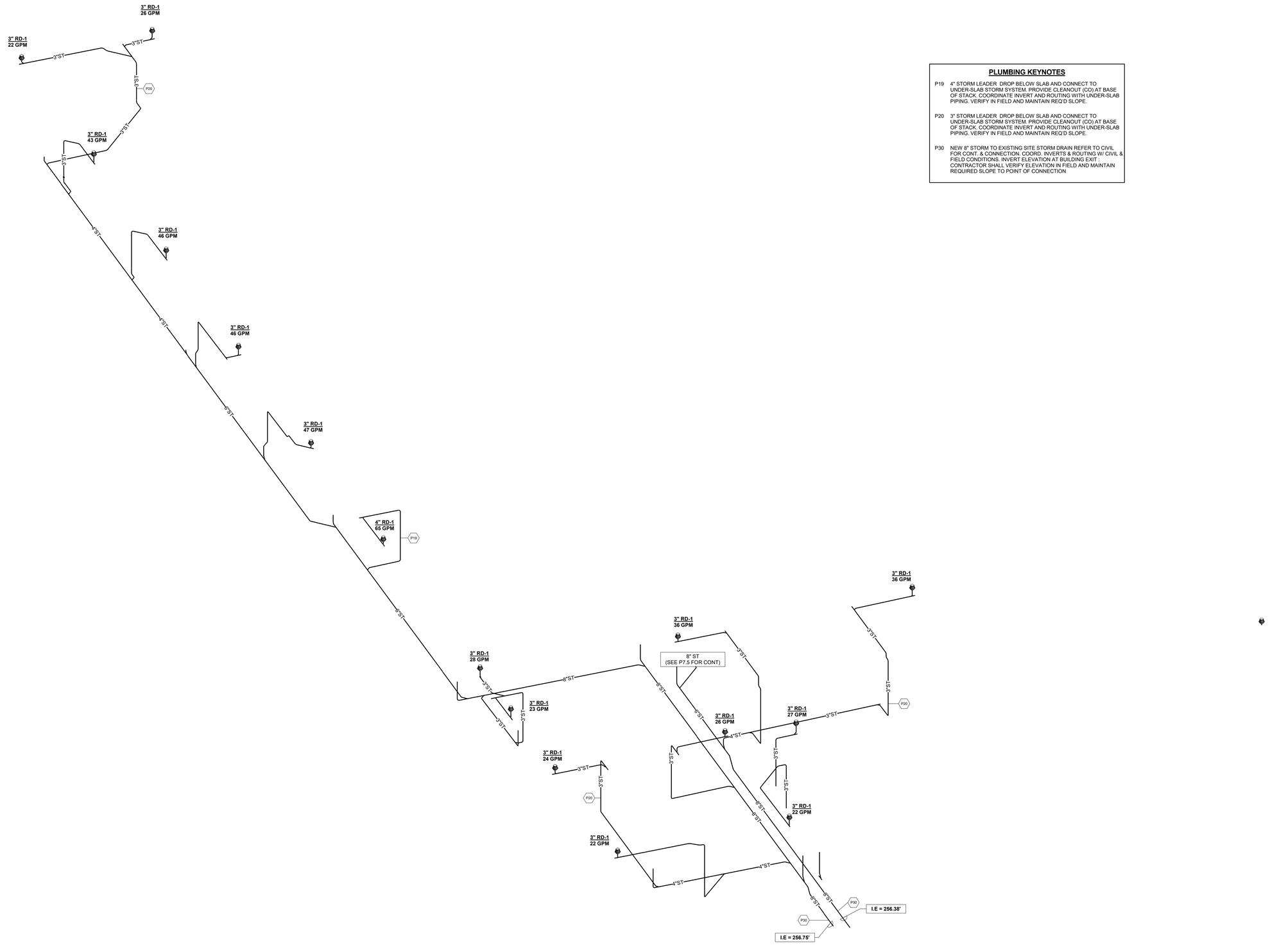

1 STORM RISER DIAGRAM 3

PLUMBING KEYNOTES

P19 4" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P20 3" STORM LEADER DROP BELOW SLAB AND CONNECT TO UNDER-SLAB STORM SYSTEM. PROVIDE CLEANOUT (CO) AT BASE OF STACK. COORDINATE INVERT AND ROUTING WITH UNDER-SLAB PIPING. VERIFY IN FIELD AND MAINTAIN REQ'D SLOPE.

P30 NEW 8" STORM TO EXISTING SITE STORM DRAIN REFER TO CIVIL FOR CONT. & CONNECTION. COORD. INVERTS & ROUTING W/ CIVIL & FIELD CONDITIONS. INVERT ELEVATION AT BUILDING EXIT : CONTRACTOR SHALL VERIFY ELEVATION IN FIELD AND MAINTAIN REQUIRED SLOPE TO POINT OF CONNECTION

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CONSTRUCTION DOCUMENTS
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PLUMBING RISERS - STORM

P7.6

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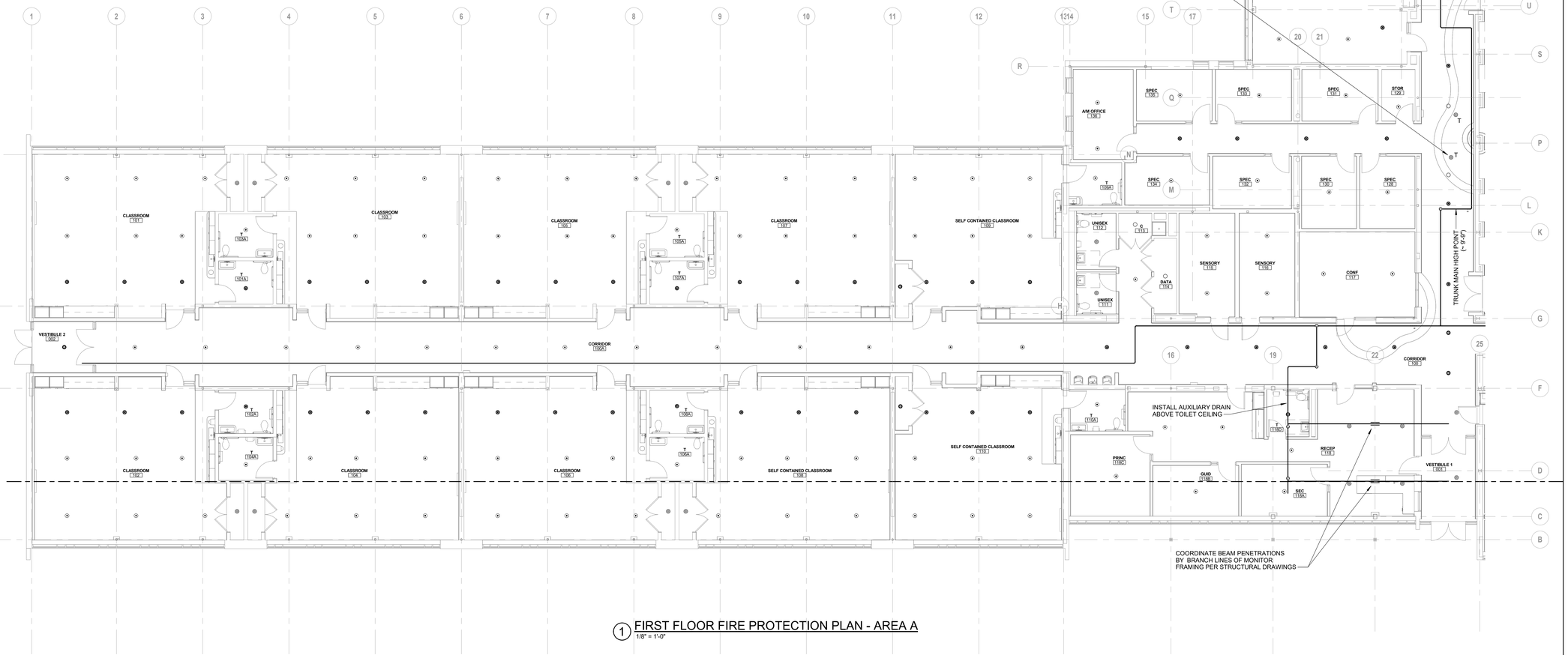
FIRE PROTECTION LEGEND

	FIRE PROTECTION PIPING (PROPOSED)
	OS&Y GATE VALVE W/ TAMPER SWITCH
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	RISER CHECK VALVE
	FLOW SWITCH
	ELECTRIC ALARM BELL
	CHECK VALVE
	5" STORZ TYPE FIRE DEPARTMENT CONNECTION
	BACKFLOW PREVENTER TEST HEADER
	BUTTERFLY VALVE W/ TAMPER SWITCH
	RECESSED PENDENT SPRINKLER HEAD
	CONCEALED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER ABOVE CEILING @ 100 SF MAX
T	CONCEALED PENDENT SPRINKLER - BLACK
	DRY HORIZONTAL SIDEWALL SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA A
1/8" = 1'-0"

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345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

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AREA A

CONSTRUCTION DOCUMENTS
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FIRST FLOOR FIRE PROTECTION PLAN - AREA A

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FIRE PROTECTION LEGEND

	FIRE PROTECTION PIPING (PROPOSED)
	OS&Y GATE VALVE W/ TAMPER SWITCH
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	RISER CHECK VALVE
	FLOW SWITCH
	ELECTRIC ALARM BELL
	CHECK VALVE
	5" STORZ TYPE FIRE DEPARTMENT CONNECTION
	BACKFLOW PREVENTER TEST HEADER
	BUTTERFLY VALVE W/ TAMPER SWITCH
	RECESSED PENDENT SPRINKLER HEAD
	CONCEALED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER ABOVE CEILING @ 100 SF MAX
	CONCEALED PENDENT SPRINKLER - BLACK
	DRY HORIZONTAL SIDEWALL SPRINKLER HEAD
	DRY PENDENT SPRINKLER HEAD

1 FIRST FLOOR FIRE PROTECTION PLAN - AREA B
1/8" = 1'-0"

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345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
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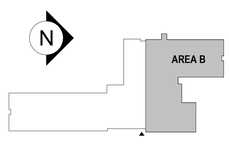

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR FIRE PROTECTION PLAN - AREA B

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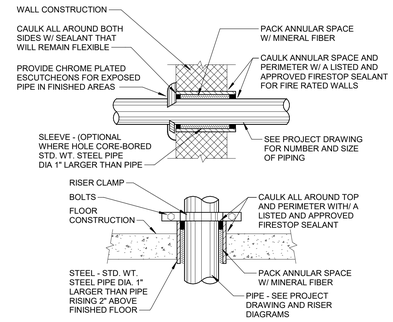
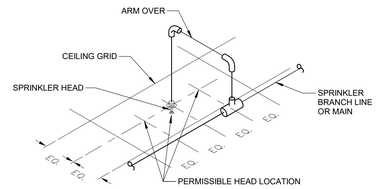


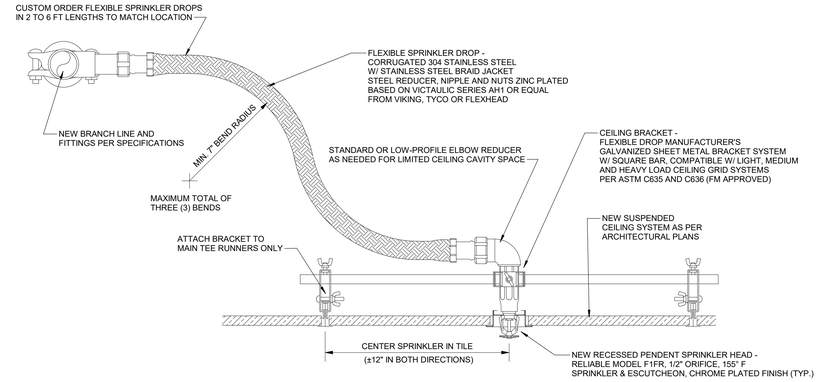
THROUGH-PENETRATION FIRE STOP SYSTEMS: (Based on HILTI FIRESTOP SYSTEMS)
1. GYPSUM WALL ASSEMBLY - 2Hr. FIRE RATED OR LESS - U.L. SYSTEM # WL1056
2. CONCRETE BLOCK WALL - 3 Hr. FIRE RATED OR LESS - U.L. SYSTEM # CAJ1155
3. CONCRETE FLOOR SLAB - 2Hr. FIRE RATED OR UNRATED - U.L. SYSTEM # CAJ1380

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE U.L. LISTED FIRESTOP SYSTEM TO MATCH CONSTRUCTION AS NOTED OR OTHERS AS NEEDED. SUBMIT FOR APPROVAL. REFER TO ARCHITECTURAL PLANS AND DRAWINGS FOR LOCATION AND CONSTRUCTION OF FIRE RATED WALLS AND PARTITIONS.

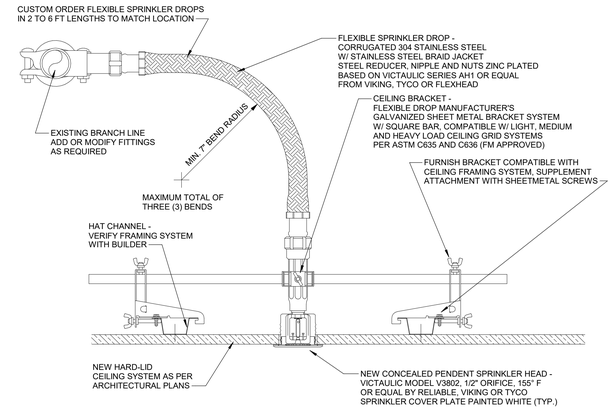
1 PIPE PENETRATION DETAILS
NTS



2 SPRINKLER CENTERING DETAIL
NTS



3 LOW-PROFILE FLEXDROP - RECESSED PENDENT SPRINKLER
1/8" = 1'-0"



4 FLEXDROP - CONCEALED SPRINKLER
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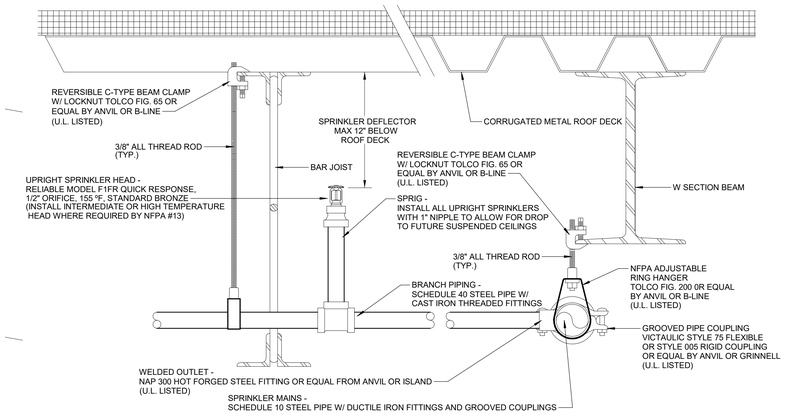

5 TYPICAL PIPE HANGER DETAIL
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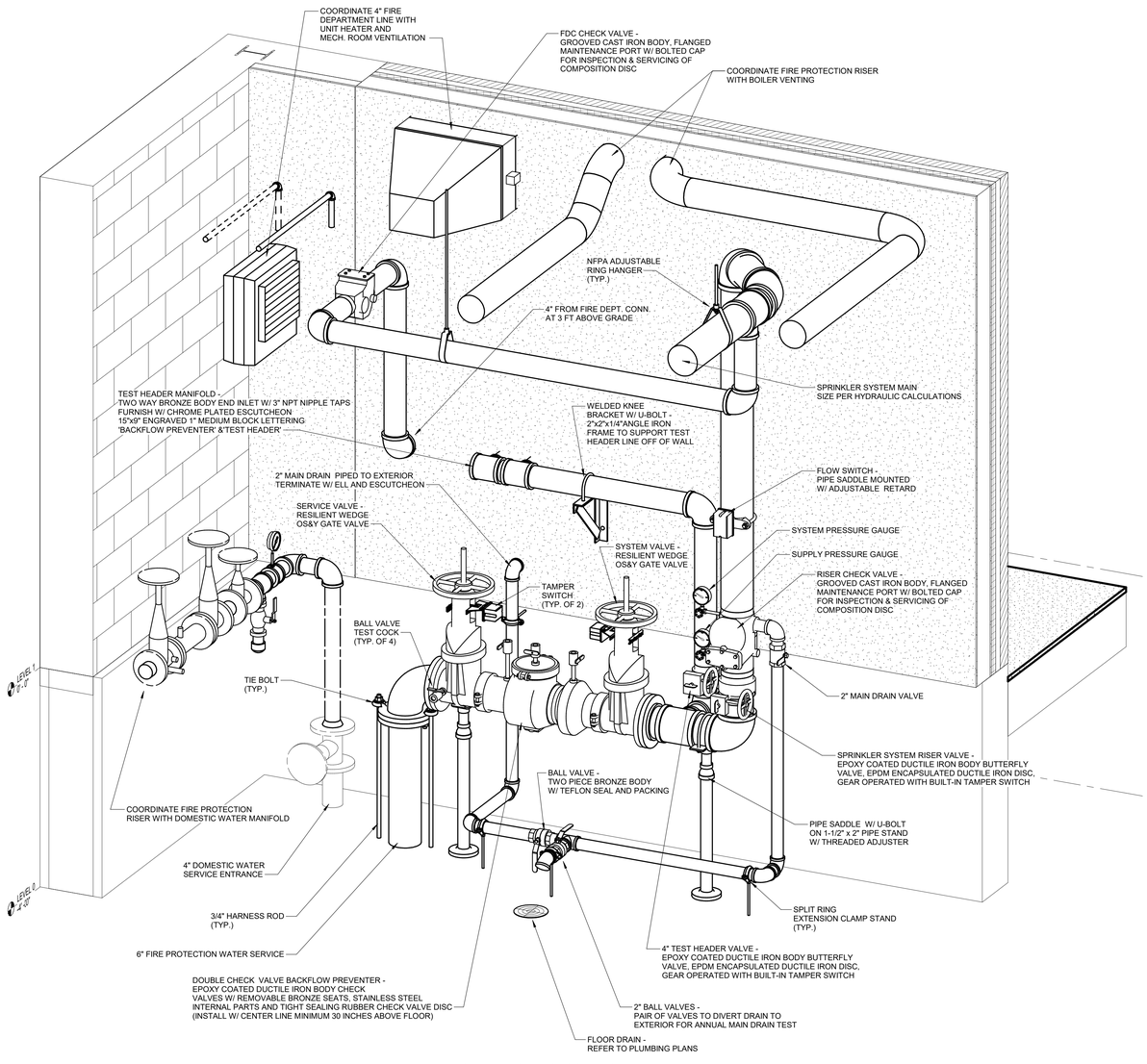

6 FIRE PROTECTION RISER

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State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRE PROTECTION DETAILS

FP2.0

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ELECTRICAL SYMBOL LIST

NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.

SYMBOL	DESCRIPTION
	PENDANT MOUNTED LIGHT FIXTURE
	PENDANT MOUNTED LIGHT FIXTURE
	CEILING MOUNTED LIGHT FIXTURE
	RECESSED 2'X4' LIGHT FIXTURE
	RECESSED 2'X2' LIGHT FIXTURE
	LINEAR FIXTURE
	WALL MOUNTED FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT
	DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT
	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS
	EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS
$	SINGLE POLE TOGGLE SWITCH
$3	THREE WAY TOGGLE SWITCH
$4	FOUR WAY TOGGLE SWITCH
$K	SINGLE POLE KEYED TOGGLE SWITCH
$3K	THREE WAY KEYED TOGGLE SWITCH MOUNT
$4K	FOUR WAY KEYED TOGGLE SWITCH MOUNT
$T	THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS
$D	DIMMER SWITCH
$PS	PROJECTION SCREEN SWITCH
$OC	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
B	DOORBELL BUZZER/CHIME - MOUNT 7'-0" A.F.F.
OS OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
VS	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
PC	PHOTOCELL
E/G	EMERGENCY ELECTRIC/GAS SHUTOFF PUSHBUTTON OPERATOR
	GROUNDED DUPLEX RECEPTACLE
A	GROUNDED DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER OR BACKSPLASH 42" A.F.F.
C	GROUNDED DUPLEX RECEPTACLE - MOUNT AT CEILING
GFI	GROUNDED DUPLEX GFI RECEPTACLE
WP	GROUNDED DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER
S	GROUNDED DUPLEX RECEPTACLE - STUB UP TO 24" A.F.F. ON 1" (MIN) RGS CONDUIT
PM	VERTICAL PLUGMOLD WITH OUTLETS AT 12" O.C. - 5' LONG
MW	GROUNDED DUPLEX GFI RECEPTACLE DEDICATED FOR MICROWAVE OVEN - VERIFY EXACT MOUNTING LOCATION
	GROUNDED DOUBLE DUPLEX RECEPTACLE
	GROUNDED 240V RECEPTACLE
USB	GROUNDED GFI DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORT
	GROUNDED SIMPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE - MATCH NEMA CONFIGURATION OF EQUIPMENT SERVED
	FLOOR MOUNTED DEVICES AS LISTED ABOVE
	RECESSED MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
PP	COMBINATION POWER/TEL/DATA POLE
	TELEPHONE/DATA OUTLETS
WAP	WIRELESS ACCESS POINT (WAP - WIRELESS ACCESS POINT) INCLUDE CAT 5e CABLE
F	MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F.
H	HEAT DETECTOR
H 200°	HEAT DETECTOR 200°
S	AREA SMOKE DETECTOR
S D	DUCT SMOKE DETECTOR
S CO	AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR
S E	ELEVATOR RETURN SMOKE DETECTOR
CO	FIRE ALARM CARBON MONOXIDE DETECTOR
	FIRE ALARM REMOTE TEST SWITCH
M	MAGNETIC DOOR HOLDER
	FIRE ALARM VISUAL ONLY INDICATING UNIT - ENTIRE LENS BETWEEN 80" A.F.F. AND 96" A.F.F.
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - ENTIRE LENS BETWEEN 80" A.F.F. AND 96" A.F.F.
R	LIGHTING CONTROL RELAY
AOM	FIRE ALARM ADDRESSABLE OUTPUT MODULE
AIM	FIRE ALARM ADDRESSABLE INPUT MODULE
$VC	SPEAKER VOLUME CONTROL
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
HGMP	HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26
	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F.
$A	EMERGENCY "CALL-FOR-AID" SWITCH - MOUNT 48" A.F.F. WITH PULL CORD TO 6" A.F.F.

SYMBOL	DESCRIPTION
M/S	EMERGENCY SWITCH - MOUNT AT 48" A.F.F. - M=MASTER - S=SLAVE
J	JUNCTION BOX
J TC	JUNCTION BOX WITH 120V POWER FOR TEMPERATURE CONTROLS
J CATV	JUNCTION BOX FOR CATV OUTLET WITH 1 1/4" CONDUIT TO CEILING
J	FLOOR MOUNTED JUNCTION BOX
	MOTOR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT SWITCH/MAGNETIC MOTOR STARTER
T	TRANSFORMER
	BRANCH CIRCUIT WIRING
	BRANCH CIRCUIT FEEDER
	ELECTRICAL GROUND
	FLEXIBLE EQUIPMENT CONNECTION
	FIXED/HARD - WIRED EQUIPMENT CONNECTION
TC	TIMECLOCK
C	CONTACTOR
	SECURITY SYSTEM CAMERA
DL	SECURITY SYSTEM DOOR LOCK
MD	SECURITY SYSTEM MOTION SENSOR
CR	SECURITY SYSTEM CARD READER
DC	SECURITY SYSTEM DOOR CONTACT
	SECURITY SYSTEM KEY PAD
FS	FLOW SWITCH
TS	TAMPER SWITCH
PS	PRESSURE SWITCH
S	WALL MOUNTED SPEAKER
S	CEILING MOUNTED SPEAKER
IC	INTERCOM STATION
	COMBINATION SPEAKER/CLOCK
	CLOCK

ELECTRICAL LEGEND NOTES:
1. ALL SYMBOLS MAY NOT BE USED.

ABBREVIATIONS

A	AMPERE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
AFG	ABOVE FINISHED GRADE	NL	NIGHT LIGHT
AFI	ARC FAULT CIRCUIT INTERRUPTER	NLE	NEW LOCATION OF EXISTING
AHU	AIR HANDLING UNIT	OHD	OVERHEAD DOOR ELECTRIC OPERATOR
C	CONDUIT	P	POLE
CB	CIRCUIT BREAKER	PE	PRIMARY ELECTRIC SERVICE
CKT	CIRCUIT	PH or Ø	PHASE
CUH	CABINET UNIT HEATER	PNL	PANEL
DAC	DOOR ACCESS CONTROLLER	PVC	POLYVINYL CHLORIDE CONDUIT
EBB	ELECTRIC BASEBOARD	RAP	REMOTE ANNUNCIATOR PANEL
EBU	EMERGENCY BATTERY UNIT	RGS	RIGID GALVANIZED STEEL CONDUIT
EF	EXHAUST FAN	RLE	RELOCATE EXISTING
EM	EMERGENCY POWERED	RTU	ROOFTOP UNIT
EMT	ELECTRICAL METALLIC TUBING	SE	SECONDARY ELECTRIC SERVICE
ETR	EXISTING TO REMAIN	T	TELEPHONE SERVICE
EWC	ELECTRIC WATER COOLER	TV	TELEVISION
EWH	ELECTRIC WATER HEATER	TX	TRANSFORMER
FA	FIRE ALARM	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	W	WIRE
FMC	FLEXIBLE METALLIC TUBING	WAP	WIRELESS ACCESS POINT
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
KVA	KILOVOLT-AMP		

ELECTRICAL GENERAL NOTES

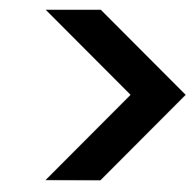
1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. ALL HOMERUNS SHALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE NOTED.
11. ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE ALLOWED.
13. FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.
14. RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.
15. EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE". LOCKS SHALL BE KEYED ALIKE.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.
17. ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.
18. ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND ABOVE CEILINGS.
19. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.
23. ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.
24. CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.
25. WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.
26. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICATED ON PLAN.
27. BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.
28. ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.
29. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
30. ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.
31. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK. SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.
32. ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
33. IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
34. SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC.
35. CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
36. PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
37. ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.
38. ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).
39. SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED. SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

GENERAL LINETYPES

	THICK, DARK LINES INDICATE NEW OR RELOCATED ITEMS
	THIN, LIGHT LINES INDICATE EXISTING ITEMS TO REMAIN IN PLACE AND BE REUSED
— — — —	ON DEMOLITION DRAWINGS, THICK, DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED
	POINT OF NEW TO EXISTING CONNECTION, INCLUDING TRANSITIONS

LIGHTING FIXTURE NOTES

1. TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.
2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.



EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K..
4. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

ELECTRICAL DEMOLITION NOTES

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
11. THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.

IT/SECURITY NOTES

1. INDICATION HERE OF TEL/COM, SECURITY AND ACCESS CONTROL EQUIPMENT IS FOR COORDINATION PURPOSES ONLY. COORDINATE ACTUAL LOCATIONS, QUANTITIES AND ADDITIONAL REQUIREMENTS WITH RESPECTIVE VENDOR.
2. SECURITY CAMERAS AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
3. ACCESS CONTROL DEVICES AND WIRING PROVIDED BY OTHERS. PROVIDE BACKBOX WITH 1" CONDUIT TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND WIRING REQUIREMENTS WITH SECURITY VENDOR.
4. TELECOMMUNICATIONS DEVICES AND WIRING BY OTHERS. PROVIDE BACKBOX WITH 1"C TO ABOVE CEILING SPACE. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH IT VENDOR.
5. SECURITY AND ACCESS CONTROL PANELS AND ASSOCIATED WIRING BY OTHERS. PROVIDE DUPLEX RECEPTACLE AT SECURITY PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR. PROVIDE QUADRUPLEX RECEPTACLE AT ACCESS CONTROL PANEL LOCATION AS SHOWN FOR USE BY SECURITY VENDOR.
6. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH DOOR HARDWARE TO ENSURE PROPER OPERATION. PROVIDE 120V TO ALL POWER SUPPLIES AS NEEDED TO POWER ELECTRIFIED HARDWARE (ELECTRIC STRIKES, POWER ASSIST, PUSHBUTTON OPENERS, ETC).
7. PROVIDE ANY PATHWAY REQUIRED BETWEEN SECURITY/ACCESS CONTROL PANELS, IT RACK, AND ADMINISTRATIVE OFFICES. COORDINATE WITH OWNER FOR LOCATIONS.
8. PROVIDE 30A TWIST LOCK RECEPTACLE AT IT RACK FOR OWNERS USE IN POWERING OWNER SUPPLIED IT EQUIPMENT (PDU, UPS, ETC).

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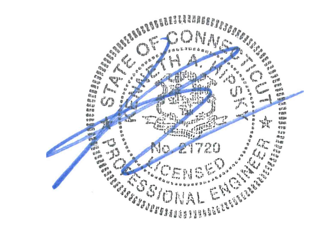
GM2



RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL GENERAL INFORMATION

E0.1

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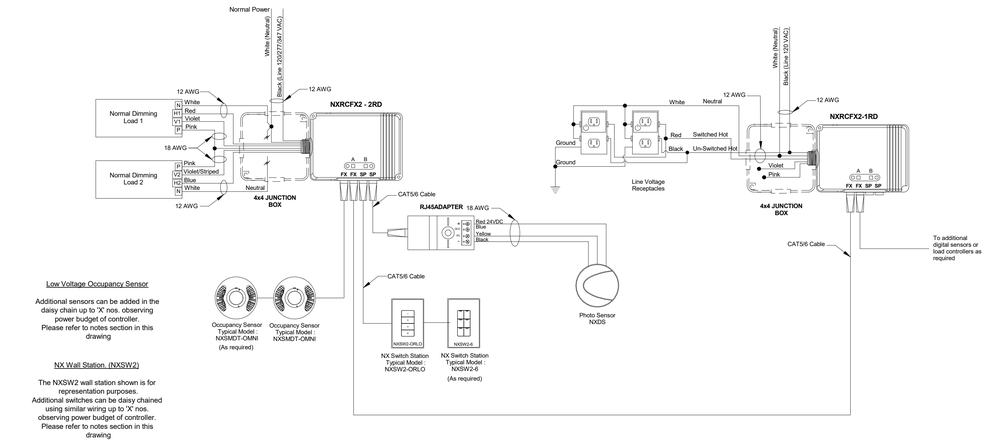
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMPS			VOLTAGE	REMARKS	ALTERNATE 1		ALTERNATE 2	
			LUMENS	WATTAGE	LUMENS/WATT			MANUFACTURER	MODEL	MANUFACTURER	MODEL
A2	COLUMBIA LIGHTING	LCAT22-S-35L036G-ED1U	3642 lm	25 W	144 lm/W	120 V	RECESSED 2X2	LITHONIA	STACK		
A2E	COLUMBIA LIGHTING	LCAT22-S-35L036G-ED1U-ELL14	3642 lm	25 W	144 lm/W	120 V	RECESSED 2X2 W/EM	LITHONIA	STACK		
A4	COLUMBIA LIGHTING	LCAT24-S-35L058G-ED1U	5879 lm	39 W	153 lm/W	120 V	RECESSED 2X4	LITHONIA	STACK		
B4	PICASSO	MX4-RF-4-D5-35-80-FWF-T2-ZT1-W	2000 lm	22 W	93 lm/W	120 V	4' RECESSED LINEAR	MARK	SLOT		
B4E	PICASSO	MX4-RF-4-D5-35-80-FWF-T2-ZT1-W-EMD	2000 lm	22 W	93 lm/W	120 V	4' RECESSED LINEAR W/EM	MARK	SLOT		
B6	PICASSO	MX4-RF-6-D5-35-80-FWF-T2-ZT1-W	3000 lm	32 W	93 lm/W	120 V	6' RECESSED LINEAR	MARK	SLOT		
B6E	PICASSO	MX4-RF-6-D5-35-80-FWF-T2-ZT1-W-EMD	3000 lm	32 W	93 lm/W	120 V	6' RECESSED LINEAR W/EM	MARK	SLOT		
C	DMF	M4NCRN-MD12935GAO-M4TRSWH	1250 lm	14 W	87 lm/W	120 V	4" DOWNLIGHT	LITHONIA	LDN4		
C1	DMF	M4NCRN-MD12930GAO-M4TRSWH	1250 lm	14 W	87 lm/W	120 V	4" DOWNLIGHT 30K	LITHONIA	LDN4		
C1E	DMF	M4NCRN12OEM-MD12930GAA-M4TRSWH	1250 lm	14 W	87 lm/W	120 V	4" DOWNLIGHT 30K W/EM	LITHONIA	LDN4		
CE	DMF	M4NCRN12OEM-MD12935GAA-M4TRSWH	1250 lm	14 W	87 lm/W	120 V	4" DOWNLIGHT W/EM	LITHONIA	LDN4		
D4	COLUMBIA LIGHTING	MPS4-35ML-CW-ED1U	4941 lm	31 W	158 lm/W	120 V	4' SUSPENDED LINEAR PROVIDE CM48SCF3-KIT	LITHONIA	CSS		
D4E	COLUMBIA LIGHTING	MPS4-35ML-CW-ED1U-ELL14	4941 lm	31 W	158 lm/W	120 V	4' SUSPENDED LINEAR W/EM PROVIDE CM48SCF3-KIT	LITHONIA	CSS		
D8	COLUMBIA LIGHTING	MPS8-35ML-CW-ED1U	9882 lm	62 W	161 lm/W	120 V	8' SUSPENDED LINEAR PROVIDE CM48SCF3-KIT	LITHONIA	CSS		
D8E	COLUMBIA LIGHTING	MPS8-35ML-CW-ED1U-ELL14	9882 lm	62 W	161 lm/W	120 V	8' SUSPENDED LINEAR W/EM PROVIDE CM48SCF3-KIT	LITHONIA	CSS		
F2	ARANCIA	C81-24-S-N-A-U-1-0-TBD	4640 lm	58 W	80 lm/W	120 V	2' SURFACE ROUND	LUMENWERX	POP COLOR ROUND		
F2E	ARANCIA	C81-24-S-N-A-U-B-0-TBD	4640 lm	58 W	80 lm/W	120 V	2' SURFACE ROUND W/EM	LUMENWERX	POP COLOR ROUND		
G	COLUMBIA LIGHTING	MPS4-35ML-CW-ED1U	4941 lm	31 W	158 lm/W	120 V	CLOSET LIGHT. WALL MOUNT OVER DOOR	LITHONIA	CSS		
H4	LIGHTLY	VEIL2X4-ALN-GC01-M35Z	3094 lm	37 W	83 lm/W	120 V	DECORATIVE 2X4				
J1	BETA CALCO	TMRP2P01-LMA0320-LMB0240-CR80-CTA35-CTB35-UD2-V1-DA01-SS1-FA01-CF01-E0-CS1	5600 lm	55 W	102 lm/W	120 V	18" SUSPENDED ROUND	LUMENWERX	POP CORE ROUND		
J2	BETA CALCO	TMRP2P02-LMA0530-LMB0240-CR80-CTA35-CTB35-UD2-V1-DA01-SS1-FA01-CF01-E0-CS1	7700 lm	72 W	107 lm/W	120 V	24" SUSPENDED ROUND	LUMENWERX	POP CORE ROUND		
J2E	BETA CALCO	TMRP2P02-LMA0530-LMB0240-CR80-CTA35-CTB35-UD2-V1-DA01-SS1-FA01-CF01-E1-CS1	7700 lm	72 W	107 lm/W	120 V	24" SUSPENDED ROUND	LUMENWERX	POP CORE ROUND		
K2	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD	4593 lm	38 W	121 lm/W	120 V	KITCHEN 2X2	LITHONIA	CPX		
K2E	COLUMBIA LIGHTING	CBT22-A-LSCS-EDD-ELL14	4593 lm	38 W	121 lm/W	120 V	KITCHEN 2X2 W/EM	LITHONIA	CPX		
L	LIGHTHEADED	C3P-R-6-CC-CC-B60-35-9010-P-120-3C-8	1500 lm	13 W	115 lm/W	120 V	3" PENDANT	LUMENWERX	AERA 3"		
M	KUZCO	LP302005MBBG	2000 lm	53 W	38 lm/W	120 V	DECORATIVE CONF RM FIXTURE				
SL3	KIM	UR20-24L-25-3K7-3-UNV-ASQ-BLT-CLR	2959 lm	25 W	118 lm/W	120 V	POLE LIGHT	LITHONIA	RADEAN		
SL4	KIM	UR20-24L-25-3K7-4W-UNV-ASQ-BLT-CLR	3067 lm	25 W	123 lm/W	120 V	POLE LIGHT	LITHONIA	RADEAN		
SL5	KIM	UR20-24L-25-3K7-5QM-UNV-ASQ-BLT-CLR	2837 lm	25 W	113 lm/W	120 V	POLE LIGHT	LITHONIA	RADEAN		
WP3	AXIS	EX2WD-500-90-30K-ASO-3-CC-120-DP-1-HMD-BR	1500 lm	15 W	102 lm/W	120 V	3' EXTERIOR MULLION MOUNT W/EM	LUMENWERX	VIA 2 SEAL		
WP6	AXIS	EX2WD-500-90-30K-ASO-6-CC-120-DP-1-HMD-BR	3000 lm	29 W	102 lm/W	120 V	6' EXTERIOR MULLION MOUNT W/EM	LUMENWERX	VIA 2 SEAL		
XC1	EVENLITE	TS-EM-R-U-W		5 W		120 V	CEILING MOUNT SINGLE FACE EXIT SIGN	ISOLITE	LP		
XC1H	EVENLITE	TSCT-EM-R-U-W		5 W		120 V	CEILING MOUNT SIGNLE FACE EXIT SIGN WITH CT APPROVED HC SYMBOL	ISOLITE	LP-CTMA		
XW1	EVENLITE	TS-EM-R-U-W		5 W		120 V	WALL MOUNT SINGLE FACE EXIT SIGN	ISOLITE	LP		
XW1H	EVENLITE	TSCT-EM-R-U-W		5 W		120 V	WALL MOUNT SINGLE FACE EXIT SIGN WITH CT APPROVED HC SYMBOL	ISOLITE	LP-CTMA		



1 TYPICAL CONTROL DIAGRAM
12" = 1'-0"

Sequence of Operations Matrix

	OCCUPANCY SENSOR					TIME CLOCK			WALL SWITCH						DAY LIGHT RESPONSIVE CONTROL	RECEPTACLE CONTROL	OTHER			
	VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	OCCUPANCY MODE (AFTER HOUR OPERATION)	SENSOR TIME OUT PERIOD (MINUTES)	DUAL TECHNOLOGY	SCHEDULE ON TIME	SCHEDULE OFF TIME	SCHEDULE OVERRIDE SWITCH	MANUAL (ON/OFF)	MANUAL DIMMING	WALL OCCUPANCY SWITCH (AUTO ON W/ OVERRIDE)	TOUCH SCREEN (ON/OFF/DIM/SCENES)	PILOT SWITCH				PHOTO CELL	EXTERIOR LOCATION	WIRELESS	NETWORKED
GROSS MOTOR ROOM	X		X	20	X	TBD	TBD		X	X						X				X
CLASSROOM	X			20	X				X	X					X	X				
CONFERENCE ROOM	X			20	X				X	X						X				
CORRIDOR			X	20	X	TBD	TBD													X
CUSTODIAN	X				X				X							X				
KITCHEN	X		X	20	X	TBD	TBD		X											X
RECEPTION	X		X	20	X	TBD	TBD		X	X						X				X
NURSE	X		X	20	X	TBD	TBD		X	X						X				
OFFICES	X			20	X				X	X					X	X				
SINGLE STALL RESTROOMS		X		20	X						X									
SITE LIGHTING						DUSK	9:30P	X									X	X	X	X
BREAK/WORK ROOM		X		20	X				X						X	X				
STORAGE ROOMS		X		20	X						X									
UTILITY ROOMS									X											

General Notes:
1. Lighting Control panel to be interconnected with BMS System.
2. Provide Contacts for Fire Alarm input in Lighting Control Panel & Program the Networked lights to be on to full brightness.
3. Provide Site lighting control panel with BMS integration capability or Provide Separate contacts to support BMS integration.

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STATE OF CONNECTICUT
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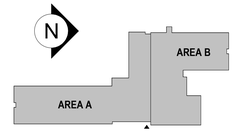
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

LIGHTING FIXTURE SCHEDULE

E1.0

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1 FIRST FLOOR LIGHTING PLAN - AREA A
1/8" = 1'-0"

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EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR LIGHTING PLAN - AREA A

E1.1A

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
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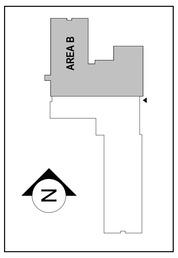
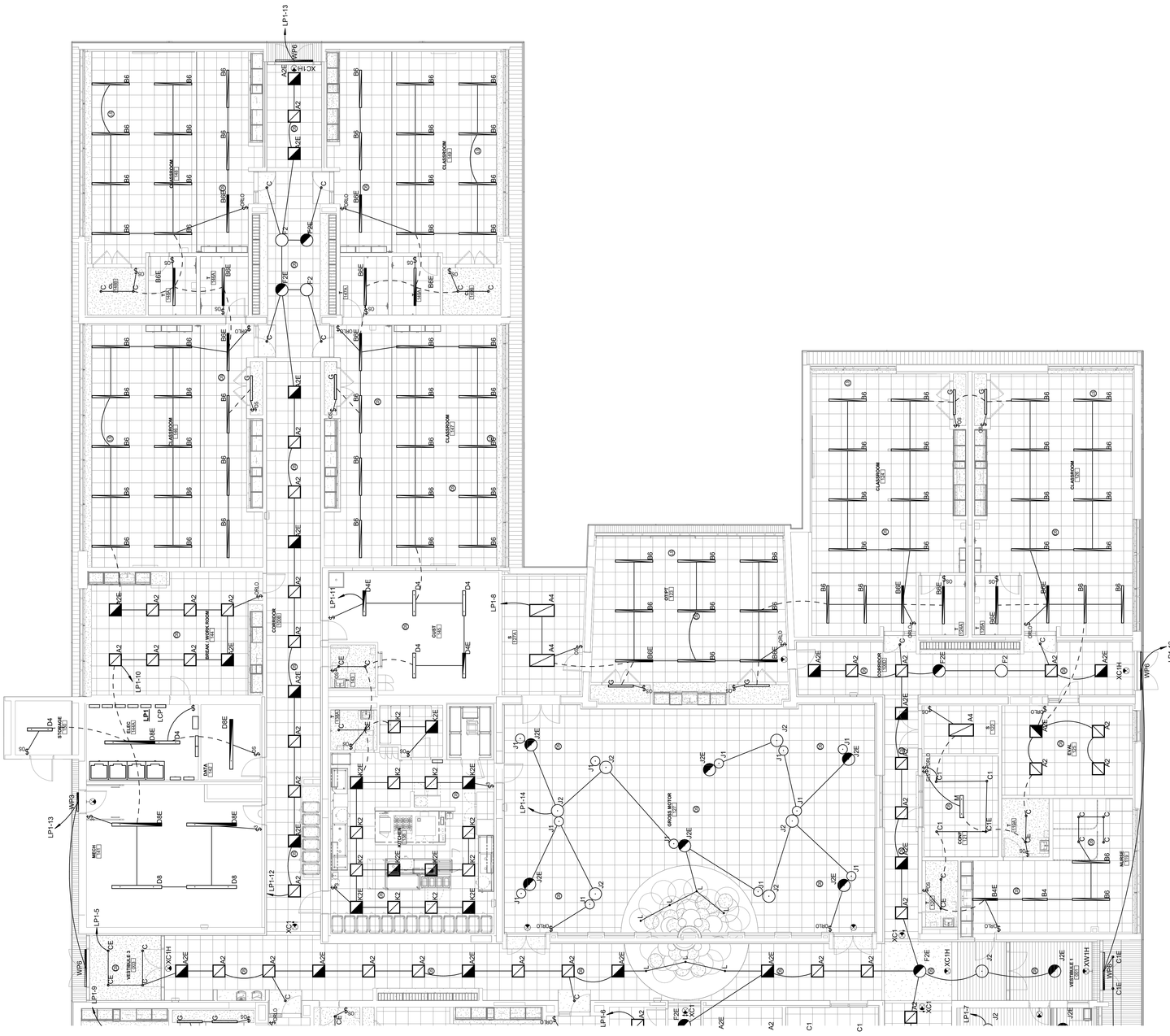


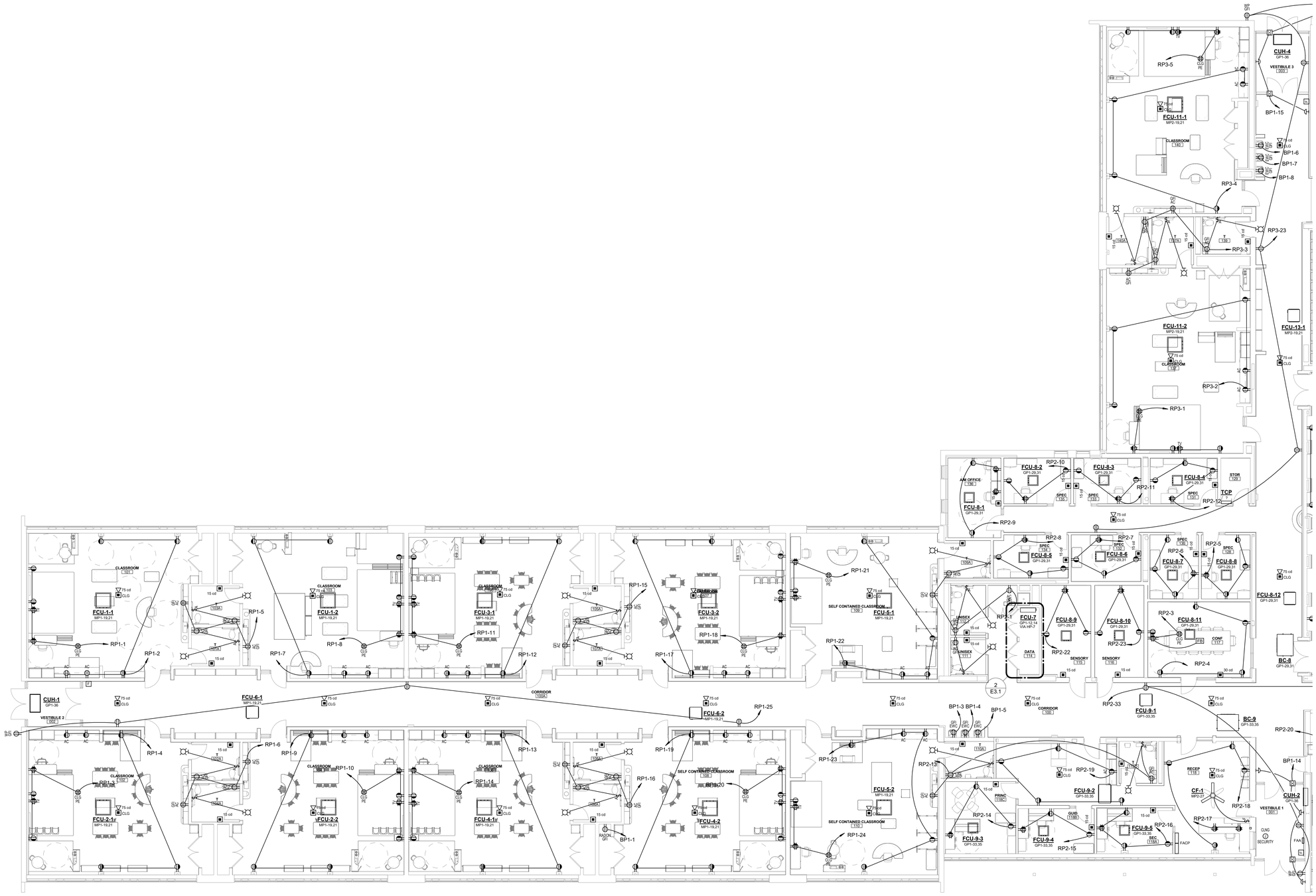
CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR
LIGHTING PLAN -
AREA B

E1.1B



1 FIRST FLOOR LIGHTING PLAN - AREA B
1/8" = 1'-0"



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

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RENOVATIONS TO:
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345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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AREA A

CONSTRUCTION DOCUMENTS
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FIRST FLOOR POWER PLAN - AREA A

E2.1A

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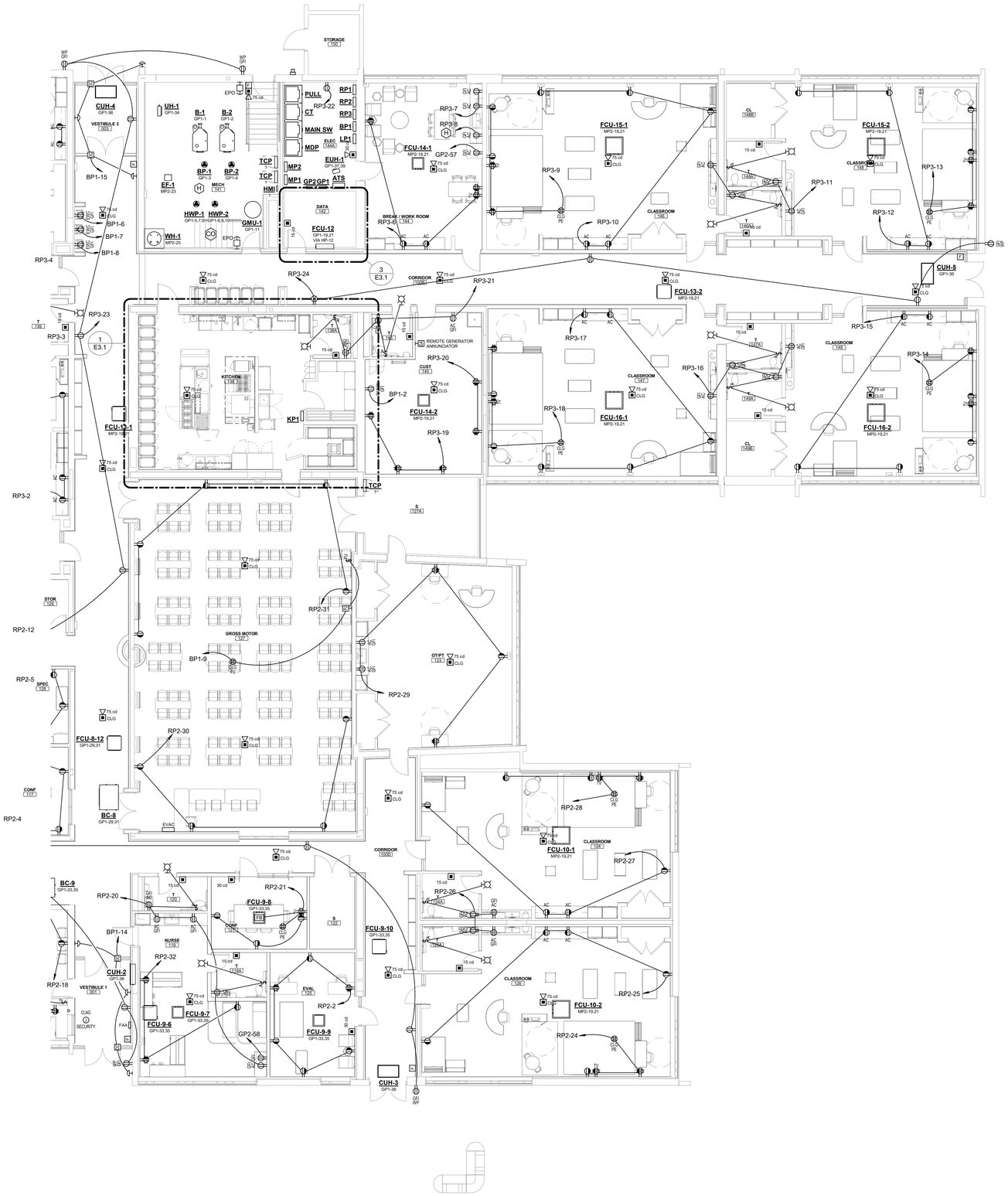

1 FIRST FLOOR POWER PLAN - AREA B
1/8" = 1'-0"

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STATE OF CONNECTICUT
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EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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AREA A

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

FIRST FLOOR POWER PLAN - AREA B

E2.1B

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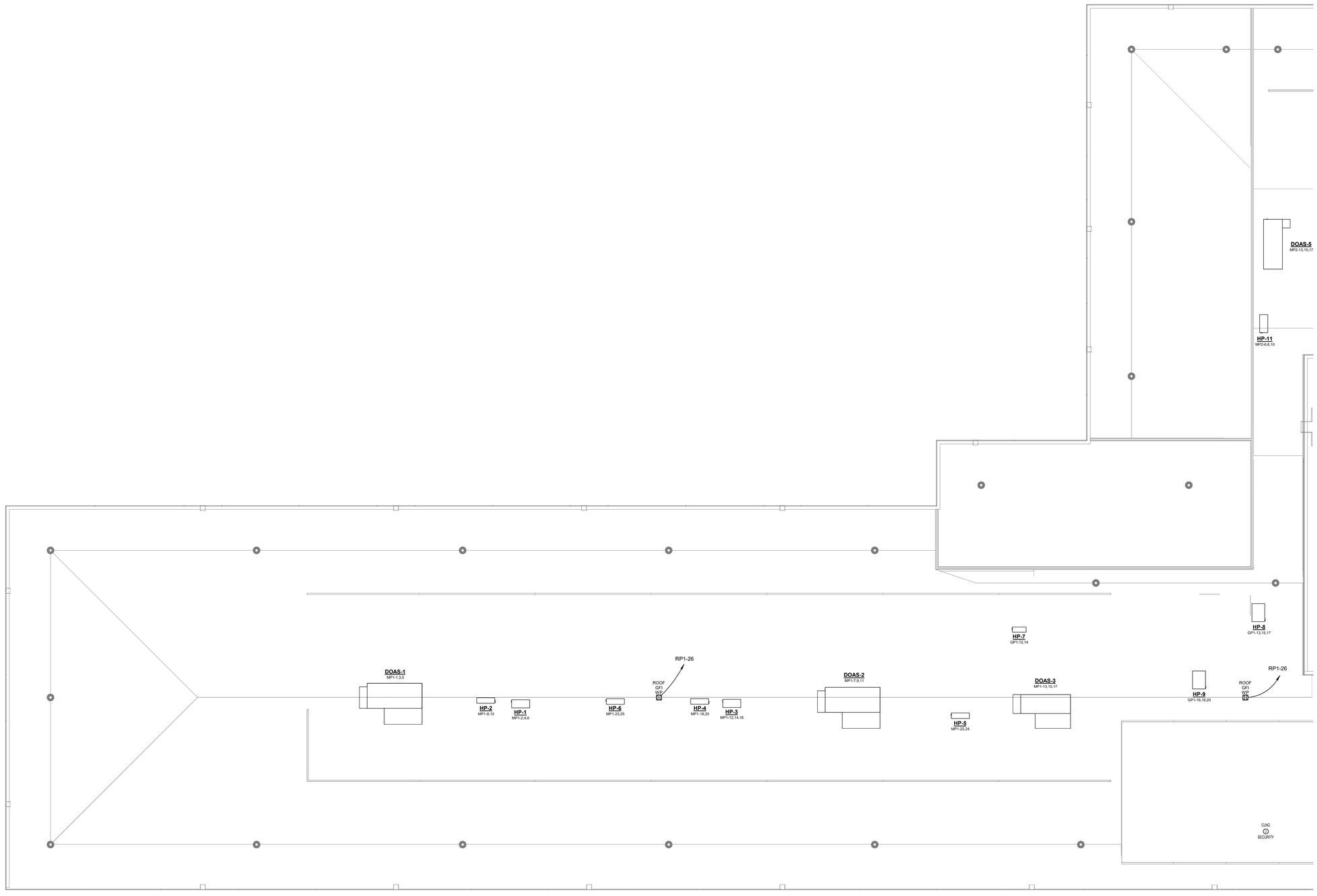

1 ELECTRICAL ROOF PLAN - AREA A
1/8" = 1'-0"

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
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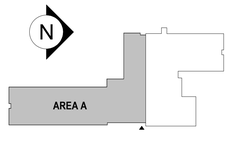

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ROOF POWER PLAN - AREA A

E2.2A

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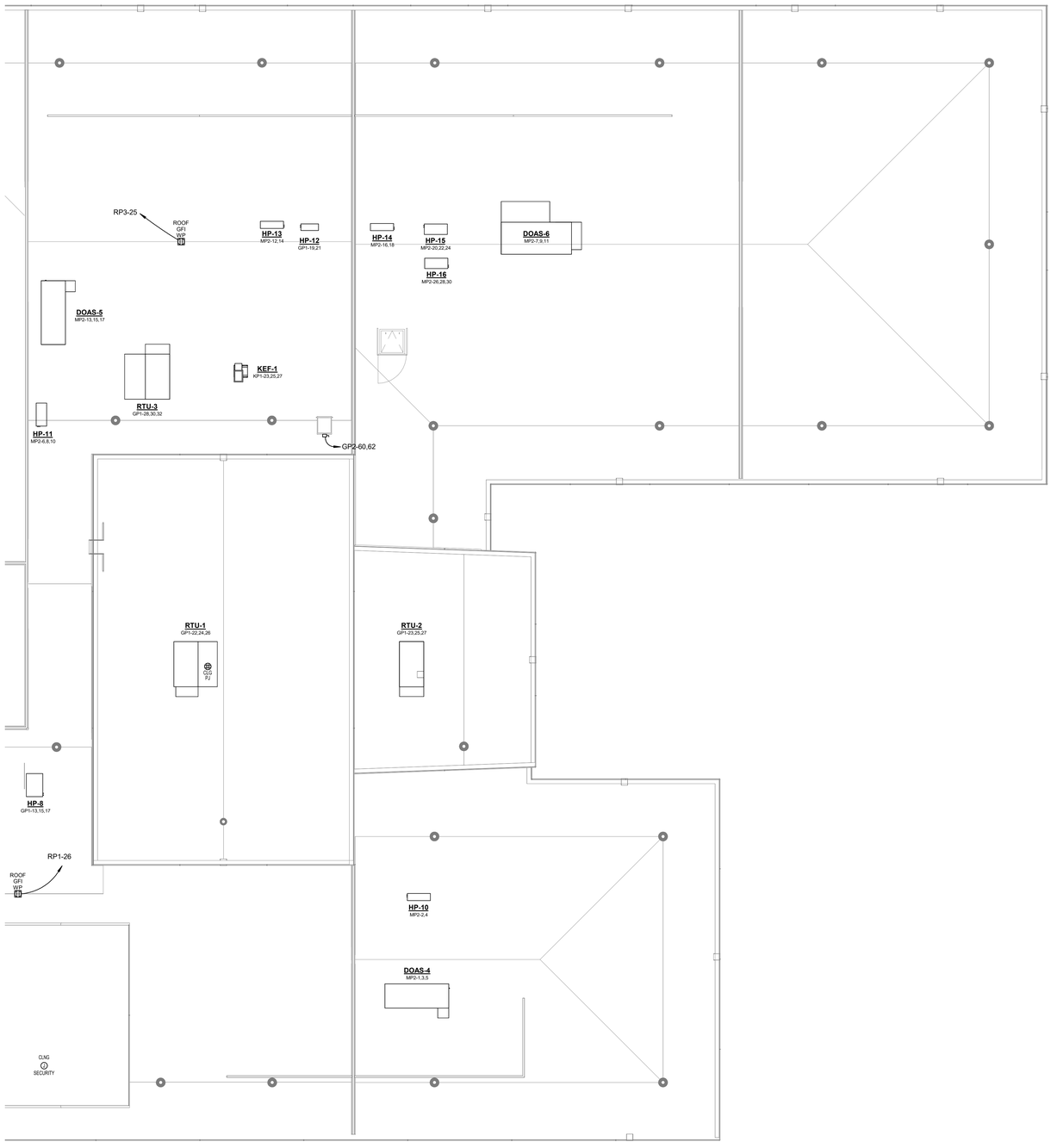

1 ELECTRICAL ROOF PLAN - AREA B
1/8" = 1'-0"

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
Project #:25064

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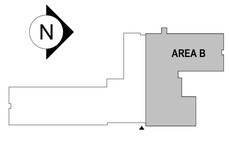

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ROOF POWER PLAN - AREA B

E2.2B

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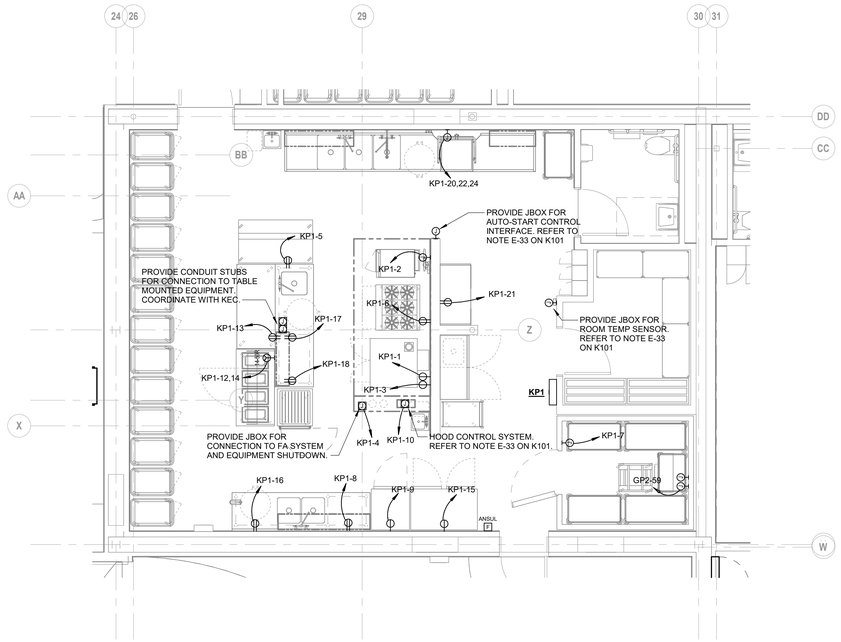
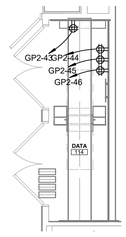
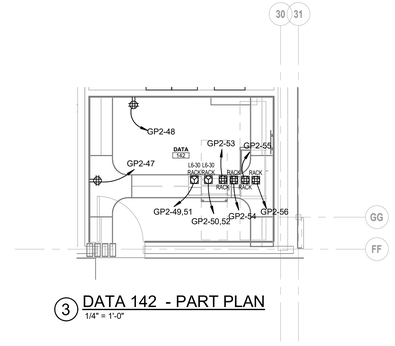


1 FIRST FLOOR POWER KITCHEN PART PLAN - AREA B
1/4" = 1'-0"



2 DATA 114 - PART PLAN
1/4" = 1'-0"



3 DATA 142 - PART PLAN
1/4" = 1'-0"

KITCHEN EQUIPMENT NOTES

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL KITCHEN EQUIPMENT CONNECTION DEVICES WITH FOOD SERVICE DRAWINGS AND KITCHEN EQUIPMENT CONTRACTOR.
2. PROVIDE RECEPTACLES WITH NEMA CONFIGURATION AS INDICATED ON FOOD SERVICE DRAWINGS OR AS REQUIRED BY MANUFACTURER.
3. ALL 20A/1P RECEPTACLES INSTALLED IN KITCHEN AREA SHALL BE PROTECTED BY LISTED GFCI PROTECTION DEVICE.
4. HOOD EXHAUST FANS TO BE WIRED THROUGH SWITCH PROVIDED INTEGRAL WITH HOOD. HOOD LIGHTS FURNISHED BY HOOD MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR PER MANUFACTURERS INSTRUCTIONS.
5. SOLENOID IN ELECTRONIC GAS VALVES PROVIDED BY PLUMBING CONTRACTOR TO BE INTERLOCKED WITH FAN SWITCH PROVIDED INTEGRAL WITH HOOD AND FIRE SUPPRESSION SYSTEM IN ORDER TO SHUT RESPECTIVE GAS VALVES WHEN EXHAUST FAN IS NOT RUNNING OR WHEN FIRE SUPPRESSION SYSTEM HAS BEEN ACTIVATED. REFER TO PLUMBING DRAWINGS FOR VALVE LOCATION.
6. REFER TO FOOD SERVICE DRAWINGS FOR ALL INTERCONNECTIONS BETWEEN EQUIPMENT, INCLUDING, BUT NOT LIMITED TO, WALK-IN COOLERS, COMPRESSORS, HOOD, EXHAUST FANS, FIRE SUPPRESSION SYSTEM, ETC.
7. ALL WORK SHOWN AS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR ON THE FOOD SERVICE DRAWINGS SHALL BE INCLUDED, WHETHER SHOWN ON THIS DRAWING OR NOT. CAREFUL COORDINATION SHALL BE MADE BETWEEN THE FOOD SERVICE DRAWINGS AND ALL TRADES TO INSURE PROPER OPERATION OF ALL EQUIPMENT, INCLUDING HOOD FIRE SUPPRESSION SYSTEM AND THE SEQUENCE OF OPERATIONS OF SUCH EQUIPMENT.

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STATE OF CONNECTICUT — No. 27229 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

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CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL PART PLANS

E3.1

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EQUIPMENT COORDINATION SCHEDULE

NOTE: REFER TO WIRE SCHEDULE FOR CONDUCTOR SIZING FOR EACH PIECE OF EQUIPMENT.

	EQUIPMENT INFORMATION					CIRCUIT INFORMATION				CONTROL			STARTER			DISCONNECT			
TAG	FLA	MCA	MOCP	VOLT	PH	PANEL	NO.	APPARENT LOAD	LOAD CLASSIFICATION	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	REMARKS
B-1	6 A	7.5 A	0 A	120 V	1	GP1	1	720 VA	HEAT	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
B-2	6 A	7.5 A	0 A	120 V	1	GP1	2	720 VA	HEAT	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
BC-8	0.1 A	0.1 A	0 A	208 V	1	GP1	29,31	27 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
BC-9	0.1 A	0.1 A	0 A	208 V	1	GP1	33,35	27 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
BP-1	16 A	20 A	30 A	115 V	1	GP1	3	1,840 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
BP-2	16 A	20 A	30 A	115 V	1	GP1	4	1,840 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
CF-1	0.2 A	0.3 A	0 A	120 V	1	MP2	27	25 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
CUH-1	0.6 A	0.8 A	0 A	120 V	1	GP1	36	72 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
CUH-2	0.6 A	0.8 A	0 A	120 V	1	GP1	36	72 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
CUH-3	0.6 A	0.8 A	0 A	120 V	1	GP1	36	72 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
CUH-4	0.6 A	0.8 A	0 A	120 V	1	GP1	36	72 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
CUH-5	0.6 A	0.8 A	0 A	120 V	1	GP1	36	72 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
DOAS-1	53 A	57 A	70 A	208 V	3	MP1	1,3,5	19,094 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DOAS-2	86 A	92 A	110 A	208 V	3	MP1	7,9,11	30,983 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DOAS-3	45 A	51 A	70 A	208 V	3	MP1	13,15,17	16,212 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DOAS-4	35 A	39 A	50 A	208 V	3	MP2	1,3,5	12,609 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DOAS-5	35 A	39 A	50 A	208 V	3	MP2	13,15,17	12,609 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
DOAS-6	58 A	62 A	70 A	208 V	3	MP2	7,9,11	20,895 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
EF-1	1.5 A	1.9 A	15 A	120 V	1	MP2	23	98 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
EUH-1	14.4 A	18 A	0 A	208 V	1	GP1	37,39	3,000 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
FCU-1-1	0.9 A	0.9 A	0 A	208 V	1	MP1	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-1-2	0.9 A	0.9 A	0 A	208 V	1	MP1	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-2-1	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-2-2	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-3-1	0.9 A	0.9 A	0 A	208 V	1	MP1	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-3-2	0.9 A	0.9 A	0 A	208 V	1	MP1	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-4-1	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-4-2	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-5-1	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-5-2	0.6 A	0.6 A	0 A	208 V	1	MP1	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-6-1	1.9 A	1.9 A	0 A	208 V	1	MP1	19,21	391 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-6-2	1.9 A	1.9 A	0 A	208 V	1	MP1	19,21	391 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-7	0 A	0 A	0 A	208 V	1	GP1	12,14	0 VA	AC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
FCU-8-1	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-2	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-3	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-4	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-5	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-6	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-7	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-8	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-9	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-10	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-11	0.4 A	0.4 A	0 A	208 V	1	GP1	29,31	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-8-12	1.2 A	1.2 A	0 A	208 V	1	GP1	29,31	243 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-1	1.9 A	1.9 A	0 A	208 V	1	GP1	33,35	395 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-2	2.5 A	2.5 A	0 A	208 V	1	GP1	33,35	520 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-3	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-4	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-5	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-6	1.9 A	1.9 A	0 A	208 V	1	GP1	33,35	395 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-7	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-8	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-9	0.4 A	0.4 A	0 A	208 V	1	GP1	33,35	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-9-10	1.9 A	1.9 A	0 A	208 V	1	GP1	33,35	395 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-10-1	0.6 A	0.6 A	0 A	208 V	1	MP2	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-10-2	0.6 A	0.6 A	0 A	208 V	1	MP2	19,21	119 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-11-1	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-11-2	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-12	0 A	0 A	0 A	208 V	1	GP1	19,21	0 VA	AC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
FCU-13-1	1.9 A	1.9 A	0 A	208 V	1	MP2	19,21	391 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-13-2	1.9 A	1.9 A	0 A	208 V	1	MP2	19,21	391 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-14-1	0.4 A	0.4 A	0 A	208 V	1	MP2	19,21	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-14-2	0.4 A	0.4 A	0 A	208 V	1	MP2	19,21	75 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-15-1	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-15-2	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-16-1	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
FCU-16-2	0.9 A	0.9 A	0 A	208 V	1	MP2	19,21	189 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
GMU-1	7.2 A	9 A	20 A	120 V	1	GP1	11	864 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	CB	DIV. 26	DIV. 26	
HP-1	25.5 A	32 A	58 A	208 V	3	MP1	2,4,6	9,187 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-2	36 A	45 A	80 A	208 V	1	MP1	8,10	7,488 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-3	25.5 A	32 A	58 A	208 V	3	MP1	12,14,16	9,187 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-4	36 A	45 A	80 A	208 V	1	MP1	18,20	7,488 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-5	36 A	45 A	80 A	208 V	1	MP1	22,24	7,488 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-6	28 A	36 A	64 A	208 V	1	MP1	23,25	5,824 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-7	12 A	16 A	27 A	208 V	1	GP1	12,14	2,496 VA	AC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-8	40.8 A	51 A	80 A	208 V	3	GP1	13,15,17	14,699 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-9	48 A	60 A	100 A	208 V	3	GP1	16,18,20	17,293 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-10	36 A	45 A	80 A	208 V	1	MP2	2,4	7,488 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-11	25.5 A	32 A	58 A	208 V	3	MP2	6,8,10	9,187 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-12	17.3 A	24 A	39 A	208 V	1	GP1	19,21	3,598 VA	AC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-13	28.4 A	36 A	64 A	208 V	1	MP2	12,14	5,907 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-14	28.4 A	36 A	64 A	208 V	1	MP2	16,18	5,907 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-15	25.5 A	32 A	58 A	208 V	3	MP2	20,22,24	9,187 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HP-16	25.5 A	32 A	58 A	208 V	3	MP2	26,28,30	9,187 VA	HVAC	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HWP-1	24.2 A	30.3 A	50 A	208 V	3	GP1	5,7,9	8,718 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
HWP-2	24.2 A	30.3 A	50 A	208 V	3	GP1	6,8,10	8,718 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	
KEF-1	4.6 A	5.8 A	15 A	208 V	3	KP1	23,25,27	1,657 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
RTU-1	44 A	50 A	70 A	208 V	3	GP1	22,24,26	15,852 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
RTU-2	25 A	27 A	35 A	208 V	3	GP1	23,25,27	9,007 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
RTU-3	45 A	52 A	80 A	208 V	3	GP1	28,30,32	16,212 VA	HVAC	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
UH-1	0.7 A	0.9 A	0 A	120 V	1	GP1	34	86 VA	HEAT	BMS	DIV. 23	DIV. 23	SPP	MANUF.	MANUF.	NFS	MANUF.	MANUF.	
WH-1	5 A	6.3 A	0 A	120 V	1	MP2	25	600 VA	HEAT	AC	MANUF.	DIV. 23	SPP	MANUF.	MANUF.	NFS	DIV. 26	DIV. 26	

CONTROL TYPES

TYPE	DESCRIPTION
AC	AUTOMATIC CONTROLLER
BMS	BUILDING MANAGEMENT SYSTEM

STARTER TYPES

TYPE	DESCRIPTION
SPP	SINGLE POINT POWER

DISCONNECT TYPES

TYPE	DESCRIPTION
CB	CIRCUIT BREAKER
NFS	NON-FUSED SWITCH

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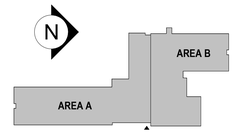
GM2

STATE OF CONNECTICUT
MICHAEL P. MALIK
No. 17729
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

EQUIPMENT COORDINATION SCHEDULE

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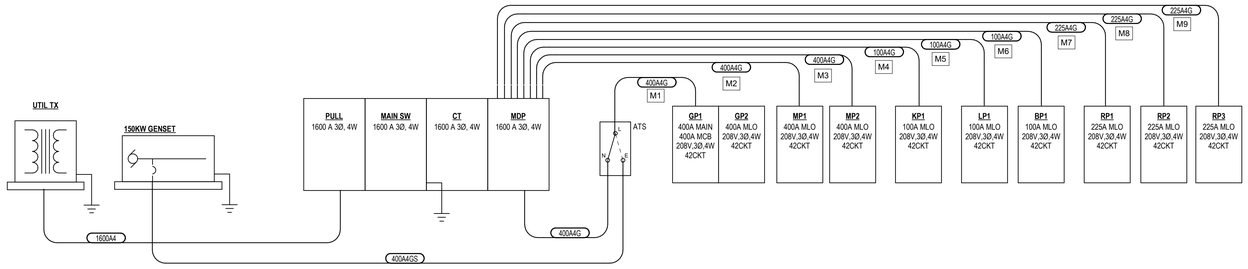

1 POWER RISER DIAGRAM
1/2" = 1'-0"

FEEDER SCHEDULE	
KEY	CONDUIT & CONNECTORS
100A4G	2" C - 4#1, 1#8G
225A4G	2-1/2" C - 4#4/0, 1#4G
400A4G	2 [2" C - 4#3/0, 1#3G]
400A4GS	2 [4" C - 4#3/0, 1#3G]
1600A4	5 [4" C - 4#400]

E-MON D-MON METER SCHEDULE

TAG	MAKE/MODEL	VOLTAGE/PHASE	LOAD MONITORED
M1	E-mon D-mon class 3200 smart meter	208V/3PH	GENERATOR
M2	E-mon D-mon class 3200 smart meter	208V/3PH	HVAC
M3	E-mon D-mon class 3200 smart meter	208V/3PH	HVAC
M4	E-mon D-mon class 3200 smart meter	208V/3PH	KITCHEN
M5	E-mon D-mon class 3200 smart meter	208V/3PH	LIGHTING
M6	E-mon D-mon class 3200 smart meter	208V/3PH	BUILDING OPS
M7	E-mon D-mon class 3200 smart meter	208V/3PH	RECEPTS
M8	E-mon D-mon class 3200 smart meter	208V/3PH	RECEPTS
M9	E-mon D-mon class 3200 smart meter	208V/3PH	RECEPTS

LOAD CONSUMPTION SHALL BE REPORTED TO BMS AS FOLLOWS:	
GENERATOR LOAD	M1
HVAC LOAD	M2
HVAC LOAD	M3
BUILDING OPERATIONS LOAD	M4
LIGHTING LOAD	M5
BUILDING OPERATIONS LOAD	M6
RECEPTACLE LOAD	M7
RECEPTACLE LOAD	M8
RECEPTACLE LOAD	M9

2 METER SCHEDULE AND NOTES
12" = 1'-0"

THE ADVANCED ENERGY METERING MUST HAVE THE FOLLOWING CHARACTERISTICS:

- METERS MUST BE PERMANENTLY INSTALLED, RECORD AT INTERVALS OF ONE HOUR OR LESS, AND TRANSMIT DATA TO A REMOTE LOCATION.
- ELECTRICITY METERS MUST RECORD BOTH CONSUMPTION AND DEMAND. WHOLE-BUILDING ELECTRICITY METERS SHOULD RECORD THE POWER FACTOR, IF APPROPRIATE.
- THE DATA COLLECTION SYSTEM MUST USE A LOCAL AREA NETWORK, BUILDING AUTOMATION SYSTEM, WIRELESS NETWORK, OR COMPARABLE COMMUNICATION INFRASTRUCTURE.
- THE SYSTEM MUST BE CAPABLE OF STORING ALL METER DATA FOR AT LEAST 36 MONTHS.
- THE DATA MUST BE REMOTELY ACCESSIBLE.
- ALL METERS IN THE SYSTEM MUST BE CAPABLE OF REPORTING HOURLY, DAILY, MONTHLY, AND ANNUAL ENERGY USE.

ELECTRIC METER:

THE CONTROLLER (BMS) SHALL MONITOR THE ELECTRIC METER FOR ELECTRIC CONSUMPTION ON A CONTINUAL BASIS (REAL TIME DEMAND). THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES. ALARM SHALL BE GENERATED AS FOLLOWS:
- METER ALARM: SENSOR READING INDICATES AN INVALID VALUE FROM THE ELECTRIC METER.

PEAK DEMAND HISTORY:

THE CONTROLLER(BMS) SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE ELECTRIC METER. PEAK READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

USAGE HISTORY:

THE CONTROLLER(BMS) SHALL MONITOR AND RECORD ELECTRIC METER READINGS SO AS TO PROVIDE A POWER CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

DEMAND LEVELS:

THE CONTROLLER (BMS) SHALL SET THE SYSTEM DEMAND LEVEL (ADJ.) BASED ON THE CURRENT POWER CONSUMPTION READINGS FROM THE ELECTRIC METER. THERE SHALL BE SIX DAILY TIME PERIODS IN WHICH THE DEMAND SHALL BE ADJUSTED ON THREE LEVELS. THESE DEMAND LEVELS SHALL BE AVAILABLE FOR FACILITY EQUIPMENT TO UTILIZE FOR DEMAND LIMITING.
- DEMAND LEVEL 1: POWER CONSUMPTION HAS EXCEEDED THE FIRST DEMAND LEVEL THRESHOLD (ADJ.).
- DEMAND LEVEL 2: POWER CONSUMPTION HAS EXCEEDED THE SECOND DEMAND LEVEL THRESHOLD (ADJ.).
- DEMAND LEVEL 3: POWER CONSUMPTION HAS EXCEEDED THE THIRD DEMAND LEVEL THRESHOLD (ADJ.).

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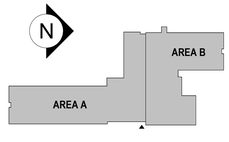
GM2

STATE OF CONNECTICUT — MICHAEL J. SKIBA — No. 27729 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL RISER DIAGRAM

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SWITCHBOARD: MAIN SW

LOCATION: ELEC 144A
VOLTAGE: 120/208 Wye
MAIN DEVICE: 1600 A
AIC RATING:
BUS AMPS:
SPECIAL:

MAIN SECTION

C.T. COMPARTMENT: CURRENT TRANSFORMER, POTENTIAL TRANSFORMER
CUSTOMER POWER QUALITY METER

MAIN DEVICE

	FRAME	POLES	BREAKER	SPECIAL	DESCRIPTION/NAMEPLATE
		3	1600		

DISTRIBUTION SECTION No. 1

CKT	Rating	POLES	Load	DESCRIPTION/NAMEPLATE	NOTES
1	400 A	3	115,201 VA	MP1	
2	400 A	3	96,005 VA	MP2	
3	225 A	3	33,880 VA	KP1	
4	400 A	3	124,469 VA	GP1	
5	225 A	3	26,820 VA	RP1	
6	225 A	3	30,780 VA	RP2	
7	225 A	3	22,500 VA	RP3	
8	225 A	3	17,440 VA	BP1	
9	225 A	3	17,552 VA	LP1	
10					
11					
12					

LOAD SUMMARY

SWBD LOAD	CONN. LOAD
MDP	484,646 VA

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
AC	6,094 VA	100.00%	6,094 VA		
HEAT	26,603 VA	0.01%	3 VA		
HVAC	289,465 VA	100.00%	289,465 VA		
KTCH	31,768 VA	65.00%	20,649 VA		
LITES	17,552 VA	125.00%	21,940 VA		
Other	0 VA	0.00%	0 VA		
RCPT	89,940 VA	55.56%	49,970 VA	**CONN. LOAD:**	484,646 VA
SPEC	23,224 VA	100.00%	23,224 VA	**EST. DEMAND LOAD:**	411,345 VA
				CONN. CURRENT:	1345.2 A
				EST. DEMAND CURRENT:	1141.8 A

NOTES:

Branch Panel: MP1

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1					6.4	3.1						2
3	DOAS-1		70 A	3		6.4	3.1	3	40 A		HP-1	4
5							6.4	3.1				6
7					10.3	3.7						8
9	DOAS-2		110 A	3		10.3	3.7	2	60 A		HP-2	10
11							10.3	3.1				12
13					5.4	3.1						14
15	DOAS-3		70 A	3		5.4	3.1	3	40 A		HP-3	16
17							5.4	3.7				18
19	FCUs 1 THRU 6		15 A	2	1.1	3.7		2	60 A		HP-4	20
21						1.1	3.7					22
23	HP-6		50 A	2			2.9	3.7	2	60 A	HP-5	24
25					2.9							26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
			Total Load:		39.7 kVA	36.8 kVA	38.6 kVA					
			Total Amps:		333.5 A	307 A	324.1 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	115,201 VA	100.00%	115,201 VA		
				Total Conn. Load:	115,201 VA
				Total Est. Demand:	115,201 VA
				Total Conn.:	319.8 A
				Total Est. Demand:	319.8 A

Notes:

Branch Panel: MP2

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1					4.2	3.7		2	60 A		HP-10	2
3	DOAS-4		50 A	3		4.2	3.7					4
5							4.2	3.1	3	40 A	HP-11	6
7					7.0	3.1						8
9	DOAS-6		70 A	3		7.0	3.1					10
11							7.0	3.0	2	50 A	HP-13	12
13					4.2	3.0						14
15	DOAS-5		50 A	3		4.2	3.0	2	50 A		HP-14	16
17							4.2	3.0				18
19	FCUs 10 THRU 16		15 A	2	1.2	3.1		3	40 A		HP-15	20
21						1.2	3.1					22
23	EF-1 MECH 141		20 A	1			0.1	3.1				24
25	WH-1 MECH 141		20 A	1	0.6	3.1						26
27	CF-1 RECEP 117		20 A	1		0.0	3.1	3	50 A		HP-16	28
29								3.1				30
31												32
33												34
35												36
37												38
39												40
41												42
			Total Load:		33.0 kVA	32.4 kVA	30.6 kVA					
			Total Amps:		277.5 A	272.7 A	254.7 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	95,405 VA	100.00%	95,405 VA		
HEAT	600 VA	0.01%	0 VA	**Total Conn. Load:**	96,005 VA
				Total Est. Demand:	95,405 VA
				Total Conn.:	266.5 A
				Total Est. Demand:	264.8 A

Notes:

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GM2

STATE OF CONNECTICUT
MICHAEL L. OLSEN
No. 27229
LICENSED
PROFESSIONAL ENGINEER

RENOVATIONS TO:
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345 MIX STREET
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State Project #: 017-0090 RNV
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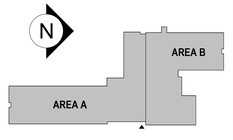

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PANEL SCHEDULES

E5.1

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Branch Panel: BP1

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	RADON RCPT STORAGE 108B		20 A	1	0.2	0.2		1	20 A		RADON RCPT CUST 145	2
3	EWC RCPT CORRIDOR 100		20 A	1	0.6	0.6		1	20 A		EWC RCPT CORRIDOR 100	4
5	EWC RCPT CORRIDOR 100		20 A	1			0.6	0.6	1	20 A		EWC RCPT CORRIDOR 100	6
7	EWC RCPT CORRIDOR 100		20 A	1	0.6	0.6			1	20 A		EWC RCPT CORRIDOR 100	8
9	PROJECTOR & SCREEN ROOM 127		20 A	1		0.6	3.1		2	40 A	EV CHARGER		10
11	EV CHARGER		40 A	2			3.1	3.1					12
13					3.1	0.2			1	20 A		DOOR OPERATORS	14
15	DOOR OPERATORS		20 A	1		0.2							16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
				Total Load:	4.9 kVA	5.1 kVA	7.4 kVA					
				Total Amps:	40.7 A	43 A	62.3 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
RCPT	4,200 VA	100.00%	4,200 VA	**Total Conn. Load:**	17,440 VA
SPEC	13,240 VA	100.00%	13,240 VA	**Total Est. Demand:**	17,440 VA
				Total Conn.:	48.4 A
				Total Est. Demand:	48.4 A

Notes:

Branch Panel: LP1

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	POLE LITES		20 A	1	0.7	1.7		1	20 A		LITES ROOM 101, 103, 105, 107	2
3	LITES ROOM 102, 104, 106, 108		20 A	1			1.7	1.1	1	20 A		LITES ROOM 100A, 002	4
5	LITES ROOM 100, 100C, 001, 100D, 00...		20 A	1				1.6	1.2	1	20 A	LITES ROOM 109, 111, 112, 115, 134,...	6
7	LITES ROOM 110, 117, 117B, 117C,...		20 A	1	1.0	1.7				1	20 A	LITES ROOM 125, 118, 126, 124, 121,...	8
9	LITES ROOM 139, 137, 137A, 140A, 14...		20 A	1			1.0	1.6		1	20 A	LITES ROOM 141, 148B, 144, 142, 144...	10
11	LITES ROOM 145, 138, 143, 138A, 149,...		20 A	1					1.8	0.6	1	20 A	LITES CORRIDOR 100B	12
13	EXT BLDG MTD LITES		20 A	1	0.2	1.6					1	20 A	LITES GROSS MOTOR 127	14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42
				Total Load:	7.0 kVA	5.3 kVA	5.3 kVA					
				Total Amps:	58.1 A	44.4 A	43.9 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LITES	17,552 VA	125.00%	21,940 VA		
				Total Conn. Load:	17,552 VA
				Total Est. Demand:	21,940 VA
				Total Conn.:	48.7 A
				Total Est. Demand:	60.9 A

Notes:

Branch Panel: GP1

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	B-1 MECH 141		20 A	1	0.7	0.7		1	20 A		B-2 MECH 141	2
3	BP-1 MECH 141		30 A	1		1.8	1.8	1	30 A		BP-2 MECH 141	4
5							2.9	2.9					6
7	HWP-1 MECH 141		50 A	3	2.9	2.9			3	50 A	HWP-2 MECH 141		8
9						2.9	2.9						10
11	GMU-1 MECH 141		20 A	1			0.9	1.2					12
13					4.9	1.2			2	20 A	HP-7, FCU-7		14
15	HP-8		60 A	3		4.9	5.8						16
17							4.9	5.8	3	80 A	HP-9		18
19	HP-12, FCU-12		30 A	2	1.8	5.8							20
21						1.8	5.3						22
23							3.0	5.3	3	70 A	RTU-1		24
25	RTU-2		35 A	3	3.0	5.3							26
27						3.0	5.4						28
29	FCUs 8		15 A	2			0.5	5.4	3	80 A	RTU-3		30
31					0.5	5.4							32
33	FCUs 9		15 A	2		1.1	0.1		1	20 A	UH-1 MECH 141		34
35							1.1	0.4	1	20 A	CUHs VESTIBULES		36
37	EUH-1 ELEC 144A		20 A	2	1.5								38
39						1.5							40
41													42
				Total Load:	43.7 kVA	44.4 kVA	36.4 kVA					
				Total Amps:	373.5 A	379.3 A	303.2 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	77,202 VA	100.00%	77,202 VA		
RCPT	3,960 VA	100.00%	3,960 VA	**Total Conn. Load:**	124,469 VA
SPEC	9,984 VA	100.00%	9,984 VA	**Total Est. Demand:**	98,468 VA
KTCH	1,225 VA	100.00%	1,225 VA	**Total Conn.:**	345.5 A
HEAT	26,003 VA	0.01%	3 VA	**Total Est. Demand:**	273.3 A
AC	6,094 VA	100.00%	6,094 VA		

Notes:
PROVIDE FEED THRU LUGS TO SUPPLY PANEL GP2

Branch Panel: GP2

Location: ELEC 144A
Supply From: GP1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
43	SECURITY RCPT DATA 114		20 A	1	0.4	0.4		1	20 A		RCPT DATA 114	44
45	RCPT DATA 114		20 A	1			0.4	0.4	1	20 A		RCPT DATA 114	46
47	SECURITY RCPT DATA 142		20 A	1				0.4	0.4	1	20 A	PA RCPT DATA 142	48
49	RACK DATA 142		30 A	2	2.5	2.5				2	30 A	RACK DATA 142	50
51							2.5	2.5					52
53	RACK RCPT DATA 142		20 A	1				0.4	0.4	1	20 A	RACK RCPT DATA 142	54
55	RACK RCPT DATA 142		20 A	1	0.4	0.4				1	20 A	RACK RCPT DATA 142	56
57	FRIDGE RCPT BREAK / WORK ROOM...		20 A	1			0.2	0.2		1	20 A	UC FRIDGE RCPT NURSE 118	58
59	WALK IN EVAP UNIT		20 A	1					0.1	0.6	2	20 A	WALK IN COND UNIT	60
61						0.6								62
63														64
65														66
67														68
69														70
71														72
73														74
75														76
77														78
79														80
81														82
83														84
				Total Load:	7.0 kVA	6.1 kVA	2.1 kVA					
				Total Amps:	63.4 A	55.7 A	17.5 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	3,960 VA	100.00%	3,960 VA		
SPEC	9,984 VA	100.00%	9,984 VA	**Total Conn. Load:**	15,169 VA
KTCH	1,225 VA	100.00%	1,225 VA	**Total Est. Demand:**	15,169 VA
				Total Conn.:	42.1 A
				Total Est. Demand:	42.1 A

Notes:
CONNECT TO FEED THRU LUGS IN PANEL GP1

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
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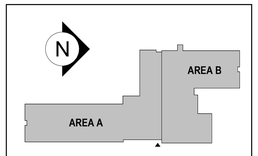
GM2

STATE OF CONNECTICUT
MICHAEL J. MALIK
No. 17729
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PANEL SCHEDULES

E5.2

6/4/2026 2:38:37 PM Autodesk Docs://Bristol Edgewood Pre-K Academy/MEP_25-169 Bristol Edgewood Pre-K Academy.rvt

Branch Panel: RP1

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	RCPT CLASSROOM 101		20 A	1	1.4 0.9			1	20 A		RCPT CLASSROOM 101	2
3	RCPT CLASSROOM 102		20 A	1		1.4 0.9		1	20 A		RCPT CLASSROOM 102	4
5	GFI RCPTS		20 A	1			0.7 0.7	1	20 A		GFI RCPTS	6
7	RCPT CLASSROOM 103		20 A	1	0.9 1.4			1	20 A		RCPT CLASSROOM 103	8
9	RCPT CLASSROOM 104		20 A	1		0.9 1.4		1	20 A		RCPT CLASSROOM 104	10
11	RCPT CLASSROOM 105		20 A	1			1.4 0.9	1	20 A		RCPT CLASSROOM 105	12
13	RCPT CLASSROOM 106		20 A	1	0.9 1.4			1	20 A		RCPT CLASSROOM 106	14
15	GFI RCPTS		20 A	1		0.7 0.7		1	20 A		GFI RCPTS	16
17	RCPT CLASSROOM 107		20 A	1			0.9 1.3	1	20 A		RCPT CLASSROOM 107	18
19	RCPT SELF CONTAINED CLASSROO...		20 A	1	0.9 1.4			1	20 A		RCPT SELF CONTAINED CLASSROO...	20
21	RCPT SELF CONTAINED CLASSROO...		20 A	1		1.3 0.9		1	20 A		RCPT SELF CONTAINED CLASSROO...	22
23	RCPT SELF CONTAINED CLASSROO...		20 A	1			0.9 1.3	1	20 A		RCPT SELF CONTAINED CLASSROO...	24
25	RCPT CORRIDOR 100A		20 A	1	0.7 0.4			1	20 A		ROOF RCPT	26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	10.4 kVA	8.3 kVA	8.1 kVA					
				Total Amps:	87.2 A	69.2 A	67.5 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	26,820 VA	68.64%	18,410 VA		
				Total Conn. Load:	26,820 VA
				Total Est. Demand:	18,410 VA
				Total Conn.:	74.4 A
				Total Est. Demand:	51.1 A

Notes:

Branch Panel: RP2

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	GFI RCPTS		20 A	1	0.9 1.4			1	20 A		RCPT EVAL 115	2
3	RCPT CONF 116		20 A	1		1.3 0.7		1	20 A		RCPT CONF 116	4
5	RCPT SPEC 128		20 A	1			1.1 1.1	1	20 A		RCPT SPEC 130	6
7	RCPT SPEC 132		20 A	1	1.1 0.9			1	20 A		RCPT SPEC 134	8
9	RCPT A/M OFFICE 136		20 A	1		1.1 0.7		1	20 A		RCPT SPEC 135	10
11	RCPT SPEC 133		20 A	1			0.7 0.9	1	20 A		RCPT SPEC 131	12
13	GFI RCPTS		20 A	1	0.5 0.7			1	20 A		RCPT PRINC 117C	14
15	RCPT GUID 117B		20 A	1		0.7 0.9		1	20 A		RCPT SEC 117A	16
17	RCPT RECEP 117		20 A	1			0.7 0.7	1	20 A		RCPT RECEP 117	18
19	RCPT RECEP 117		20 A	1	0.9 0.9			1	20 A		GFI RCPTS	20
21	RCPT CONF 120		20 A	1		1.6 0.7		1	20 A		RCPT SENSORY 126	22
23	RCPT SENSORY 124		20 A	1			0.7 1.3	1	20 A		RCPT CLASSROOM 125	24
25	RCPT CLASSROOM 125		20 A	1	0.7 0.7			1	20 A		GFI RCPTS	26
27	RCPT CLASSROOM 123		20 A	1		0.7 1.4		1	20 A		RCPT CLASSROOM 123	28
29	RCPT OT/PT 122		20 A	1			1.3 0.7	1	20 A		RCPT GROSS MOTOR 127	30
31	RCPT GROSS MOTOR 127		20 A	1	0.9 0.9			1	20 A		RCPT NURSE 118	32
33	RCPT ROOM 100, 001, 100C, 100D		20 A	1		1.1						34
35												36
37												38
39												40
41												42
				Total Load:	10.6 kVA	11.0 kVA	9.2 kVA					
				Total Amps:	90.3 A	93.3 A	76.5 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	30,780 VA	66.24%	20,390 VA		
				Total Conn. Load:	30,780 VA
				Total Est. Demand:	20,390 VA
				Total Conn.:	85.4 A
				Total Est. Demand:	56.6 A

Notes:

Branch Panel: KP1

Location: KITCHEN 138
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	CONVECTION OVEN	GFI	20 A	1	0.1 0.5			1	20 A	GFI	STEAMER	2
3	CONVECTION OVEN	GFI	20 A	1		0.1 0.5		1	20 A		HOOD ANSUL SYSTEM	4
5	RCPT KITCHEN 138	GFI	20 A	1			0.2 0.2	1	20 A	GFI	RANGE	6
7	WALK IN LIGHTS/ALARMS	GFI	20 A	1	1.1 0.2			1	20 A	GFI	RCPT KITCHEN 138	8
9	REACH IN FREEZER	GFI	20 A	1		1.2 1.2		1	20 A		HOOD CONTROL SYSTEM	10
11							2.7	2	50 A	GFI	HEATED SERVING COUNTER	12
13	RCPT KITCHEN 138	GFI	20 A	1	0.2 2.7							14
15	REACH IN FREEZER	GFI	20 A	1		1.3 0.2		1	20 A	GFI	RCPT KITCHEN 138	16
17	RCPT KITCHEN 138	GFI	20 A	1			0.2 0.2	1	20 A	GFI	RCPT KITCHEN 138	18
19					6.4							20
21	RCPT KITCHEN 138	GFI	20 A	1		0.2 6.4		3	70 A	GFI	DISHWASHER	22
23							0.6 6.4					24
25	KEF-1		20 A	3	0.6							26
27						0.6						28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	11.7 kVA	11.7 kVA	10.5 kVA					
				Total Amps:	99.3 A	98.7 A	87.4 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	1,657 VA	100.00%	1,657 VA		
RCPT	1,680 VA	100.00%	1,680 VA	**Total Conn. Load:**	33,880 VA
KTCH	30,542 VA	65.00%	19,853 VA	**Total Est. Demand:**	23,190 VA
				Total Conn.:	94 A
				Total Est. Demand:	64.4 A

Notes:

Branch Panel: RP3

Location: ELEC 144A
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:
If A.I.C. Rating not provided, refer to short circuit analysis requirement in contract specifications.

CKT	Circuit Description	Type	Trip	Poles	A	B	C	Poles	Trip	Type	Circuit Description	CKT
1	RCPT CLASSROOM 137		20 A	1	1.4 0.9			1	20 A		RCPT CLASSROOM 137	2
3	GFI RCPTS		20 A	1		0.9 0.9		1	20 A		RCPT CLASSROOM 140	4
5	RCPT CLASSROOM 140		20 A	1			1.4 1.4	1	20 A		RCPT BREAK / WORK ROOM 144	6
7	RCPT BREAK / WORK ROOM 144		20 A	1	0.4 0.2			1	20 A		RCPT BREAK / WORK ROOM 144	8
9	RCPT CLASSROOM 146		20 A	1		1.4 0.9		1	20 A		RCPT CLASSROOM 146	10
11	GFI RCPTS		20 A	1			0.7 0.7	1	20 A		RCPT CLASSROOM 148	12
13	RCPT CLASSROOM 148		20 A	1	1.4 1.4			1	20 A		RCPT CLASSROOM 149	14
15	RCPT CLASSROOM 149		20 A	1		0.7 0.7		1	20 A		GFI RCPTS	16
17	RCPT CLASSROOM 147		20 A	1			0.9 1.4	1	20 A		RCPT CLASSROOM 147	18
19	RCPT CUST 145		20 A	1	1.1 0.7			1	20 A		RCPT CUST 145	20
21	GFI RCPTS		20 A	1		0.5 0.2		1	20 A		RCPT ELEC 144A	22
23	RCPT ROOM 100E, 100, 003		20 A	1			1.1 0.7	1	20 A		RCPT CORRIDOR 100B	24
25	ROOF RCPT		20 A	1	0.2							26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				Total Load:	7.7 kVA	6.3 kVA	8.5 kVA					
				Total Amps:	66.3 A	52.5 A	72.3 A					

Legend:
Blank = Standard, AFI = Arc Fault Circuit Interrupter, GFI = Ground Fault Circuit Interrupter (6mA), EPD = Equipment Protection Device, ST = Shunt Trip Circuit Breaker, HACR = Heating, Air Conditioning, Refrigeration Circuit Breaker, GFPE=Ground Fault Protection of Equipment (30mA), HO=Handel Lock-On Device, HP= Handle Padlock attachment, N=New Circuit Breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RCPT	22,500 VA	72.22%	16,250 VA		
				Total Conn. Load:	22,500 VA
				Total Est. Demand:	16,250 VA
				Total Conn.:	62.5 A
				Total Est. Demand:	45.1 A

Notes:

QA+M architecture
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195 Scott Swamp Road
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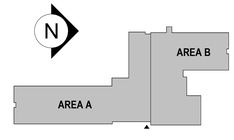
qamarch.com

GM2

STATE OF CONNECTICUT
MICHAEL L. OLSEN
No. 17729
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

PANEL SCHEDULES

E5.3

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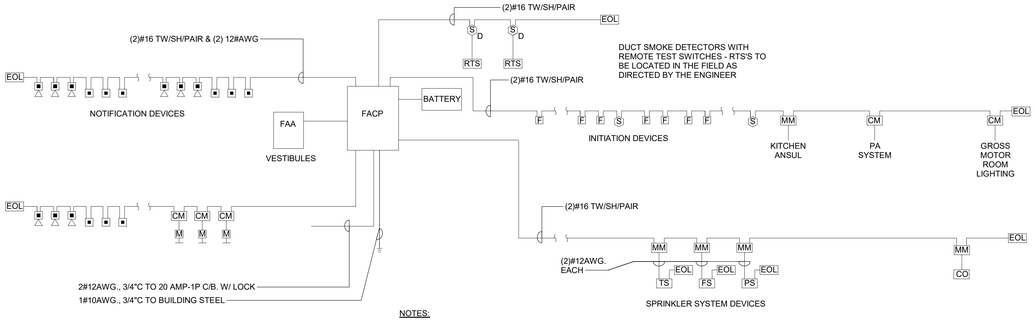


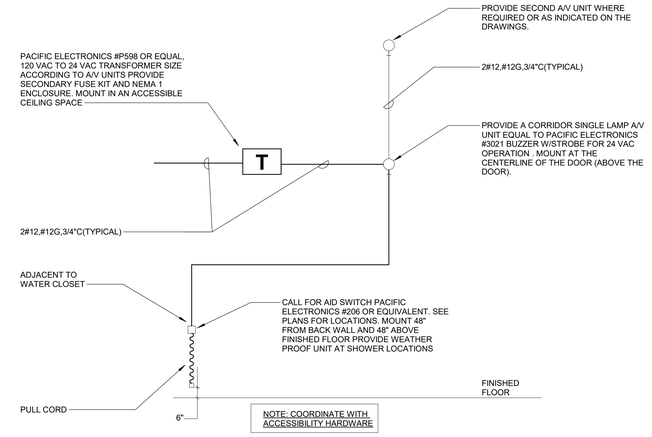
FIRE ALARM SEQUENCE OF OPERATION:

1. ACTIVATION OF ANY MANUAL PULL STATION , AREA SMOKE AND HEAT DETECTOR, COMBINATION SMOKE/CO DETECTOR OR FIRE SUPPRESSION SYSTEM FLOW SWITCH(S) SHALL REPORT TO THE FIRE ALARM CONTROL PANEL (FACP) AN ALARM CONDITION. ALL DOOR HOLD OPENS SHALL RELEASE AND ALL FIRE ALARM CONTROL MODULES SHALL ACTIVATE SOUND SYSTEM OVERRIDES.
2. ACTIVATION OF ANY DUCT DETECTOR SHALL REPORT TO THE FACP A TROUBLE CONDITION TO THE FACP AND SHUTDOWN ASSOCIATED HVAC EQUIPMENT.
3. ACTIVATION OF ANY FIRE SUPPRESSION SYSTEM MONITORING MODULES LOCATED ON TAMPER SWITCHES SHALL REPORT A TROUBLE CONDITION TO THE FACP.
4. ACTIVATION OF ANY "LOCKDOWN" MANUAL PUSH BUTTON SHALL REPORT BUILDING LOCKDOWN CONDITION TO THE FACP. A SPECIFIC PRE-RECORDED MESSAGE FOR LOCKDOWN CONDITION SHALL BE BROADCAST THROUGHOUT THE BUILDING.
5. ACTIVATION OF ANY ELEVATOR LOBBY, HOISTWAY, OR MACHINE SPACE SMOKE DETECTORS SHALL INITIATE ELEVATOR RECALL FOR FIRE FIGHTERS SERVICE AND SHALL PROVIDE ALARM INITIATION. PROVIDE SUPERVISIORY SIGNAL FOR ELEVATOR SHUT-DOWN CONTROL CIRCUITS.
6. ANY ALARM CONDITION OR TROUBLE CONDITION SHALL BE BROADCAST TO THE DISTRICT CENTRAL MONITORING ENTITY VIA A DIALER IN THE FACP. TWO TELEPHONE SHALL BE PROVIDED FOR REDUNDANCY.

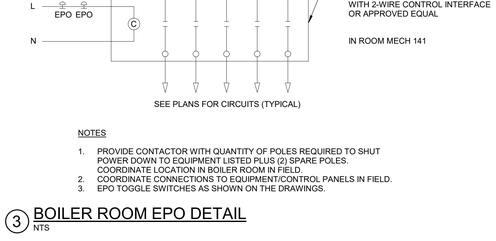
NOTES:

1. ALL WIRING PER MANUFACTURERS RECOMMENDATIONS TO BE INSTALLED IN AN APPROVED RACEWAY SYSTEM.
2. THIS DIAGRAM IS INTENDED TO SHOW THE GENERAL RELATIONSHIP OF DEVICES AND CONTROL PANEL IS NOT INTENDED TO SHOW ALL DEVICES. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATION OF ALL DEVICES.
3. DIVISION 26 CONTRACTOR TO PROVIDE AND SUPPLY ALL DUCT MOUNTED SMOKE DETECTORS TO THE DIVISION 23 CONTRACTOR FOR INSTALLATION IN THE DUCT. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING OF DUCT DETECTORS.

1 FIRE ALARM RISER DIAGRAM 1
NTS



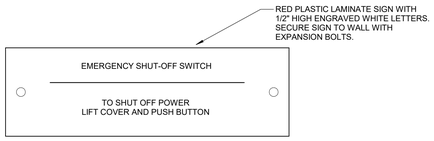
2 TYPICAL CALL FOR AID WIRING DETAIL
NTS

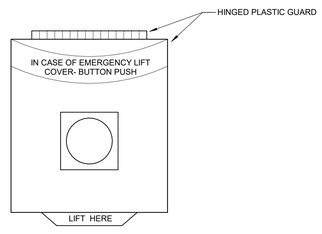


NOTES

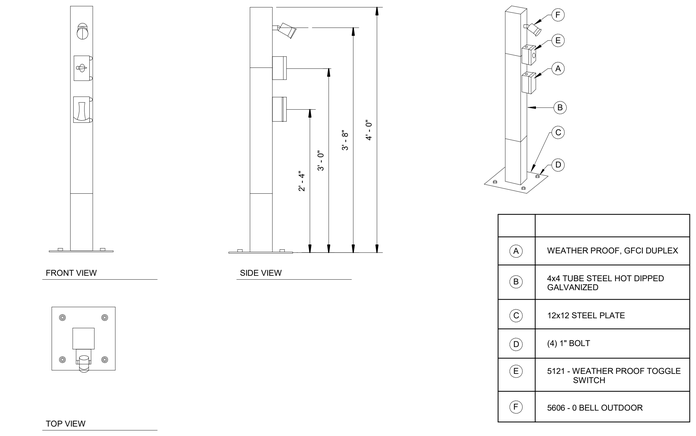
1. PROVIDE CONTACTOR WITH QUANTITY OF POLES REQUIRED TO SHUT POWER DOWN TO EQUIPMENT LISTED PLUS (2) SPARE POLES. COORDINATE LOCATION IN BOILER ROOM IN FIELD.
2. COORDINATE CONNECTIONS TO EQUIPMENT/CONTROL PANELS IN FIELD.
3. EPO TOGGLE SWITCHES AS SHOWN ON THE DRAWINGS.

3 BOILER ROOM EPO DETAIL
NTS





4 EMERGENCEY SHUT-OFF SWITCH WITH PLASTIC GUARD DETAIL
NTS



A	WEATHER PROOF, GFCI DUPLEX
B	4x4 TUBE STEEL HOT DIPPED GALVANIZED
C	12x12 STEEL PLATE
D	(4) 1" BOLT
E	5121 - WEATHER PROOF TOGGLE SWITCH
F	5606 - 0 BELL OUTDOOR

5 ROOF RECEPTACLE PEDESTAL
NOT TO SCALE

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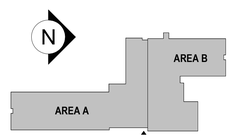
qamarch.com

GM2

STATE OF CONNECTICUT — MICHAEL J. BERRY — No. 27229 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL DETAILS

E6.1

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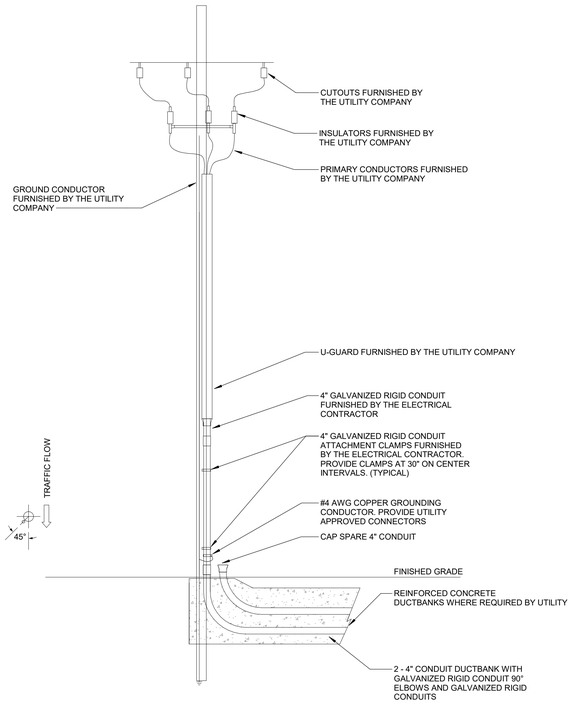
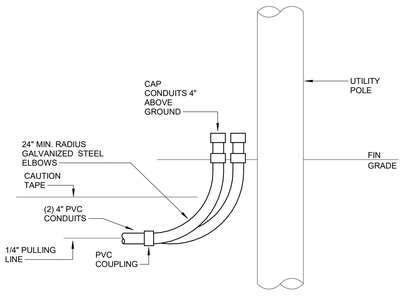


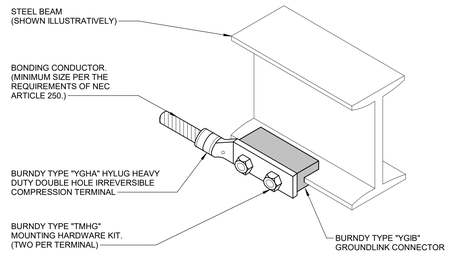
GENERAL NOTES:

1. RIGID CONDUIT RISERS SHALL BE ON THE SIDE OF THE POLE THAT IS AWAY FROM TRAFFIC.
2. CAP SPARE 4" CONDUIT
3. PROVIDE 1/4" PULL ROPE FOR BOTH PRIMARY CONDUITS.

1 PRIMARY POLE RISER DETAIL
NTS



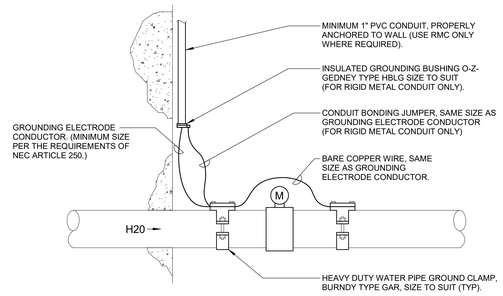
2 PRIMARY RISER POLE CONDUIT DETAIL
NTS



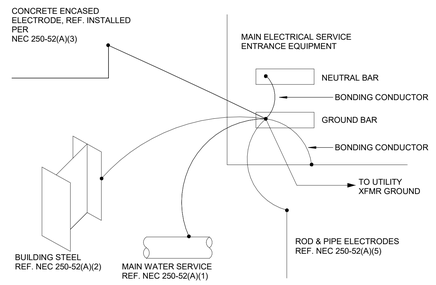
NOTES:

1. WIDE FLANGE BEAM SHOWN. USE WITH OTHER STRUCTURAL ELEMENTS ONLY AS SPECIFIED BY MANUFACTURER.
2. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS, USING MANUFACTURER'S RECOMMENDED INSTALLATION TOOLS.
3. PREPARE BEAM SURFACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4. UPON COMPLETION OF INSTALLATION REPAIR & RESTORE ALL DISTURBED FIREPROOFING AND CORROSION PROTECTION.
5. DETAIL SHOWS ONLY COMPONENT FAMILY TYPES. COORDINATE WITH MANUFACTURER TO DETERMINE EXACT PART NUMBER APPROPRIATE FOR SIZE/TYPE OF EACH BEAM AND BONDING CONDUCTOR.

3 BONDING TO BUILDING STEEL
1/8" = 1'-0"



4 WATER MAIN GROUNDING DETAIL
1/8" = 1'-0"



NOTES:

A. REFER TO GROUNDING ELECTRODE TABLE FOR CONNECTIONS REQUIRED AS RELATED TO THIS PROJECT.

B. ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.

GROUNDING ELECTRODE CONNECTIONS AVAILABILITY AND REQUIREMENTS FOR THIS PROJECT

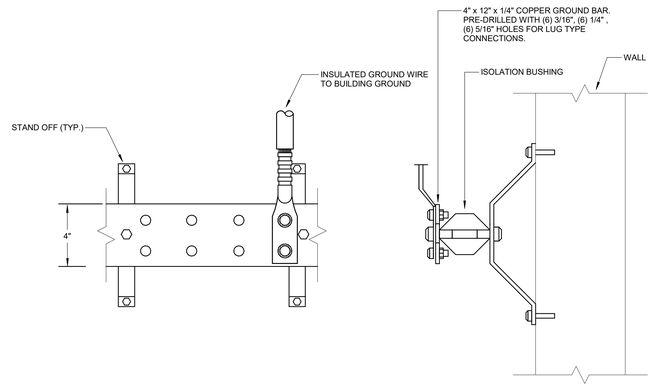
NEC REFERENCE	AVAIL. YES	REQ'D YES	NOTES
250-52(A)(1)	X	X	1
250-52(A)(2)	X	X	1
250-52(A)(3)	X	X	1,4
250-52(A)(4)	X		2
250-52(A)(5)	X	X	2
250-52(A)(6)	X		2
250-52(A)(7)	X		2

GROUNDING ELECTRODE CONDUCTOR SIZE:3/0 AWG COPPER

NOTES:

1. NEC ARTICLE 250-52 INDICATES A PRIORITY LIST OF GROUNDING ELECTRODE CONNECTIONS WITH (1) BEING THE HIGHEST PRIORITY AND (7) BEING THE LOWEST.
2. CONNECTION TO ITEMS MADE UNDER ARTICLE 250-52(A)(4),(5),(6) & (7) SHALL NOT SUBSTITUTE CONNECTIONS TO 250-52 (1), (2), OR (3), UNLESS NONE OF THESE SYSTEMS ARE AVAILABLE.
3. GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL COMPLY WITH NEC ARTICLE 250.53.
4. REFER TO NEC ARTICLE 250.50, EXCEPTION.

5 GROUNDING ELECTRODE SYSTEM DETAIL
NTS



6 GROUNDING BUS BAR DETAIL
NTS

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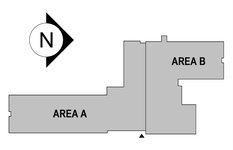
STATE OF CONNECTICUT — MICHAEL J. MALIK — No. 17229 — LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions



CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL DETAILS

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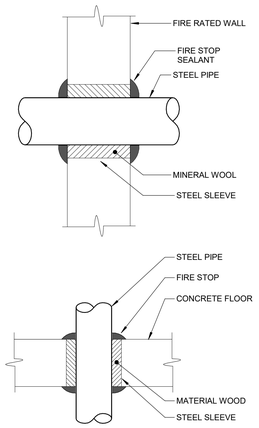
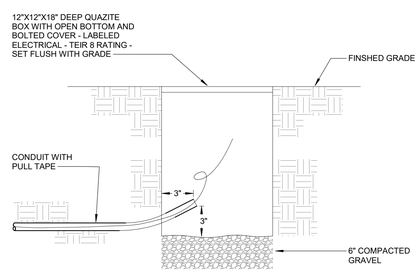


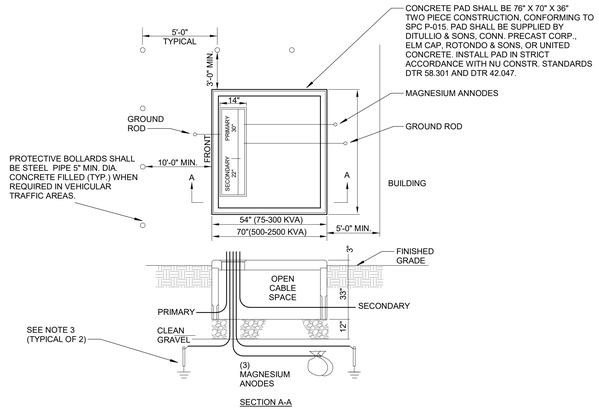
NOTES:

1. 4" STEEL PIPE MAXIMUM (REFER TO FLOOR PLANS FOR SIZE REQUIREMENTS).
2. 6" DIA. OPENING (MAX) WITH STEEL SLEEVE.
3. SLEEVE: 4" OF 4PCF MINERAL WOOL IN OPENING.
4. APPLY FIRE STOP SEALANT THICKNESS MANUFACTURE'S INSTALLATION INSTRUCTIONS. APPLY SEALANT OVER MINERAL WOOL ON EACH SIDE OF PENETRATION.

1 CONDUIT/SLEEVE WALL & FLOOR PENETRATION DETAILS
NTS



2 QUAZITE BOX INSTALLATION DETAIL
NTS

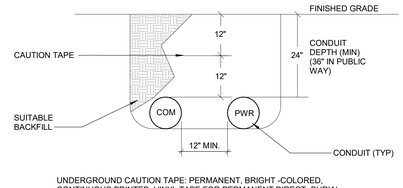


SECTION A-A

NOTES:

1. PRIMARY CABLE:
   A. INSTALL DIRECT - BURIED CABLES A MINIMUM OF 30 INCHES BELOW GRADE.
   B. INSTALL CABLES IN CONDUIT A MINIMUM OF 24 INCHES BELOW GRADE.
   C. LOOP CABLES IN PIT BEFORE MAKING CONNECTIONS.
2. SECONDARY CABLE:
   LEAVE ENOUGH CABLE TO EXTEND 6 FEET ABOVE PAD FOR FUTURE CONNECTING TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS. E.C. TO PROVIDE CABLES ENTERING THROUGH THE REAR KNOCKOUT AND SHALL BE CONFINED TO THE AREA DEFINED AS THE SECONDARY CABLE AREA.
3. COPPER CLAD GROUND RODS-INSTALL IN TRENCH AND CONNECT #2 COPPER CONDUCTORS FROM RODS THROUGH PAD OPENING AND EXTENDING 5 FEET ABOVE PAD. MINIMUM SEPARATION OF GROUND RODS IS 8 FEET.
4. MEET ALL UTILITY COMPANY REQUIREMENTS

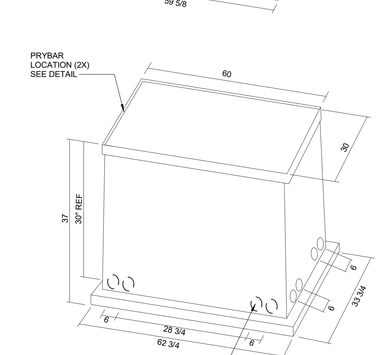
3 TRANSFORMER PAD DETAIL
NTS



UNDERGROUND CAUTION TAPE: PERMANENT, BRIGHT -COLORED, CONTINUOUS PRINTED, VINYL TAPE FOR PERMANENT DIRECT- BURIAL SERVICE, AND WITH THE FOLLOWING FEATURES:

1. NOT LESS THAN 6 INCHES WIDE BY 4 MILS THICK.
2. EMBEDDED CONTINUOUS METALLIC STRIP OR CORE.
3. PRINTED LEGEND THAT INDICATES TYPE OF UNDERGROUND LINE.

4 TRENCH DETAIL
NTS



NOTES:

1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. COLOR: CONCRETE GRAY
3. LOAD RATING: A16(ASTM C857)
4. LOGO: ELECTRIC
5. COVER WEIGHT: 215 LBS
6. BOX WEIGHT: 253 LBS
7. COVER & BOX TOTAL WEIGHT: 478 LBS

5 TYPICAL PRIMARY CABLE HANDHOLE
NTS

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RENOVATIONS TO:

EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT 06010

State Project #: 017-0090 RNV
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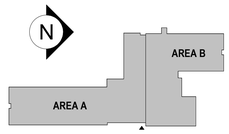

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL DETAILS

E6.3

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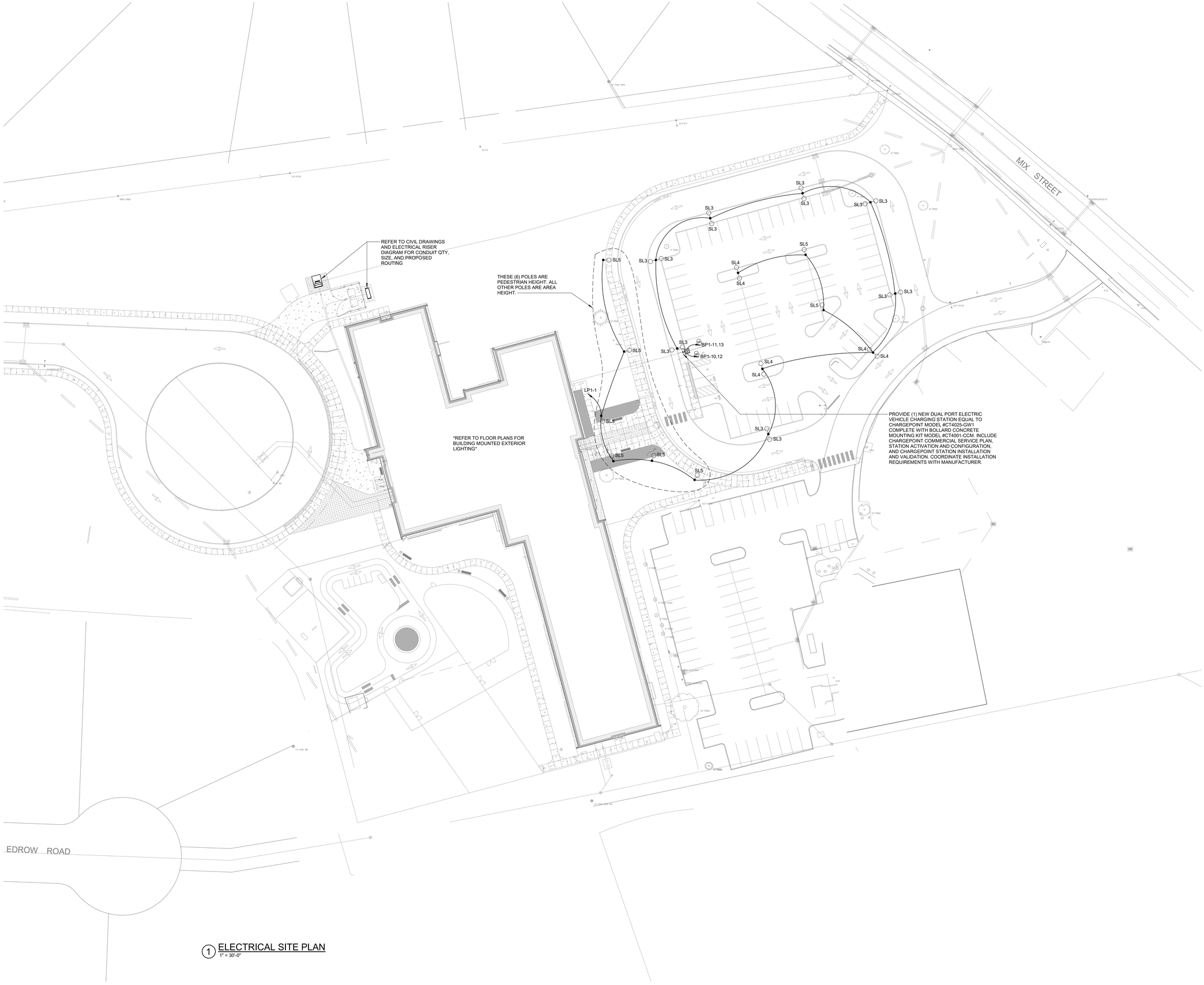

1 ELECTRICAL SITE PLAN
1" = 30'-0"

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STATE OF CONNECTICUT
JOSEPH M. MARSH
No. 27729
LICENSED PROFESSIONAL ENGINEER

RENOVATIONS TO:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT 06010
State Project #: 017-0090 RNV
Project #:25064

Revisions

AREA A
AREA B

CONSTRUCTION DOCUMENTS
JUNE 5, 2026

ELECTRICAL SITE PLAN

ES1.1

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COMMUNICATION CABLING INFRASTRUCTURE

REFER TO SPECIFICATION SECTION 27 1000 FOR DEVICES

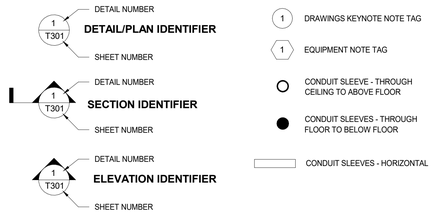
		OUTLET BOX & CONDUIT SIZES PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR								CABLE & TERMINATION PROVIDED & INSTALLED BY LOW VOLTAGE CONTRACTOR									
SYMBOL	DESCRIPTION	MOUNTING AFF UNLESS OTHERWISE NOTED	1 G - 2-1/2" DP	4 x 4" x 2-1/8" DP	1G DEVICE RING	1" C	CHIEF #PAC525FCW	LEGRAND #EFSB4		CAT6A PLENUM CABLE	8P8C (RJ45) JACK - CAT6A	FACEPLATE - DATA	WALL PHONE MTG PLATE	HUBBELL #HBB2WP						COMMMENTS
W ▶	WALL PHONE OUTLET	48" AFF	1		1	1				1	1		1							
1D ▷	1 DATA OUTLET	18" AFF		1	1	1				1	1	1								
2D ▷	2 DATA OUTLET	18" AFF		1	1	1				2	2	1								
3D ▷	3 DATA OUTLET	18" AFF		1	1	1				3	3	1								
4D ▷	4 DATA OUTLET	18" AFF		1	1	1				4	4	1								
1V1D ▶▷	1 VOICE - 1 DATA OUTLET	18" AFF		1	1	1				2	2	1								
1V2D ▶▷	1 VOICE - 2 DATA OUTLET	18" AFF		1	1	1				3	3	1								
2V2D ▶▷	2 VOICE - 2 DATA OUTLET	18" AFF		1	1	1				4	4	1								
1V ▶	1 VOICE OUTLET	18" AFF		1	1	1				1	1	1								
#V #D ▷	FLOOR BOX					A/R				A/R	A/R	1								REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX CONDUIT REQUIREMENTS. # - DENOTES QTY OF CABLES
#V #D ▷	CEILING MOUNTED BOX			1	1	A/R				A/R	A/R	1								CEILING MOUNTED DEVICES. # - DENOTES QTY OF CABLES
APC ▶	WIRELESS ACCESS POINT CEILING MOUNTED									2	2			1						CEILING MOUNTED AP SHALL HAVE A 15FT SERVICE LOOP AND LOCATED AT APPROXIMATE LOCATIONS SHOWN ON PLANS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
AP ▶	WIRELESS ACCESS POINT WALL MOUNTED		1		1	1				2	2			1						
▬◀	ETHERNET CABLE FOR CAMERA			1	1					1	1			1						INCLUDE 10 FT SERVICE LOOP FOR CABLING. CONFIRM NO OBSTRUCTIONS BLOCK THE INTENDED CAMERA FIELD OF VIEW PRIOR TO INSTALLATION OF CABLING, WHICH MAY INCLUDE SIGNAGE, PENDANT LIGHTS, SPEAKERS, TREES, OR ANY OTHER OBSTRUCTIONS IN THE IMMEDIATE FIELD OF VIEW. BRING ALL FIELD OF VIEW OBSTRUCTIONS TO THE ATTENTION OF THE SECURITY CONSULTANT.
▬◀	ETHERNET CABLE FOR CAMERA			1	1					1	1			1						
▬◀	ETHERNET CABLE FOR CAMERA			1	1					1	1			1						

PUBLIC ADDRESS & CLOCKS

REFER TO SPECIFICATION 27 5116 FOR PA DEVICES & 27 5313 OF CLOCK DEVICES

		OUTLET BOX & CONDUIT SIZES PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR				CABLING PROVIDED & INSTALLED BY PA CONTRACTOR					
SYMBOL	DESCRIPTION	MOUNTING AFF UNLESS OTHERWISE NOTED	2G - 2-1/2" DP	1G - DEVICE RING	3/4" C	PLENUM RATED CABLE A/R					COMMMENTS
(S) VC	PA SPEAKER W/BUILT-IN VOLUME CONTROLS					1					VERIFY COLOR WITH ARCHITECT
(S)	PA SPEAKER - 8" DIAMETER					1					
(S) 2x2	CLASSROOM SPEAKER 2' X 2' TILE					1					
S	PA WALL MOUNTED BOX SPEAKER		1		1	1					
VC ▷	PA VOLUME CONTROL	48" AFF	1	1	1	1					VOLUME CONTROL SHALL CONTROL THE SPEAKERS SHOWN WITHIN THE SAME ROOM. CONFIRM COLOR WITH ARCHITECT.
PA	PA MASTER HANDSET BOGEN #MCDS4					1					INCLUDE CABLING A/R, DATA JACK, & FACEPLATE FOR CABLING.
CS ▷	PA CALL SWITCH	48" AFF	1	1	1	1					CS SHALL ACTIVATE 2-WAY CONVERSATIONS BETWEEN CLASSROOM SPEAKERS AND MAIN OFFICE. CABLING A/R
H	PA HORN SPEAKER		1		1	1					SECURE HORNS TO STRUCTURE. EXTERIOR HORNS SHALL RECEIVE PROPER WEATHER PROOFING ASSEMBLY.
PSB	PA STROBE	108" AFF	1	1	1	1					
PS	PA PENDANT SPEAKER		1		1	1					
	CLOCK - ALL CLOCKS ARE 12" DIA. CLOCKS NOTED AS 16 ARE TO BE 16" DIA. CLOCKS	96" AFF									REFER TO ARCHITECTURAL PLAN FOR MOUNTING HEIGHT.

GENERAL PLAN SYMBOLS



AUDIO VISUAL

REFER TO SPECIFICATION SECTION 27 4100 FOR DEVICES

		OUTLET BOX & CONDUIT SIZES PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR								CABLING PROVIDED & INSTALLED BY LOW VOLTAGE CONTRACTOR ALL CABLING TO BE PLENUM RATED									
SYMBOL	DESCRIPTION	MOUNTING AFF UNLESS OTHERWISE NOTED	4 x 4" x 4" DP	6 x 4" x 4" DP	2G DEVICE RING	3G DEVICE RING	3/4" C	1" C	1-1/4" C	CHIEF #PAC525FCW	LEGRAND #EFSB4	CAT6A CABLE	8P8C (RJ45) JACK - CAT6A	AV CABLING INDICATED ON SIGNAL FLOW DIAGRAMS						COMMMENTS
ID-XX ▷	**INTERACTIVE BOARD PROVIDED BY OWNER & INSTALLED BY CONTRACTOR** XX = DISPLAY SIZE	*						2	1			2	2	1						* REFER TO ARCHITECTUAL ELEVATIONS FOR MOUNTING HIEGHTS. ETHERNET TERMINATES TO LAN (MDF / IDF). **INTERACTIVE BOARD PROVIDED BY OWNER & INSTALLED BY CONTRACTOR**
MON-XX ▷	MONITOR OUTLET LOCATION XX = DISPLAY SIZE	60" AFF						1	1			2	2	1						ETHERNET TERMINATES TO LAN (MDF / IDF)
A ▷	AV INTERFACE BACKBOX INPUT END	18" AFF	1		1			2						1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
B ▷	AV CONTROL PANEL	48" AFF	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
C ▷	AV TRANSMITTER	18" AFF	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
D ▷	AV TRANSMITTER	18" AFF	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
E ▷	AV CONTROL PANEL	48" AFF	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
GS ▷	SPEAKER - GYM & CAFETERIA	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
ALS ▷	ASSISTED LISTENING TRANSMITTER	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
ANT ▷	ANTENNA - WIRELESS MIC RECEIVER	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
MIC ▷	MICROPHONE - DIGITAL INPUT PLATE	18" AFF	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
P ▷	PROJECTOR PASS-THRU PLATE	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
PE ▷	CEILING MOUNTED PLENUM RATED ENCLOSURE						1					1	1	1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS. ETHERNET TERMINATES TO LAN (MDF / IDF)
S1	SPEAKER - FLUSH MOUNTED QSYS #AD-C6T-LPZB OR EQUIV.													1						
S2	SPEAKER - PENDANT													1						
S3 ▷	SPEAKER - 8" LOUD SPEAKER	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
S4 ▷	SPEAKER - 12" LOUD SPEAKER	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
S5 ▷	SPEAKER - 15" LOUD SPEAKER	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
SC ▷	SCREEN PASS-THRU PLATE	As Noted	1		1		1							1						REFER TO SIGNAL FLOW DIAGRAMS FOR CABLING AND ROUTING REQUIREMENTS
XX ▷	FLOOR BOX MOUNTED DEVICE																			REFER TO ELECTRICAL DRAWINGS FOR FLOOR BOX REQUIREMENTS. XX - DENOTES DEVICE AND CABLING REQUIREMENTS
XX ▷	CEILING MOUNTED DEVICE																			CEILING MOUNTED DEVICE XX - DENOTES DEVICE AND CABLING REQUIREMENTS

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
A/C	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
A/R	AS REQUIRED
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN
C	CONDUIT(S)
DEMARC	DEMARCATION
DPDT	DOUBLE THROW DOUBLE PULL
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACSIMILE (FAX)
IDS	INTRUSION DETETECTION SYSTEM
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QYT	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
VSS	VIDEO SURVEILLANCE SYSTEM
W	WALL TELEPHONE (VOICE)
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL COMMUNICATION, SECURITY, AND AV OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THESE OUTLETS.
3. REQUIRED CABLE COLORS: SUBMIT ALL CABLE AND JACK COLOR WITH PRODUCT SUBMITTALS PRIOR TO PROCUREMENT
4. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
5. THE CONTRACTOR SHALL MAINTAIN THE TWIST OF THE INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL CATEGORY 3 OR HIGHER CABLE.
6. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES RATED CATEGORY 3 OR HIGHER.
7. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 5' INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
8. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
9. USE ONLY PLENUM RATED CABLES.
10. DO NOT RUN ETHERNET CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
11. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
12. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH AND CONFIRMED BY THE ARCHITECT.
13. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM EXTENDED MANUFACTURER WARRANTEES. THE LOW VOLTAGE INSTALLATION CONTRACTOR SHALL SUBMIT ALL TEST RESULTS TO THE CABLE MANUFACTURER TO CERTIFY THE CABLING INSTALLATION AND ATTAIN AND DELIVER TO THE OWNER THE EXTENDED MANUFACTURER'S WARRANTY FOR MATERIAL AND WORKMANSHIP.
14. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
15. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, 48 PORT, CATEGORY 6A RATED PATCH PANEL.
16. THE FOLLOWING CABLING SHALL BE TERMINATED ONTO IT'S OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
    A. ALL WIRELESS AP'S
    B. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
17. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
18. THE CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION.
19. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
20. ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
21. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
22. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
23. SECURE ATTACHMENT OF TECHNOLOGY AND SECURITY DEVICES:
    A. TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS.
    B. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC. TO SECURELY ATTACH ITEMS TO THE EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.
24. ALL CONDUIT IS INSTALLED TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
25. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERA CABLING MUST BE COORDINATED WITH THE SECURITY CONTRACTOR AND APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.

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STATE OF CONNECTION — CHRISTOPHER MALIK — No. 9199 — REGISTERED ARCHITECT

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

100% CONSTRUCTION DOCUMENTS
JUNE 5, 2026

TECH-AV SYMBOL LEGEND & GENERAL NOTES

TN0.1

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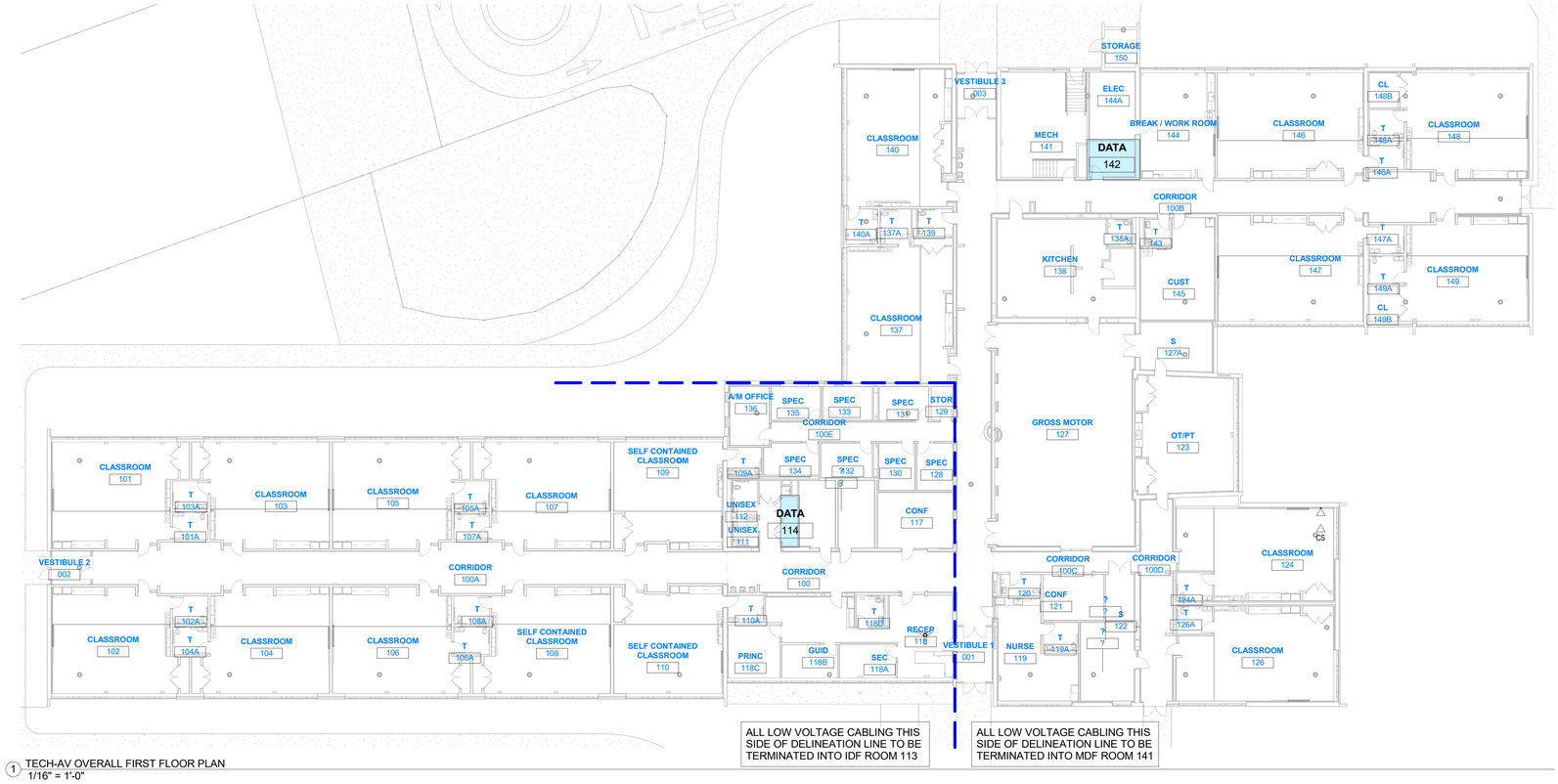

1 TECH-AV OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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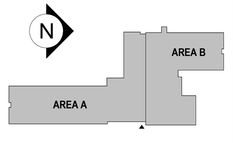
Project #:25064

Revisions



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TECH-AV OVERALL FIRST FLOOR PLAN

TN1.1

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1 FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

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EDGEWOOD PRE-K ACADEMY

345 MIX STREET
BRISTOL, CT

State Project #: 017-0090 RNV
Project #:25064

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AREA A

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TECH-AV FIRST FLOOR PLAN - AREA A

TN1.1A

1 FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

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AREA B

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TECH-AV FIRST FLOOR PLAN - AREA B

TN1.1B

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1 TECH-AV OVERALL RCP PLAN
1/16" = 1'-0"

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Project #:25064

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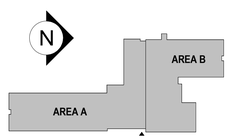

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TECH-AV OVERALL RCP PLAN

TN2.1

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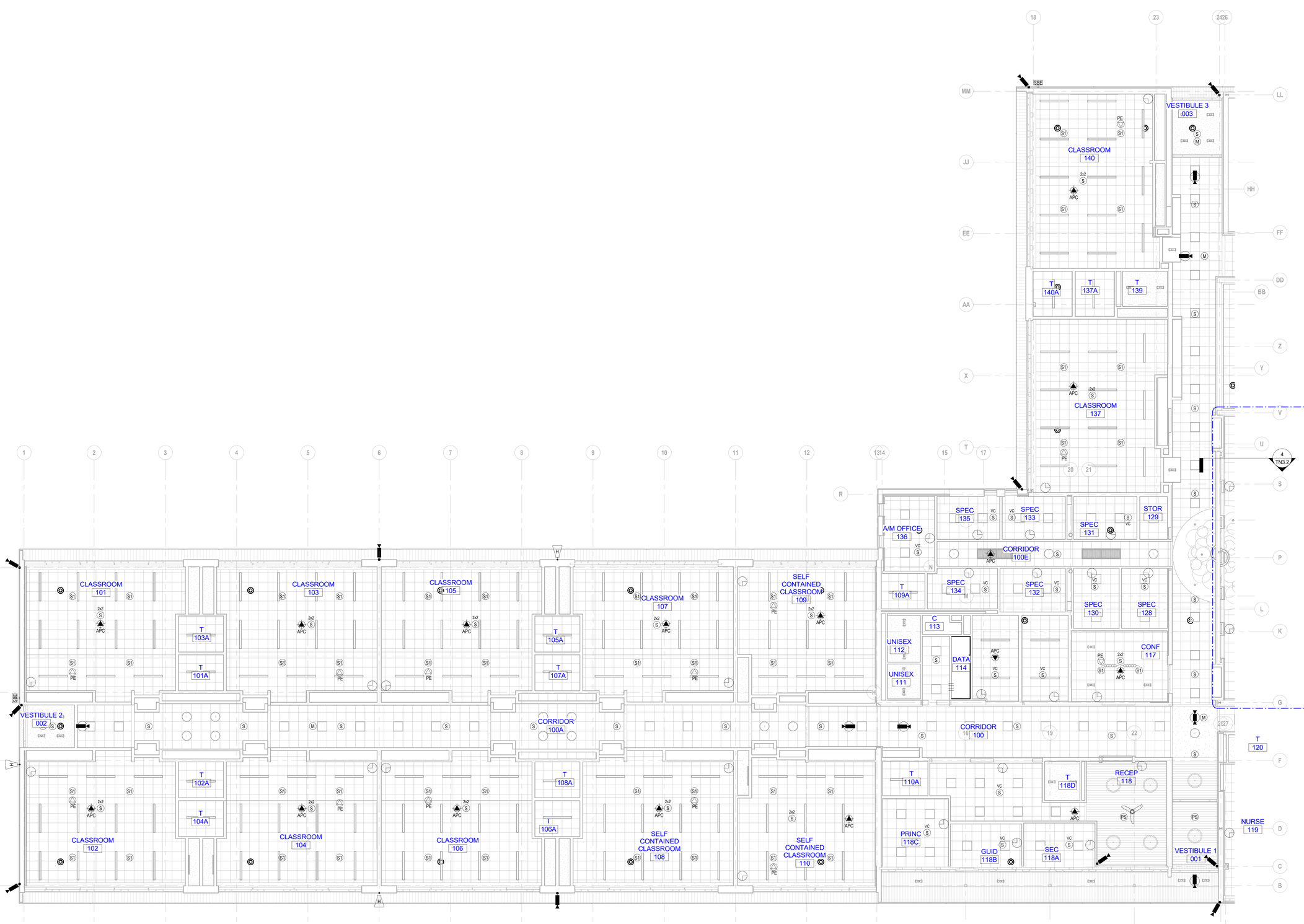

1 TECH-AV OVERALL RCP PLAN - AREA A
1/8" = 1'-0"

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AREA A

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TECH-AV RCP PLAN - AREA A

TN2.1A

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1 TECH-AV OVERALL RCP PLAN - AREA B
1/8" = 1'-0"

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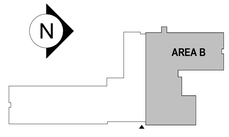

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TECH-AV RCP PLAN - AREA B

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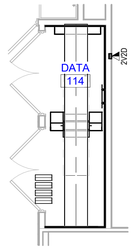
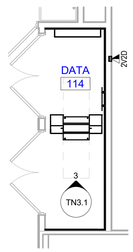
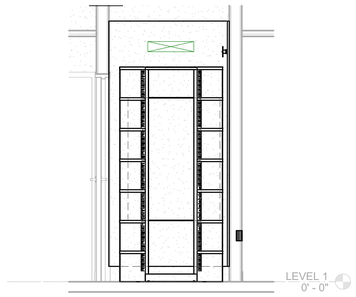


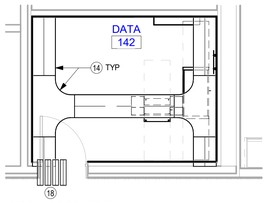
2 IDF 113 RCP VIEW
1/4" = 1'-0"



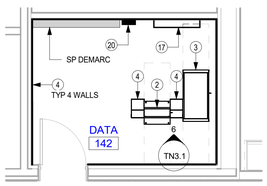
1 IDF 113 PLAN VIEW
1/4" = 1'-0"



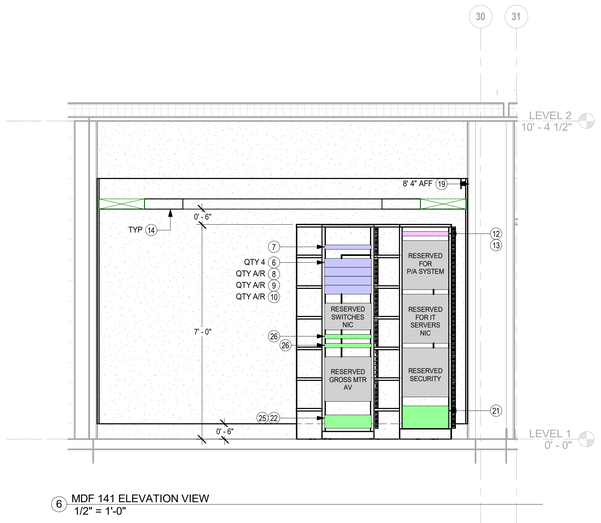
3 IDF 113 ELEVATION VIEW
1/2" = 1'-0"



5 MDF 141 RCP VIEW
1/4" = 1'-0"



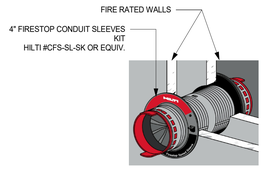
4 MDF 141 PLAN VIEW
1/4" = 1'-0"



6 MDF 141 ELEVATION VIEW
1/2" = 1'-0"

PRODUCT DESCRIPTION

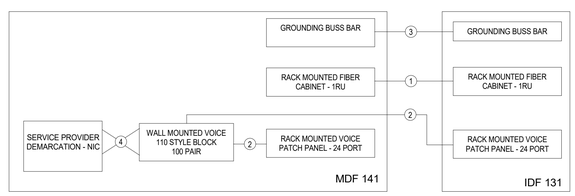
KEY	DESCRIPTION	MANUFACTURER #
1	3/4" FIRE RATED PLYWOOD PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT AS SPECIFIED. MOUNT BOTTOM OF PLAYWOOD AT 6" AFF.	AS REQUIRED
2	TWO-POST RACK; 45 RMU 19" W x 7' H x 3" D	CPI #46353-703 OR EQUIV
3	ADJUSTABLE RAIL QUADRACK; 84", 45U H x 23.62" W x 35.43" D; 35.43 to 41.33" to 41.33" RAIL DEPTH; BLACK	CPI #15252-703 OR EQUIV
4	6" WIDE, DOUBLE SIDED VERTICAL WIRE MANAGER	CPI #13912-703 OR EQUIV
5	HORIZONTAL WIRE MANAGER - 1RU	AS SPECIFIED
6	48 PORT MODULAR ANGLED PATCH PANELS, 2RU	AS SPECIFIED
7	24 PORT CATEGORY 5E ANGLED PATCH PANELS, 1RU - VOICE BACKBONE	AS SPECIFIED
8	CATEGORY 6A JACK MODULE, BLUE (DATA)	AS SPECIFIED
9	CATEGORY 6A JACK MODULE, RED (WAP'S)	AS SPECIFIED
10	CATEGORY 6A JACK MODULE, YELLOW (VSS CAMERAS)	AS SPECIFIED
11	FIBER OPTIC CABINET - 2RU	AS SPECIFIED
12	FIBER OPTIC CABINET - 1RU	AS SPECIFIED
13	LC ADAPTER PLATES, 6 LC DUPLEX (12 FIBER STRANDS), COLOR: AQUA	AS SPECIFIED
14	18" WIDE CABLE TRAY MOUNTED TO CEILING DECK, INCLUDE THREADED RODS W/PROTECTIVE COVERS, TRAPEZE BRIDGE SUPPORT AND ALL REQUIRED MOUNTING ACCESSORIES	CPI OR EQUIV
15	18" WIDE RADIUS DROP	CPI OR EQUIV
16	PUBLIC ADDRESS WALL CABINET	AS SPECIFIED
17	SECURITY PANEL LOCATION	AS SPECIFIED
18	4" CONDUITS SLEEVES - REFER TO DETAIL # 8 THIS SHEET	AS SPECIFIED
19	GROUNDING BUSBAR	FURNISHED BE DIV 26 0000
20	110 STYLE WALL MOUNTED VOICE BLOCK, 100 PAIR. COORDINATE LOCATIONS WITH SERVICE PROVIDERS DEMARCATION.	AS SPECIFIED
21	APC Smart-UPS SRT 5000VA RM 208V to 120V 2U Step-Down Transformer, with APC Smart-UPS SRT 19" Rail Kit for Smart-UPS SRT 5/6/8/10kVA	APC #SRT5KRMXLT-5KTF APC #SRTRK2
22	APC Smart-UPS On-Line, 5kVA, Rackmount 3U, 208V, 2x L6-20R+2x L6-30R NEMA outlets, Network Card+SmartSlot, Extended runtime, W/ rail kit, TAA	APC #SRT5KRMXLTUS APC #SRTRK2
23	APC Smart-UPS SRT 2200VA RM 230V	APC #SRT2200RMXLI
24	UPS Network Management Card 2 -Remote monitoring and control of UPS	APC #AP9630
25	TEMPERATURE & HUMIDITY SENSOR	APC #AP9335TH
26	PDU -208V, 1 RU -- (1 PER 5KVA UPS)	APC #AP9571A



8 FIRE STOP HILTI SLEEVE DETAIL
NTS

BACKBONE DIAGRAM KEYNOTES

1. 12 STRAND OS2 SINGLE-MODE FIBER OPTIC PLENUM RATED ARMORED CABLE TERMINATED ONTO "LC" TYPE ADAPTER PLATES WHICH WILL BE TERMINATED WITHIN RACK MOUNTED FIBER OPTIC CABINETS AT EACH ENDS.
2. 25 PAIR CATEGORY 5E RATED PLENUM CABLE FROM 300 PAIR 110 STYLE WALL MOUNTED BLOCK IN THE MDF #141 AND TERMINATED ONTO 110 STYLE 24 PORT, RACK MOUNTED PATCH PANELS IN MDF #141 & IDF 113. TERMINATE EACH PAIR OF THE COPPER RISER CABLES ON THE BLUE PAIR (PR 1) OF EACH PORT OF THE PATCH PANELS. COIL THE 25TH PAIR (VIOLET/SLATE) AT THE PATCH PANEL END OF EACH CABLE FOR REPAIR OR FUTURE USE.
3. INSTALL #6 AWG (OR AWG AS REQUIRED PER DISTANCES) GROUNDING BUSS WIRE TERMINATING ONTO GROUNDING BUSS BARS AT EACH END.



7 WIRING DIAGRAM - BACKBONE CABLING
NTS

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345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

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100% CONSTRUCTION DOCUMENTS
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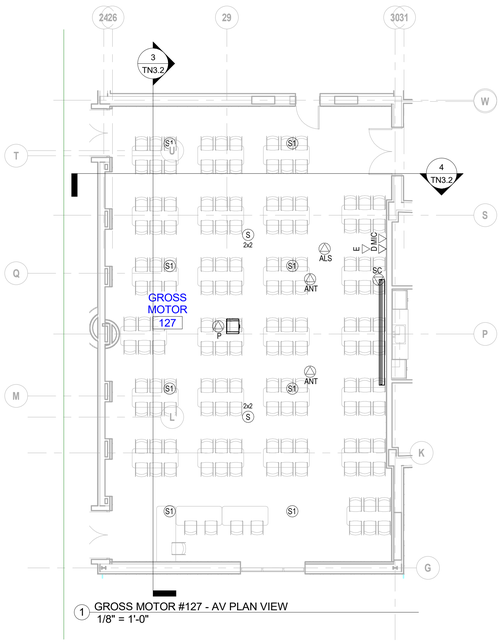
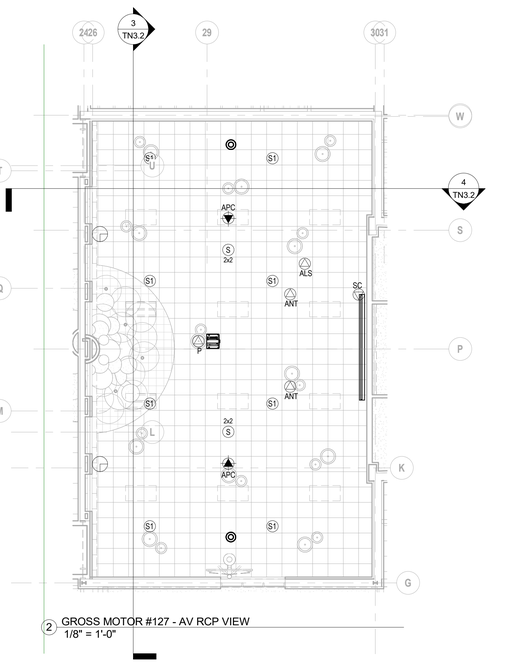
TECH-AV DATA ROOM DETAILS

TN3.1

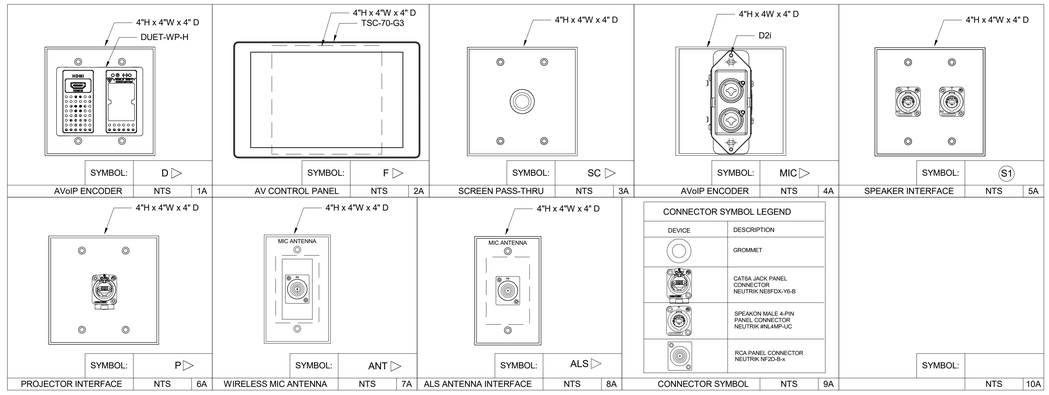
6/4/2026 11:08:00 AM Autodesk Docs://Bristol Edgewood Pre-K Academy/Edgewood Tech New R26.rvt

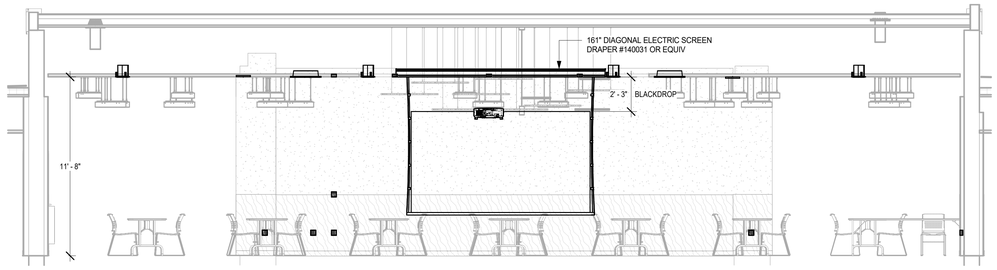


1 GROSS MOTOR #127 - AV PLAN VIEW
1/8" = 1'-0"

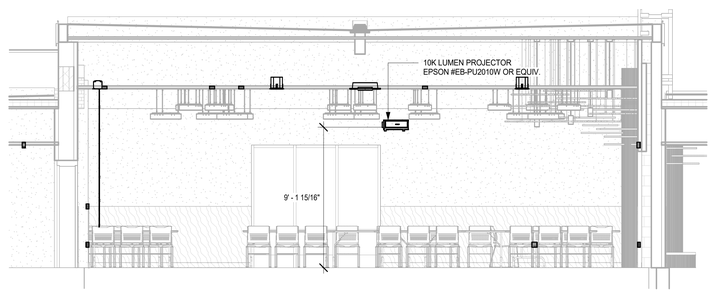


2 GROSS MOTOR #127 - AV RCP VIEW
1/8" = 1'-0"

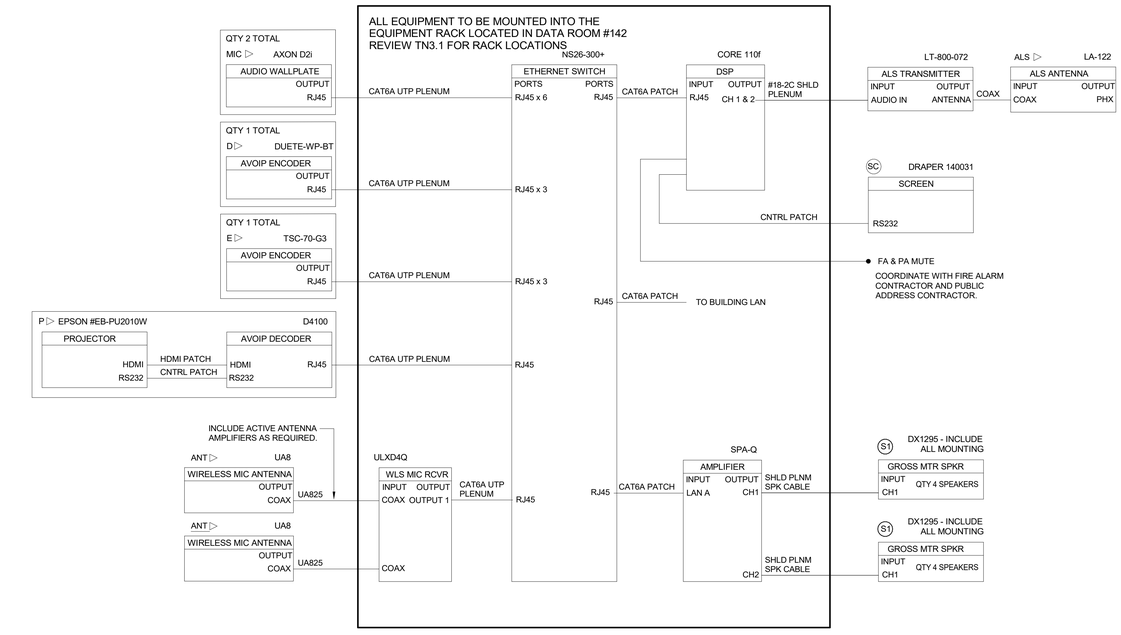




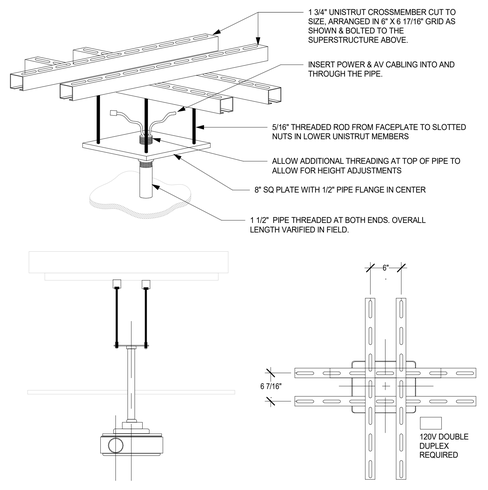
3 GROSS MOTOR #127 - NORTH ELEVATION
1/4" = 1'-0"



4 GROSS MOTOR #127 - EAST ELEVATION
1/4" = 1'-0"



5 GROSS MOTOR SKILLS - AV WIRING DIAGRAM
NTS



6 AV - PROJECTOR CEILING MOUNT TO DECK
NTS

SECURE ATTACHMENT NOTE

To ensure proper attachment of Fixtures, Furnishings & Equipment items, including and Technology items, where "items" are attached to wall, ceiling, overhead structure, and/or floor, Contractor shall provide information adequate for architect to verify items, attached to wall, ceiling, and/or floor are attached securely and per manufacturer's recommendations. Architect's review may be implemented during submittal process.

Contractor shall provide struts, hangers, fasteners, safety harnesses, channels, bolts, screws, rods, etc. to securely attach items to existing structure as required to meet field conditions and meet applicable codes.

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AV - OT / OP ROOM DETAILS

TN3.2

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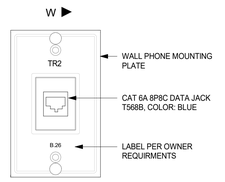
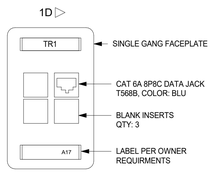
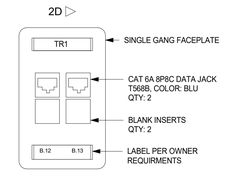


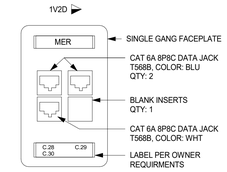
1 WALL PHONE MTG PLATE
NTS



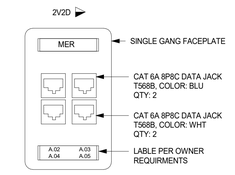
2 DATA OUTLET DETAIL - 1D
NTS



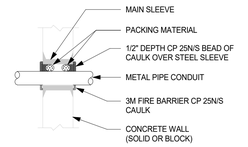
3 DATA OUTLET DETAIL - 2D
NTS



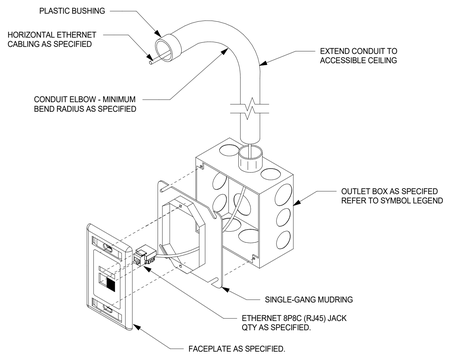
4 DATA OUTLET DETAIL - 1V2D
NTS



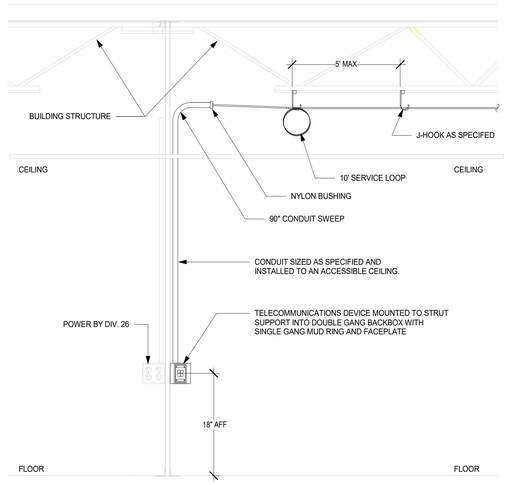
5 DATA OUTLET DETAIL - 2V2D
NTS



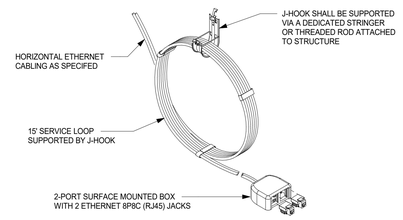
6 FIRE STOP DETAIL
NTS



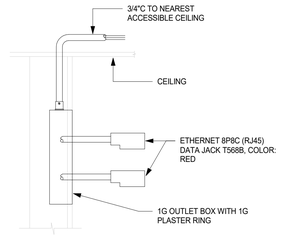
7 TELECOMMUNICATIONS DEVICE OUTLET ASSEMBLY
NTS



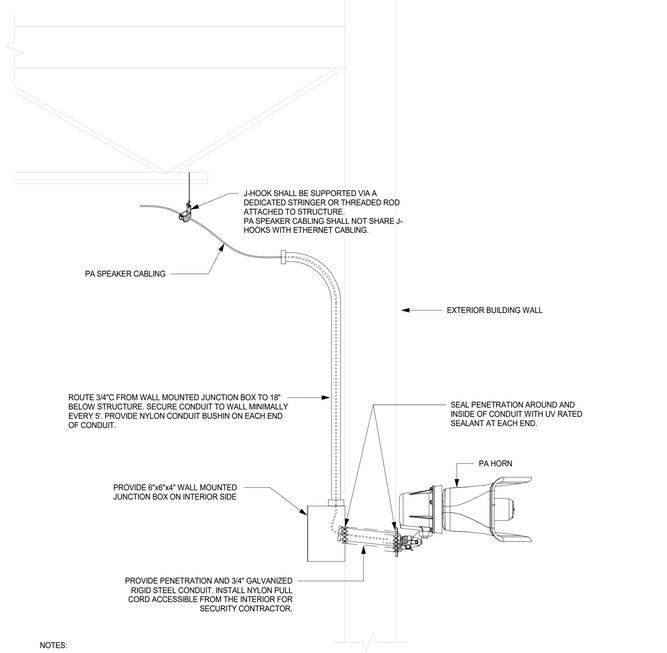
8 TELECOMMUNICATIONS DEVICE MOUNTING TO STRUT SUPPORT
NTS



9 WAP - CEILING MOUNTED CABLING 2
NTS



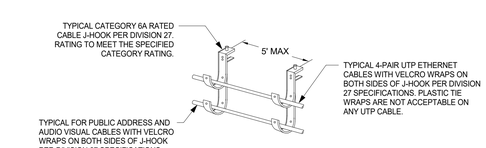
10 WAP - WALL MOUNTED CABLING
NTS



NOTES:

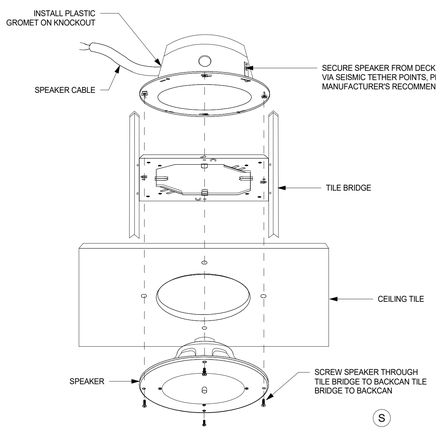
1. CONFIRM EXACT HORN AND MOUNT STYLE ON-SITE WITH THE OWNER PRIOR TO BEGINNING INSTALLATION. CABLING TO THE HORN MUST BE COMPLETELY ENCLOSED WITHIN THE HORN MOUNT AND PROTECTED FROM THE ELEMENTS.
2. LOCATION OF THE PENETRATION AND JUNCTION BOX SHALL BE COORDINATED BY THE TELECOMMUNICATIONS CONTRACTOR AND PROVIDED BY THE GENERAL CONTRACTOR. CONDUIT SHALL BE INSTALLED AT AN ANGLE, THE TOP OF THE CONDUIT (EXTERIOR) SHALL BE BELOW THE BOTTOM OF THE CONDUIT (INTERIOR) AS SHOWN ABOVE. PROVIDE A WATERTIGHT SEAL IN CONDUIT AFTER INSTALLATION.
3. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES

13 PA- EXTERIOR HORN
NTS

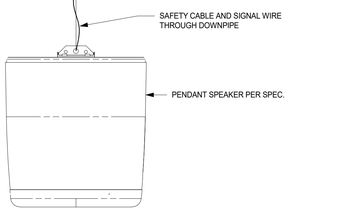


NOTE:
1. J-HOOKS SHALL BE SIZED TO ACCOMMODATE TWICE AS MANY CABLES REQUIRED TO BE SUPPORTED INCLUDING AN ADDITIONAL 40% HEADROOM.

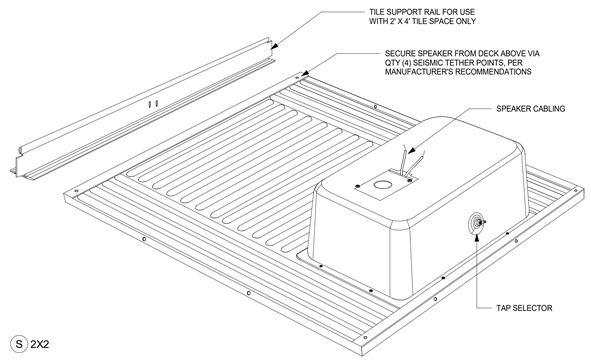
11 J-HOOK INSTALLATION - CABLING SUPPORT
NTS



14 PA CEILING SPEAKER ROUND
NTS



12 PENDANT SPEAKER DETAIL
NTS



15 PA TILE INLAY SPEAKER 2x2
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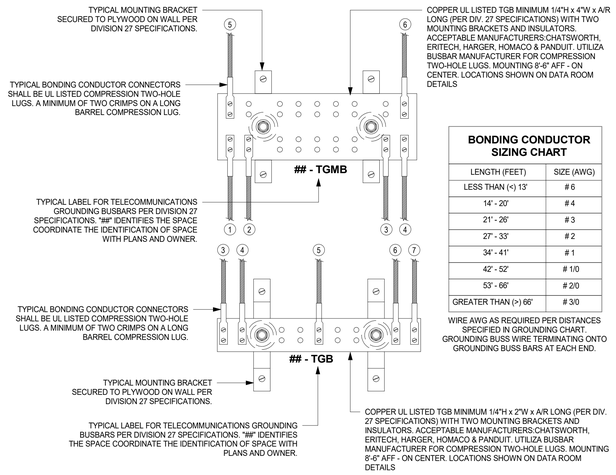


BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

WIRE AWG AS REQUIRED PER DISTANCES SPECIFIED IN GROUNDING CHART. GROUNDING BUSS WIRE TERMINATING ONTO GROUNDING BUSS BARS AT EACH END.

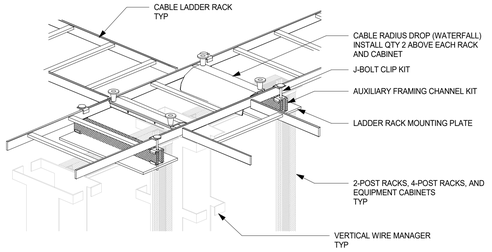
GROUNDING AND BONDING KEYNOTES

1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
2. BCT TO NEAREST BUILDING STEEL STRUCTURE. IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUND BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUND BUS.
4. TELECOMMUNICATION BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE. REFER TO RISER DIAGRAM.
5. TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB. REFER TO RISER DIAGRAM.
6. BCT TO TELECOMMUNICATIONS CABLE RUNWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO THE DEDICATED HOMERUN BCT BACK TO THE TGB. SEE DETAILS.

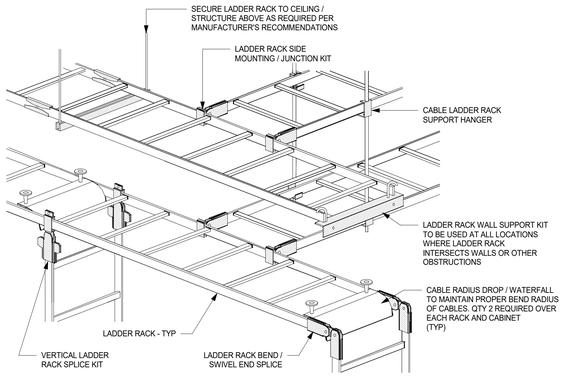
GROUNDING AND BONDING GENERAL NOTES

A. REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B. REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
C. PROVIDED 2"C SLEEVE PATHWAY AT EACH FLOOR AND WALL PENETRATIONS FOR THE TELECOMMUNICATION BONDING BACKBONE (TBB). COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED PER DIVISION 07 SPECIFICATIONS.
D. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
E. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
F. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-A.
G. BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-A). "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
H. CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
H.1 THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
H.2 EACH TGB AND THE NEAREST GROUNDING ELECTRODE.
H.3 EACH TGB AND PATHWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT.

1 DATA ROOM - GROUNDING BUSS BAR TMGB & TGB
NTS

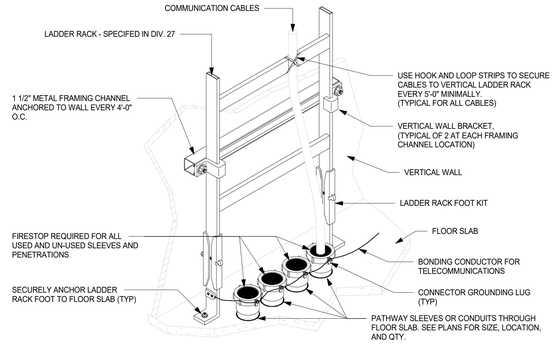


2 DATA ROOM - LADDER RACK INSTALL ABOVE RACKS
NTS

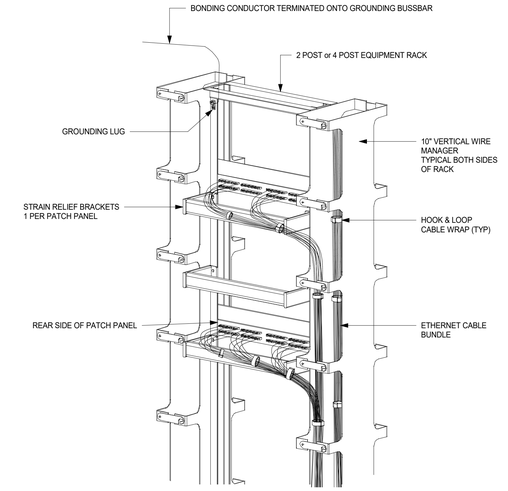


NOTE: ALL CONNECTION HARDWARE, PARTS AND PIECES ARE TO BE OF THE SAME MANUFACTURER AS THE LADDER RACK AND APPROVED BY THE MANUFACTURER AS APPROPRIATE FOR THIS APPLICATION.

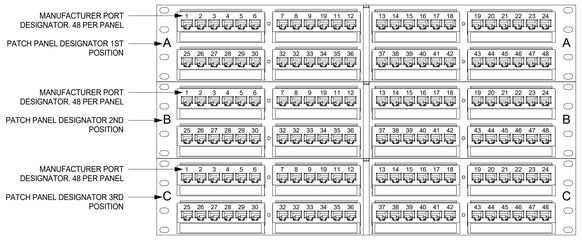
3 DATA ROOM - LADDER RACK INSTALLATION
NTS



4 DATA ROOM - VERTICAL LADDER RACK DETAIL
NTS

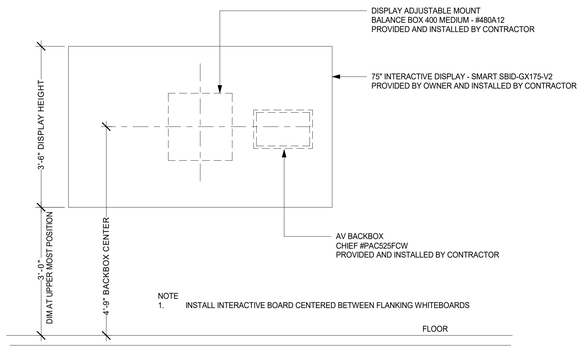


5 TYP RACK ASSEMBLY DETAIL
NTS



NOTE: CONTINUE LETTERING PATCH PANELS ALPHABETICALLY FOR EACH ADDITIONAL PATCH PANEL.

6 PATCH PANEL LABELING
NTS



7 75" INTERACTIVE DISPLAY MOUNTING DETAIL
NTS

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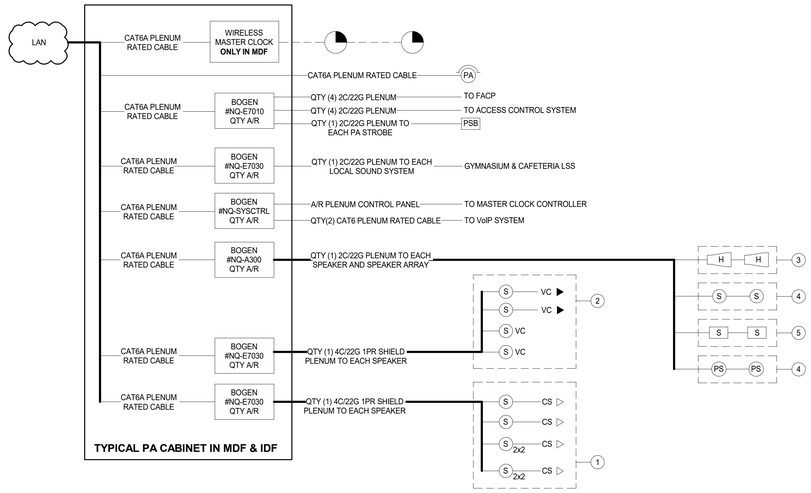


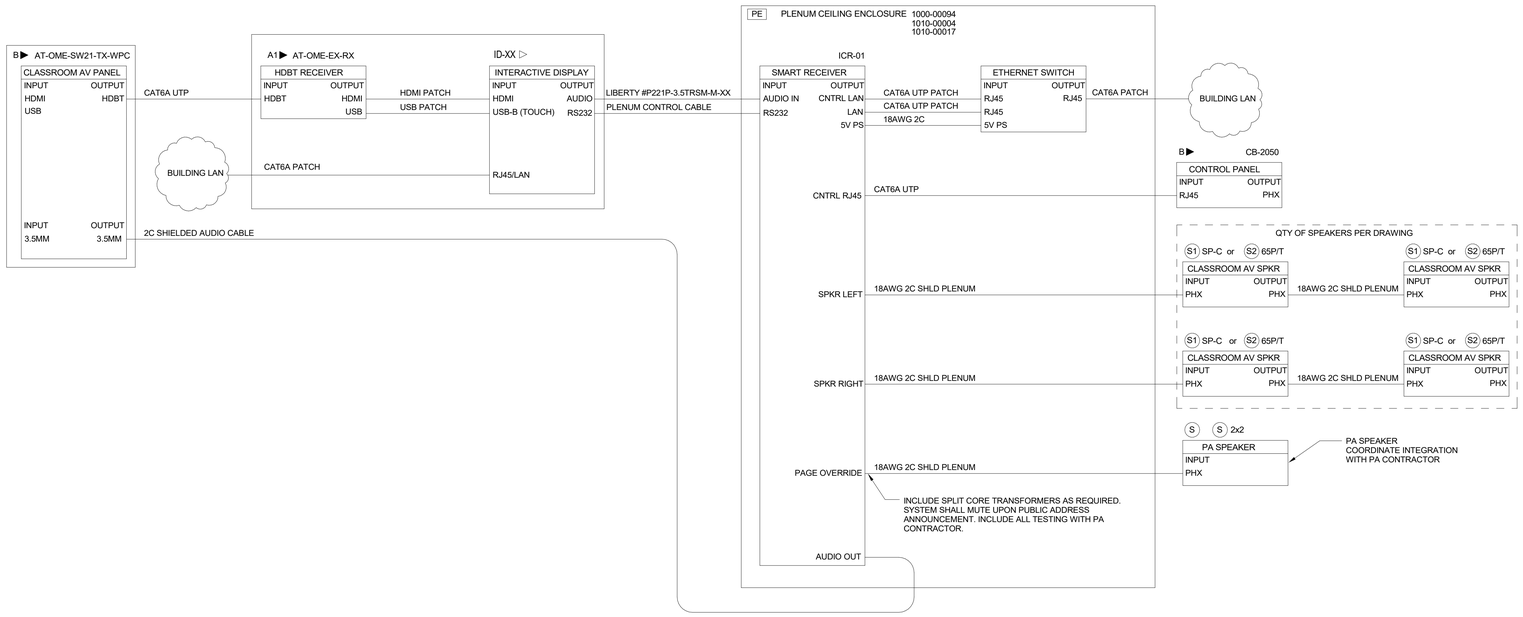
NOTES

1. **CABLING REQUIREMENTS:** ALL PUBLIC ADDRESS SYSTEM CABLING FOR DEVICES SHALL TERMINATE IN THE DATA ROOMS AS SPECIFIED IN THE LOW-VOLTAGE CABLING SCHEMATICS.
2. **RISER DIAGRAM:** THE RISER DIAGRAM PROVIDED IS FOR DESIGN PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CREATING A COMPLETE RISER DIAGRAM REFLECTING THE ACTUAL FIELD WIRING.
3. **SPECIFICATIONS REFERENCE:** REFER TO PROJECT SPECIFICATIONS FOR THE SYSTEM DESCRIPTION, SEQUENCE OF OPERATION, AND WIRING DETAILS.
4. **MICROPHONE CABLE CLEARANCE:** MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES BETWEEN MICROPHONE CABLE RUNS AND CONDUITS OR CABLES USED FOR ELECTRICAL POWER DISTRIBUTION. WHERE 12-INCH CLEARANCE IS NOT FEASIBLE, CROSS HIGHER VOLTAGE LINES PERPENDICULARLY.
5. **FIRE-RATED WALL PENETRATIONS:** ALL PENETRATIONS THROUGH FIRE-RATED WALLS SHALL BE SEALED USING APPROVED FIRE-STOPPING MATERIALS.
6. **SPEAKER CONDUCTORS:** SPEAKER CONDUCTORS INSTALLED IN INSTRUCTIONAL ROOMS AND OFFICES SHALL RUN AS A CONTINUOUS HOME RUN TO THE CENTRAL CONTROL RACK WITHOUT SPLICES.
7. **RISER DIAGRAM VALIDATION:** THE RISER DIAGRAM INCLUDED IN THE DRAWINGS INDICATES GENERAL LOOPING AND ZONING REQUIREMENTS. THE CONTRACTOR MUST CONFIRM ACTUAL QUANTITIES FROM ARCHITECTURAL DRAWINGS (T-SERIES).
8. **INSTALLATION STANDARDS:** THE PUBLIC ADDRESS SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH NFPA 72 (2010 EDITION) OR THE MOST CURRENT FIRE CODE STANDARD ADOPTED BY THE STATE OF CONNECTICUT.
9. **FIRE ALARM INTEGRATION:** COORDINATE THE CONNECTION BETWEEN THE PUBLIC ADDRESS SYSTEM AND THE FIRE ALARM SYSTEM WITH THE OWNER, FIRE ALARM INSTALLER, SECURITY CONSULTANT, AND PUBLIC ADDRESS SYSTEM DESIGNER.
10. **PRIORITY OVERRIDE LOADS:** ENSURE PRIORITY OVERRIDE LOADS AT INTERACTIVE DISPLAY LOCATIONS ARE CALCULATED INTO THE PUBLIC ADDRESS AMPLIFIER LOADS.
11. **WIRELESS CLOCK SYSTEM:** INCLUDE A 1-WATT REPEATER IN EACH DATA CLOSET FOR THE WIRELESS CLOCK SYSTEM.
12. **EXTERIOR HORNS:** ALL EXTERIOR HORNS SHALL BE ON AN ISOLATED ZONE AND PROGRAMMABLE TO ENGAGE ONLY DURING BUS OR EMERGENCY ANNOUNCEMENTS.
13. **LAN CONNECTIONS:** LAN CONNECTIONS INDICATED IN THE WIRING DIAGRAM SHALL TERMINATE ON THE REAR OF 19" CATEGORY 6A-RATED PATCH PANELS MOUNTED IN THE MDF/IDF RACKS AS SHOWN IN THE TECHNOLOGY DETAILS.
14. **REQUIRED LICENSES:** REFER TO THE PUBLIC ADDRESS SYSTEM SPECIFICATION FOR ALL REQUIRED LICENSES.
15. **NETWORK ELECTRONICS AND SYSTEM CONFIGURATION:**
    - A. NETWORK SWITCHES WILL BE FURNISHED BY THE OWNER IN A LATER PHASE.
    - B. THE CONTRACTOR SHALL ADVISE THE OWNER ON IP ADDRESSING, VLAN CREATION, AND FURNISH THE CONFIGURATION FOR A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM ON THE OWNER'S LAN.
    - C. INCLUDE WORK HOURS FOR SYSTEM CONFIGURATION WITH THE OWNER AFTER SUBSTANTIAL COMPLETION OF THE PROJECT, ONCE SWITCHES ARE INSTALLED.

KEY NOTES

KEY	NOTE
1	CLASSROOM SPEAKERS: UP TO 24 CLASSROOM SPEAKERS AND ANALOG CALL SWITCHES CAN BE POWERED VIA QTY (1) #NQ-E7030. EACH CLASSROOM SPEAKER ASSEMBLY SHALL TERMINATE ONTO A #NQ-E7030.
2	OFFICE SPEAKERS: UP TO 24 OFFICE SPEAKERS AND ANALOG VOLUME CONTROL PANELS CAN BE POWERED VIA QTY (1) #NQ-E7030. EACH OFFICE SPEAKER ASSEMBLY SHALL TERMINATE ONTO A #NQ-E7030.
3	HORNS: EXTERIOR HORNS SHALL BE LOOPED ONTO AN ISOLATED ZONE. GYMNASIUM HORNS SHALL BE ON AN ISOLATED ZONE. UP TO 20 EXTERIOR HORNS MAY BE ON ONE ZONE AND DAISY-CHAINED. HORNS SHALL TERMINATE ONTO #NQ-A300
4	CORRIDOR SPEAKERS: MAY BE LOOPED ONTO AN ISOLATED ZONE. UP TO 20 CORRIDOR SPEAKERS MAY BE ON ONE ZONE AND DAISY-CHAINED. CORRIDOR SPEAKERS SHALLTERMINATE ONTO #NQ-A300
5	METAL WALL SPEAKERS MAY BE LOOPED ONTO AN ISOLATED ZONE. UP TO 20 METAL WALL SPEAKERS MAY BE ON ONE ZONE AND DAISY-CHAINED. METAL WALL SPEAKERS SHALL TERMINATE ONTO #NQ-A300
6	PENDANT SPEAKERS MAY BE LOOPED ONTO AN ISOLATED ZONE. UP TO 20 PENDANT SPEAKERS MAY BE ON ONE ZONE AND DAISY-CHAINED. PENDANT SPEAKERS SHALL TERMINATE ONTO #NQ-A300

1 AV - WIRING DIAGRAM - PUBLIC ADDRESS
NTS



2 AV - WIRING DIAGRAM - CLASSROOM w-Control Panel
NTS

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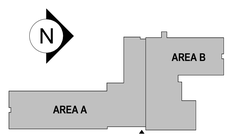

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TECH-AV WIRING DIAGRAMS

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SECURITY

REFER TO SPECIFICATION 28 1300 FOR DEVICES

SYMBOL	DESCRIPTION	MOUNTING AFF UNLESS OTHERWISE NOTED	OUTLET BOX & CONDUIT SIZES PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR: 1G - 2-1/2" DP	4 x 4" x 2-1/8" DP	1G DEVICE RING	2G DEVICE RING	3/4" C	1" C	1/2" FLEX	SURFACE MOUNTED BOX	CABLING PROVIDED & INSTALLED BY SECURITY CONTRACTOR (ALL CABLING TO BE PLENUM RATED): CAT 6A - CABLE TO NETWORK	CAT 6A - 6 in. LONG PATCH CORD / CABLE	CAT 6A - 5 ft. LONG PATCH CORD / CABLE	#22 - 2C	#22 - 4C	#18 - 4C	#18 - 6C	#18 - 6C SHL'D	PLENUM CABLE A/R	BELDEN #6584FJ COMPOSITE CABLE #6584FJ (1) 18-4C SHL'D, (2) 22-2C, 22-4C, 18-4C	COMMMENTS
	FIXED DOME CAMERA - WALL MTG	As Noted										1									REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
	FIXED DOME CAMERA - CEILING MTG - INTERIOR											1									REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
	MULTI-SENSOR CAMERA	As Noted										1									REFER TO CAMERA SCHEDULE FOR ADDITIONAL INFORMATION.
CR	ACCESS CONTROL CARD READER HID MULTICLASS SE #RP10 of SE #RP40	46" AFF	1															1			
DC	DOOR POSITION SWITCH								1						1						SPECIFIED IN DIV 08 0671. DPS SHALL BE DPDT SHOWN ON THESE PLANS FOR FINAL CABLING CONNECTIONS.
JB	JUNCTION BOX		1				1	A/R												1	REFER TO DETALS FOR OUTLET AND CONDUIT INSTALLATION.
EL STK	ELECTRIC DOOR HARDWARE															1					SPECIFIED IN DIV 08 0671. SHOWN ON THESE PLANS FOR FINAL CABLING CONNECTIONS.
PS	POWER SUPPLY FOR DOOR HARDWARE															1					SPECIFIED IN DIV 08 0671. SHOWN ON THESE PLANS FOR FINAL CABLING CONNECTIONS.
ICD	VIDEO INTERCOM DOOR STATION	46" AFF	1				1				1							1			INTERCOM DOOR RELEASE SHALL RELEASE LOCKED DOOR FROM THE ACCESS CONTROL PANEL.
ICM	VIDEO MASTER STATION - INTERCOM - DOOR RELEASE										1										CONTRACTOR TO CONFIRM ROUTING OF ICD TO ICM'S, AND ROLLOVER, FROM THE OWNER PRIOR TO CONFIGURATION.
KPD	INTRUSION DETECTION KEYPAD	48" AFF	1			1											1				
M	MOTION SENSOR, CEILING MOUNTED - 360 DEGREE		1			1										1					
M	MOTION SENSOR - CORNER / WALL MOUNT	108" AFF	1			1										1					
DB	DURESS BUTTON SENTROL UL RATED #3050	*	1		1		1	1								2					* MOUNT BELOW DESKS. REFER TO DETAILS FOR ADDITIONAL INFORMATION. COORDINATE WITH FURNITURE INSTALLATION.
LD	EMERGENCY LOCK DOWN BUTTON	48" AFF	1			1										2					STI BOX SHALL BE GREEN - CUSTOM LABEL "LOCKDOWN". CONFIRM LOCATION WITH CONSULTANT PRIOR TO INSTALLATION.
DR	DOOR RELEASE BUTTON - DORTRONICS #5276-HD29 1 GANG, FSR #DSKB_385 TABLE BOX		1		1			1	1	1					1						MOUNT SWITCH TO TABLE BOX. LABEL SWITCH "DOOR # PUSH TO RELEASE". LABEL SHALL BE ENGRAVED CONFIRM LOCATION ON DESK WITH OWNER AND FURNITURE CONTRACTOR.
SBE	BLUE SECURITY STROBE - EXTERIOR	As Noted	1				1												1		COORDINATE 120V POWER WITH ELECTRICIAN. REFER TO DETAILS AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
SBI	BLUE SECURITY STROBE - INTERIOR	As Noted	1				1												1		COORDINATE 120V POWER WITH ELECTRICIAN. REFER TO DETAILS AND WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
SM	SPOT MONITOR & MICRO PC	6' AFF	1				1				1		1								WORKSTATION BY OWNER. ALL CONNECTIONS BY CONTRACTOR AWARDED THIS PROJECT.
REX	INTERNAL REQUEST TO EXIT SWITCH								1						1						SPECIFIED IN DIV 08 0671. SHOWN ON THESE PLANS FOR FINAL CABLING CONNECTIONS.
DA	LOCAL DOOR ALARM DSI #ES4200-K1-T1 DSI #ES450-K1	6' AFF	1			1													1		COORDINATE MTG HEIGHT OF ALARM WITH OWNER PRIOR TO ROUGH-IN. KEYED ALARM AND DPS SHALL BE FLUSH MOUNTED. COORDINATE WITH DOOR CONTRACTOR. REFER TO SECURITY DETAILS FOR ADDITIONAL INFO.
MP	LOCAL DOOR ALARM REMOTE MONITORING PLATE		1			1													1		COORDINATE MTG HEIGHT OF ALARM WITH OWNER PRIOR TO ROUGH-IN. REFER TO SECURITY DETAILS FOR ADDITIONAL INFO.
CPU	COMPUTER LOCATION FOR "SM" - TOWER WORKSTATION & DISPLAYS																				

GENERAL PLAN SYMBOLS

- DETAIL NUMBER / SHEET NUMBER — **DETAIL/PLAN IDENTIFIER** (1 / T301)
- DETAIL NUMBER / SHEET NUMBER — **SECTION IDENTIFIER** (1 / T301)
- DETAIL NUMBER / SHEET NUMBER — **ELEVATION IDENTIFIER** (1 / T301)
- DRAWINGS KEYNOTE NOTE TAG (1)
- EQUIPMENT NOTE TAG (1)
- CONDUIT SLEEVE - THROUGH CEILING TO ABOVE FLOOR
- CONDUIT SLEEVES - THROUGH FLOOR TO BELOW FLOOR
- CONDUIT SLEEVES - HORIZONTAL

TECHNOLOGY ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS APPLICABLE)

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
A/C	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
A/R	AS REQUIRED
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BNC	BAYONET NEIL-CONCELMAN
C	CONDUIT(S)
DEMARC	DEMARCATION
DPDT	DOUBLE THROW DOUBLE PULL
EIA	ELECTRONICS INDUSTRIES ALLIANCE
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
F	FACSIMILE (FAX)
IDS	INTRUSION DETECTION SYSTEM
LAN	LOCAL AREA NETWORK
MER	MAIN EQUIPMENT ROOM
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFE	OWNER FURNISHED EQUIPMENT
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
QYT	QUANTITY
STP	SHIELDED TWISTED PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATIONS
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VGA	VIDEO GRAPHICS ARRAY
VoIP	VOICE OVER INTERNET PROTOCOL
VSS	VIDEO SURVEILLANCE SYSTEM
W	WALL TELEPHONE (VOICE)
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS (DATA) ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF

GENERAL NOTES

1. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
2. ALL SECURITY DEVICES AND OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND TECHNOLOGY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE SECURITY DEVICES.
3. REQUIRED CABLE: SUBMIT ALL CABLE AND TERMINATION DEVICES WITH PRODUCT SUBMITTALS PRIOR TO PROCUREMENT
4. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.
5. ALL CABLES RUN IN CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CONDUIT OR J-HOOKS MOUNTED TO SLAT AT MINIMUM OF 5' INTERVALS. NO CABLE SHALL REST OR TOUCH CEILING ASSEMBLIES. CABLES SHALL NOT BE INSTALLED EXPOSED IN OPEN CEILING AREAS.
6. ALL LABELS SHALL BE MACHINE PRINTED. NO HAND LETTERED CABLES SHALL BE USED.
7. USE ONLY PLENUM RATED CABLES.
8. DO NOT RUN ETHERNET CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.
9. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.
10. SPLICING CABLES IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED.
11. LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
12. CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNER'S APPROVAL PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
14. ALL DEVICES SHOWN ON THESE PLANS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT. THE INSTALLATION CONTRACTOR SHALL DEPICT ALL DEVICES ONTO ELEVATION SUBMITTALS BEFORE INSTALLATION. ANY DEVICE THAT IS NOT APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION MAY BE REQUIRED TO BE RELOCATED AS DIRECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGE TO THIS PROJECT.
15. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
16. SECURE ATTACHMENT OF TECHNOLOGY AND SECURITY DEVICES:
    A. TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS.
    B. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC. TO SECURELY ATTACH ITEMS TO EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.
17. ALL CONDUIT IS TO ABOVE ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
18. PLACEMENT OF ALL SECURITY VIDEO SURVEILLANCE CAMERAS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.

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STATE OF CONNECTICUT — KEVIN MALIK — REG. NO. 21827 — NCARB NO. 91091 — LICENSED ARCHITECT

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

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SECURITY SYMBOL LEGEND & GENERAL NOTES

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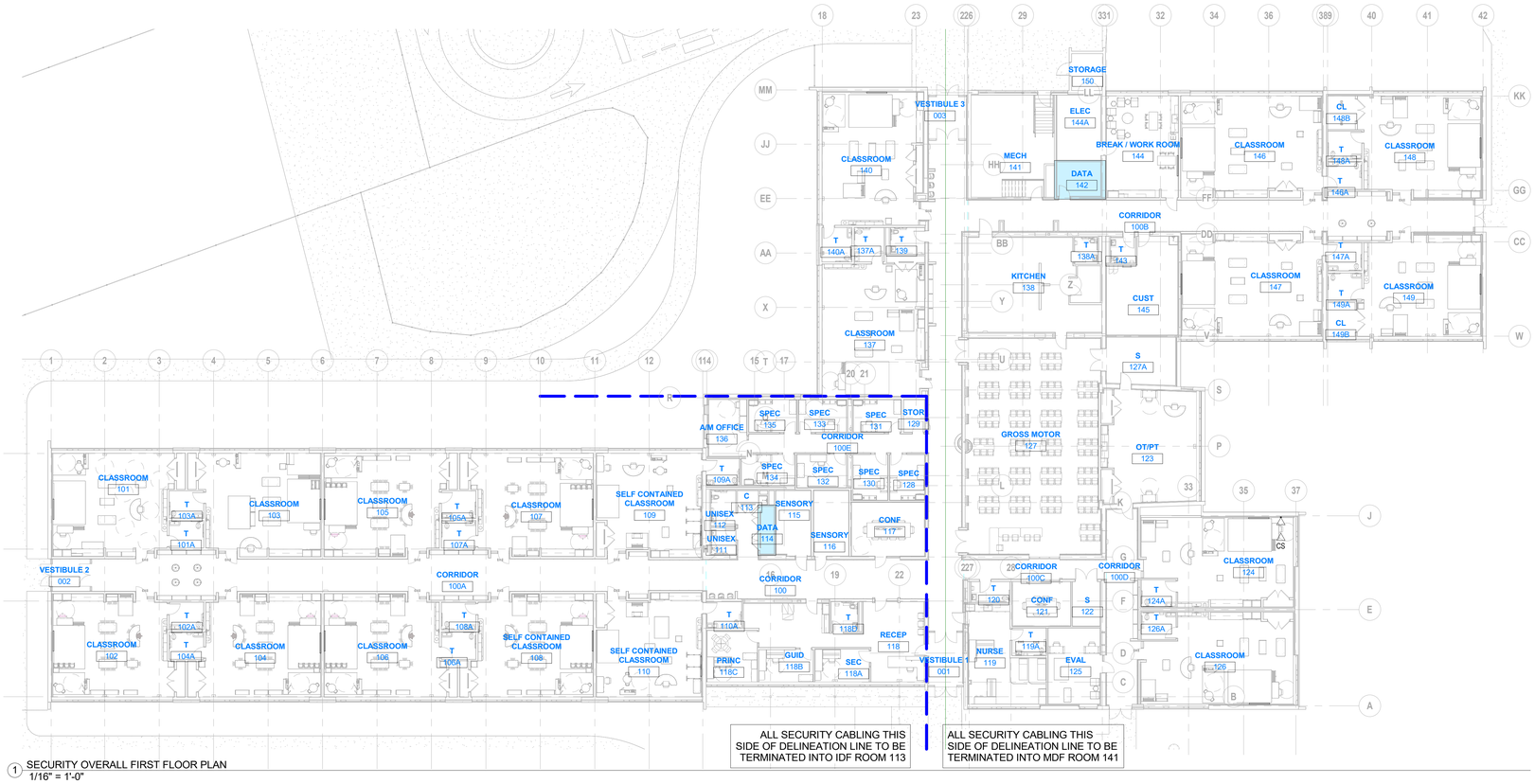

1 SECURITY OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"

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AREA A
AREA B

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SECURITY OVERALL FIRST FLOOR PLAN

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1 Sec - FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

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SECURITY FIRST FLOOR PLAN - AREA A

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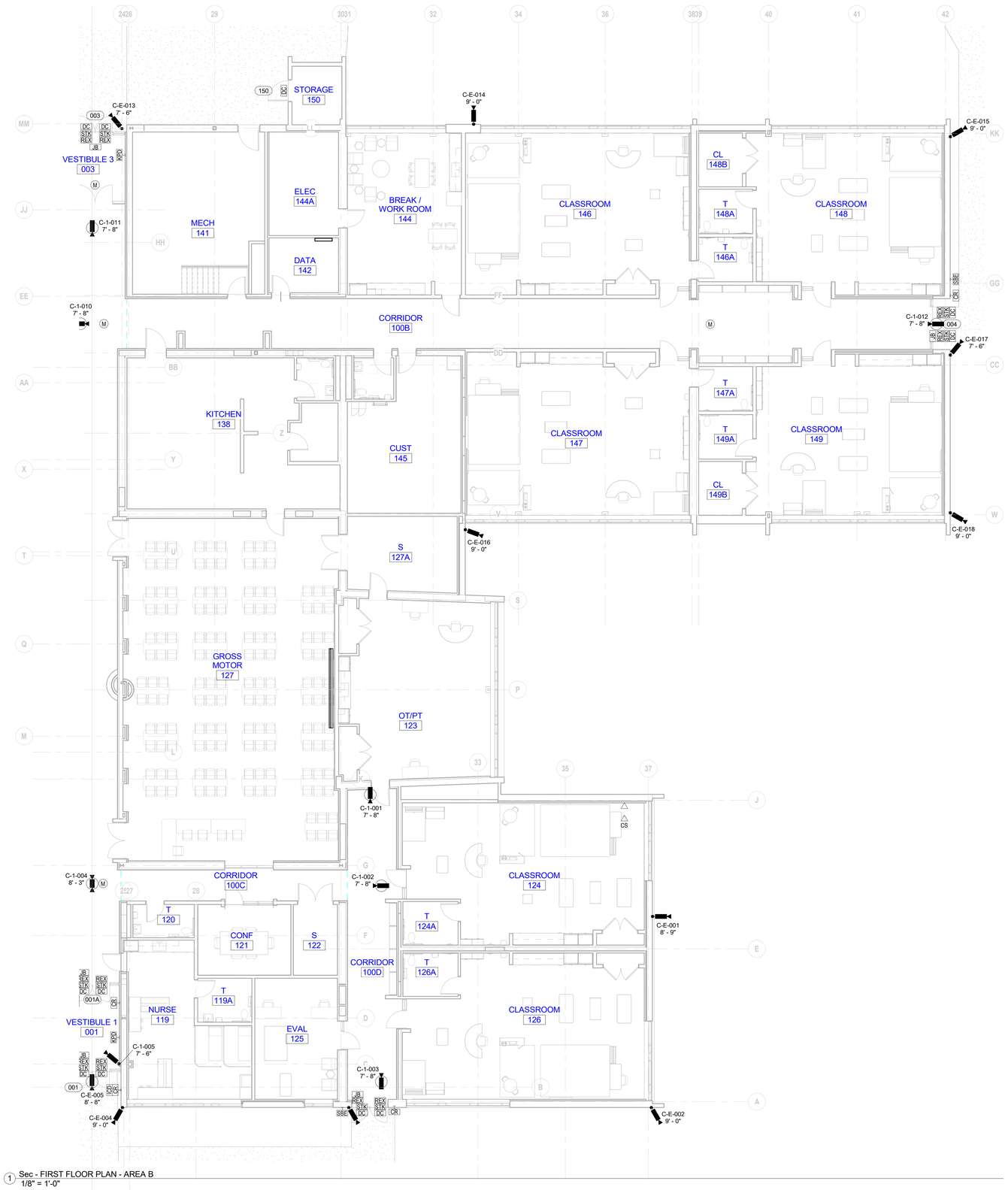

1 Sec - FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

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SECURITY FIRST FLOOR PLAN - AREA B

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1 SEC OVERALL RCP PLAN
1/16" = 1'-0"

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AREA A
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SECURITY OVERALL RCP PLAN

TY2.1

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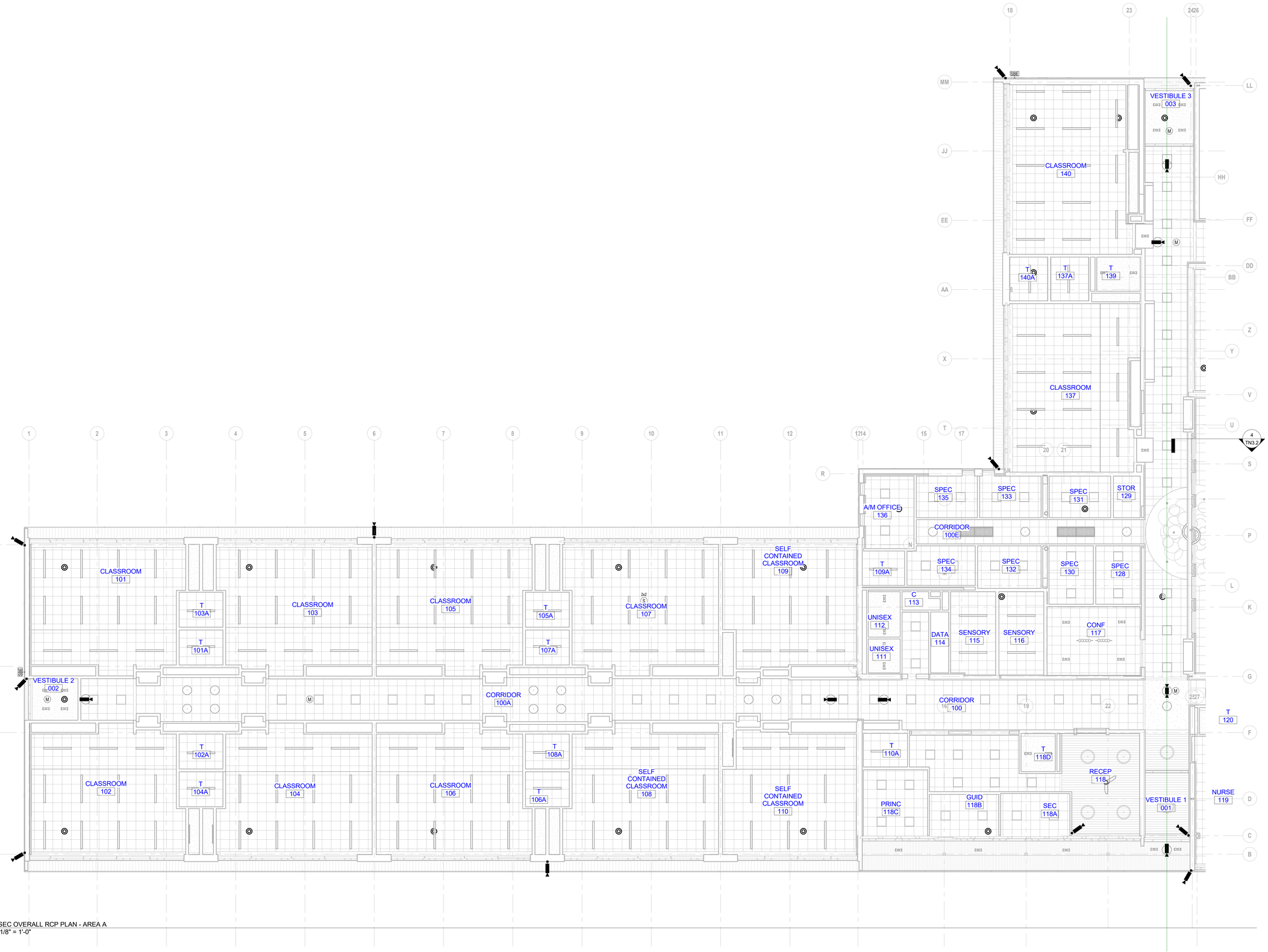

1 SEC OVERALL RCP PLAN - AREA A
1/8" = 1'-0"

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SECURITY RCP PLAN - AREA A

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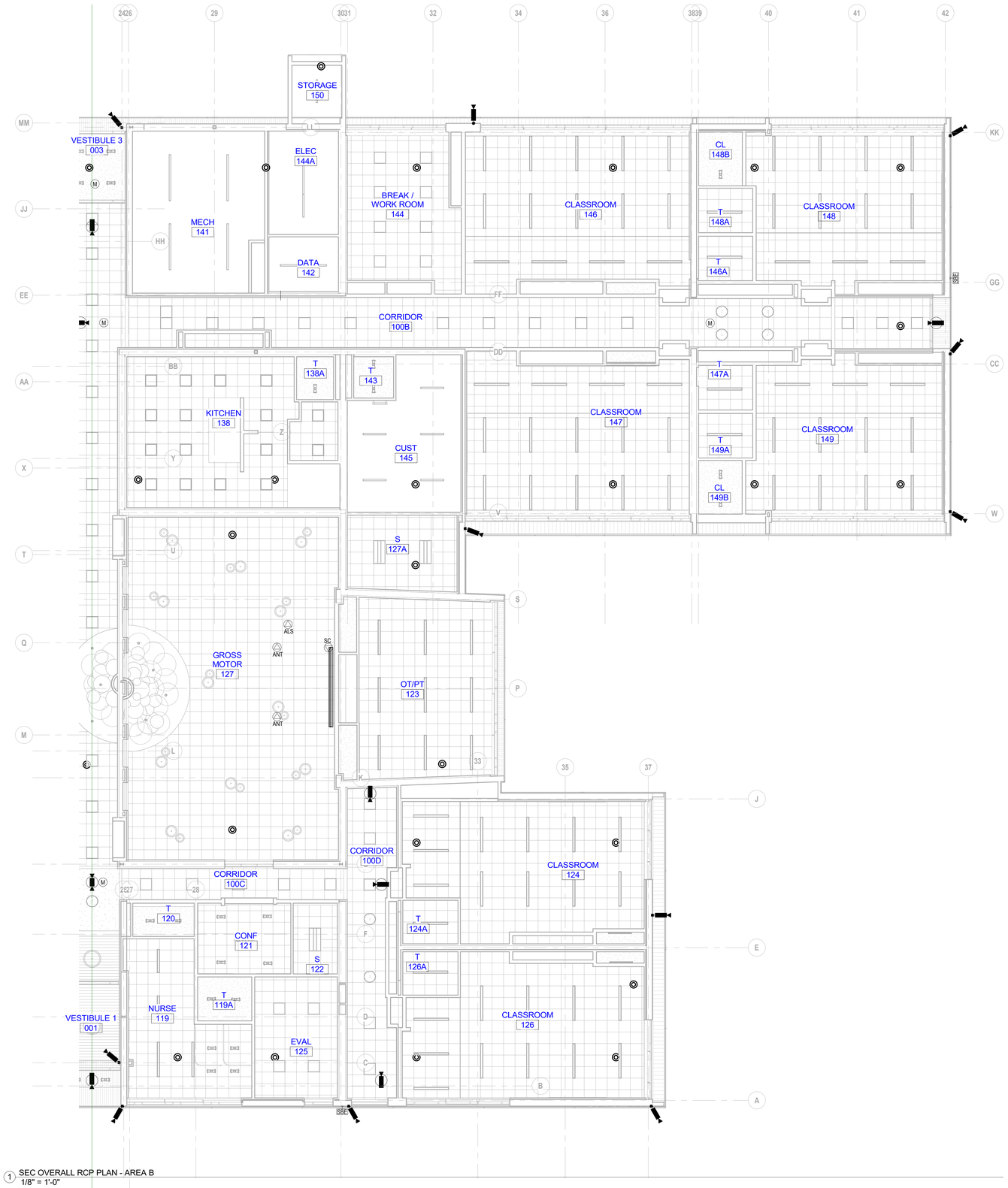

1 SEC OVERALL RCP PLAN - AREA B
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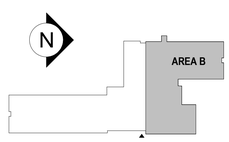

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SECURITY RCP PLAN - AREA B

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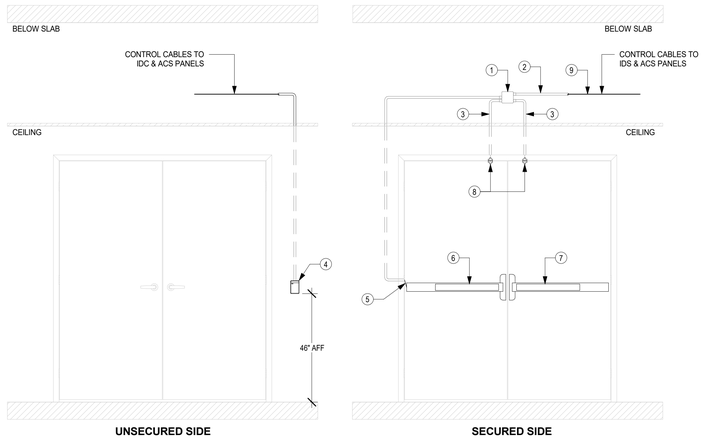
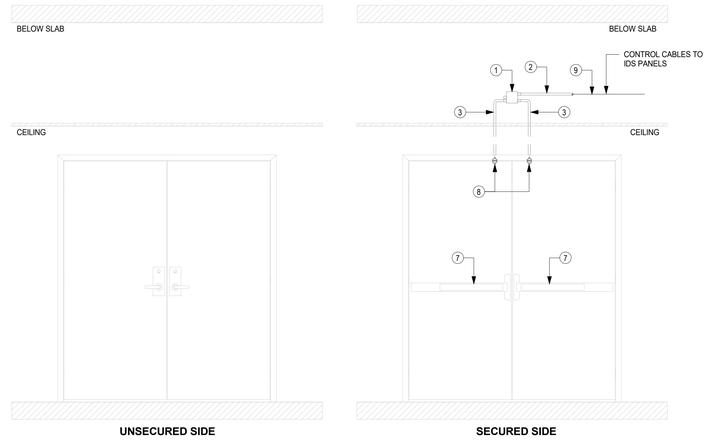
IDS & ACS DOOR KEYNOTES

1. 4"X4"X2-1/8" DEEP JUNCTION BOX (JB) ON SECURE SIDE, ABOVE ACCESSIBLE CEILING FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
2. 1" CONDUIT TO [JB] FOR SECURITY COMPOSITE CABLE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
3. 3/4" CONDUIT TO [JB] FOR SECURITY DEVICES FURNISHED AND INSTALLED BY GENERAL CONTRACTOR. TYPICAL FOR ALL DEVICES.
4. CARD READER [CR] - FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED 46" A.F.F. ON UNSECURED SIDE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
5. ELECTRIFIED TRANSFER HINGE (12 CONDUCTOR MINIMUM) AND WIREWAY TO CRASH BAR FURNISHED AND INSTALLED BY DIVISION 08 DOOR HARDWARE.
6. CRASH BAR WITH ELECTRIFIED TRIM AND INTEGRATED REQUEST-TO-EXIT [REX] - CRASH BAR AND TRIM FURNISHED AND INSTALLED BY DIVISION 08 DOOR HARDWARE. CONNECTION TO ELECTRIFIED TRANSFER HINGE FOR LOCK AND REX BY SECURITY CONTRACTOR. DOOR PREP BY GENERAL CONTRACTOR.
7. NON-ELECTRIFIED CRASH BAR AND TRIM LOCK FURNISHED AND INSTALLED BY DIVISION 08 DOOR HARDWARE.
8. DOOR POSITION SWITCH FURNISHED AND INSTALLED BY DIVISION 08 DOOR HARDWARE. CABLED BY SECURITY CONTRACTOR. DOOR AND FRAME PREP BY GENERAL CONTRACTOR.
9. COMPOSITE ACCESS CONTROL CABLE FURNISHED AND INSTALLED BY SECURITY CONTRACTOR.
10. REQUEST TO EXIT [REX] MOTION SENSOR INSTALLED ON SECURED SIDE OF DOOR FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. SINGLE GANG ELECTRICAL BOX FLUSH MOUNTED HORIZONTALLY @ 6'-8"AFF ON UNSECURED SIDE OF DOOR FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
11. ELECTRIC STRIKE FURNISHED AND INSTALLED BY DIVISION 08 DOOR HARDWARE. CABLE AND CONNECTION BY SECURITY CONTRACTOR



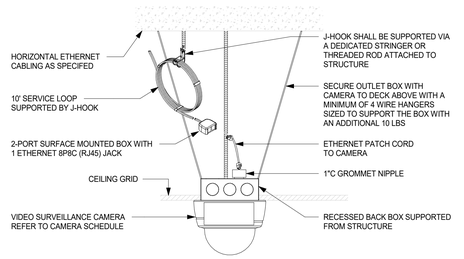
NOTE: REFER TO ACS & IDS DOOR KEYNOTES - THIS SHEET.

1 ACS - DOUBLE DOOR W/ELECTRIC TRANSFER HINDGE
NTS

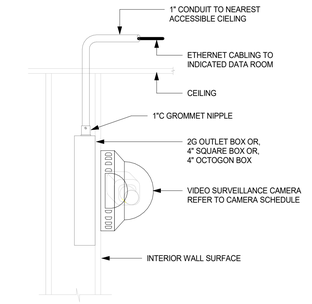


NOTE: REFER TO ACS & IDS DOOR KEYNOTES - THIS SHEET.

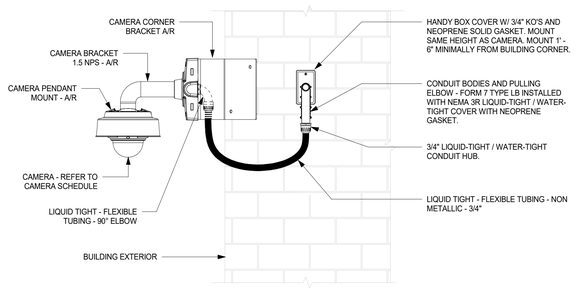
2 IDS DOUBLE DOOR -W/DPS
NTS



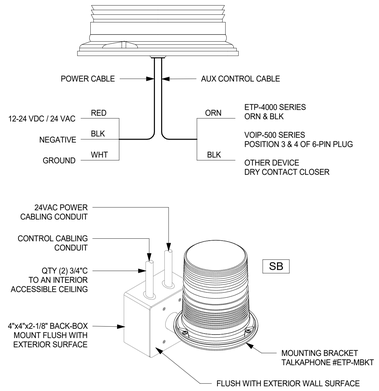
3 CAMERA - INTERIOR CEILING MOUNT
NTS



4 CAMERA - INTERIOR WALL MOUNT
NTS



5 CAMERA - EXTERIOR CORNER MOUNT
NTS



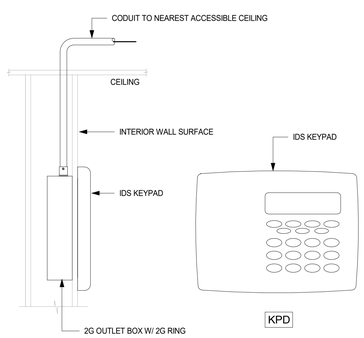
6 SECURITY - EMERGENCY STROBE LIGHT
NTS

NOTES:

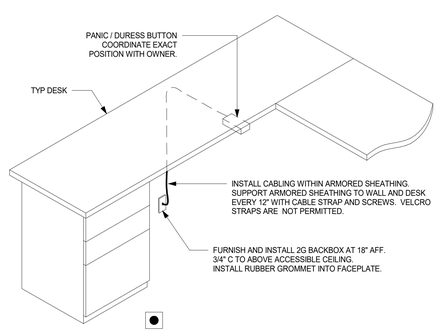
THE LOCKDOWN BUTTONS SHALL CONNECT TO THE ACCESS CONTROL SYSTEM, MASS NOTIFICATION SYSTEM (PUBLIC ADDRESS SYSTEM) AND FIRE ALARM SYSTEM. CONFIGURATION OF FUNCTIONALITY MUST BE COORDINATED WITH THE OWNER AND SECURITY CONSULTANT. AT A MINIMUM,THE FOLLOWING FEATURES SHALL BE OCCUR UPON ACTIVATION:

1. MUST LOCK DOWN ALL ACCESS CONTROLLED DOORS WITH ASSOCIATED THREAT LEVELS CONFIGURED INTO THE ACCESS CONTROLLED SYSTEM FOR ALL CONTROLLED DOORS. THIS THREAT LEVEL ACCESS SHALL BE DESCRIBED BY THE OWNER DURING CONFIGURATION OF THESE SECURITY SYSTEMS. AS AN EXAMPLE: THE PRINCIPAL, FIRE AND POLICE SHALL BE THE ONLY PEOPLE AUTHORIZED PERSONNEL ALLOWED ACCESS THROUGH THE CONTROLLED DOORS.
2. MUST INTERFACE WITH THE FIRE ALARM SYSTEM TO CLOSE SMOKE DOORS.
3. MUST NOTIFY THE SECURITY MONITORING COMPANY OF AN EMERGENCY EVENT.
4. MUST INITIATE AN EMERGENCY BROADCAST OVER THE MASS NOTIFICATION SYSTEM / PUBLIC ADDRESS SYSTEM. THIS PRE-RECORDED MESSAGE SHALL BE CREATED WITH THE OWNER DURING SYSTEM CONFIGURATION OF THE PA SYSTEM.
5. THE LOCKDOWN BUTTON SHALL BE COLORED GREEN.
6. LABEL AS "LOCKDOWN"
7. MOUNT 48" AFF
8. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. LOCKDOWN BUTTON MUST IONCLUDE A PROTECTIVE, HINGED, COVER.

7 IDS - LOCKDOWN BUTTON
NTS



8 IDS - KEYPAD DETAIL
NTS



9 ACS - PANIC / DURESS BUTTON MTG DETAIL
NTS

QA+M architecture
QuisenberryArcariMalik
195 Scott Swamp Road
Farmington, CT 06032
qamarch.com

d'agostino & ASSOCIATES
Technology Security Audio Visual
477 Main Street, Suite 210B | Monroe CT 06468
203.497.3064 da-technology.com

STATE OF CONNECTICUT
ARTHUR MALIK
No. 9109
REGISTERED ARCHITECT

RENOVATE AS NEW:
EDGEWOOD PRE-K ACADEMY
345 MIX STREET
BRISTOL, CT
State Project #: 017-0090 RNV
Project #:25064

Revisions

100% CONSTRUCTION DOCUMENTS
JUNE 5, 2026

SECURITY DETAILS

TY3.1

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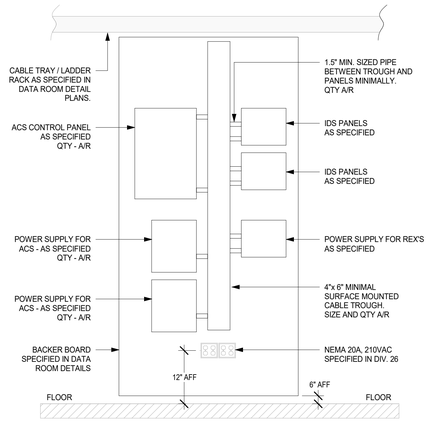
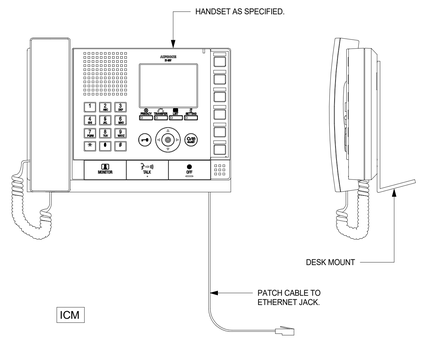
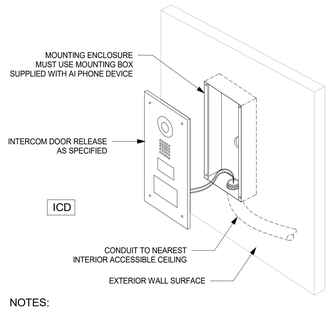


1 ACS & IDC TYP CONTROL PANEL ELEVATION
NTS

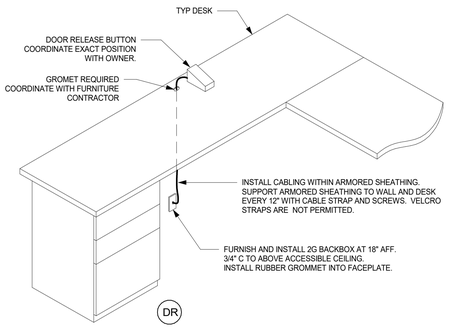


2 ACS - INTERCOM MASTER STATION
NTS

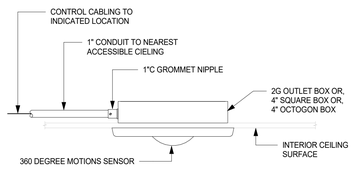


NOTES:
1. CONDUIT LAYOUT MUST BE INCLUDED FOR CARD READER LOCATIONS AS SPECIFIED WITHIN THE ACCESS CONTROL DOOR DETAILS.
2. CABLING AT THE AIPHONE DEVICE SHALL INCLUDE THE FOLLOWING:
   A. 20-2C PLENUM CABLE FOR CONTACT INPUT
   B. 20-4C PLENUM CABLE FOR DOOR RELAY TO ELECTRIC LOCK
   C. PLENUM CAT 6 TO PATCH PANEL
   D. ICLASS READER WIRING TO ACCESS CONTROL PANEL

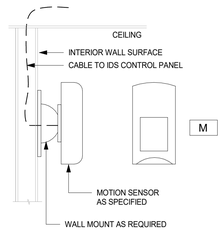
3 ACS - INTERCOM VIDEO DOOR RELEASE
NTS



4 ACS - DOOR RELEASE BUTTON MTG DETAIL
NTS



5 IDS - 360 DEGREE MOTION SENSOR
NTS



6 IDS - MOTION SENSOR WALL MTG
NTS

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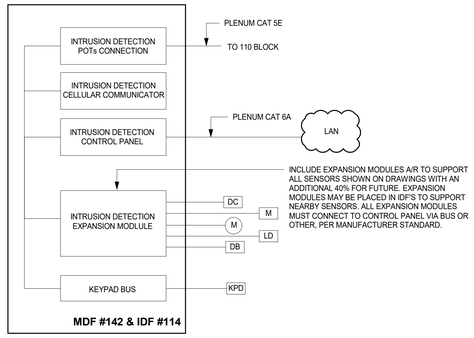
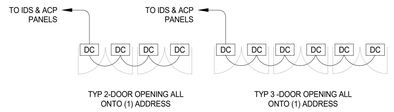
CAMERA SCHEDULE				
CAM #	MANUFACTURER	MODEL	MOUNTING TYPE	NOTES
C-1-001	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-002	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-003	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-004	AVIGILON	6.0C-H5DH-D01-IR	CEILING	
C-1-005	AVIGILON	4.0C-H5A-D1-IR	WALL	
C-1-006	AVIGILON	4.0C-H5A-D1-IR	WALL	
C-1-007	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-008	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-009	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-010	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-011	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-1-012	AVIGILON	4.0C-H5A-D1-IR	CEILING	
C-E-001	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-002	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-003	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-004	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-005	AVIGILON	4.0C-H5A-DO1-IR	CEILING	
C-E-006	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-007	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-008	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-009	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-010	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-011	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-012	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-013	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-014	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-015	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	
C-E-016	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-017	AVIGILON	4.0C-H5A-DO1-IR	WALL	
C-E-018	AVIGILON	6.0C-H5HD-DO1-IR	WALL PENDANT	

4 CAMERA SCHEDULE
NTS



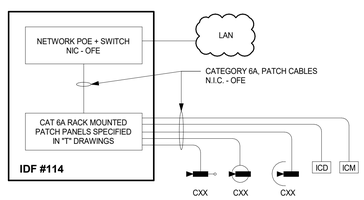
DOOR GANGING DIAGRAMS

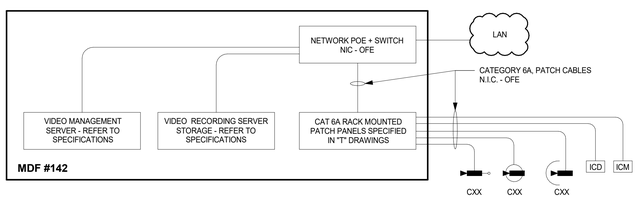


3 IDS- WIRING DIAGRAM
NTS

NOTES:

1. **CONTROL PANEL CAPACITY:** THE IDS CONTROL PANEL SHALL INCLUDE AN ADDITIONAL 40% CAPACITY FOR FUTURE EXPANSION OF SENSORS.
2. ZONING REQUIREMENTS: ZONING DETAILS SHALL BE PROVIDED BY THE OWNER PRIOR TO INSTALLATION. AT A MINIMUM, THE SYSTEM SHALL BE CONFIGURED TO ALLOW SEPARATE ARMING AND DISARMING FOR THE FOLLOWING ZONES:
   A. ENTIRE BUILDING
   B. GYMNASIUM
   C. AUDITORIUM
   D. CENTRAL ADMINISTRATION AREA
   E. EACH GRADE LEVEL
   F. EACH FLOOR
   G. EXTERIOR OF THE BUILDING
3. **COMMUNICATION CAPABILITIES:** THE IDS SHALL BE CAPABLE OF ALERTING CENTRAL MONITORING VIA CELLULAR, POTS (ANALOG), AND IP COMMUNICATION METHODS. ALL THREE TYPES OF COMMUNICATION MUST BE CONFIGURED AND OPERATIONAL IN THE SYSTEM.
4. **DAY-ALARM CONFIGURATION:** THE SYSTEM SHALL INCLUDE A "DAY-ALARM" FEATURE TO NOTIFY SCHOOL ADMINISTRATORS IF DOORS ARE PROPPED OPEN. NOTIFICATIONS SHALL BE CONFIGURABLE TO SEND ALERTS VIA TEXT AND EMAIL AS DIRECTED BY THE OWNER DURING SYSTEM SETUP. THE SYSTEM MUST ALLOW PROGRAMMING OF ALERTS BASED ON THE DURATION THAT DOORS REMAIN PROPPED OPEN.
5. **GRAPHICAL USER INTERFACE:** THE IDS SHALL INCLUDE A GRAPHICAL USER INTERFACE FEATURING A MAP OF THE FACILITY TO VISUALLY INDICATE DOOR PROPPED OPEN SENSORS. ALL NECESSARY LICENSING AND SOFTWARE FOR THIS FEATURE SHALL BE INCLUDED.
6. **COMPLETE SYSTEM INSTALLATION:** ALL ENCLOSURES, CABLING, TERMINATIONS, CONFIGURATION, AND FINAL TESTING ARE REQUIRED TO DELIVER A FULLY FUNCTIONAL SYSTEM.
7. **POWER SUPPLIES:** INCLUDE ALL BATTERIES AND POWER SUPPLIES AS SPECIFIED AND REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
8. **SYSTEM MODULES:** PROVIDE ALL MODULES NECESSARY TO ACHIEVE A FULLY FUNCTIONAL SYSTEM.
9. **DEVICE CABLING:** EACH ENDPOINT SHALL BE CABLED AS A HOMERUN TO THE APPROPRIATE MDF (MAIN DISTRIBUTION FRAME) OR IDF (INTERMEDIATE DISTRIBUTION FRAME).
10. **SENSOR CONFIGURATION:** EACH SENSOR SHALL BE INDIVIDUALLY CONFIGURED TO PROVIDE A UNIQUELY IDENTIFIED POINT FOR CENTRAL MONITORING, ENABLING EXACT IDENTIFICATION OF THE SENSOR IN ALARM CONDITIONS.
11. **SYSTEM INTEGRATION:** THE SYSTEM SHALL OPERATE AS ONE COMPLETE AND INTEGRATED SYSTEM.
12. **WIRE GAUGES AND INSPECTION:** CONFIRM ALL WIRE GAUGES WITH THE MANUFACTURER BEFORE INSTALLATION. INCLUDE ALL EOL (END OF LINE) RESISTORS. DO NOT APPLY POWER TO THE SYSTEM UNTIL AN OSM (OWNER'S SITE MANAGER) REPRESENTATIVE HAS INSPECTED AND APPROVED THE INSTALLATION TO PREVENT POTENTIAL EQUIPMENT DAMAGE.
13. **CABLING STANDARDS:** ALL CABLING USED SHALL BE PLENUM RATED.
14. **SHOP DRAWING SUBMITALS:** THE CONTRACTOR AWARDED THIS PROJECT SHALL SUBMIT A COMPREHENSIVE SET OF SHOP DRAWINGS DURING THE PRODUCT SUBMITTAL PHASE. THESE DRAWINGS MUST DETAIL EACH DEVICE AND ITS INTERCONNECTION, AND THEY MUST BE APPROVED PRIOR TO ROUGH-IN OR CABLE INSTALLATION.

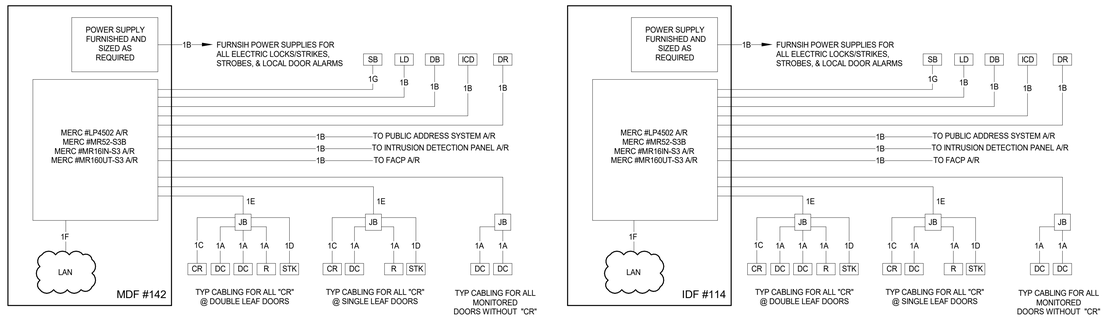




NOTES:

1. **CAMERA TERMINATION:** REFER TO THE SECURITY DRAWINGS TO DETERMINE THE SPECIFIC DATA ROOM WHERE EACH CAMERA IS TERMINATED.
2. **INTERCOM VIDEO STORAGE:** ENSURE THAT VIDEO FROM INTERCOM DOOR RELEASES IS STORED ON THE VIDEO SURVEILLANCE SERVERS. INCLUDE AND CONFIGURE ALL NECESSARY LICENSES.
3. **ACCESS CONTROL INTEGRATION:** CONFIGURE INTERCOM DOOR RELEASES TO UNLOCK THE APPROPRIATE DOORS VIA THE ACCESS CONTROL PANELS.
4. **MASTER STATION ROLL-OVER CONFIGURATION:** SET UP INTERCOM DOOR RELEASES AND MASTER STATIONS TO "ROLL-OVER" TO ALTERNATE MASTER STATIONS IF A CALL IS NOT ANSWERED WITHIN A SPECIFIED TIME FRAME. ENSURE EACH INTERCOM DOOR RELEASE CAN ACTIVATE ANY MASTER STATION IN THE FACILITY. COORDINATE THE ROLL-OVER PROCEDURES AND SEQUENCE OF OPERATIONS WITH THE OWNER DURING THE CONFIGURATION PROCESS.
5. **EQUIPMENT QUANTITIES:** VERIFY AND CONFIRM THE QUANTITIES OF CAMERAS, INTERCOM DOOR RELEASES, AND MASTER STATIONS AS PART OF THE SCOPE OF WORK OUTLINED IN THE SECURITY DRAWINGS.

2 VSS- WIRING DIAGRAM
NTS



NOTES:

1. **DOOR CONTROLLERS:** THE QUANTITY OF DOOR CONTROLLERS SHALL CORRESPOND TO THE CARD READER QUANTITIES SPECIFIED ON THE PLANS.
2. **ELEVATOR CONTROL LICENSES AND COORDINATION:**
   A. INCLUDE ALL NECESSARY ELEVATOR CONTROL LICENSES.
   B. COORDINATE ELEVATOR FUNCTIONALITY WITH THE OWNER AND THE ELEVATOR CONTRACTOR.
   C. A CARD READER SHALL BE DEDICATED TO EACH ELEVATOR ON EACH FLOOR. UPON PRESENTATION OF A VALID CREDENTIAL, THE ACCESS CONTROL SYSTEM SHALL ACTIVATE THE ELEVATOR VIA THE ELEVATOR CONTROL PANEL.
   D. PROVIDE ALL REQUIRED LICENSES, CABLING, AND CONFIGURATIONS TO ENSURE A FULLY FUNCTIONAL SYSTEM.
3. **CONTROL CABLING:** ALL CONTROL CABLING FROM DATA ROOMS TO EACH ACCESS CONTROL DEVICE IS REQUIRED AND SHALL BE INCLUDED IN THE BID DOCUMENTATION.
4. **POWER CABLING:** PROVIDE ALL NECESSARY POWER CABLING TO EACH LOW-VOLTAGE DEVICE AT EVERY DOOR EQUIPPED WITH A CARD READER. THIS SHALL ALSO BE INCLUDED IN THE BID DOCUMENTATION.
5. **DOOR HARDWARE AND POWER SUPPLIES:** REFER TO DIVISION 08 – DOOR HARDWARE SPECIFICATIONS. ENSURE ALL REQUIRED POWER SUPPLIES ARE APPROPRIATELY SIZED TO SUPPORT CARD READERS, ELECTRONIC DOOR STRIKES/LOCKS, AND REQUEST-TO-EXIT DEVICES INTEGRATED INTO THE SYSTEM.
6. **SYSTEM TERMINATIONS AND TESTING:** THE CONTRACTOR SHALL PERFORM ALL FINAL TERMINATIONS, CONFIGURATION, AND TESTING.
7. **INTERCOM DOOR RELEASE:** THE INTERCOM DOOR RELEASE AND DOOR RELEASE BUTTONS SHALL RELEASE THE DOORS THROUGH THE ACCESS CONTROL SYSTEM (ACS) PANEL.
8. **FIRE ALARM INTEGRATION:** CONTROL CABLING TO THE FIRE ALARM CONTROL PANEL SHALL ENABLE THE RELEASE OF MAGNETIC HOLD-OPEN DOORS, AS SPECIFIED IN THE DRAWINGS, DURING A LOCKDOWN EVENT.
9. **LOCKDOWN AND DURESS FUNCTIONALITY:** ACTIVATION OF LOCKDOWN OR DURESS BUTTONS SHALL REGISTER AS AN ADDRESSABLE ALARM ON THE INTRUSION DETECTION PANEL AND TRIGGER A DIAL-OUT TO THE CENTRAL MONITORING COMPANY.
10. **MERCURY CONTROLLER CONNECTIONS:**
    A. MERCURY CONTROLLERS SHALL CONNECT TO READER INTERFACE PANELS AND I/O PANELS VIA RS-485 WITHIN THE ENCLOSURE.
    B. MERCURY CONTROLLERS SHALL ALSO CONNECT TO THE BUILDING LAN. NETWORK SWITCHES ARE PROVIDED BY OTHERS. COORDINATE SECURITY VLAN AND IP ADDRESSING WITH THE OWNER'S IT TEAM.

CABLE CHART	
KEY	WIRE TYPE
1A	#22 - 2C, PLENUM
1B	CABLE A/R PER DEVICES & MANUFACTURER RECOMMENDATIONS
1C	#18-6C SHD, PLENUM
1D	#18 - 2C SHL'D, PLENUM
1E	BELDEN #8584FJ COMPOSITE CABLE PLENUM or Equiv. #18-6C SHL'D, 22-2C, 22-4C, 18-4C
1F	CATEGORY 6A PATCH CORD, PLENUM
1G	#22-4C UNSHIELDED, SOLID, PLENUM

1 ACS - WIRING DIAGRAM - MERC PANELS
NTS

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