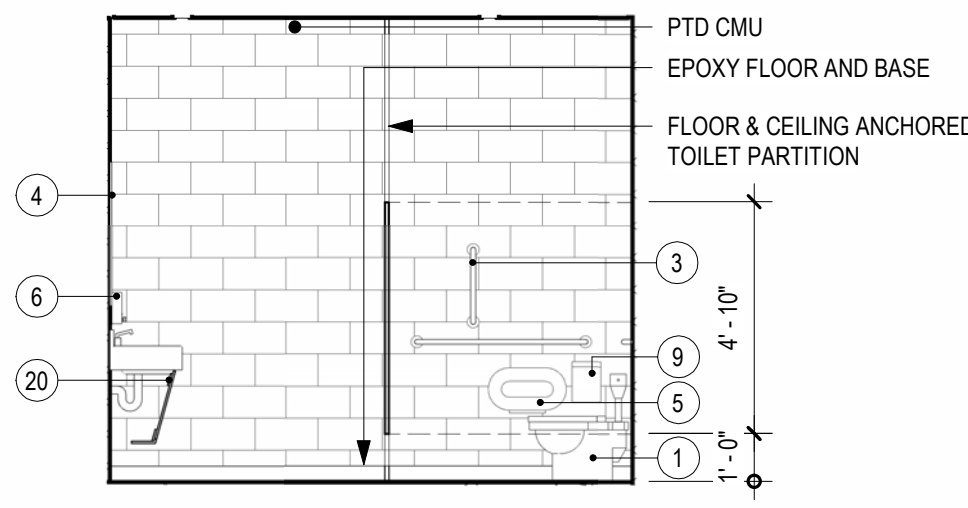
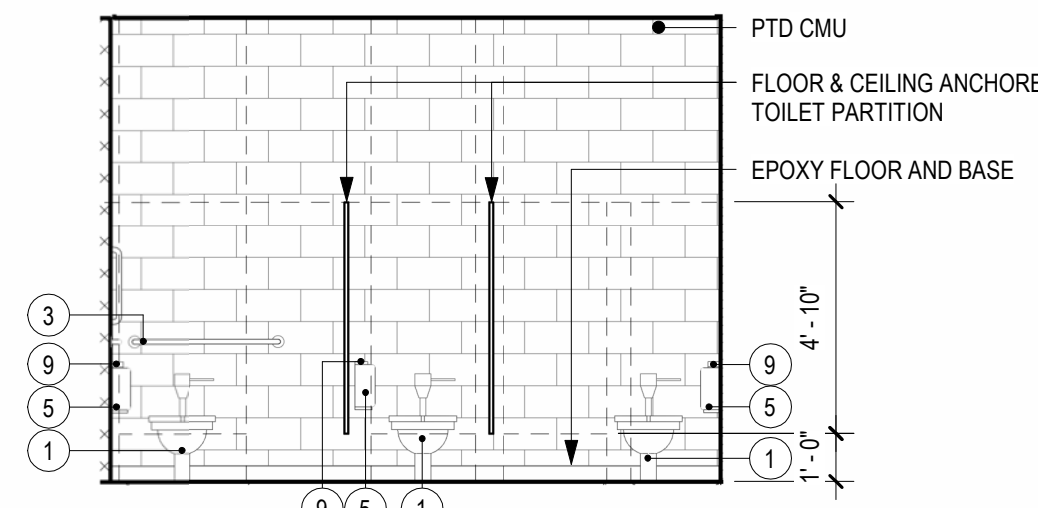


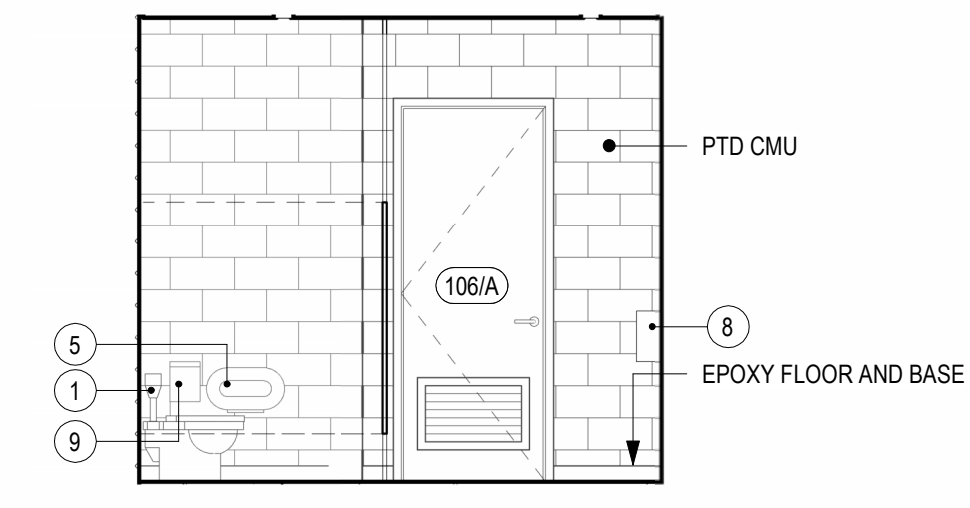
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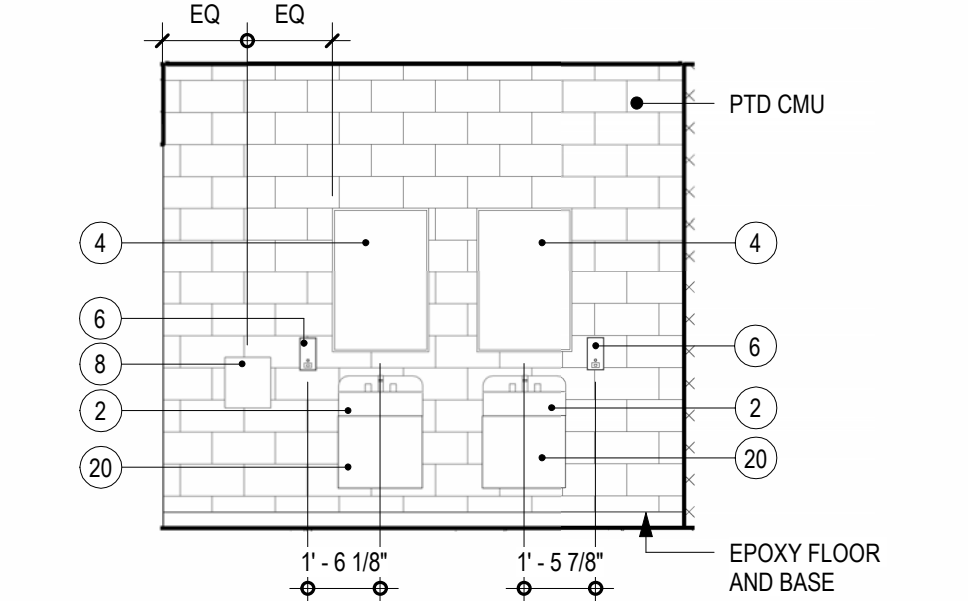
A1 WOMENS - RM 106 INT ELEV 4
1/4" = 1'-0"



A2 WOMENS - RM 106 INT ELEV 3
1/4" = 1'-0"

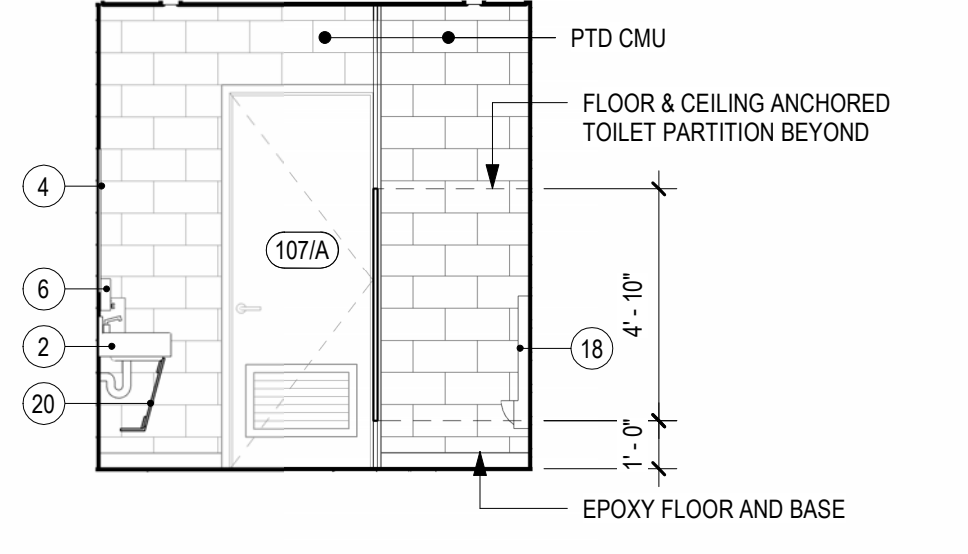


A3 WOMENS - RM 106 INT ELEV 2
1/4" = 1'-0"

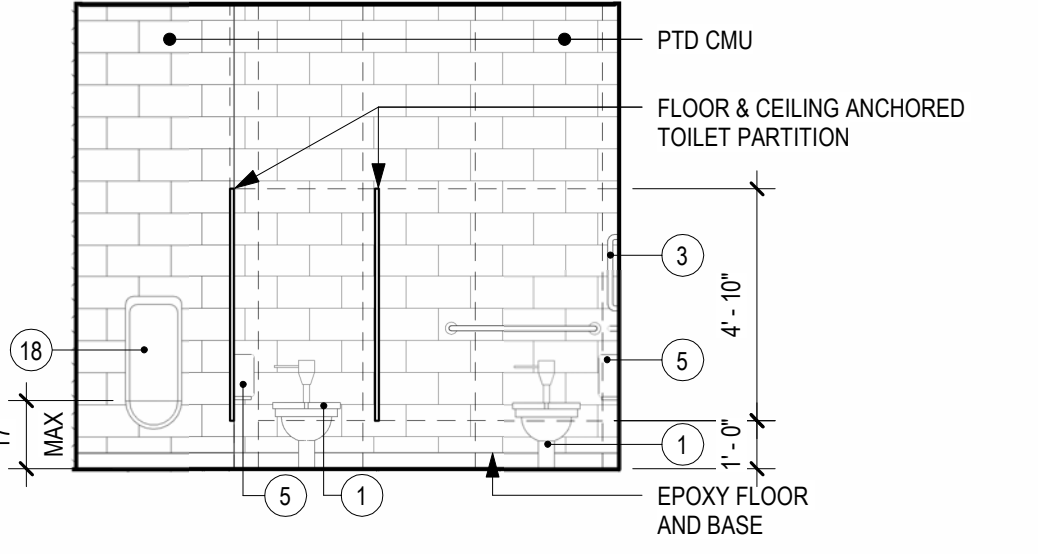


A4 WOMENS - RM 106 INT ELEV 1
1/4" = 1'-0"

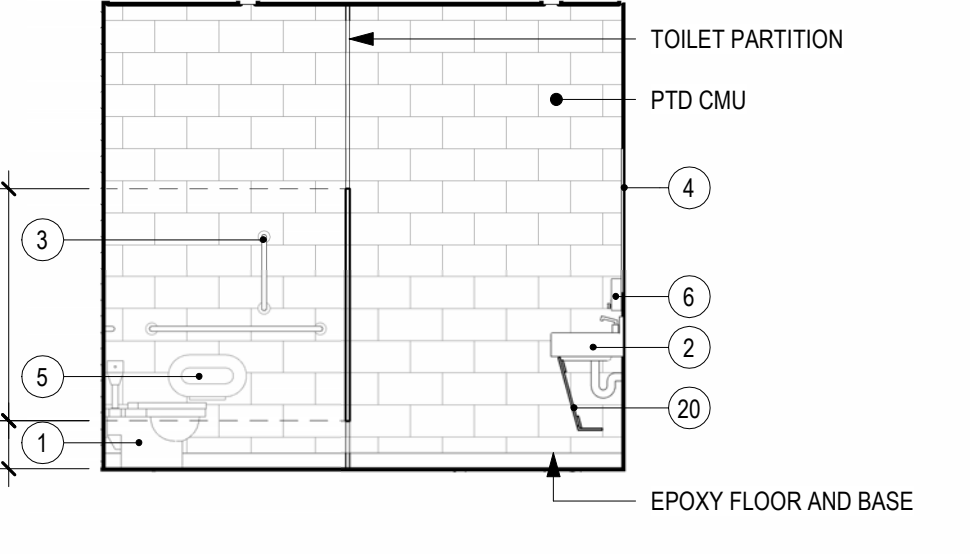
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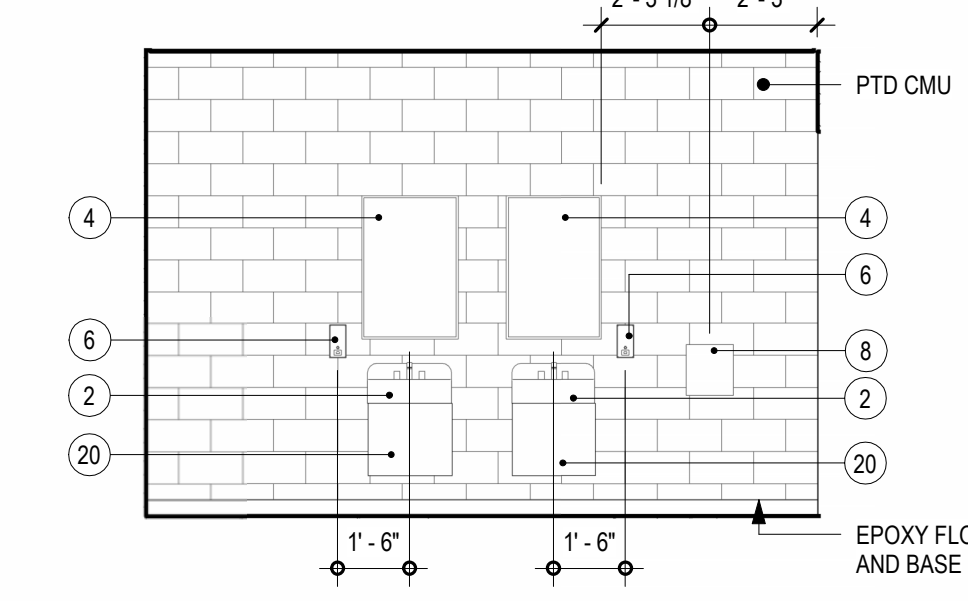
B1 MENS - RM 107 INT ELEV 4
1/4" = 1'-0"



B2 MENS - RM 107 INT ELEV 3
1/4" = 1'-0"

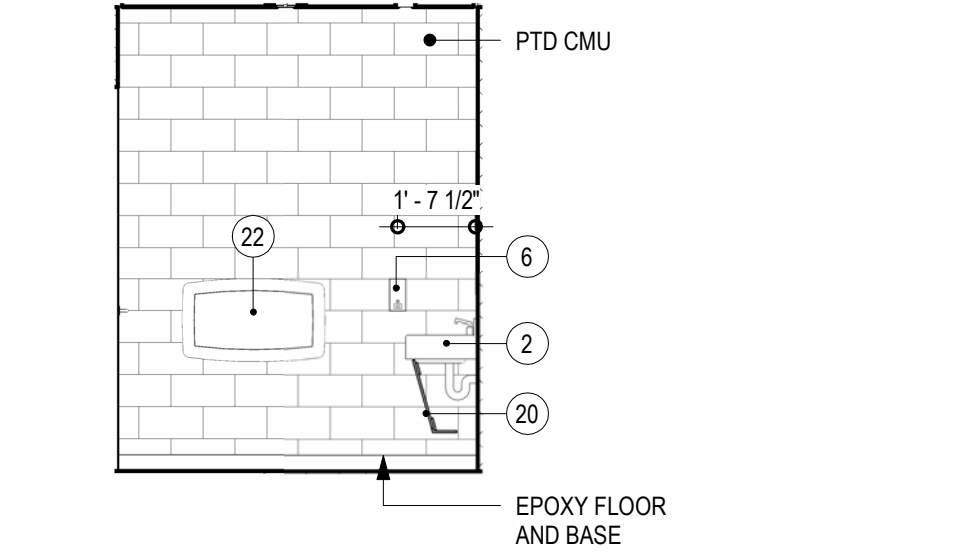


B3 MENS - RM 107 INT ELEV 2
1/4" = 1'-0"

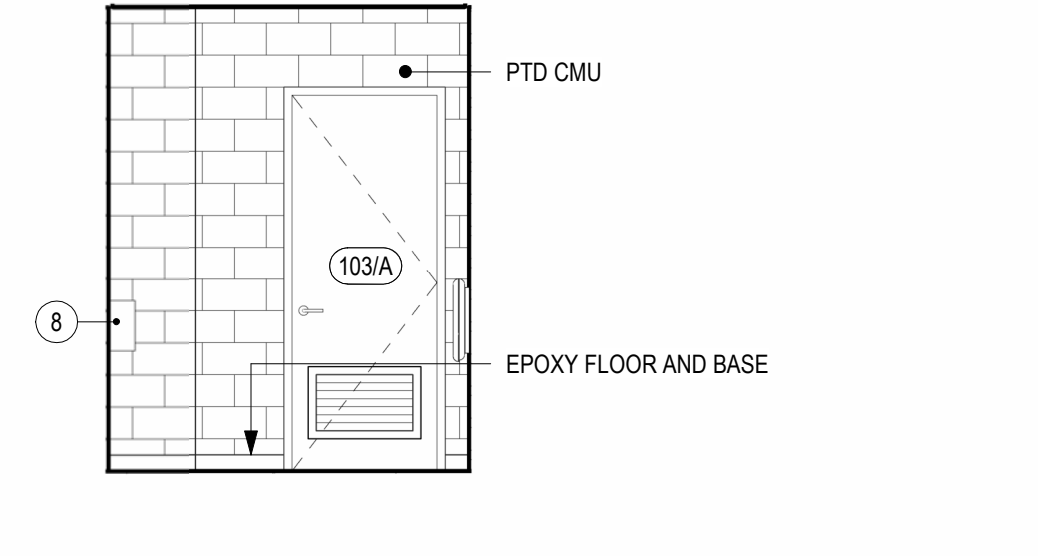


B4 MENS - RM 107 INT ELEV 1
1/4" = 1'-0"

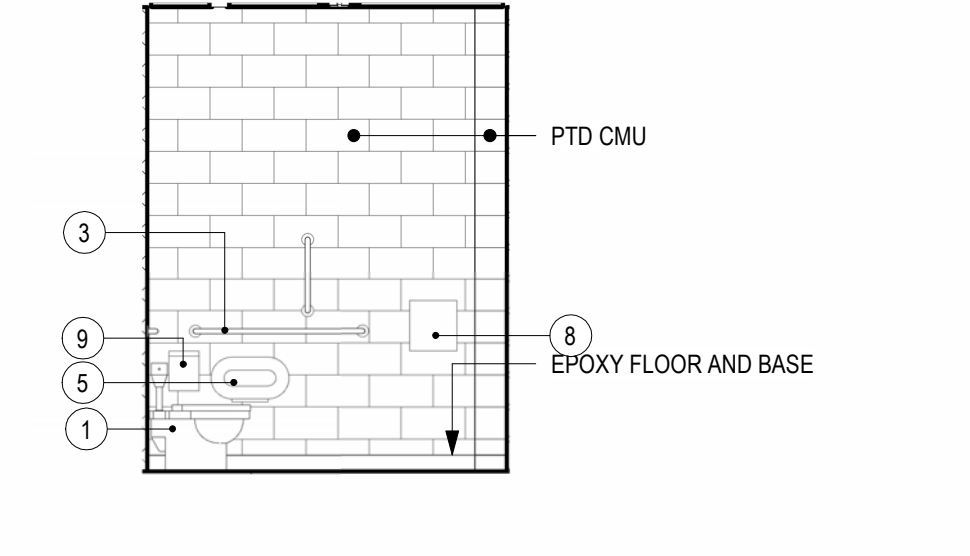
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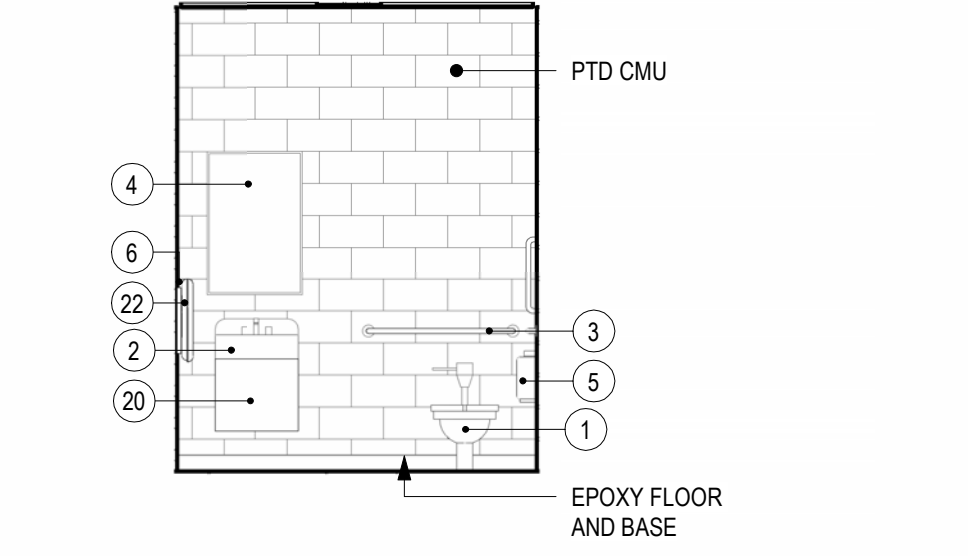
C1 ALL-GENDER RESTROOM - RM 103 INT ELEV 4
1/4" = 1'-0"



C2 ALL-GENDER RESTROOM - RM 103 INT ELEV 3
1/4" = 1'-0"

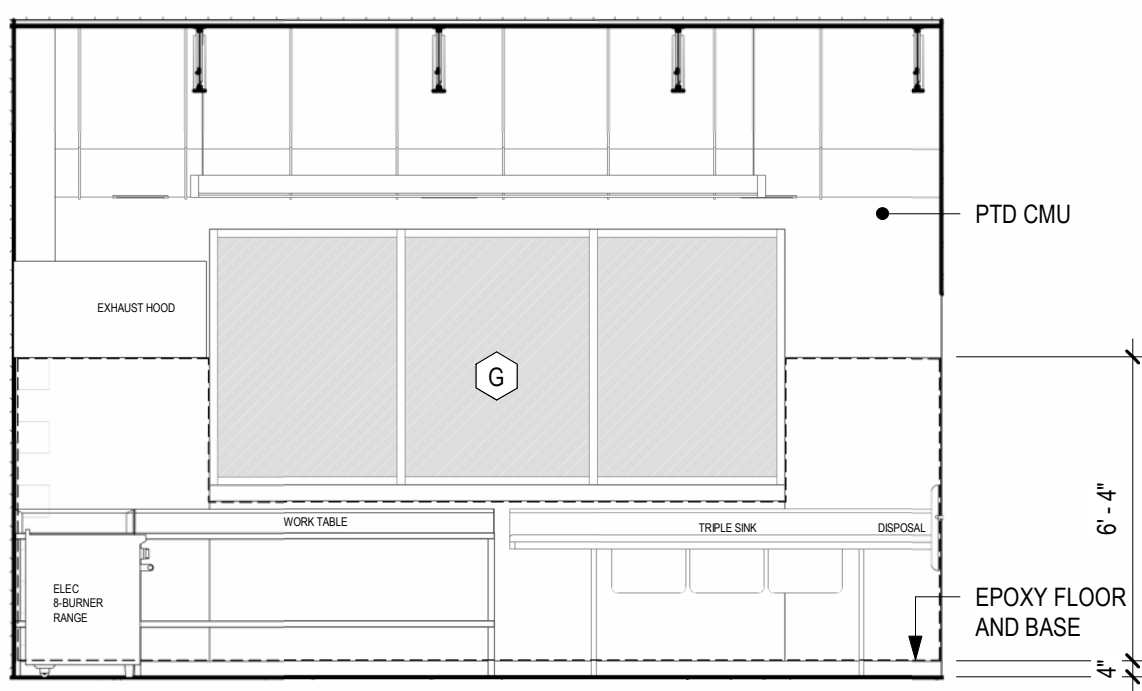


C3 ALL-GENDER RESTROOM - RM 103 INT ELEV 2
1/4" = 1'-0"

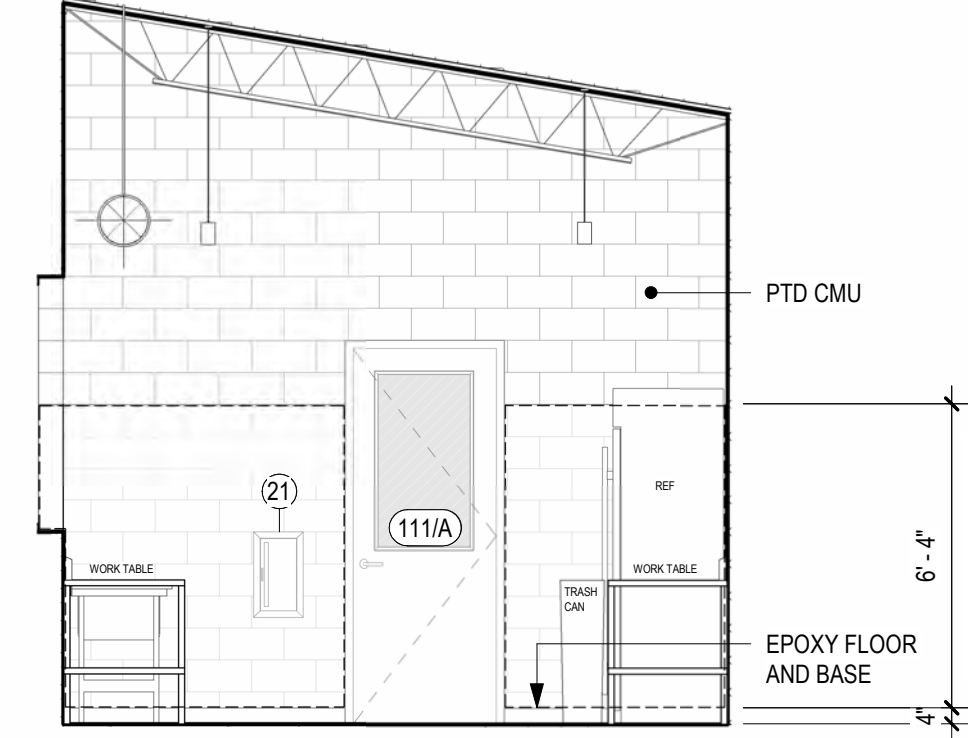


C4 ALL-GENDER RESTROOM - RM 103 INT ELEV 1
1/4" = 1'-0"

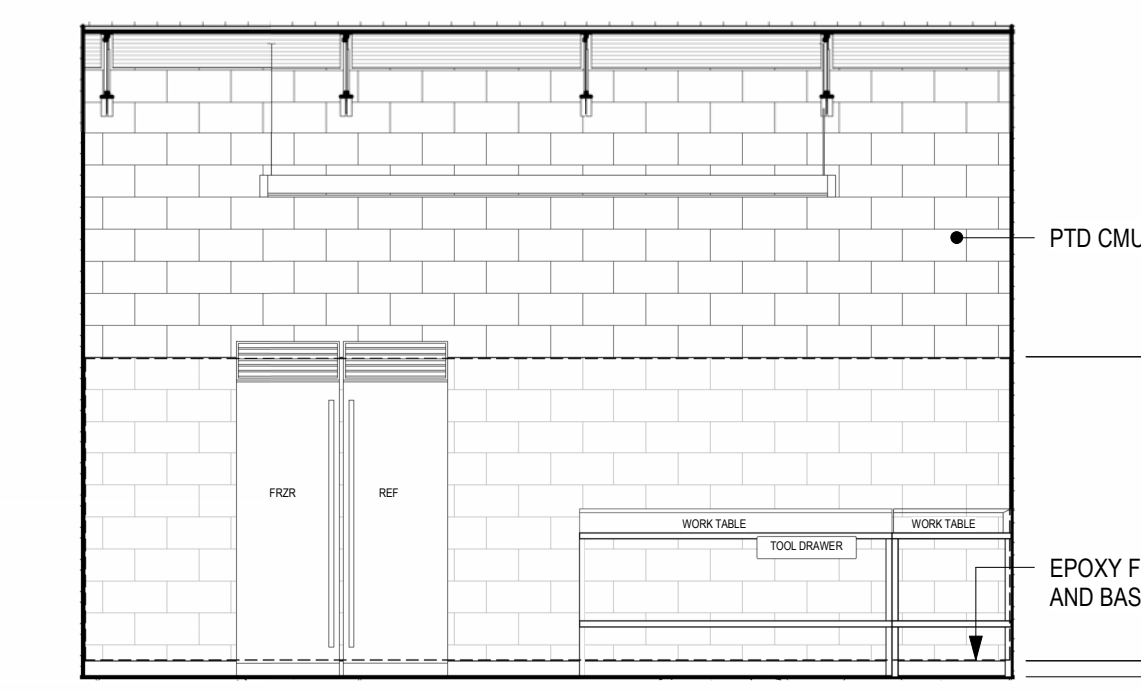
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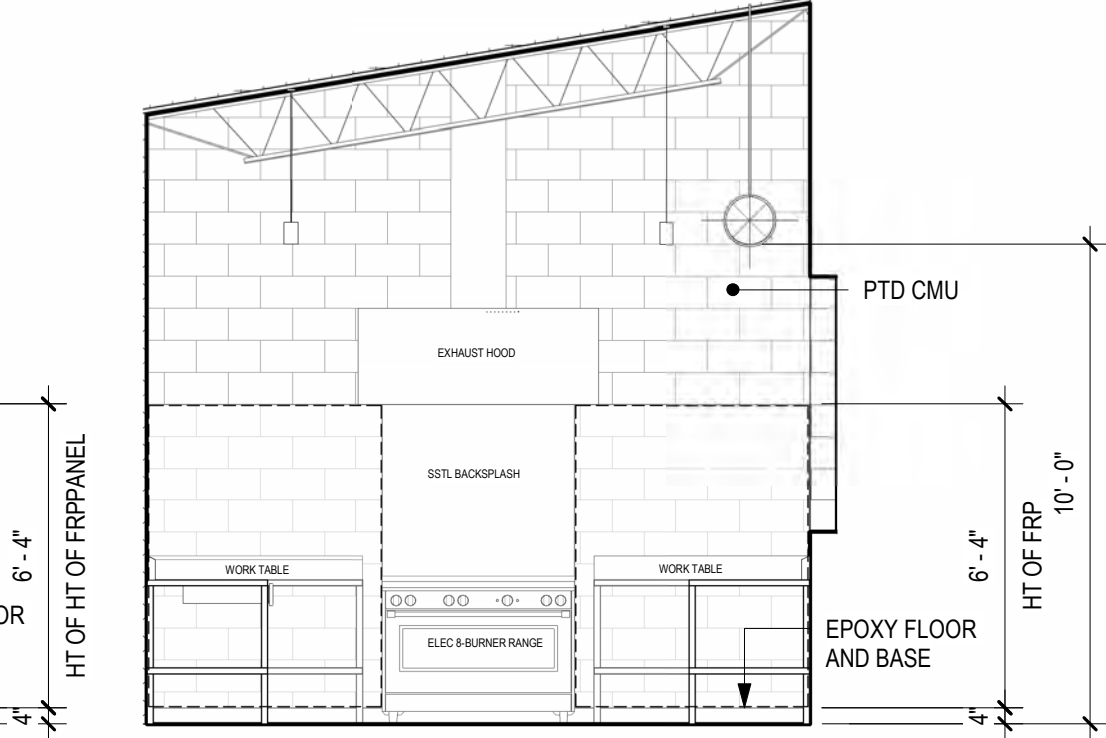
D1 KITCHEN - RM 113 INT ELEV 4
1/4" = 1'-0"



D2 KITCHEN - RM 113 INT ELEV 3
1/4" = 1'-0"

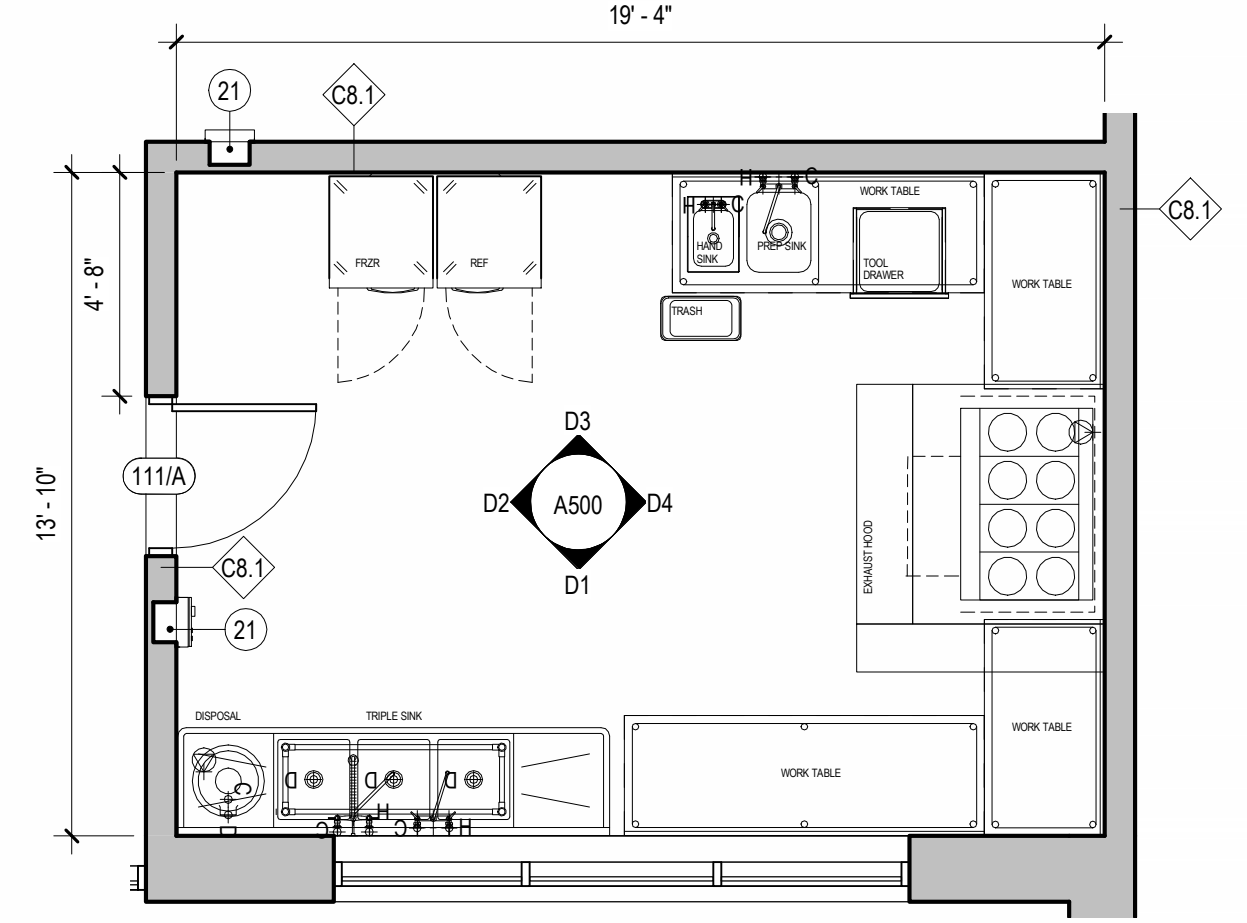


D3 KITCHEN - RM 113 INT ELEV 2
1/4" = 1'-0"

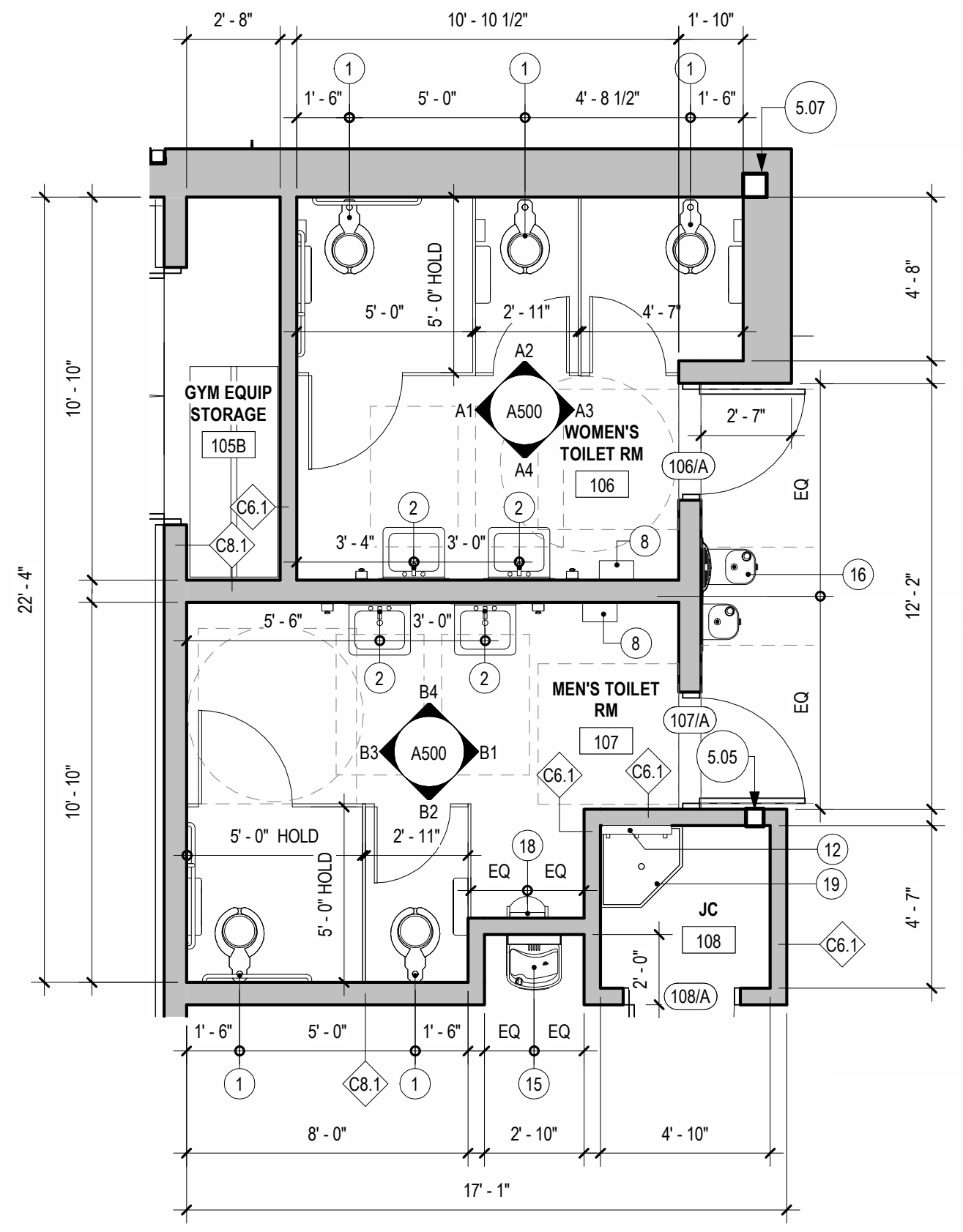


D4 KITCHEN - RM 113 INT ELEV 1
1/4" = 1'-0"

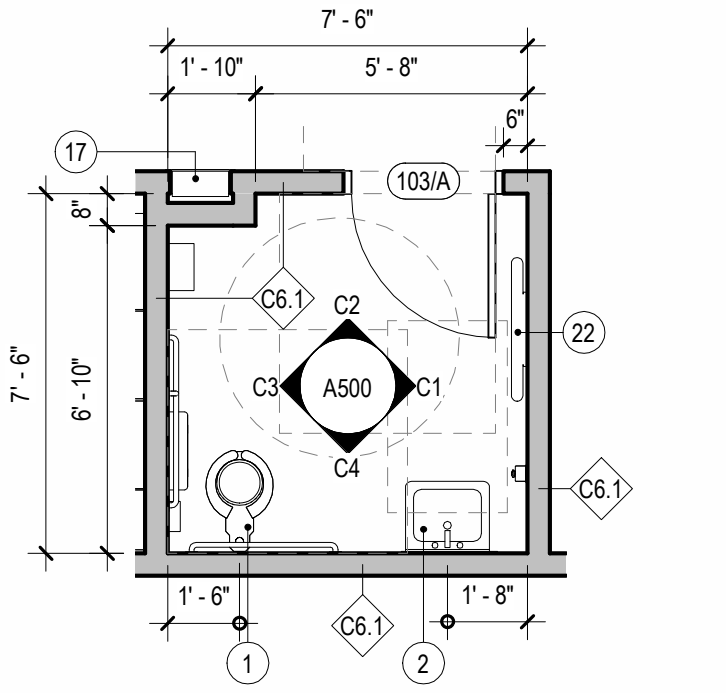
E



D5 ENLARGED KITCHEN - RM 113
1/4" = 1'-0"



B5 ENLARGED TOILET ROOMS - RM 106 & 107
1/4" = 1'-0"



C5 ENLARGED ALL-GENDER RESTROOM - RM 103
1/4" = 1'-0"

MISC ACCESSORIES LEGEND	
KEY	DESCRIPTION
1	FLOOR MOUNTED WATER CLOSET
2	WALL MOUNTED LAVATORY
3	WALL MOUNTED GRAB BARS
4	MIRROR
5	TOILET PAPER DISPENSER
6	SOAP DISPENSER
8	ELECTRIC HAND DRYER
9	SANITARY NAPKIN DISPOSAL
12	WALL MOUNTED MOP STRIP
15	DRINKING FOUNTAIN
16	BI-LEVEL DRINKING FOUNTAIN
17	AED CABINET
18	URINAL
19	MOP-SINK
20	REMOVABLE SINK PROTECTION PANEL
21	FIRE EXTINGUISHER CABINET
22	BABY CHANGING STATION

SEE SHEET G005 FOR ADDITIONAL MOUNTING HEIGHTS AND ADDITIONAL INFORMATION

No.	Date	By	Description
1	02/15/2024	NB,KN	BID ADDENDUM 1

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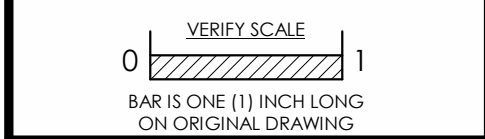
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 for
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 3101-27 N 22ND ST, PHILADELPHIA PA 19132

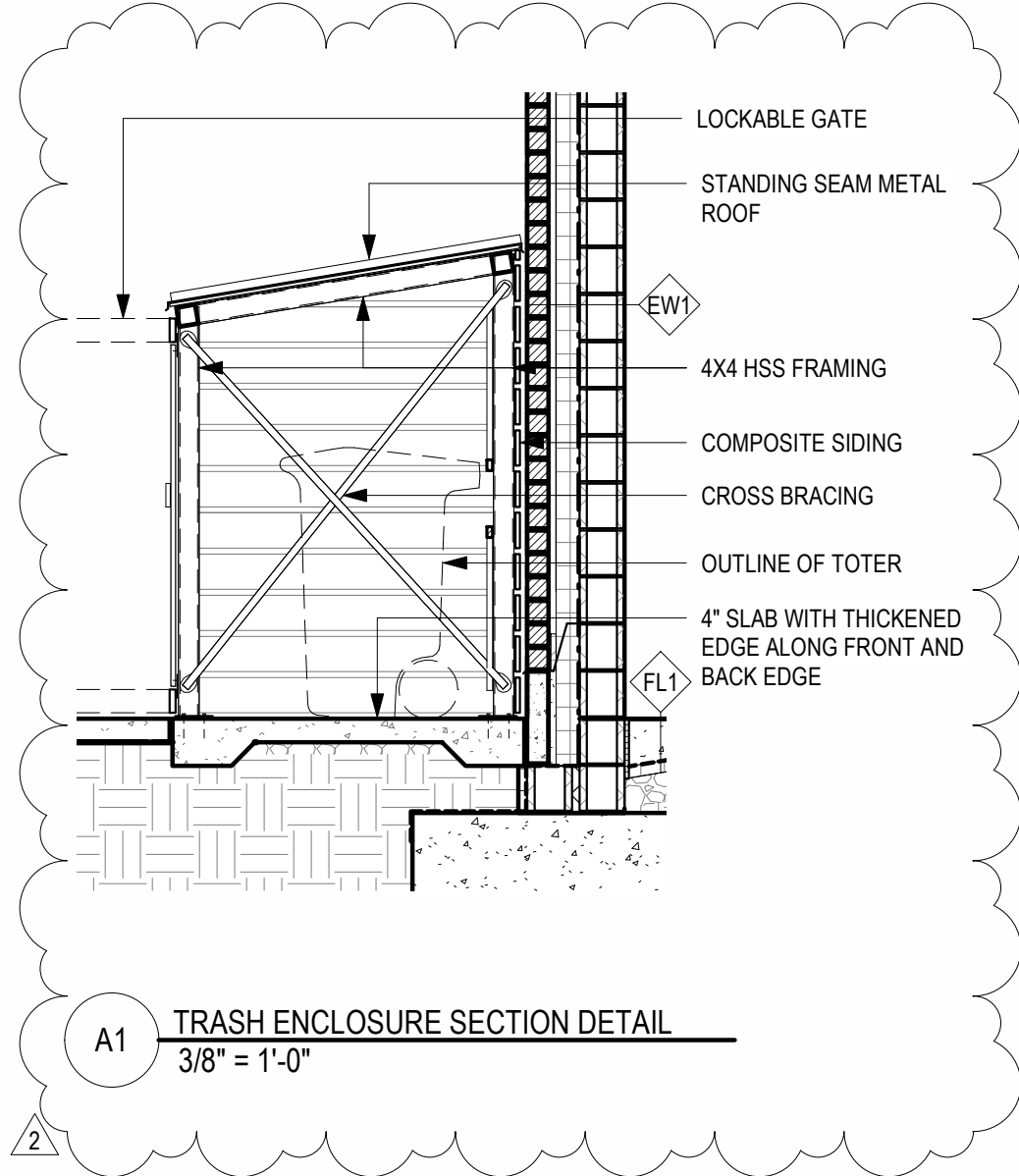


Date: 02/09/2024
 Scale: 1/4" = 1'-0"
 Job No.: 604.2
 Drawn: NB,KN | Appd.: cs

Sheet Title:
ENLARGED DWGS - PLANS + INT ELEVS

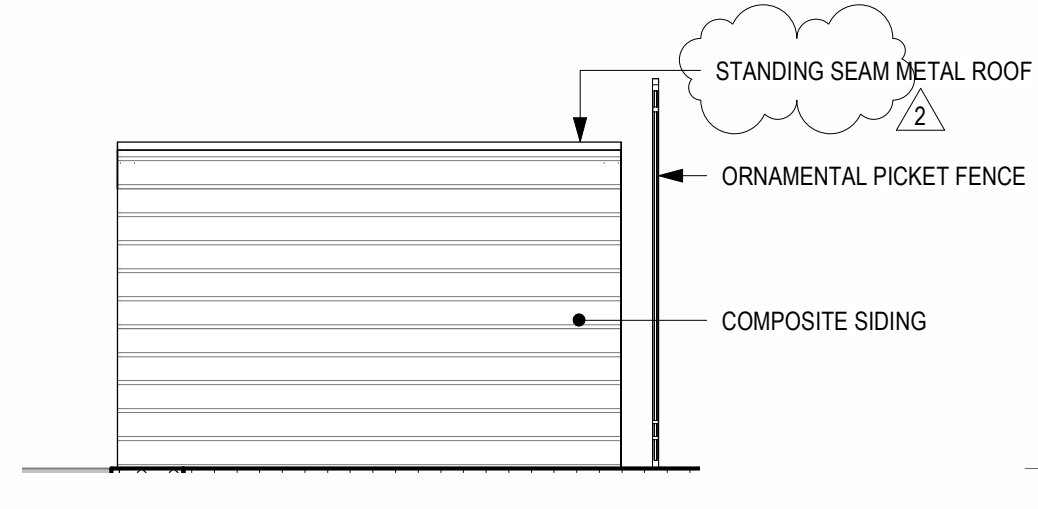
Sheet No.
A500

A



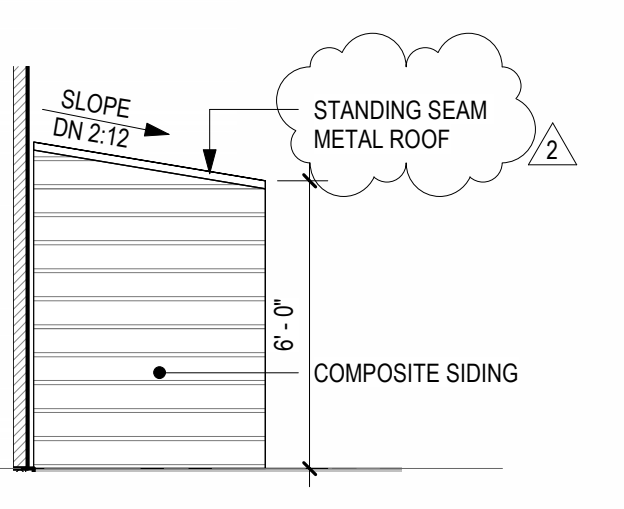
A1 TRASH ENCLOSURE SECTION DETAIL
3/8" = 1'-0"

A2



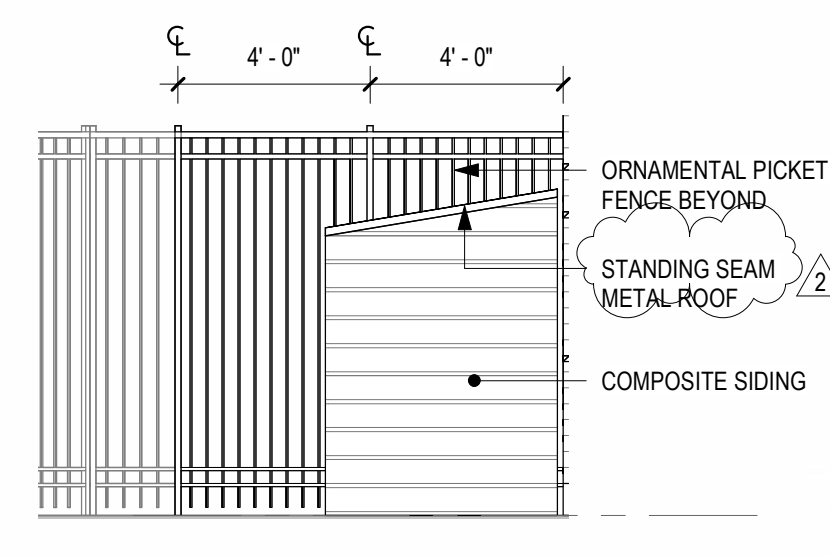
A2 GARBAGE SHED ELEVATION 4
1/4" = 1'-0"

A3



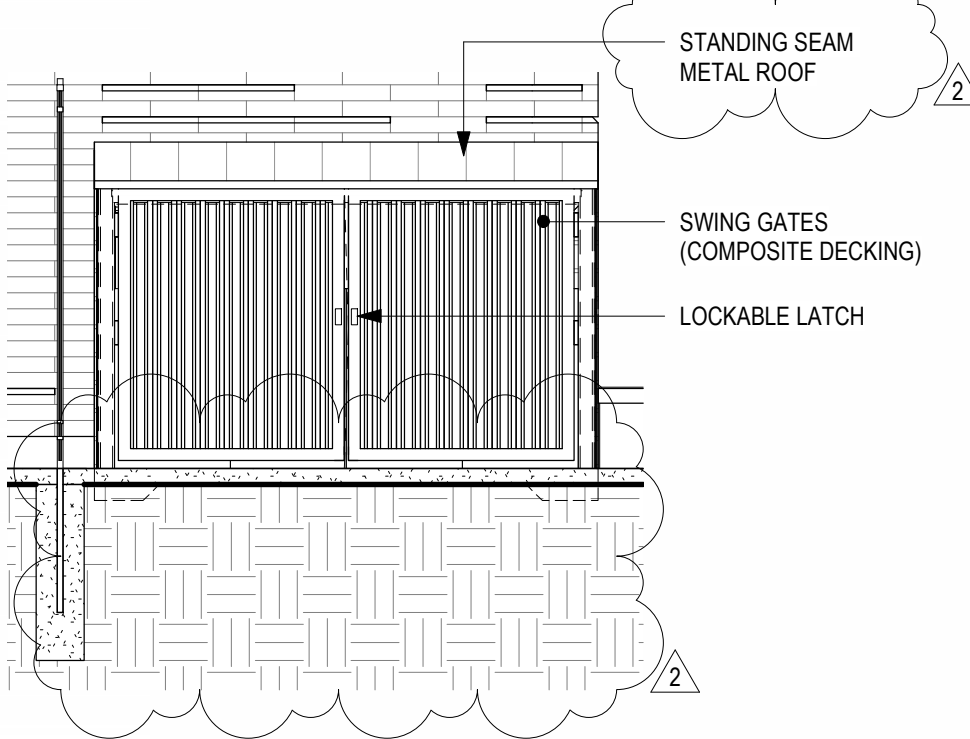
A3 GARBAGE SHED ELEVATION 3
1/4" = 1'-0"

A4



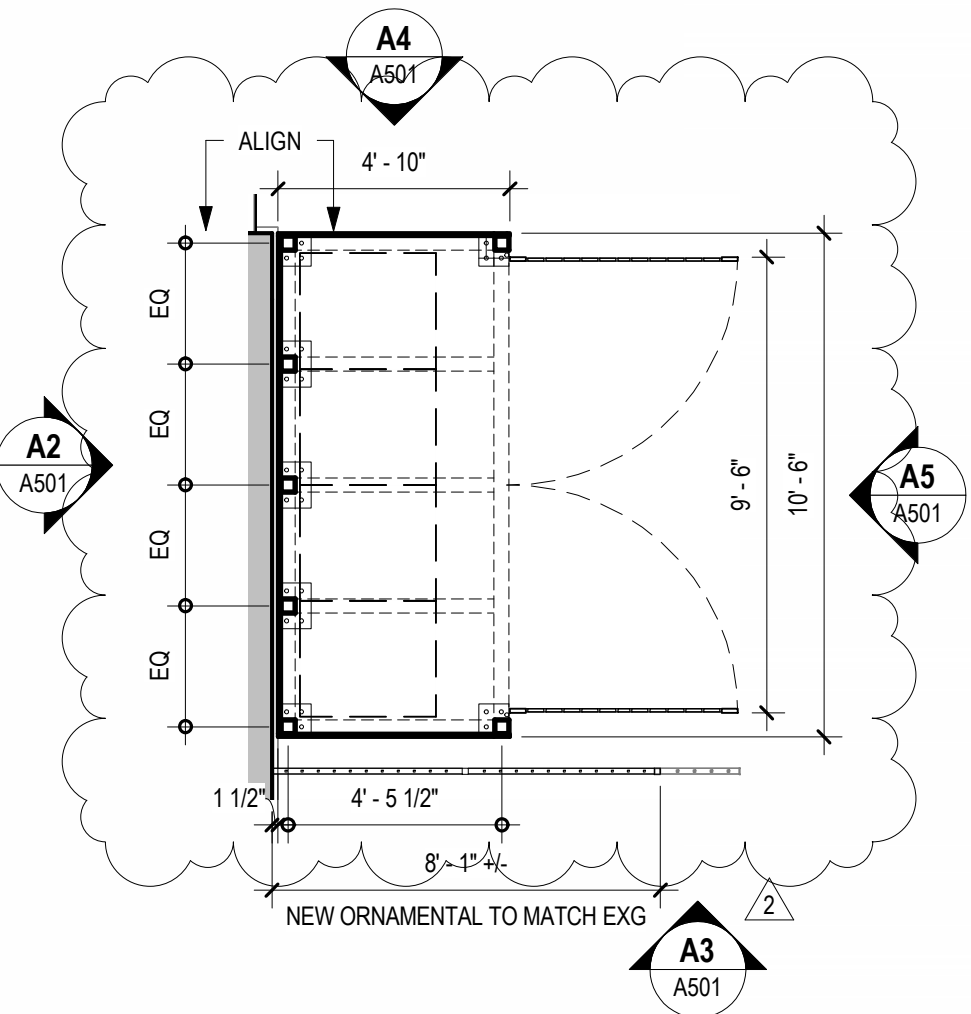
A4 GARBAGE SHED ELEVATION 2
1/4" = 1'-0"

A5



A5 GARBAGE SHED ELEVATION 1
1/4" = 1'-0"

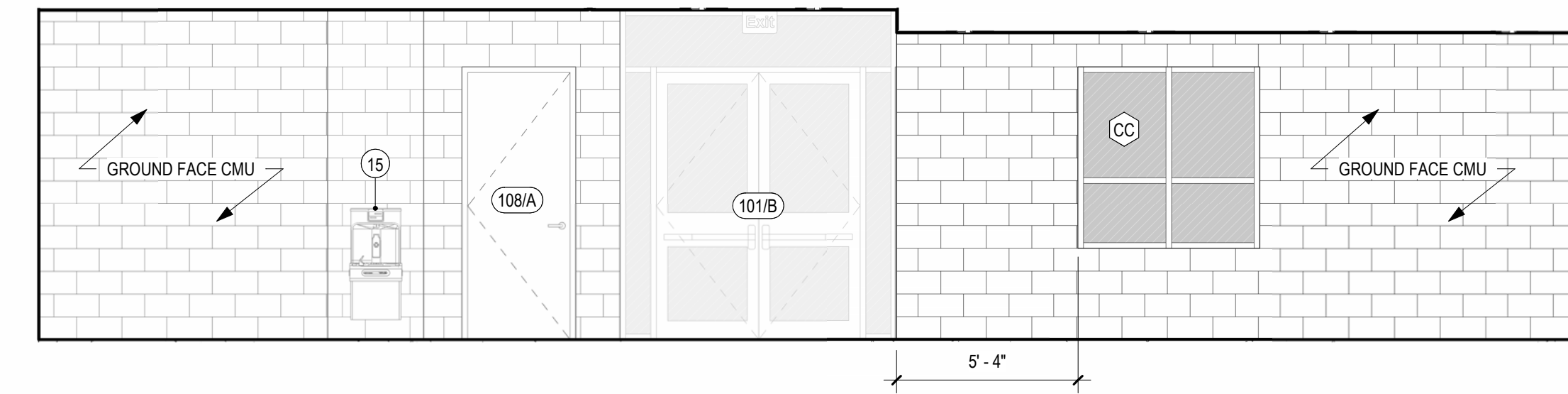
A6



A6 GARBAGE ENCLOSURE
1/4" = 1'-0"

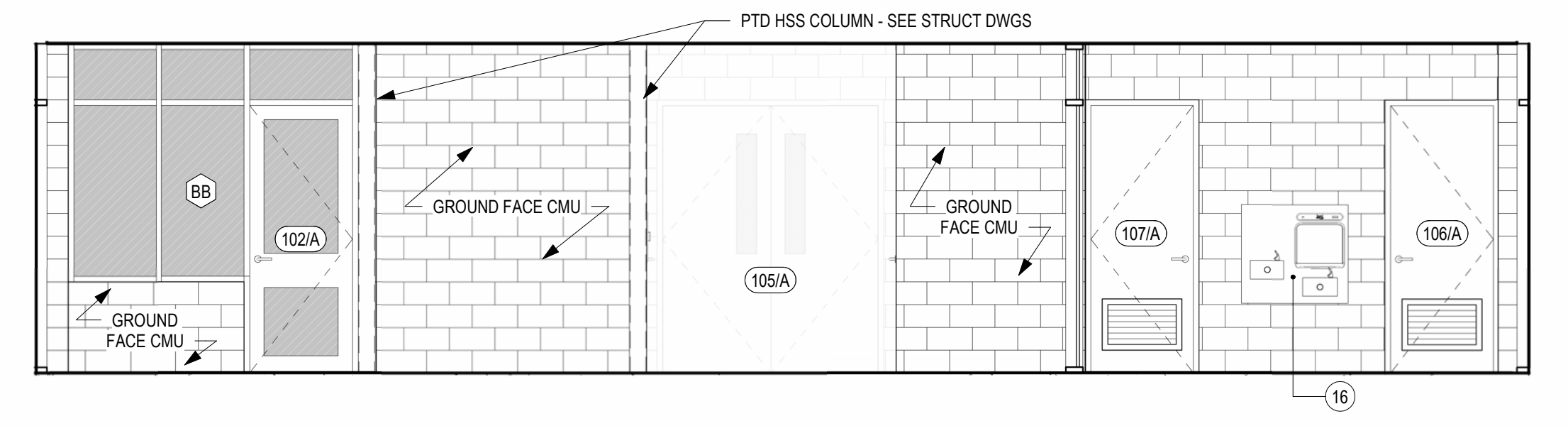
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A



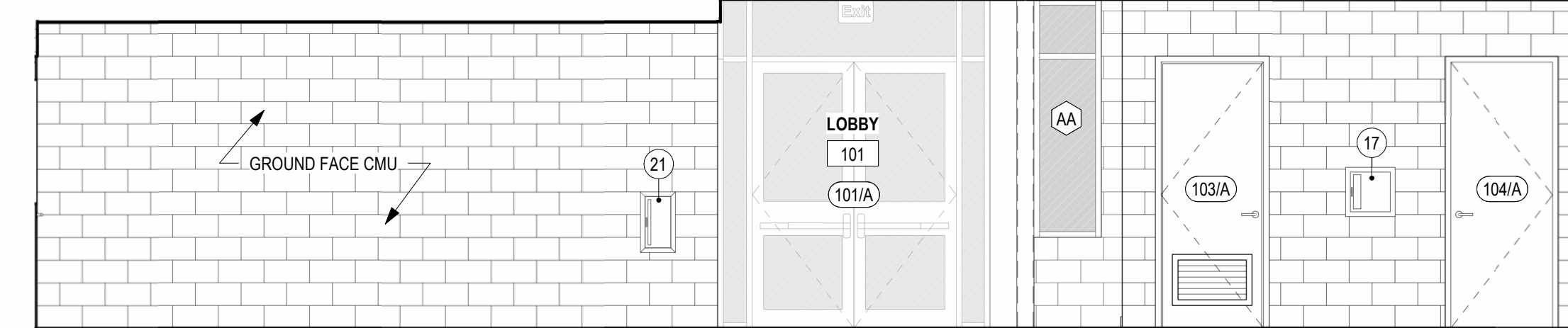
C2 INT ELEV FROM LOBBY - MP WALL
1/4" = 1'-0"

C

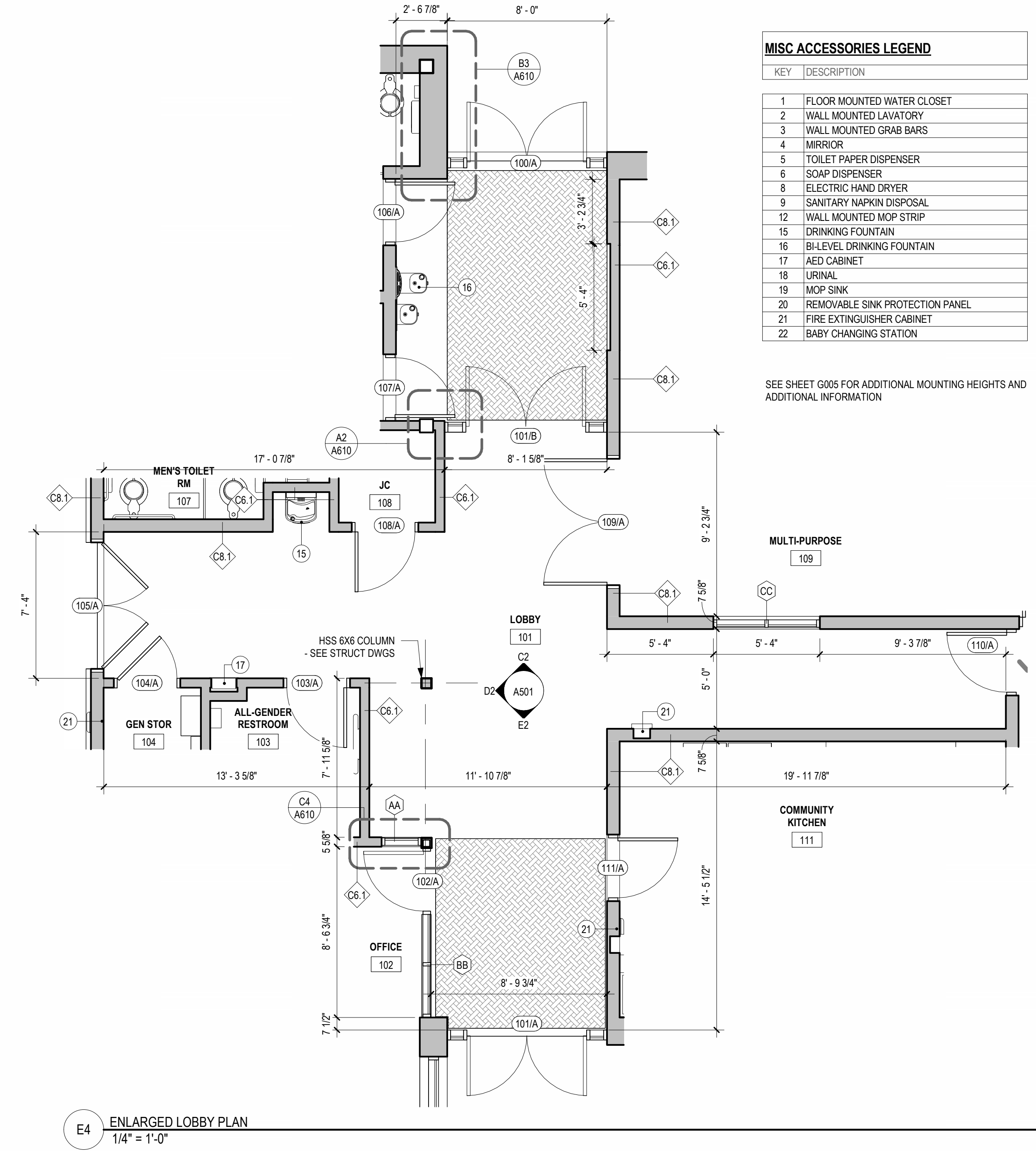


D2 INT ELEV LOBBY - OFFICE
1/4" = 1'-0"

D



E2 INT ELEV LOBBY - GYM
1/4" = 1'-0"



E4 ENLARGED LOBBY PLAN
1/4" = 1'-0"

MISC ACCESSORIES LEGEND

KEY	DESCRIPTION
1	FLOOR MOUNTED WATER CLOSET
2	WALL MOUNTED LAVATORY
3	WALL MOUNTED GRAB BARS
4	MIRROR
5	TOILET PAPER DISPENSER
6	SOAP DISPENSER
8	ELECTRIC HAND DRYER
9	SANITARY NAPKIN DISPOSAL
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17	AED CABINET
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SEE SHEET G005 FOR ADDITIONAL MOUNTING HEIGHTS AND ADDITIONAL INFORMATION

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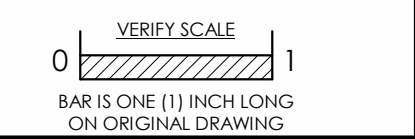
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 for
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 3101-27 N 22ND ST, PHILADELPHIA PA 19132



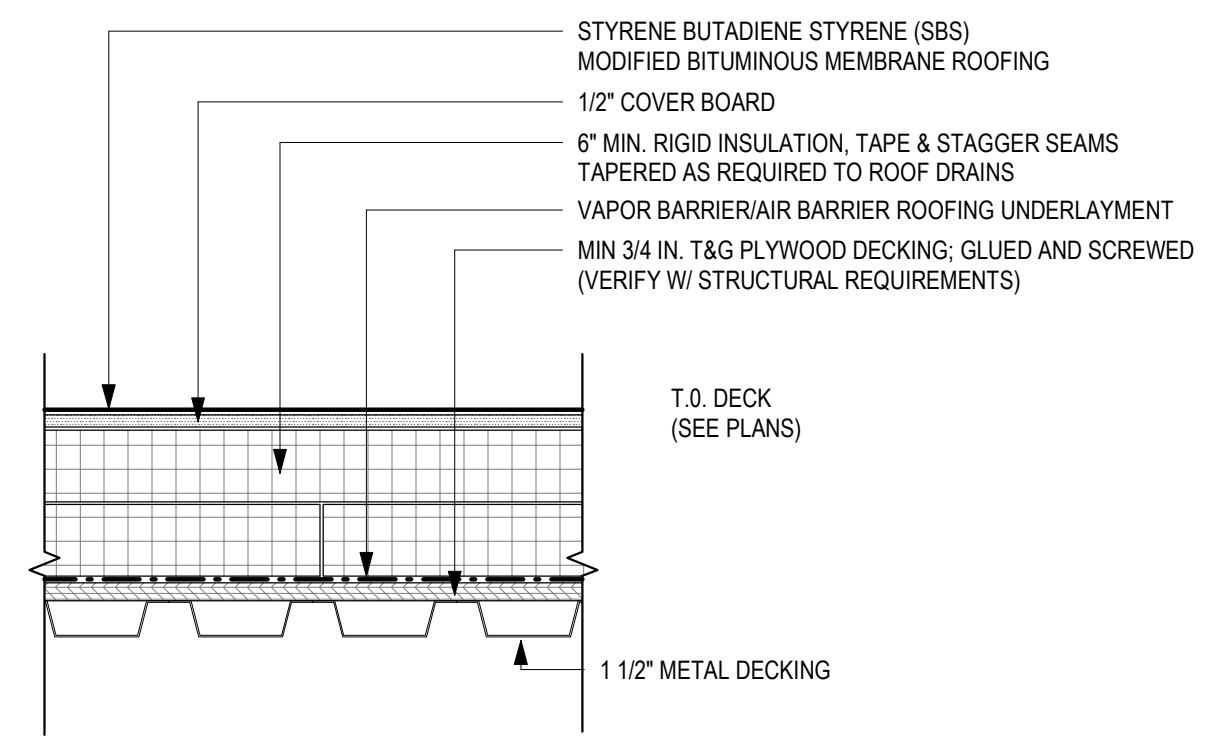
No.	Date	By	Description
1	10/15/2024		BID ADDENDUM 1
2	10/30/2024		BID ADDENDUM 2

Date: 02/09/2024
 Scale: As indicated
 Job No.: 604.2
 Drawn: NB, RN Appd.: CS

Sheet Title:
 ENLARGED DWGS - PLANS + ELEVS

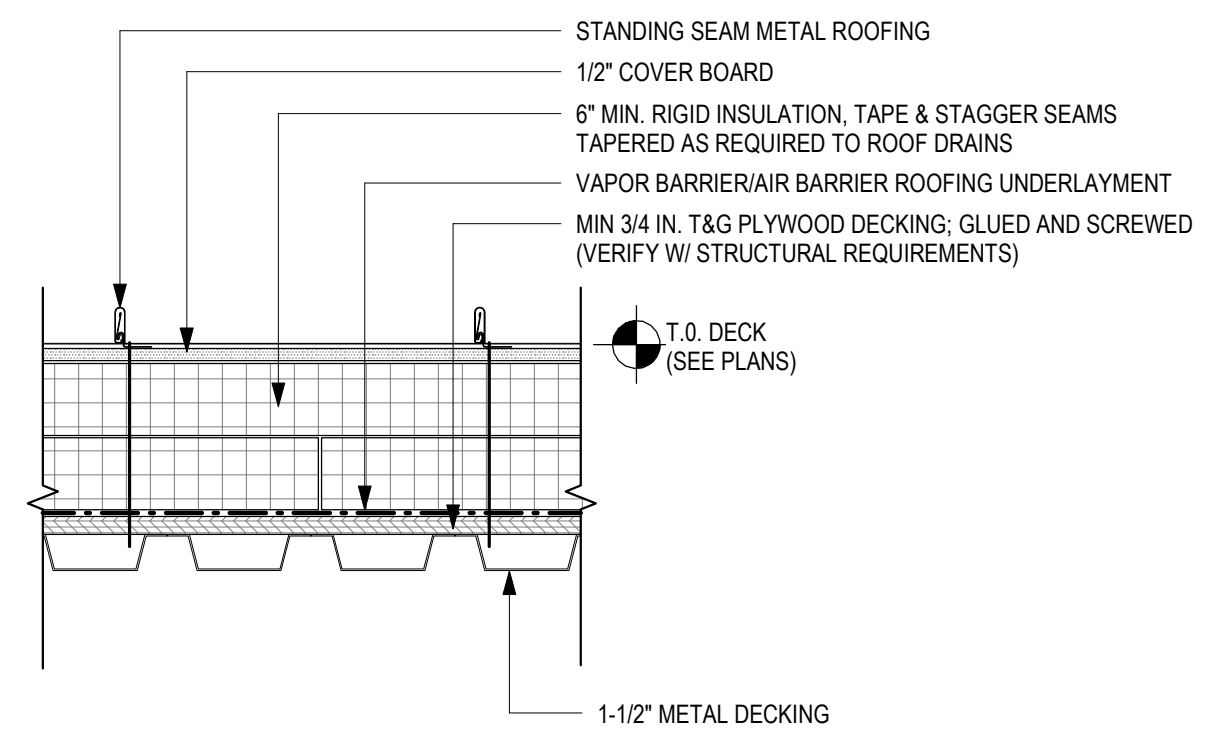
Sheet No.
A501

A



INSULATION R-VALUE
R-30ci

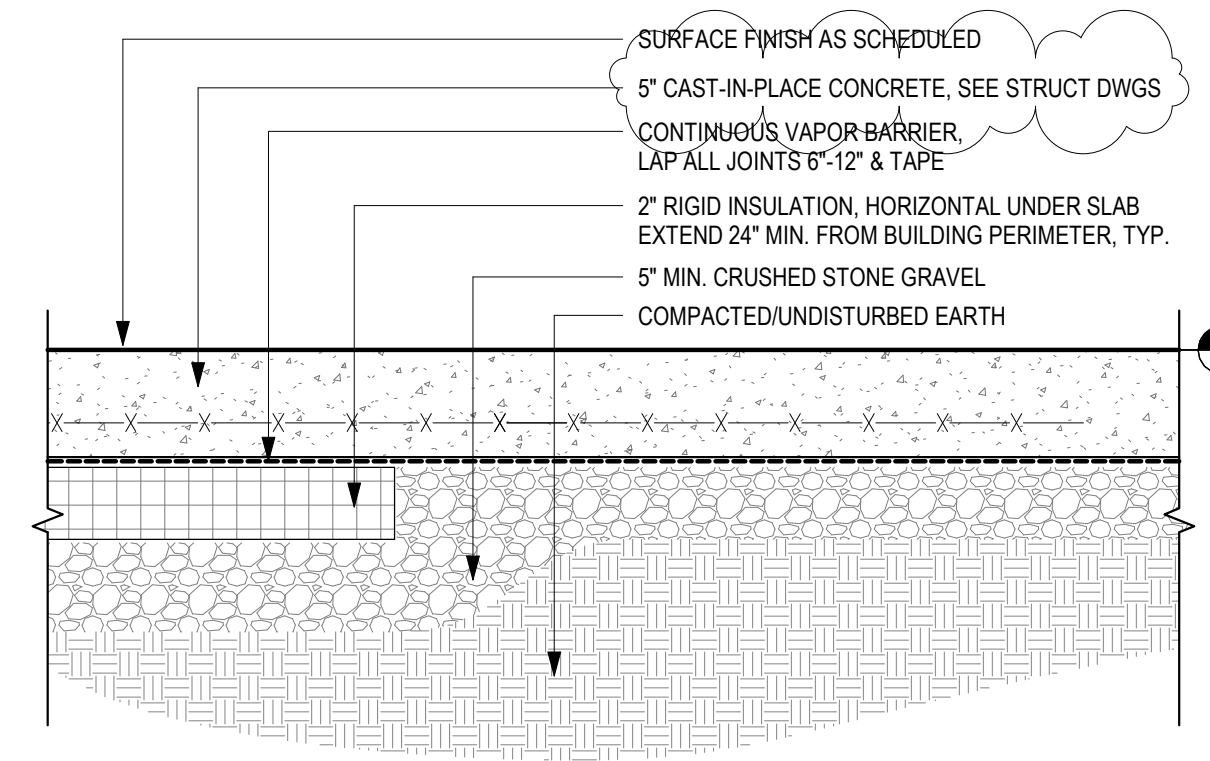
R1 MODIFIED BITUMINOUS MEMBRANE ROOFING
1 1/2" = 1'-0"



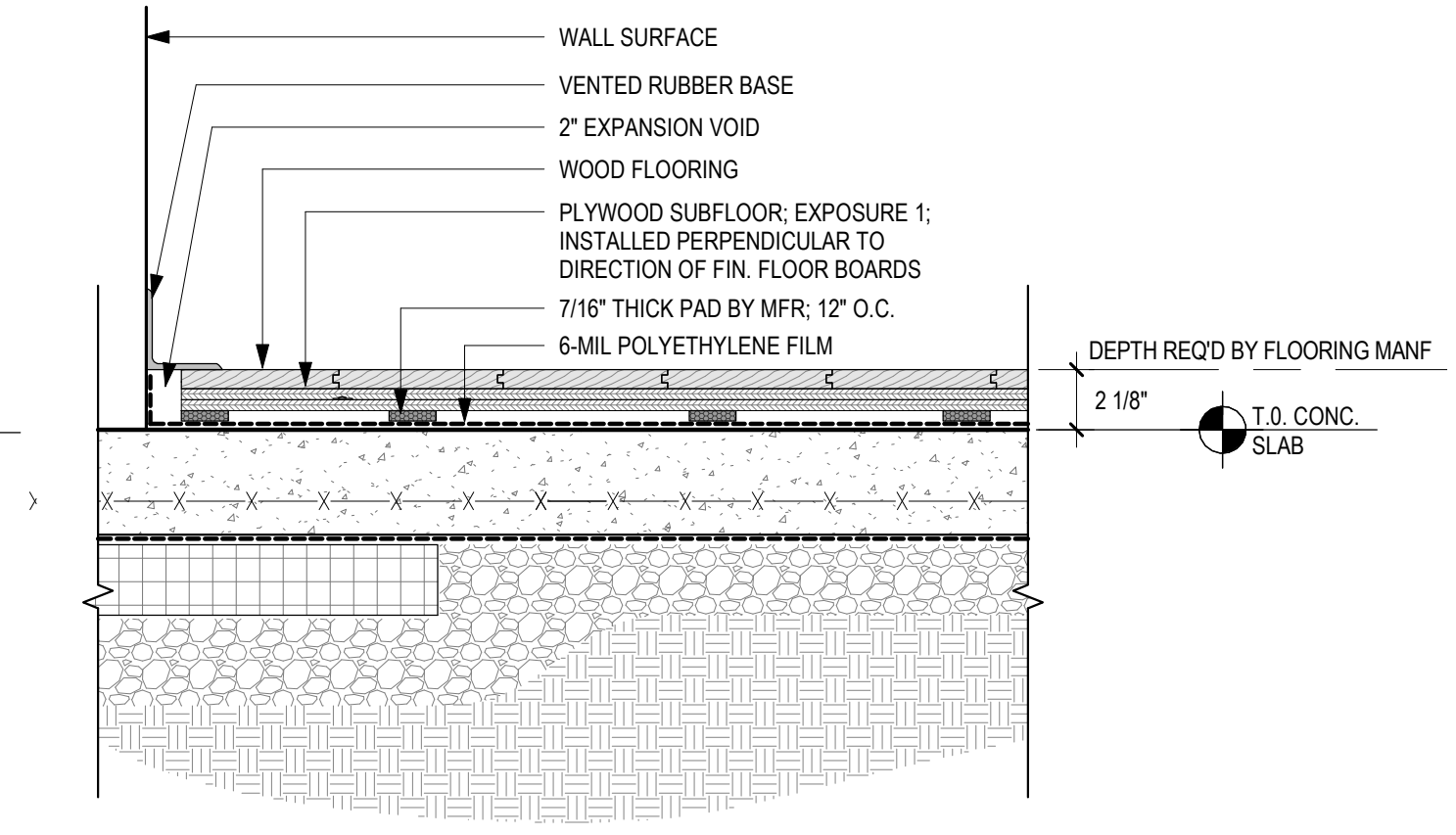
INSULATION R-VALUE
R-30ci

R2 STANDING SEAM ROOFING
1 1/2" = 1'-0"

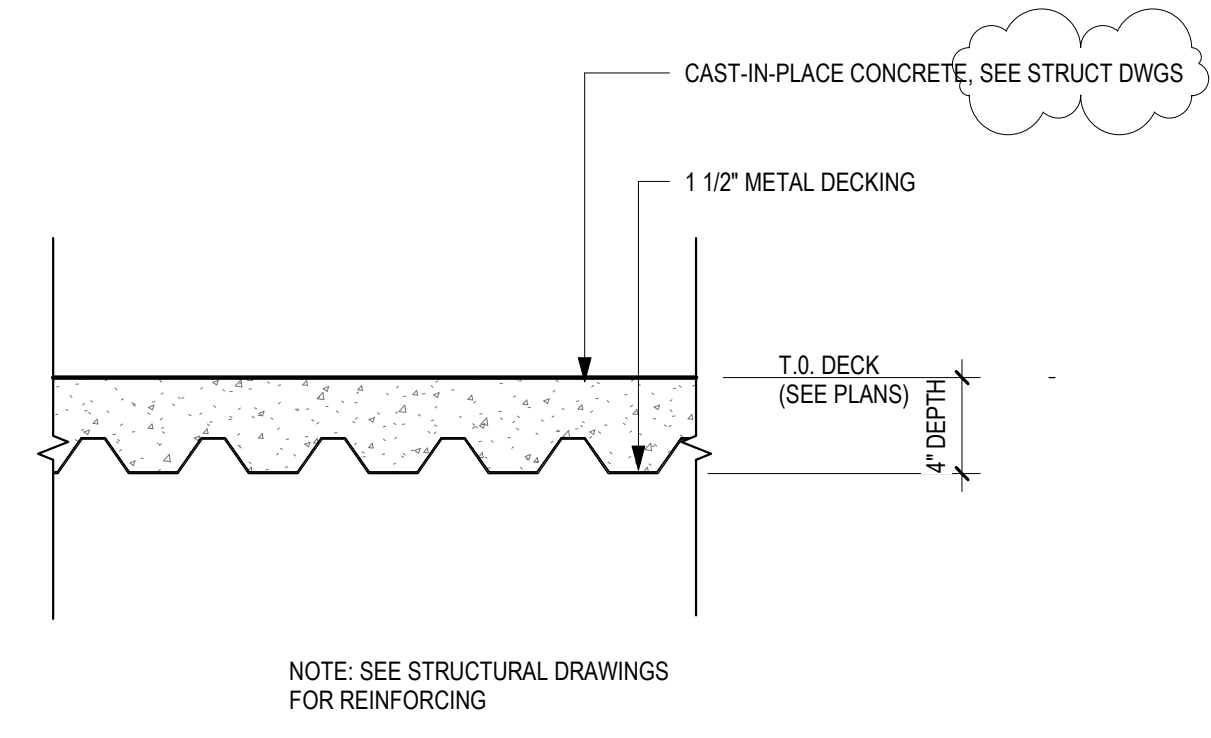
B



FL1 FLOOR TYPE - FL1 - CONCRETE SLAB ON GRADE
1 1/2" = 1'-0"



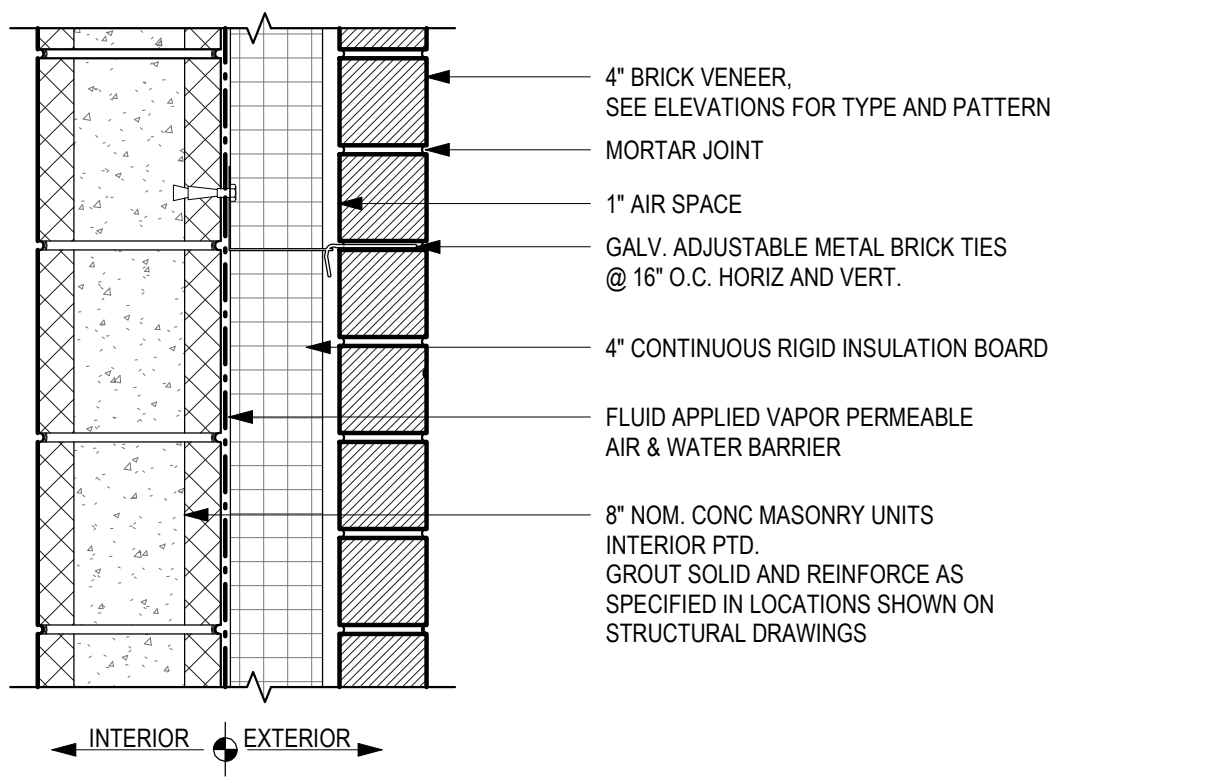
FL2 FLOOR TYPE - FL2 - WD SPORTS FLOOR OVER CONCRETE SLAB ON GRADE
1 1/2" = 1'-0"



FL3 CONCRETE SLAB OVER METAL DECKING
1 1/2" = 1'-0"

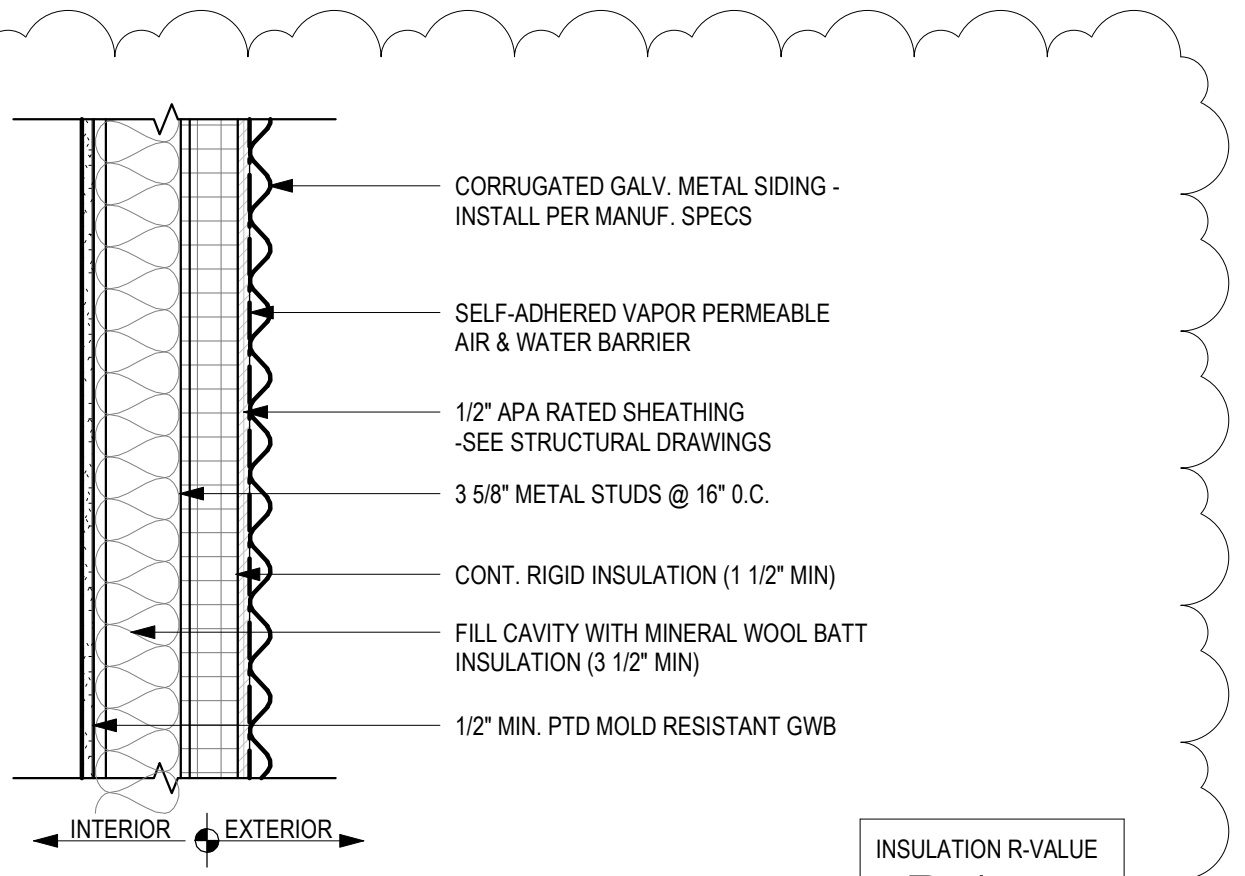
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D



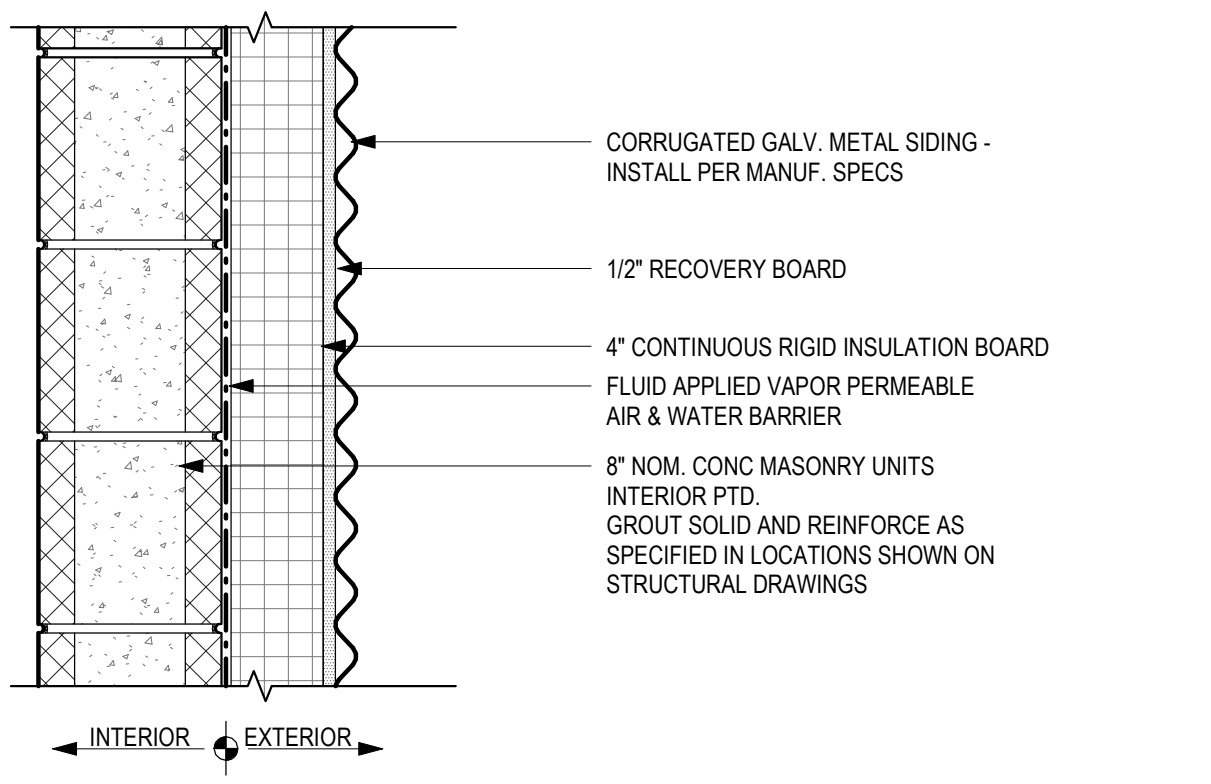
INSULATION R-VALUE
R-20ci

EW1 EXTERIOR WALL ASSEMBLY - TYPE EW1
1 1/2" = 1'-0"



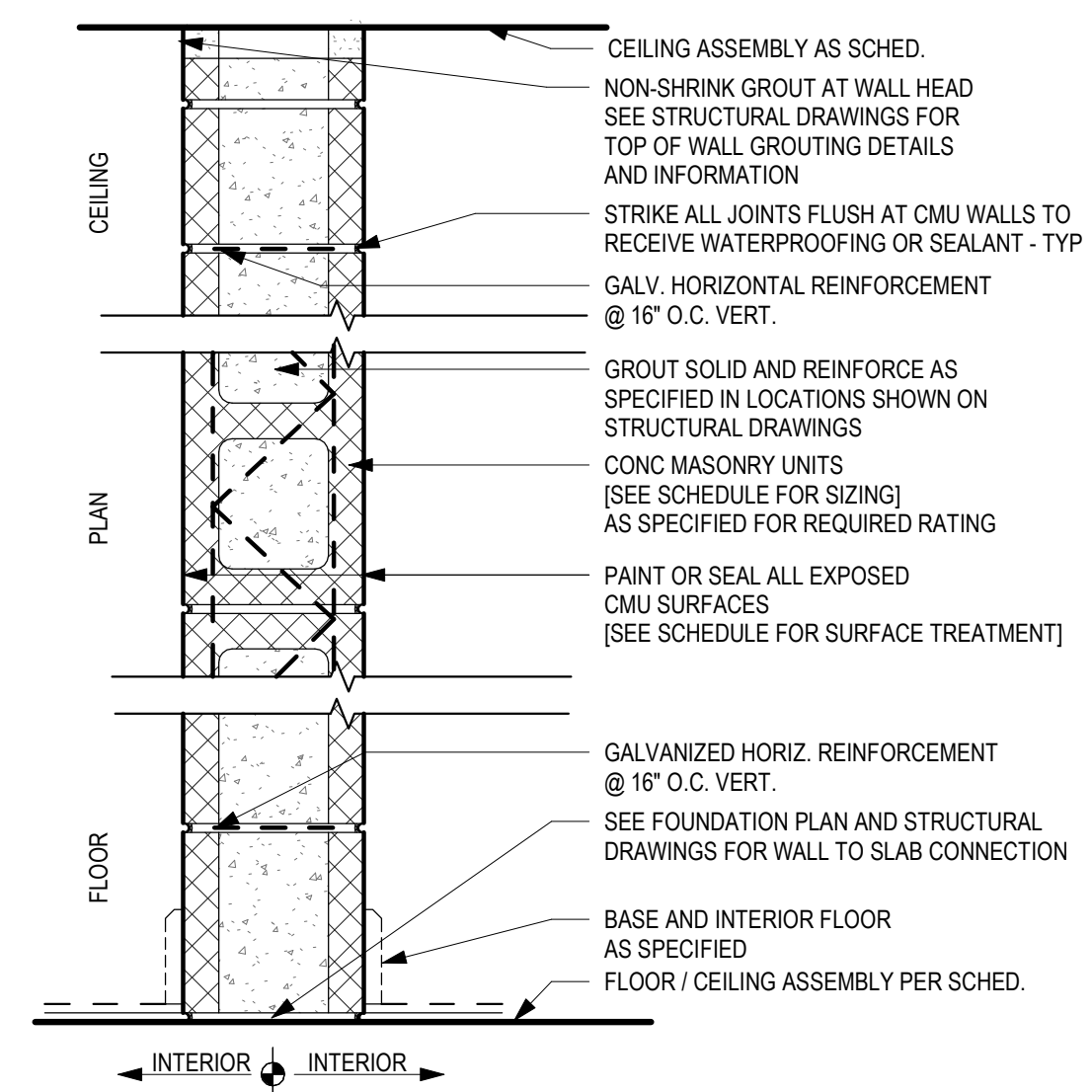
INSULATION R-VALUE
**R-15cav
+ R-7.5ci**

EW2 VINYL SIDING (NR)
1 1/2" = 1'-0"



INSULATION R-VALUE
R-20ci

EW3 EXTERIOR WALL ASSEMBLY - TYPE EW3
1 1/2" = 1'-0"



TYPICAL INTERIOR PARTITION TYPES

TYPE	FRAMING SIZE	FIRE RATING		STC		DESCRIPTION	SOUND BATT	LIMITING HEIGHT FACTOR	COMMENTS
		HOUR	ASSEMBLY #	HOLLOW	GROUT-FILLED				
C6.1	0' - 5 5/8"			32	51	6" NOM. CMU (NON-LOAD BEARING)	No		
C8.1	0' - 7 5/8"			42	55	8" NOM. CMU	No		

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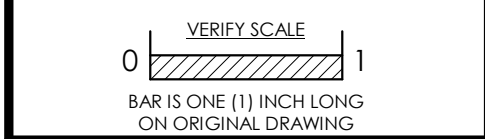
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PANATI PLAYGROUND**
for
PPR/REBUILD PHILADELPHIA
3101-27 N 22ND ST, PHILADELPHIA PA 19132

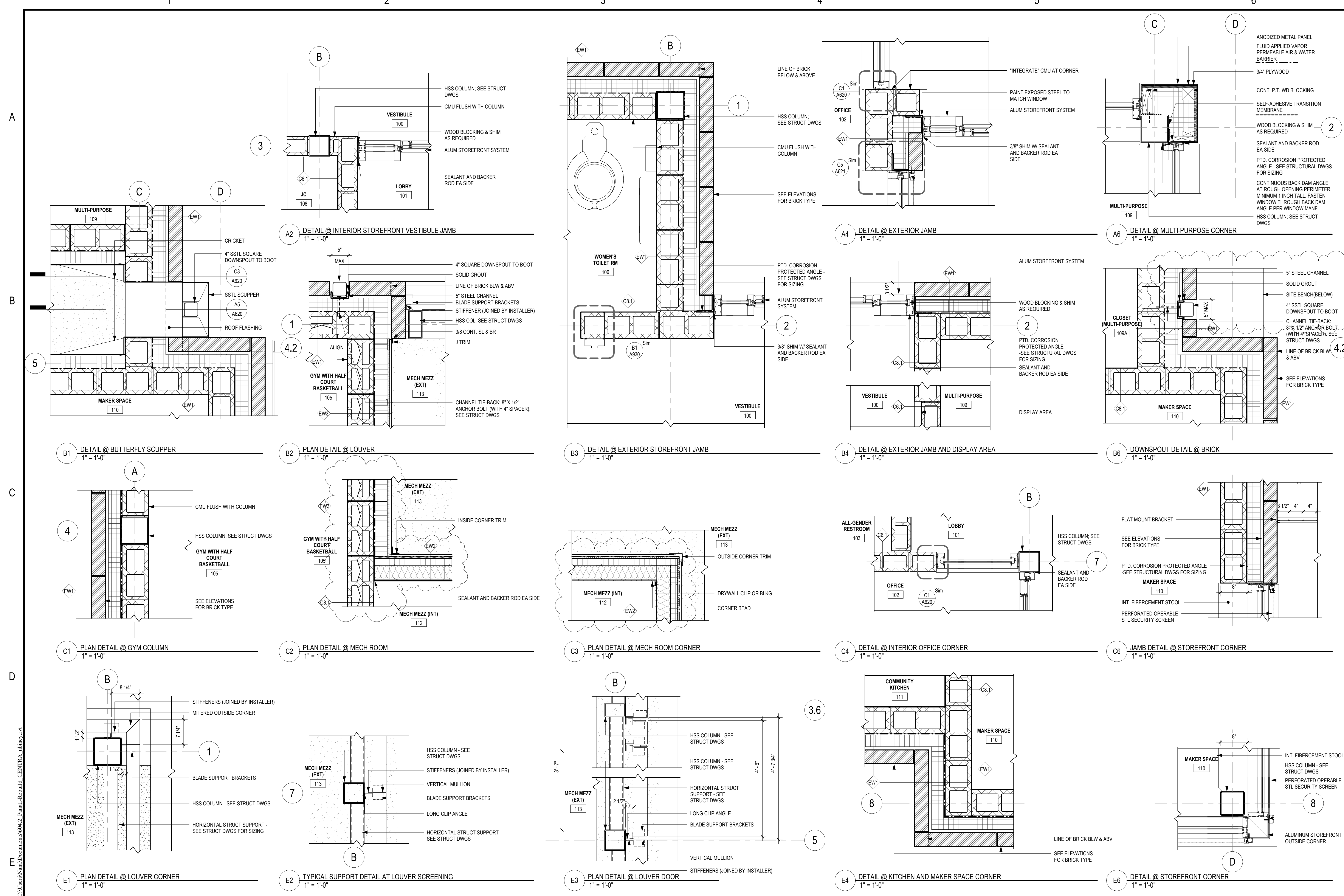


No.	Date	By	Description
2	02/09/2024		BID ADDENDUM 2

Date: 02/09/2024
Scale: 1 1/2" = 1'-0"
Job No.: 604.2
Drawn: NB, KN | Appd.: cs

Sheet Title:
**PARTITION & ASSEMBLY
SCHEDULE**

Sheet No.
A600



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REBUILD - VINCENT G. PANATI PLAYGROUND
 for
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VERIFY SCALE
 0 1
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

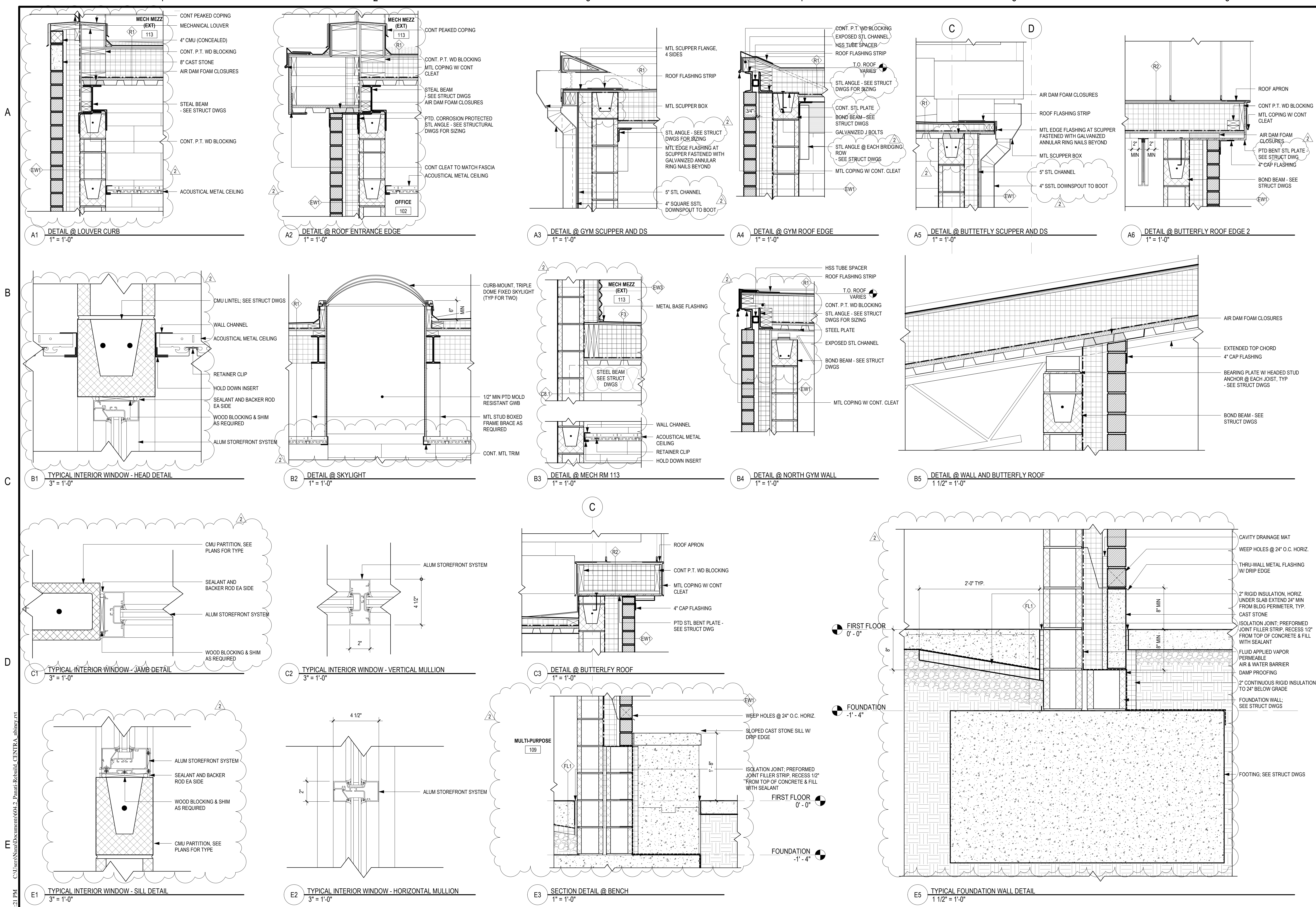
No.	Date	By	Description
1	02/09/2024	NB,KN	ADDENDUM 2
2	03/01/2024	NB,KN	

Date: 02/09/2024
 Scale: 1" = 1'-0"
 Job No.: 604.2
 Drawn: NB,KN | Appd.: cs

Sheet Title:
ENLARGED PLAN DETAILS

Sheet No.
A610

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for
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VERIFY SCALE
0 1
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

No.	Date	By	Description
1	02/15/2024		BID ADDENDUM 1
2	03/01/2024		BID ADDENDUM 2

Date: 02/09/2024
Scale: As indicated
Job No.: 604.2
Drawn: Author Appd.: Approver

Sheet Title:
EXTERIOR AND INTERIOR DETAILS

Sheet No.
A620

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1

2

3

4

5

6

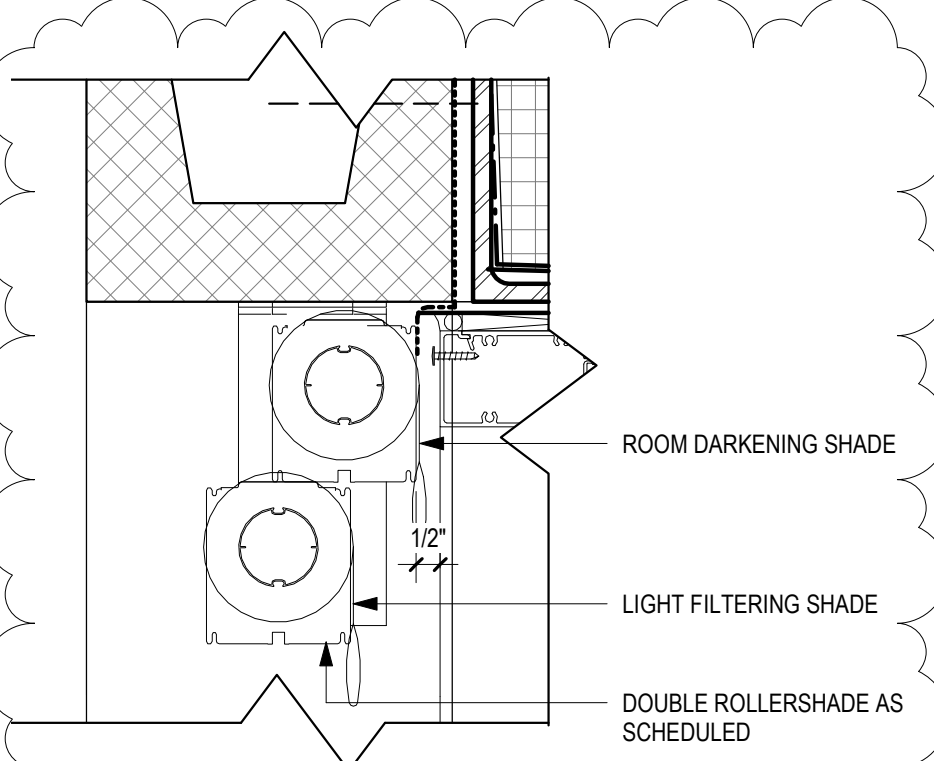
A

B

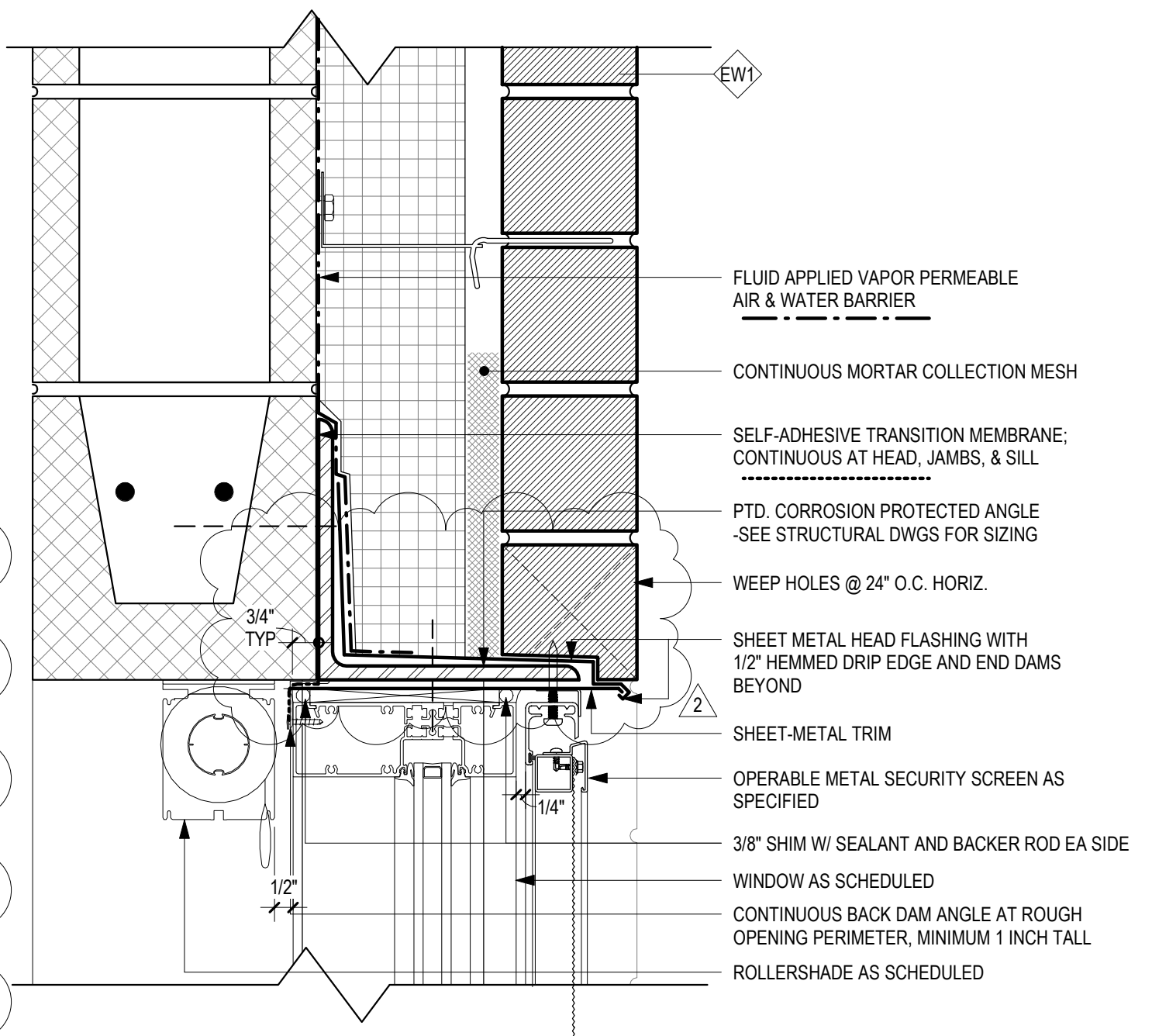
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D

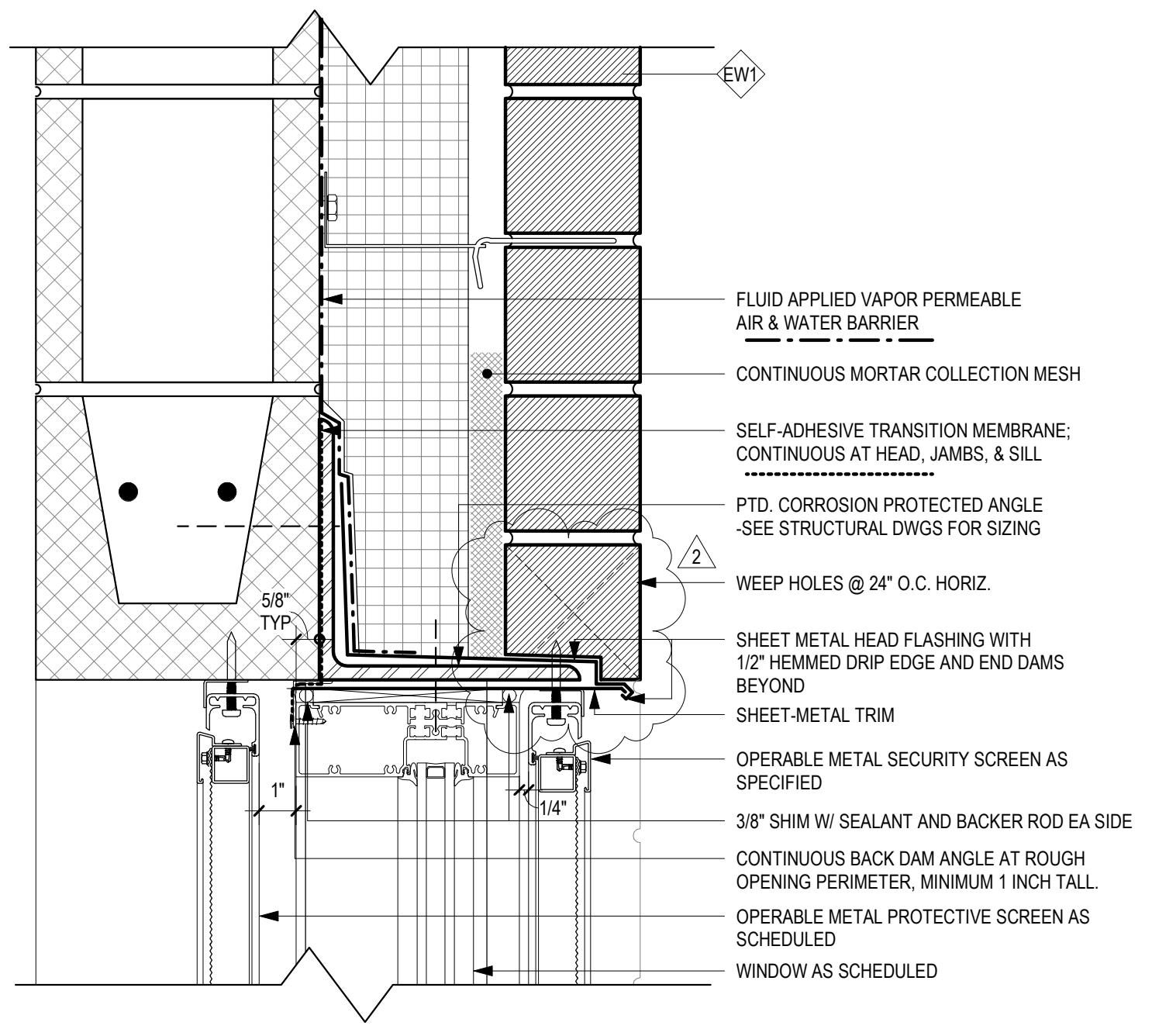
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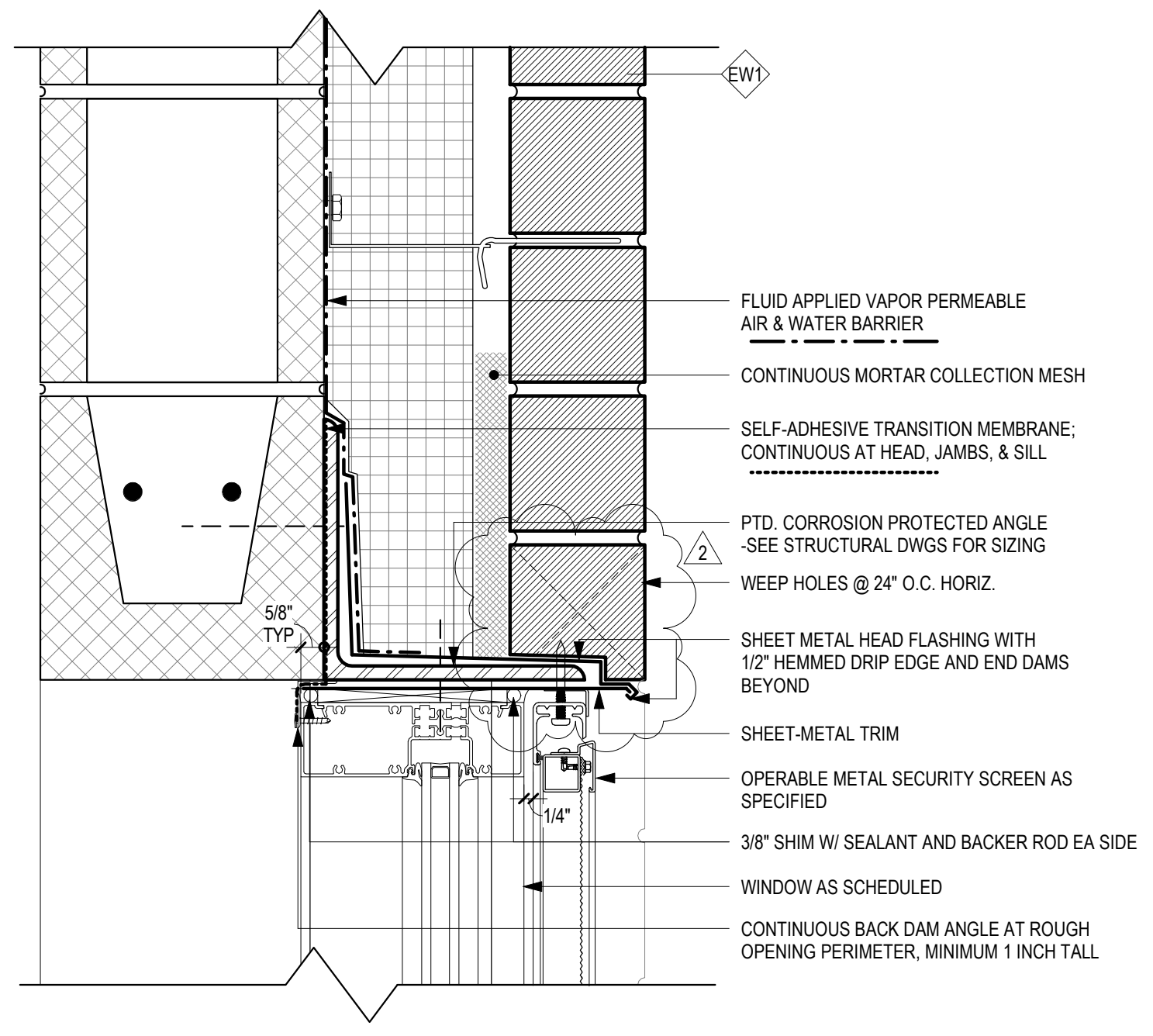
A1 DUAL ROLLER SHADE
3" = 1'-0"



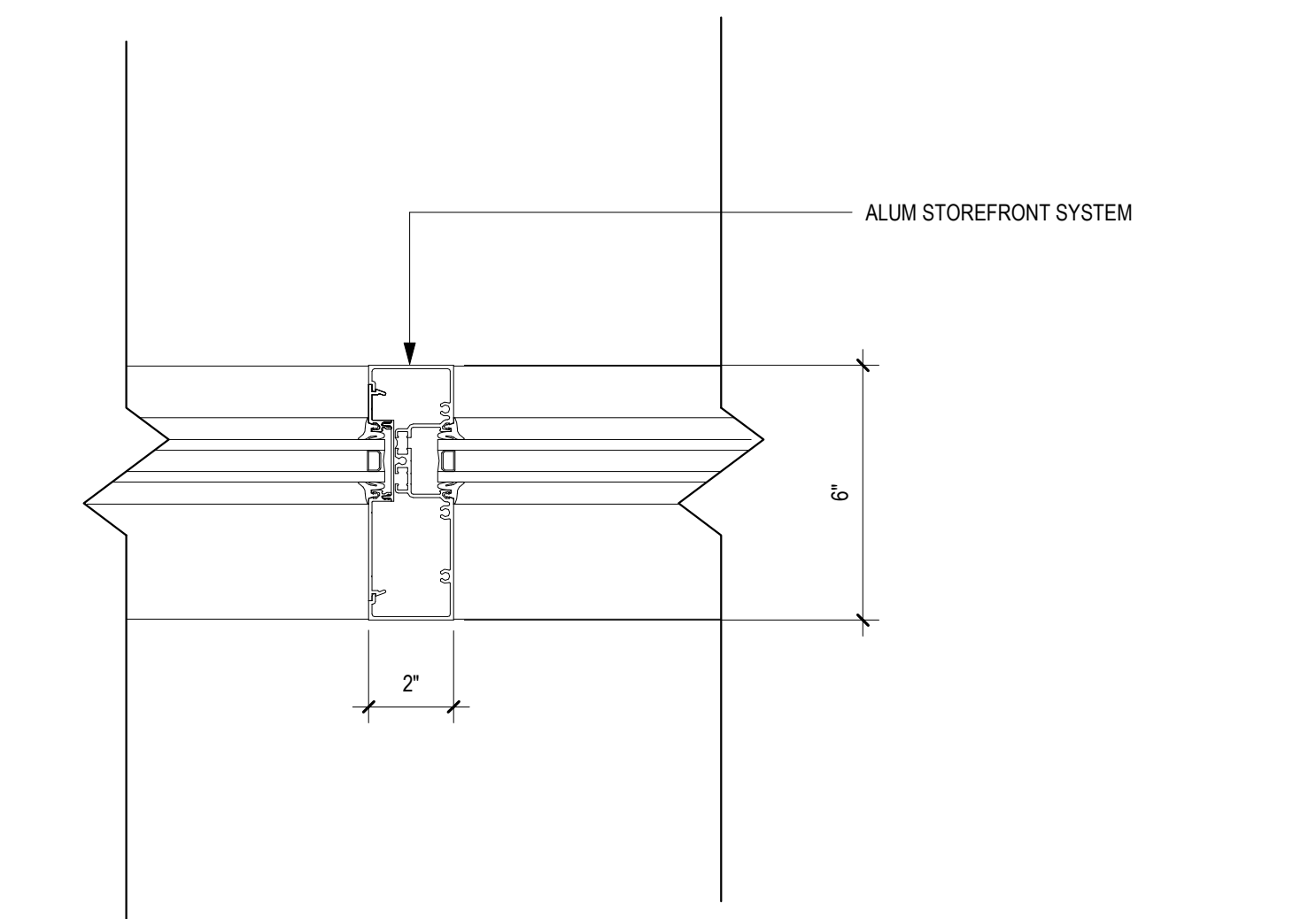
A2 TYPICAL WINDOW - HEAD DETAIL W/ SECURITY SCREEN & ROLLER SHADE
3" = 1'-0"



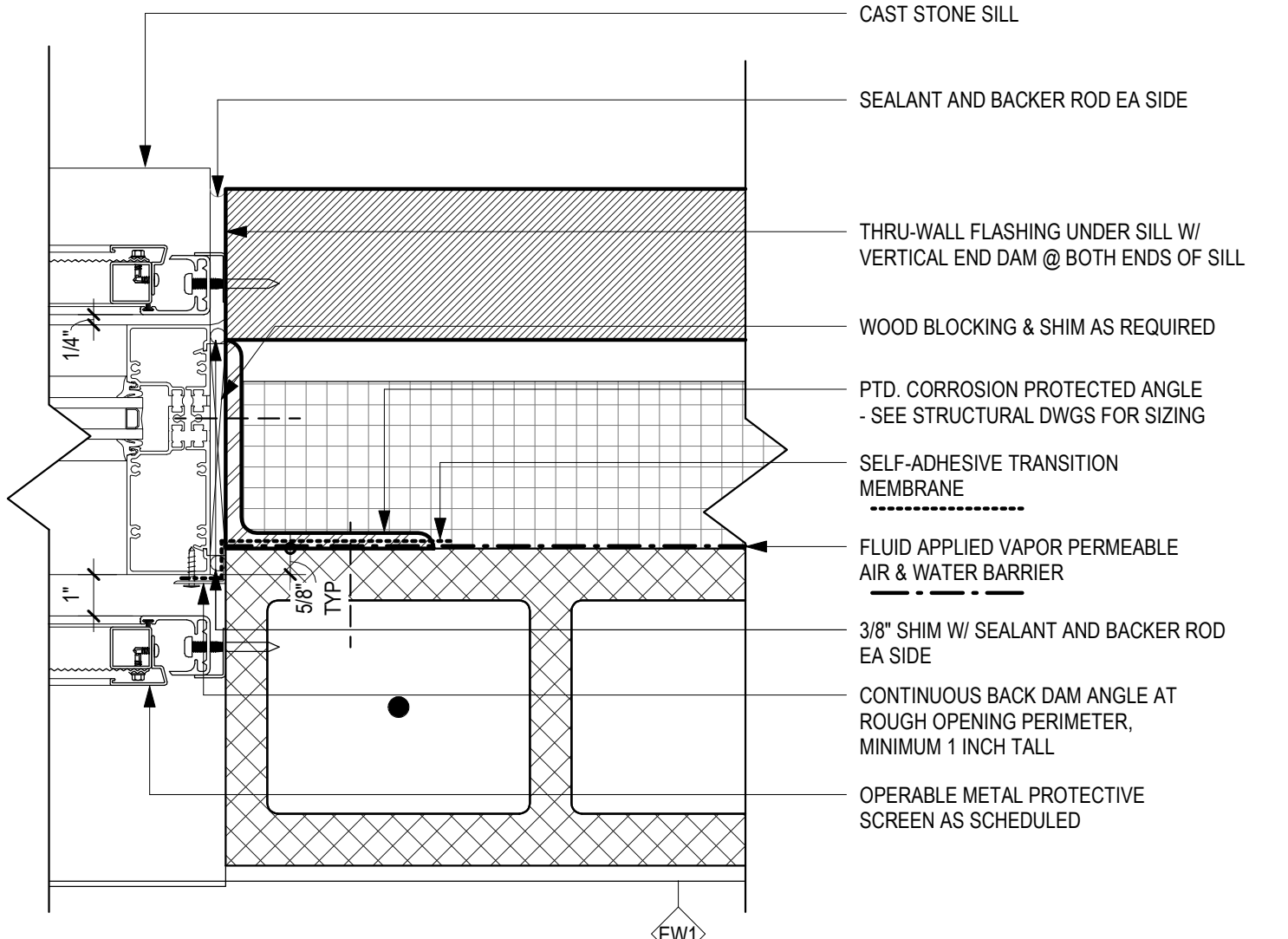
A3 TYPICAL WINDOW - HEAD DETAIL @ GYM
3" = 1'-0"



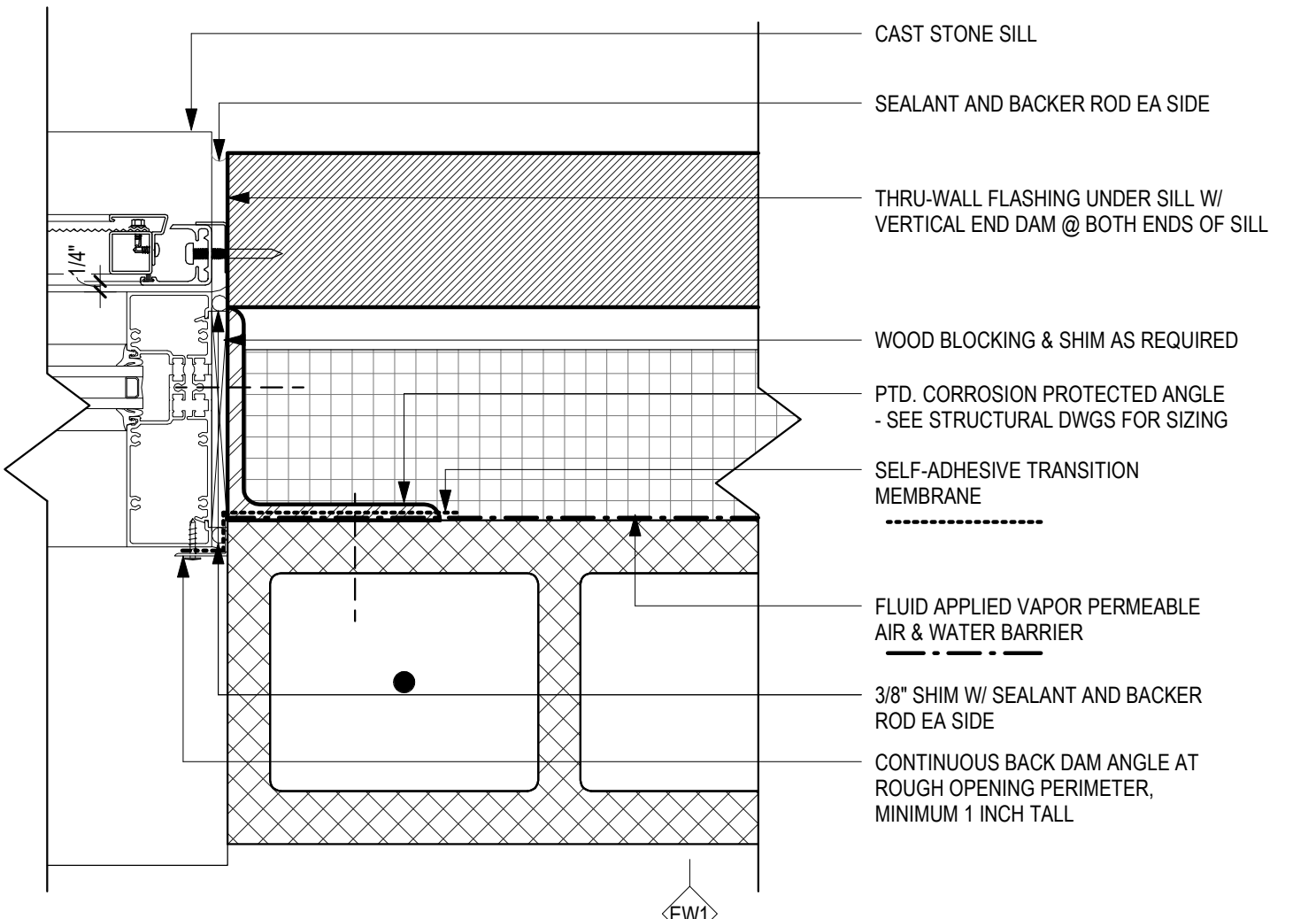
A5 TYPICAL WINDOW - HEAD DETAIL W/ SECURITY SCREEN
3" = 1'-0"



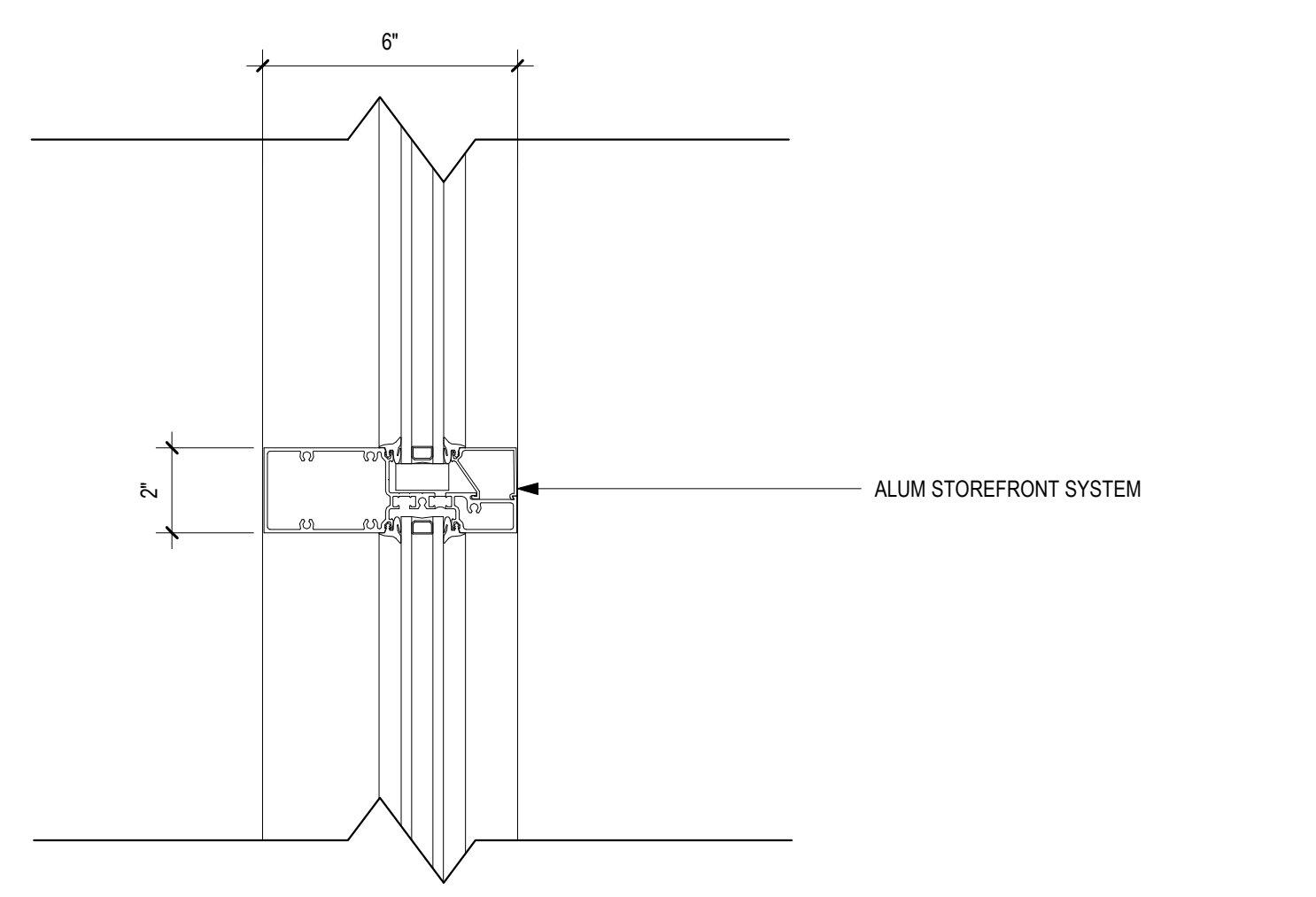
C2 TYPICAL WINDOW - VERTICAL MULLION
3" = 1'-0"



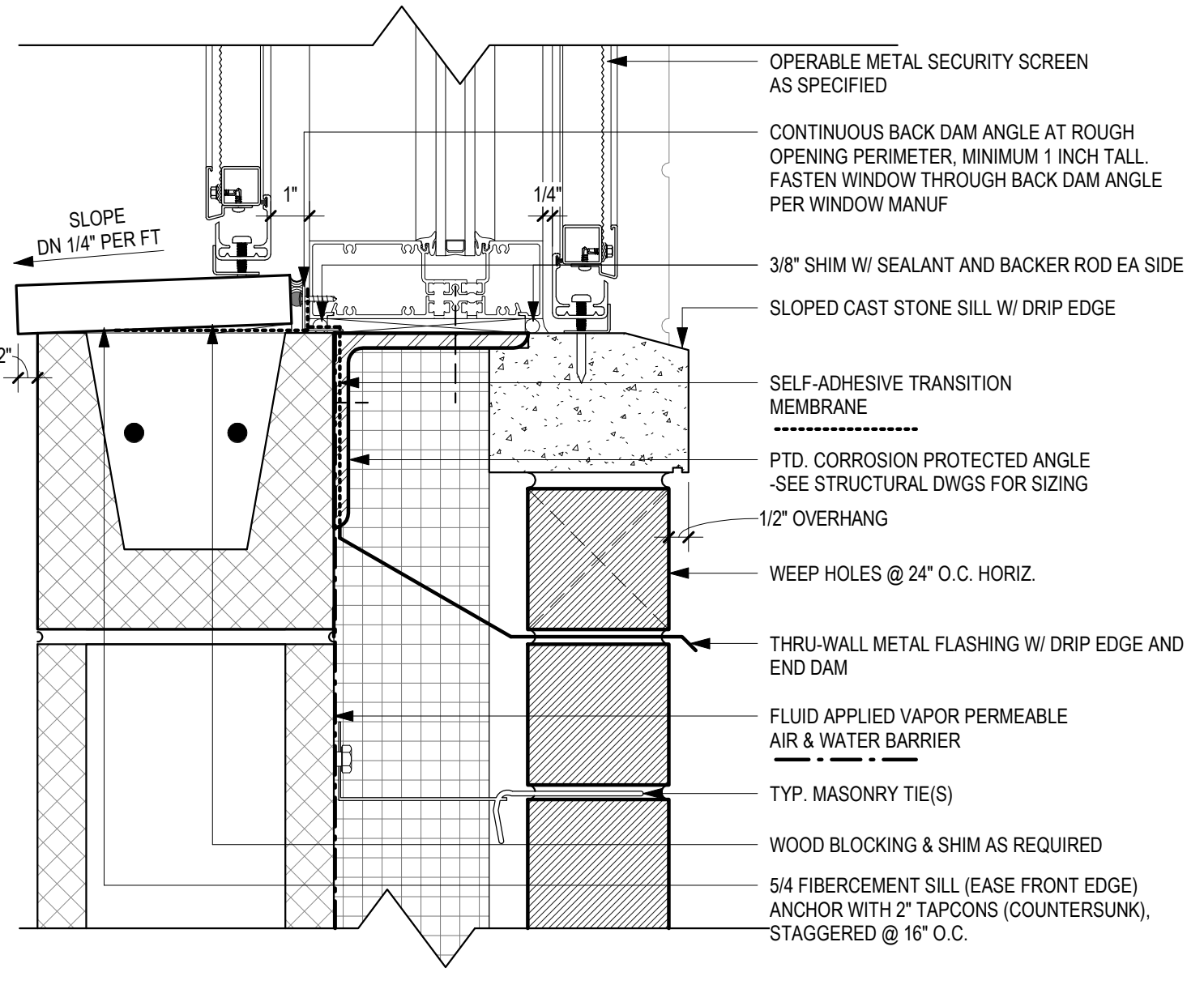
C3 TYPICAL WINDOW - JAMB DETAIL @ GYM
3" = 1'-0"



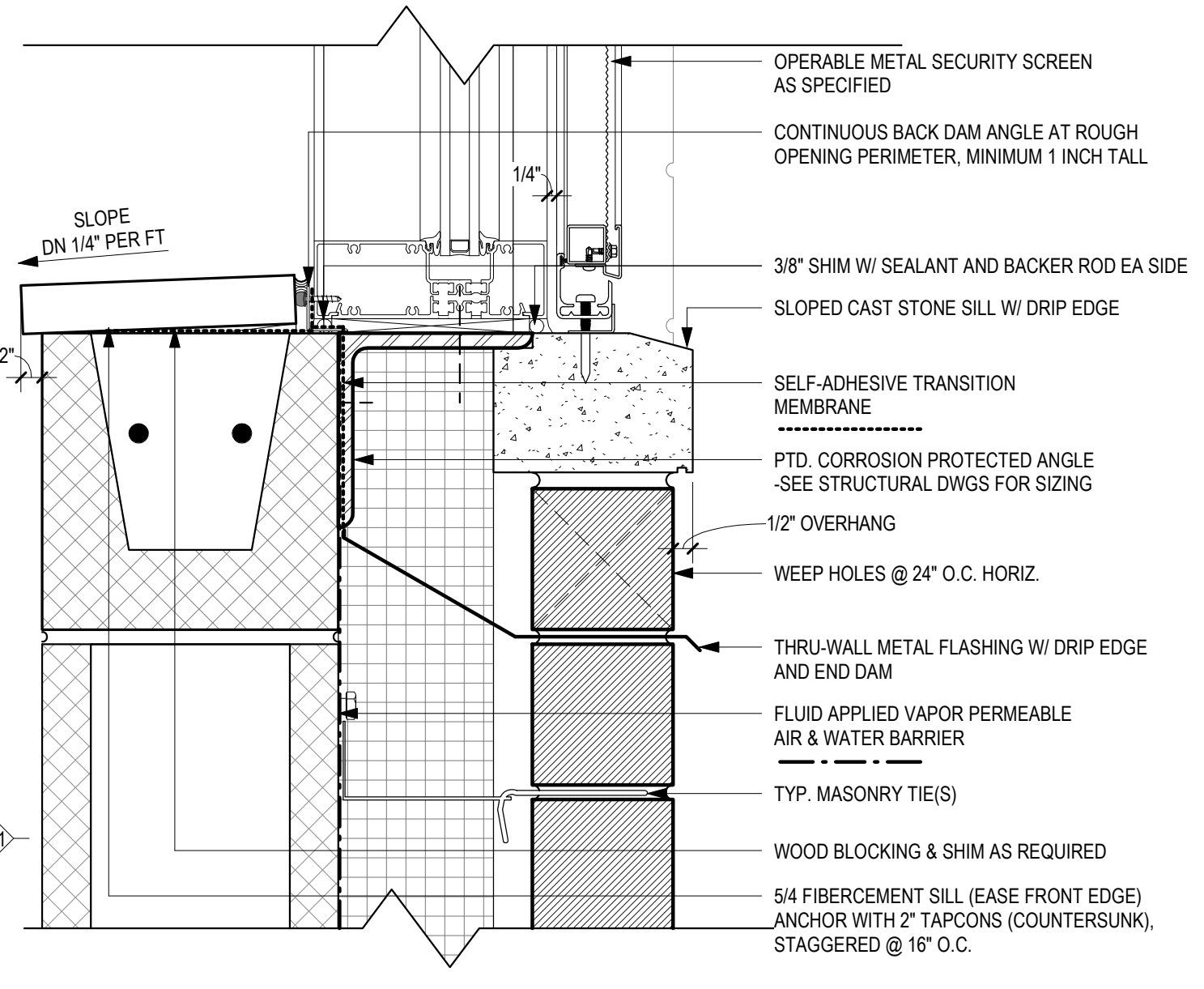
C5 TYPICAL WINDOW - JAMB DETAIL W/ SECURITY SCREEN
3" = 1'-0"



E2 TYPICAL WINDOW - HORIZONTAL MULLION
3" = 1'-0"



E3 TYPICAL WINDOW - SILL DETAIL @ GYM
3" = 1'-0"



E5 TYPICAL WINDOW - SILL DETAIL W/ SECURITY SCREEN
3" = 1'-0"

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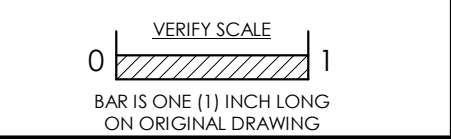
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REBUILD - VINCENT G. PANATI PLAYGROUND
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST, PHILADELPHIA PA 19132



No.	Date	By	Description
2	03/01/2024		BID ADDENDUM 2

Date: 02/09/2024
 Scale: 3" = 1'-0"
 Job No.: 604.2
 Drawn: Author Appd.: Approver

Sheet Title:

WINDOW DETAILS

Sheet No.

A621

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1

2

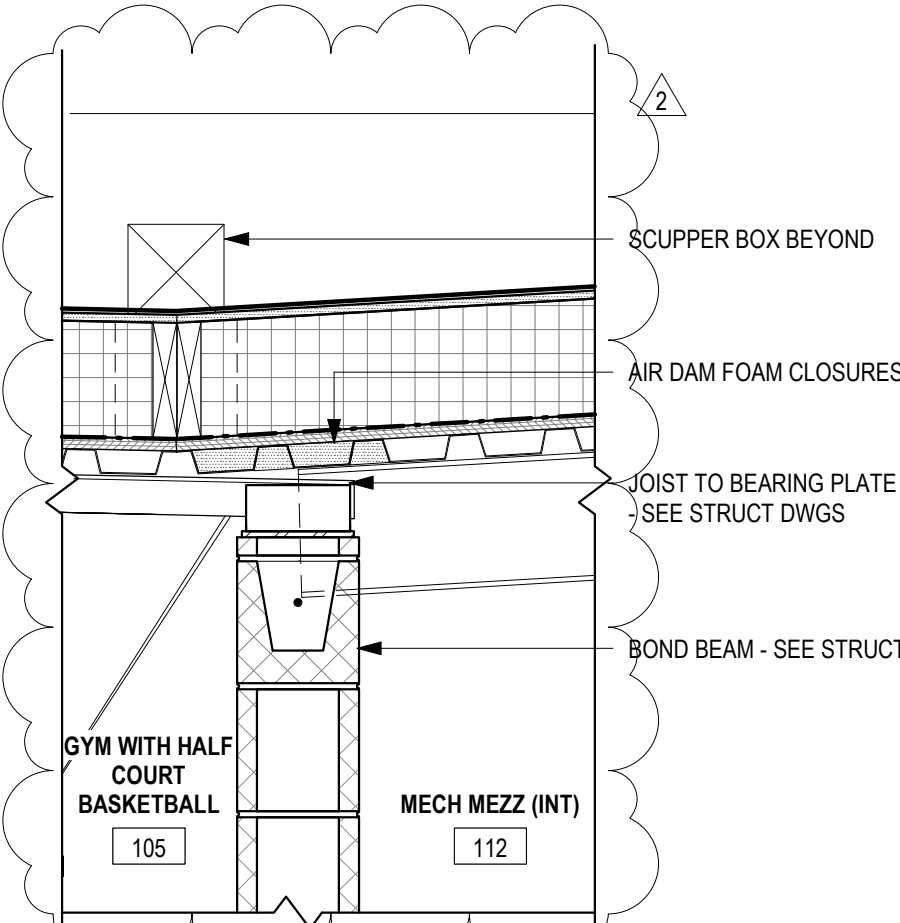
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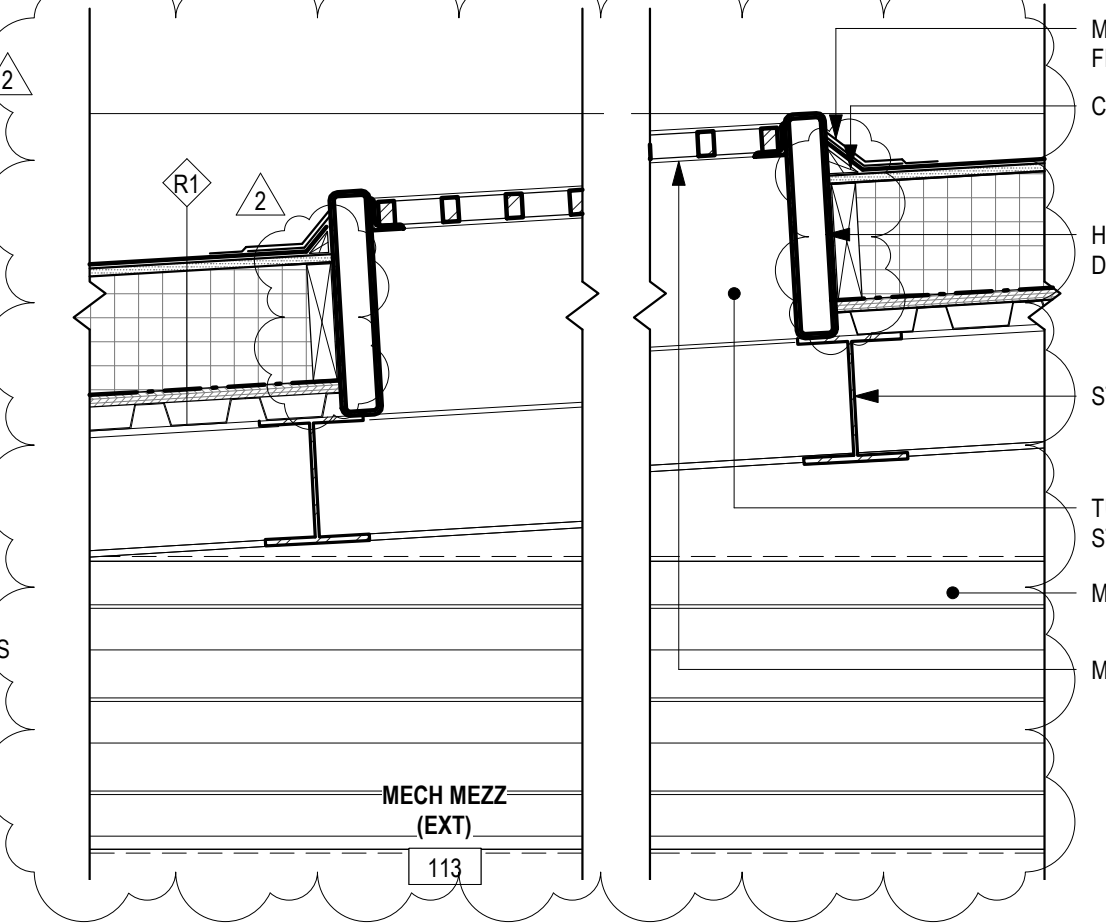
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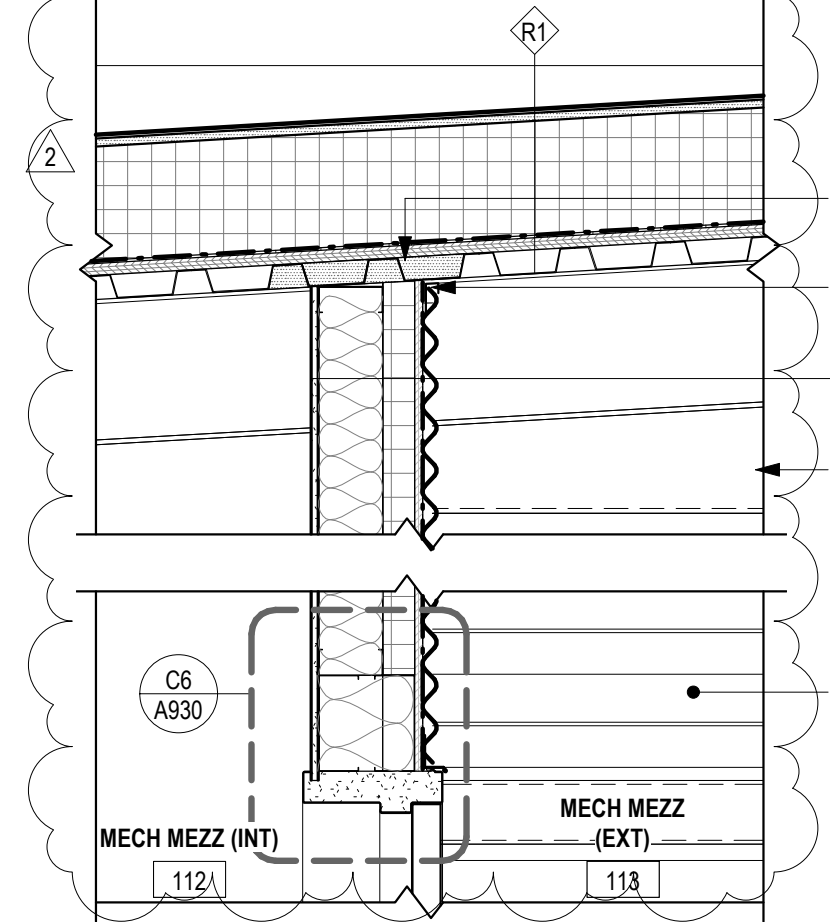
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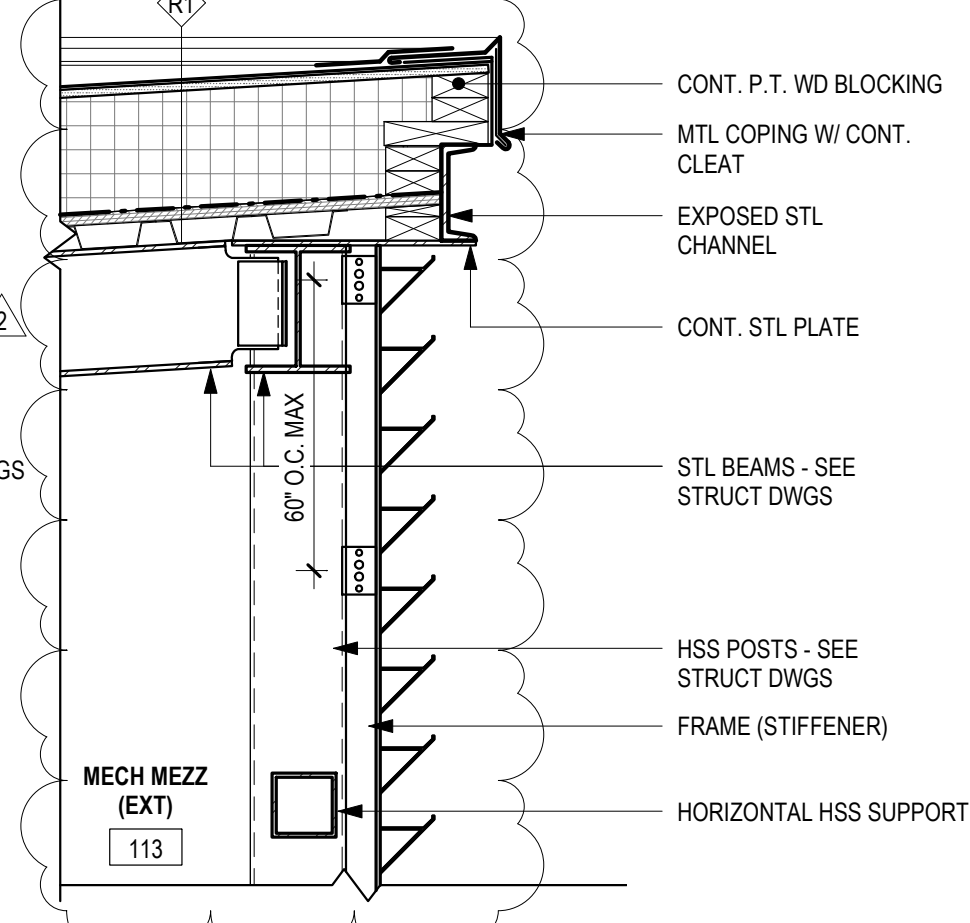
A1 DETAIL @ GYM CRICKET
1" = 1'-0"



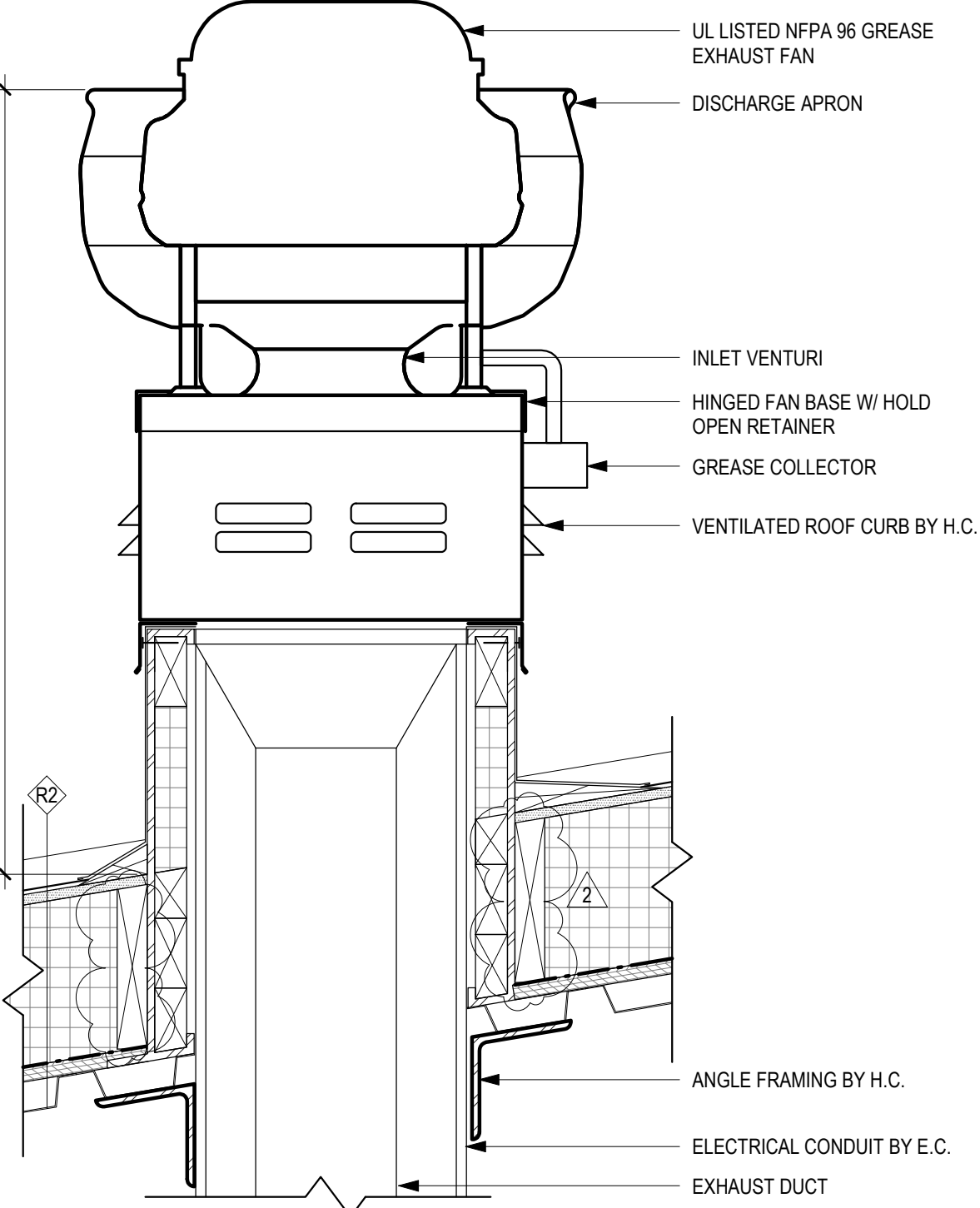
A2 DETAIL @ ROOF MECH VENT
1" = 1'-0"



A3 DETAIL @ ROOF MECH WALL INTERSECTION
1" = 1'-0"

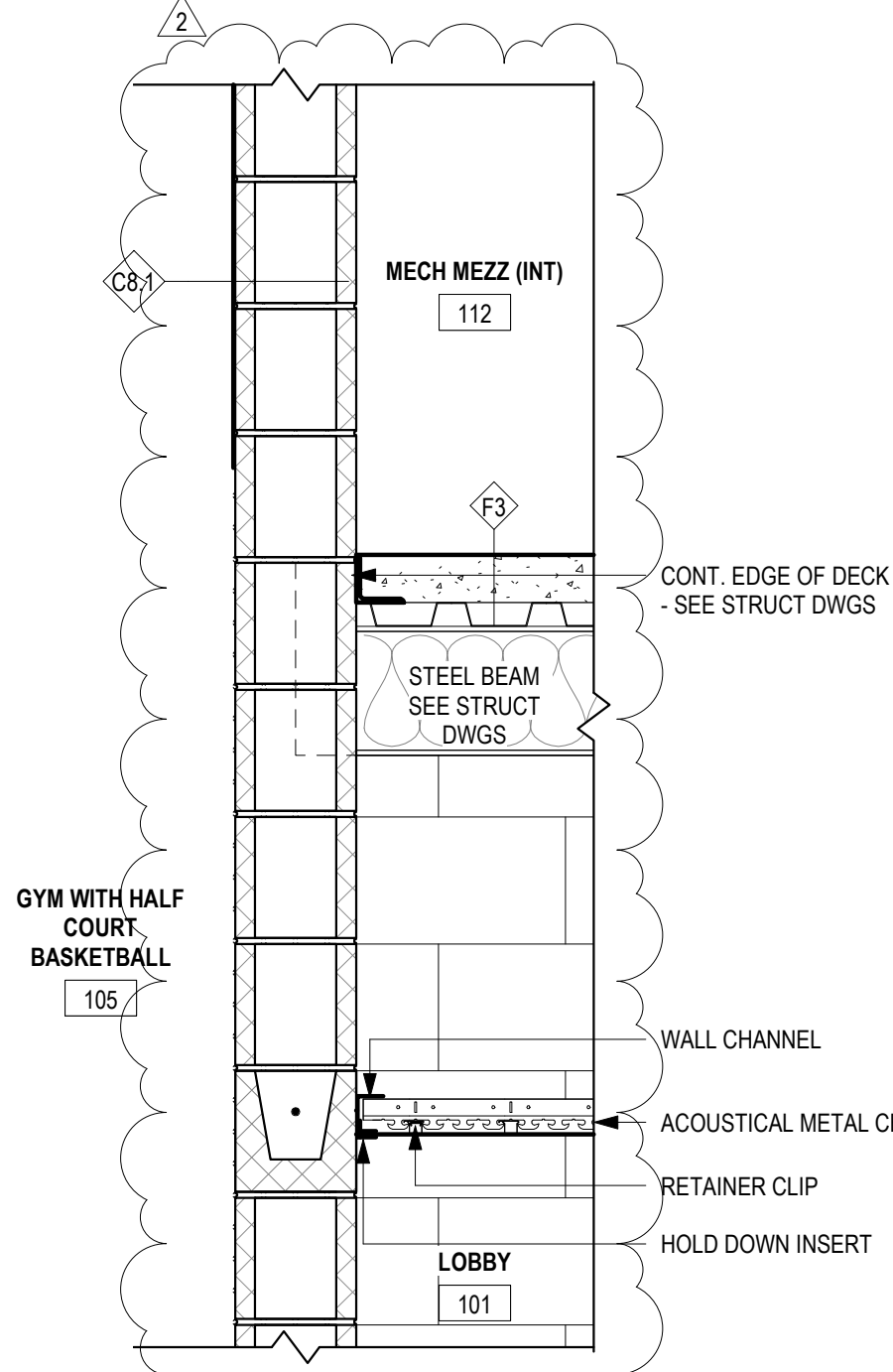


A4 DETAIL @ MECHANICAL LOUVER
1" = 1'-0"

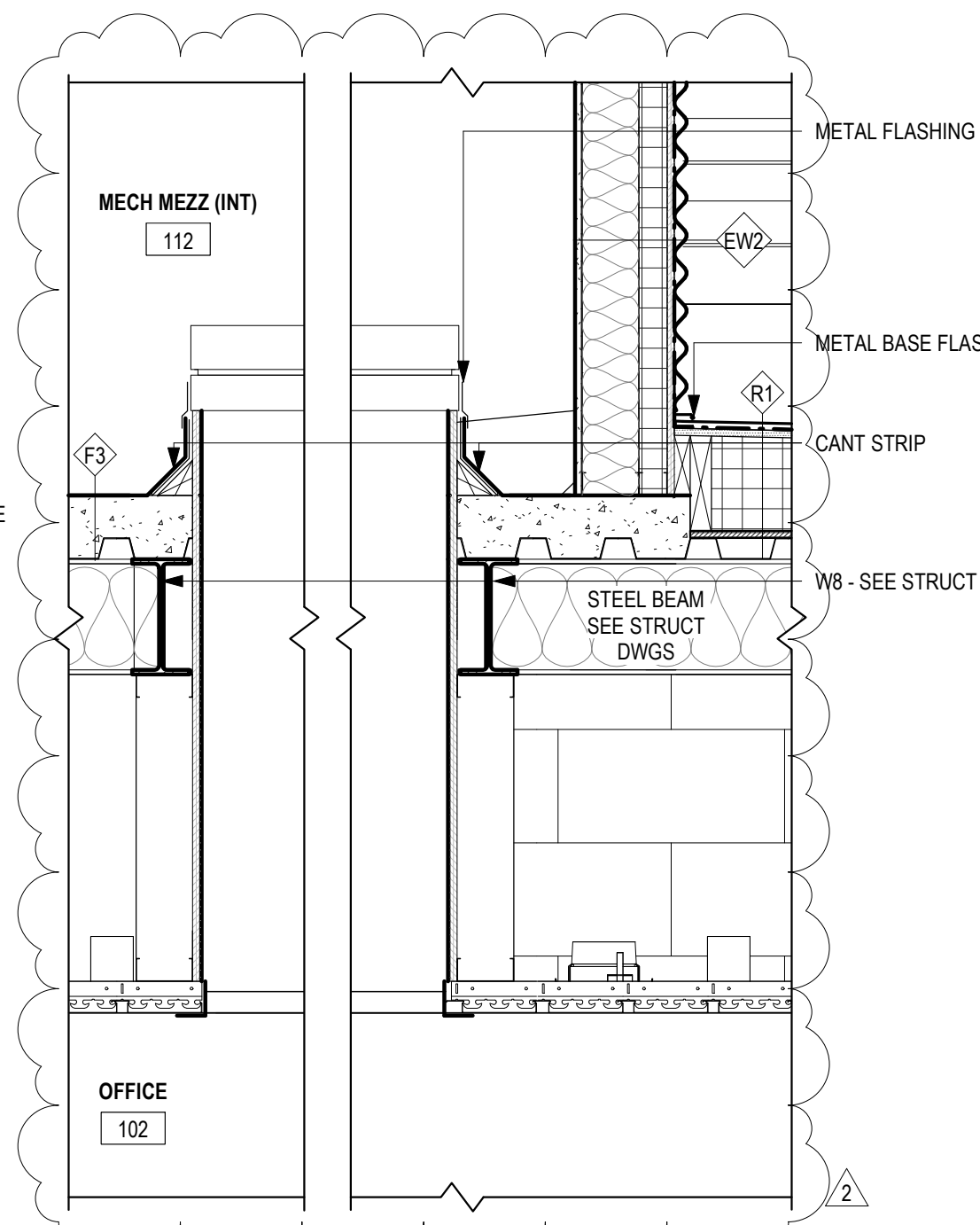


B5 KITCHEN HOOD EXHAUST FAN DETAIL
1 1/2" = 1'-0"

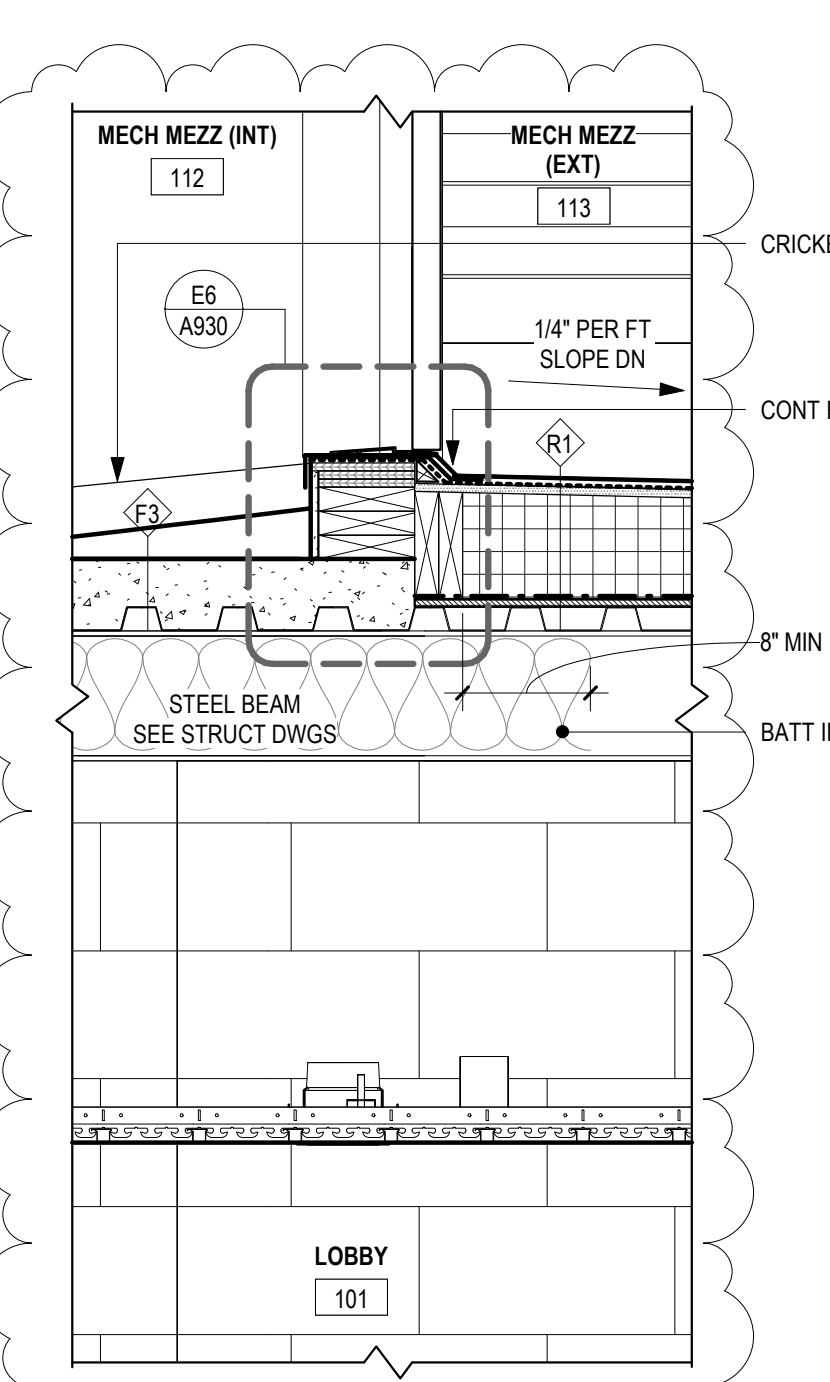
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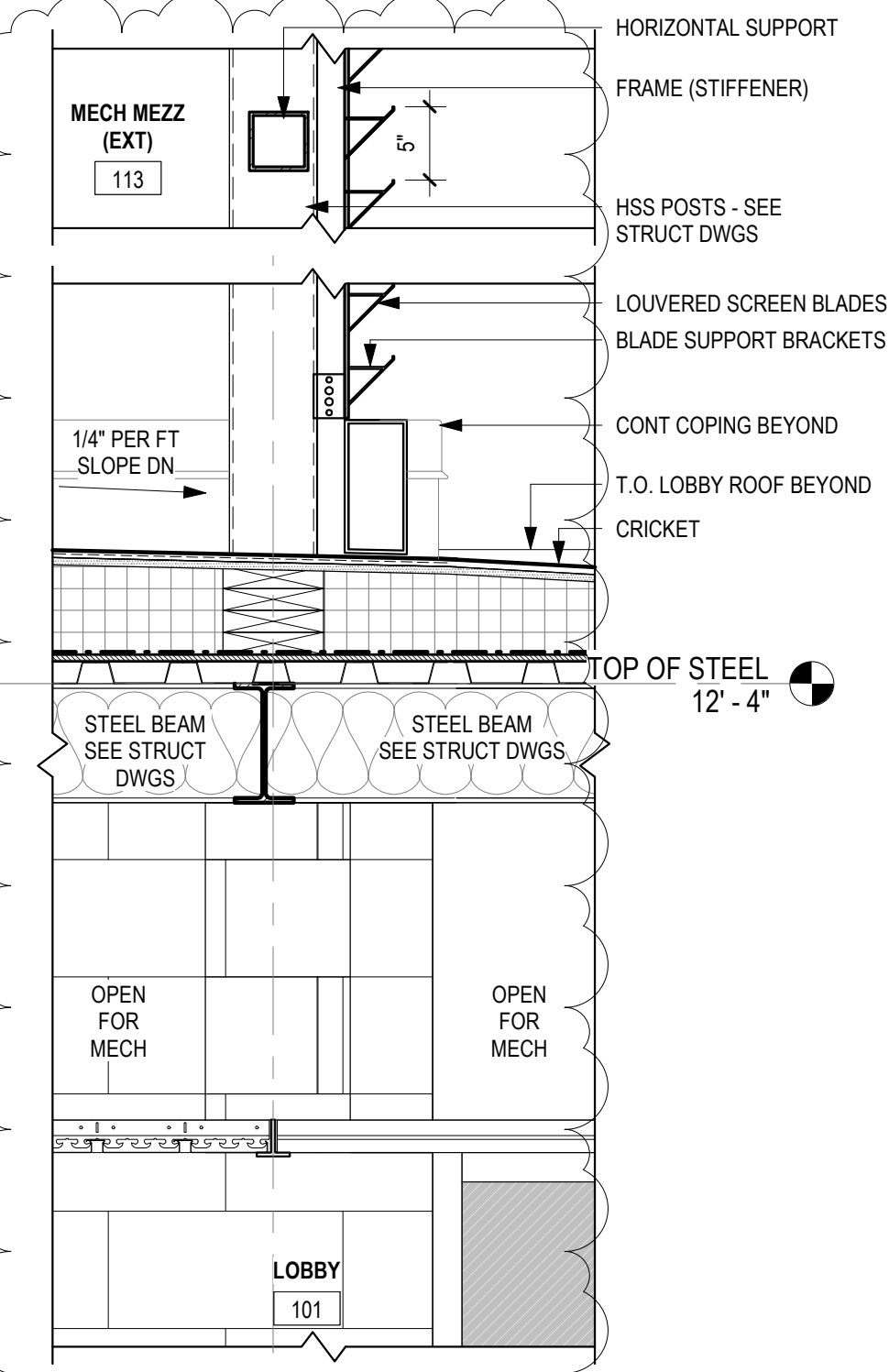
C1 DETAIL @ MECH RM 112
1" = 1'-0"



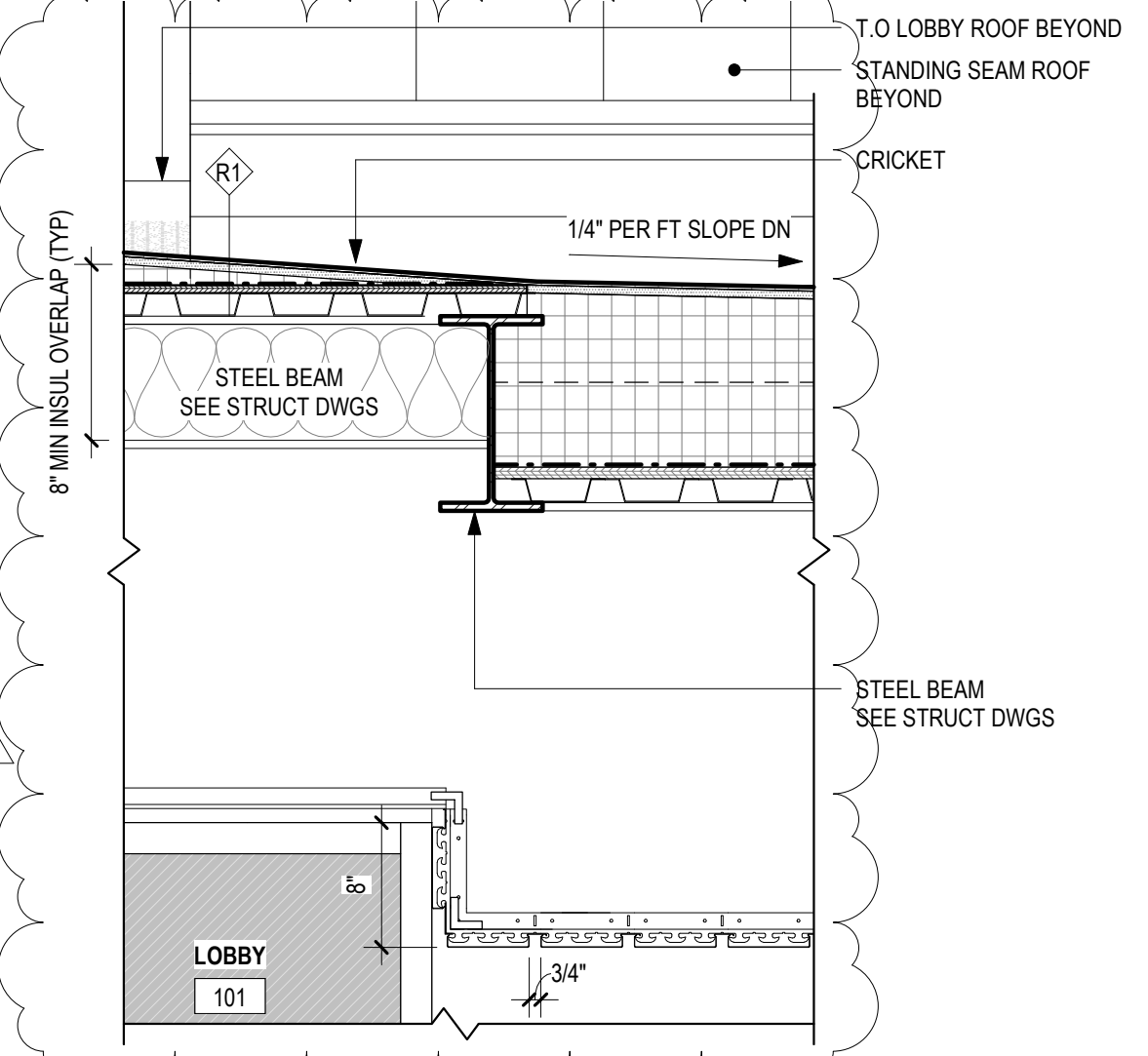
C2 DETAIL @ INSULATED ACCESS HATCH
1" = 1'-0"



C3 TRANSITION DETAIL @ MECH 112 AND 113
1" = 1'-0"

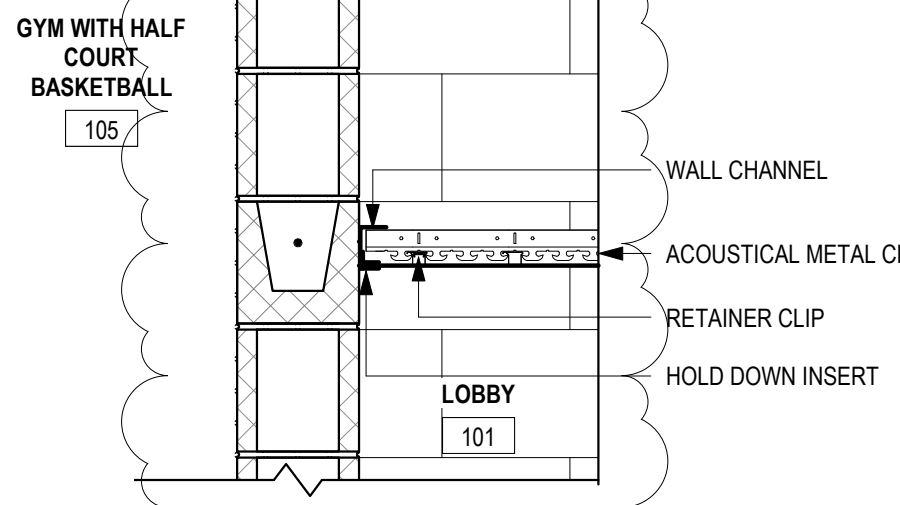


C4 TRANSITION DETAIL @ MECH AND LOBBY
1" = 1'-0"

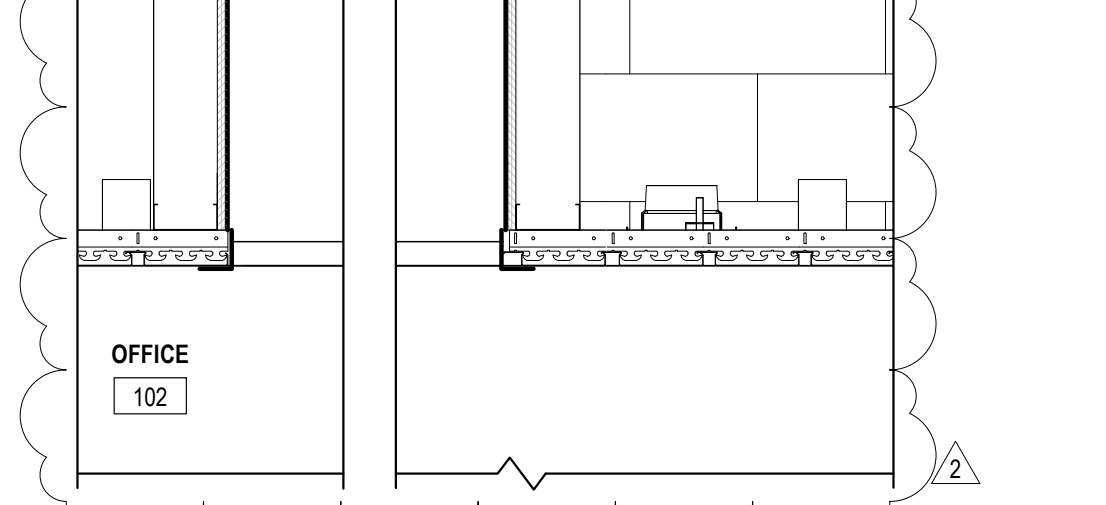


C5 TRANSITION DETAIL @ LOBBY
1" = 1'-0"

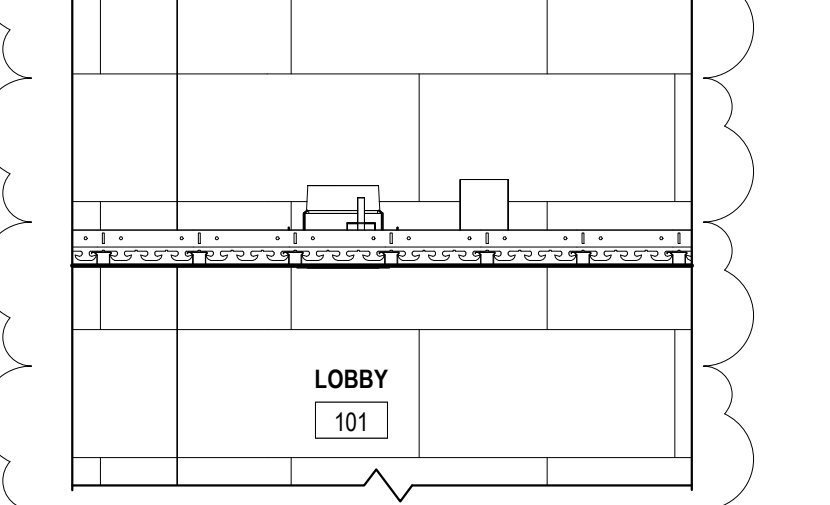
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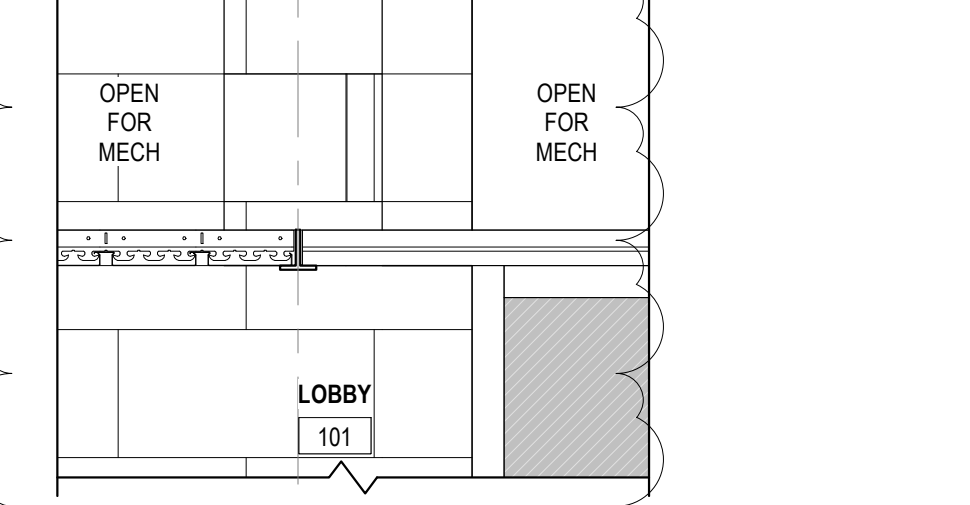
C1 DETAIL @ MECH RM 112
1" = 1'-0"



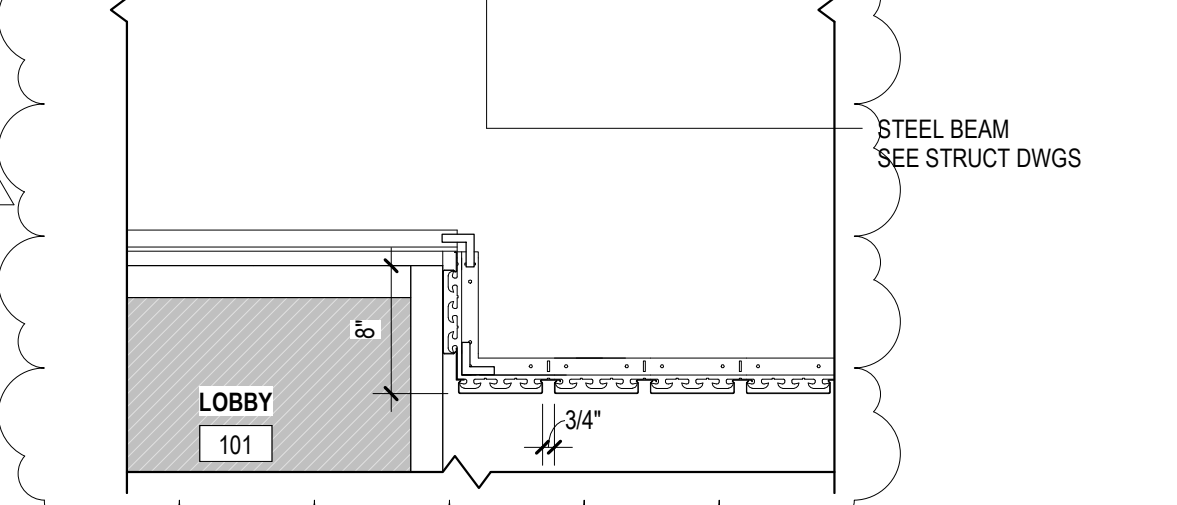
C2 DETAIL @ INSULATED ACCESS HATCH
1" = 1'-0"



C3 TRANSITION DETAIL @ MECH 112 AND 113
1" = 1'-0"

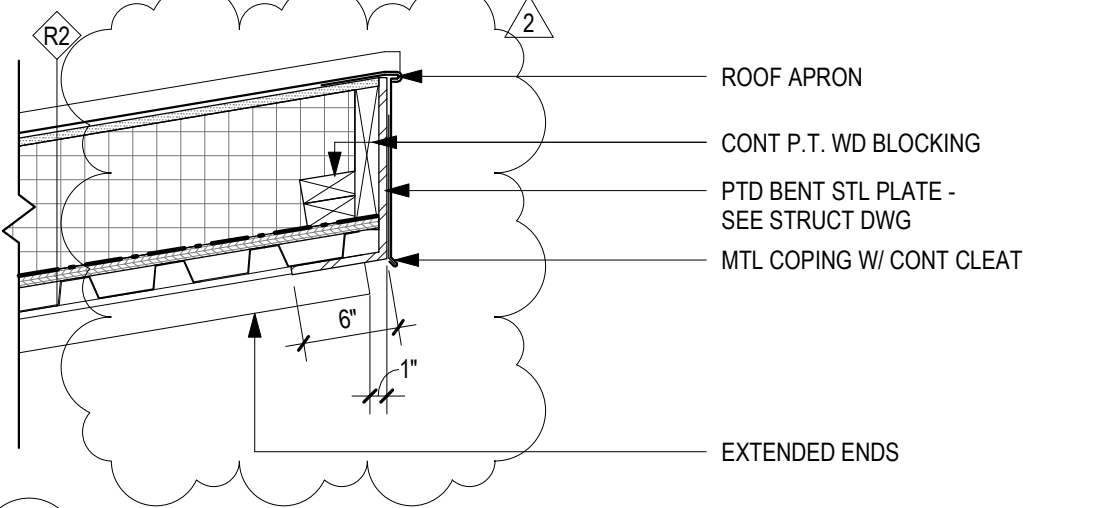


C4 TRANSITION DETAIL @ MECH AND LOBBY
1" = 1'-0"

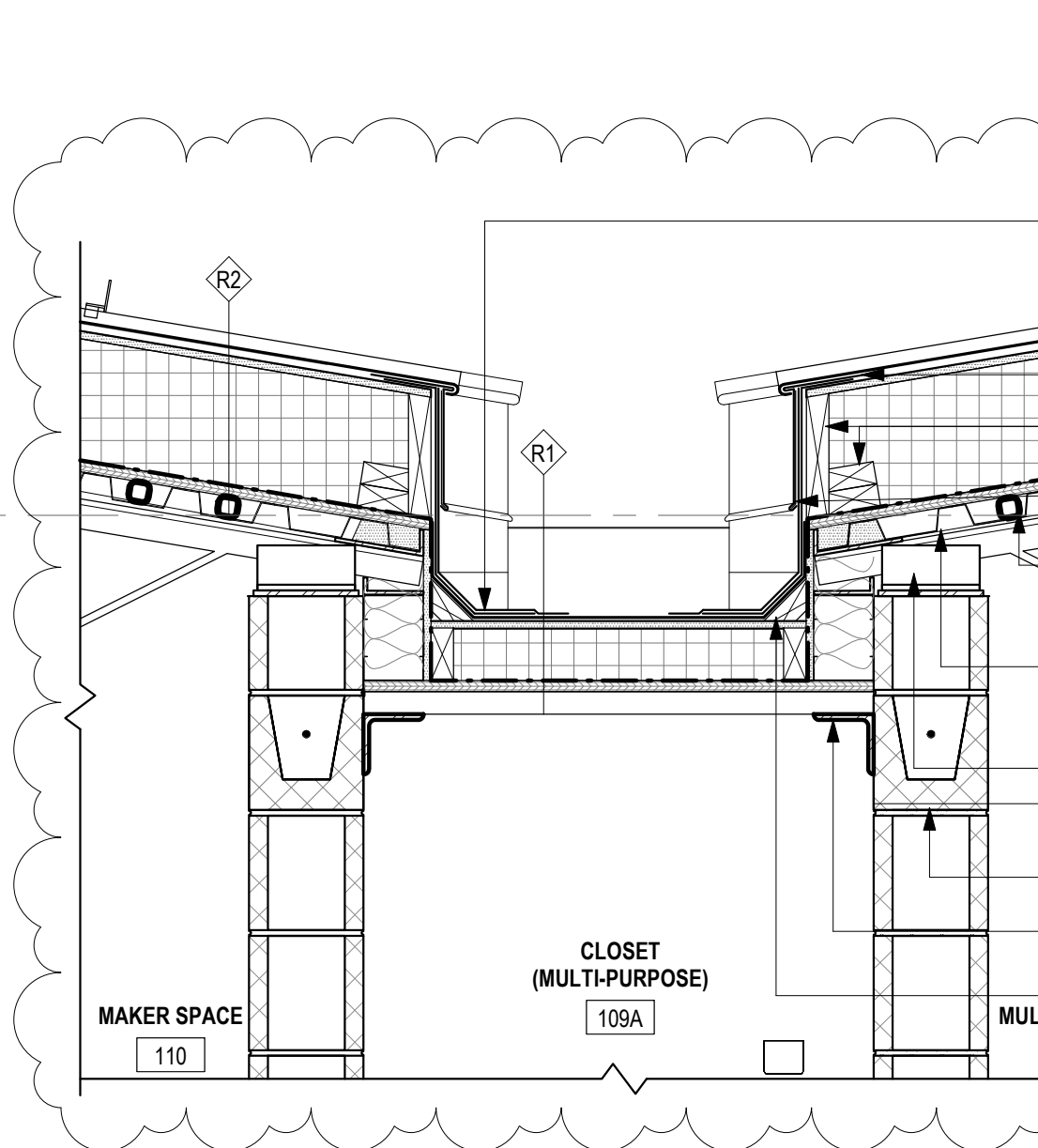


C5 TRANSITION DETAIL @ LOBBY
1" = 1'-0"

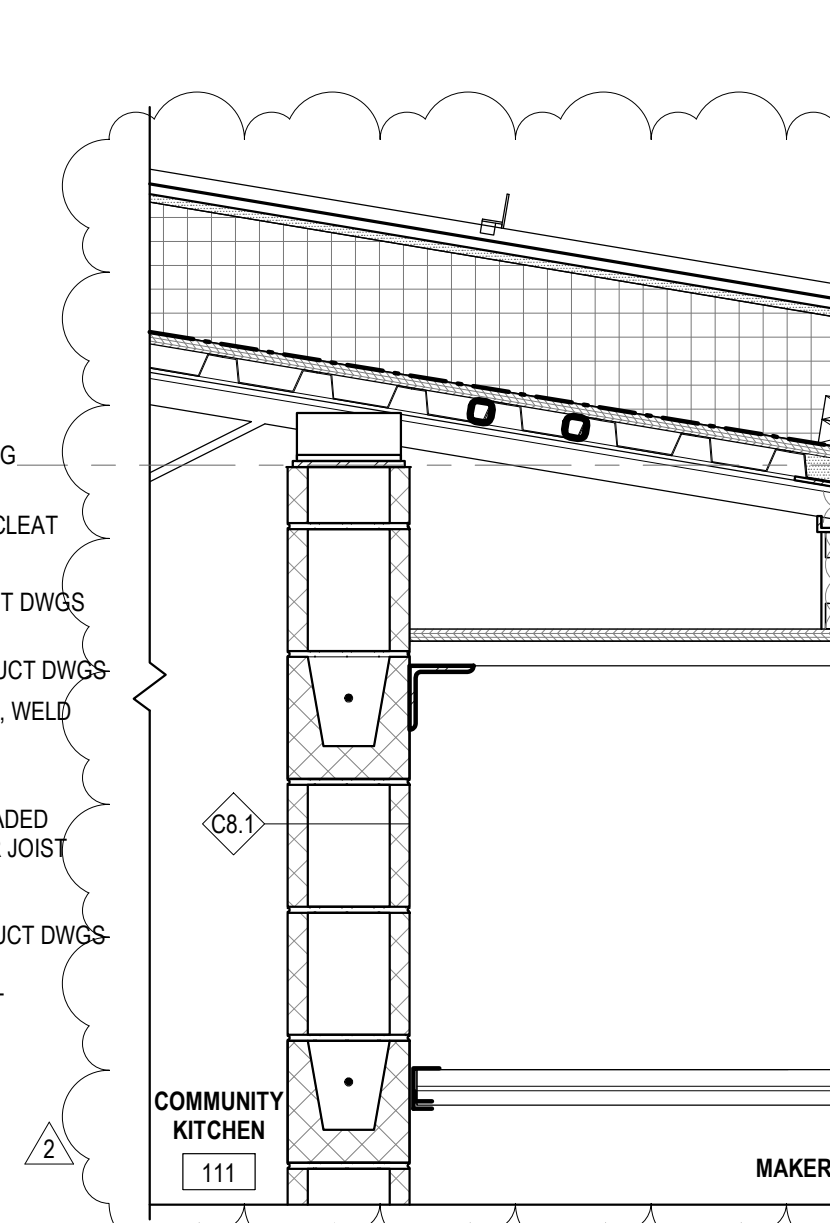
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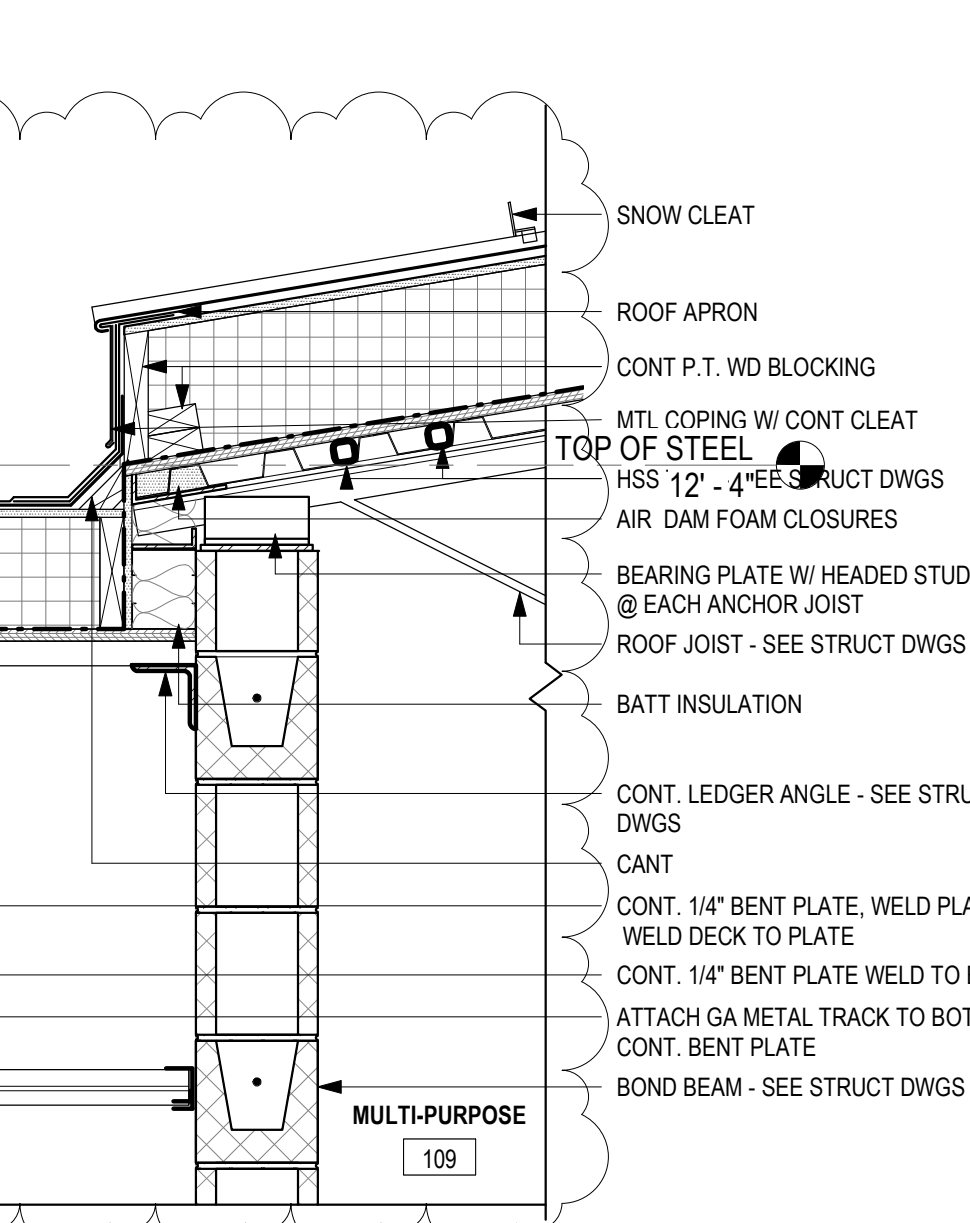
D1 DETAIL @ BUTTERFLY ROOF EDGE
1" = 1'-0"



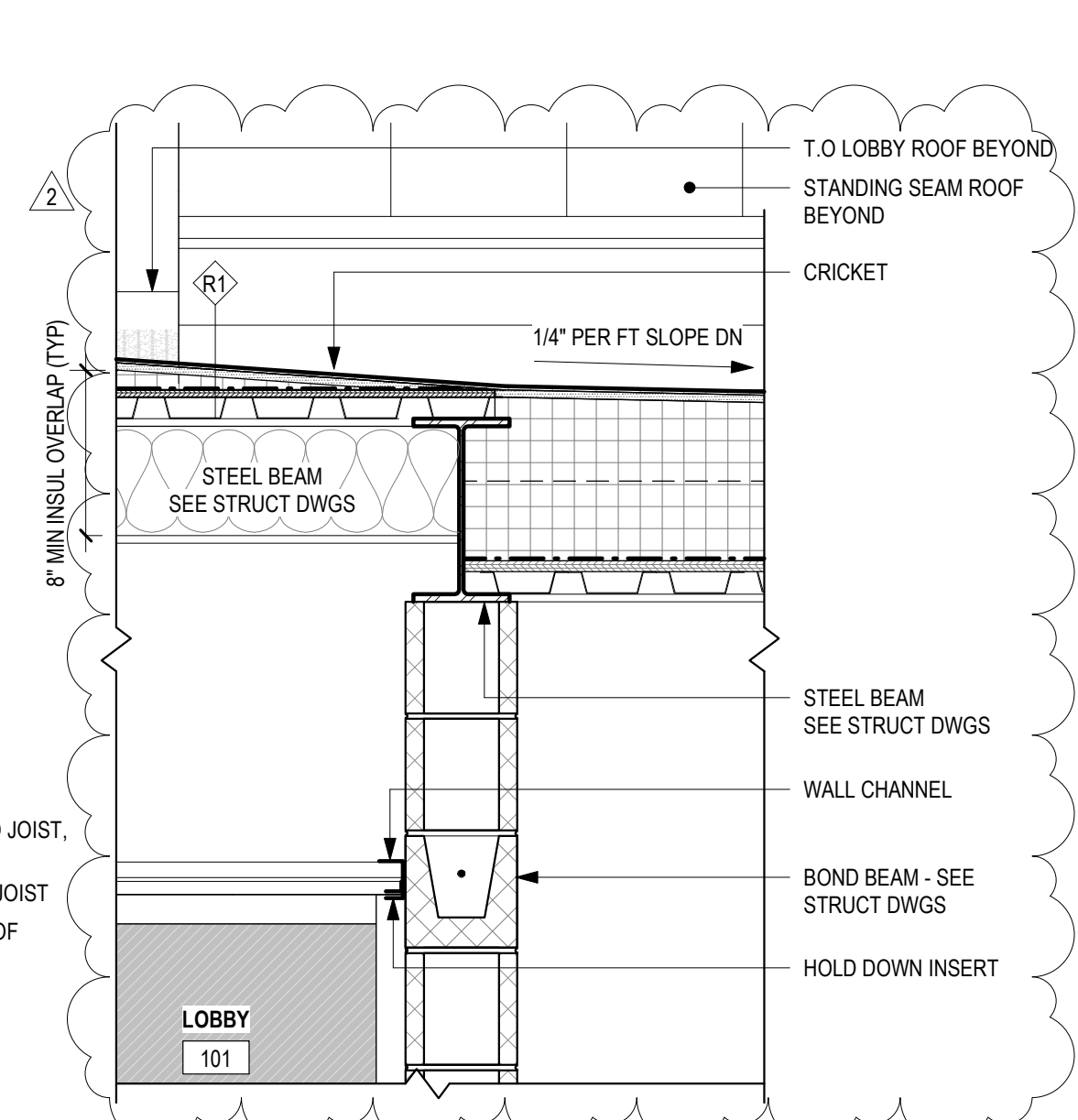
E2 DETAIL @ BUTTERFLY ROOF VALLEY 2
1" = 1'-0"



E3 DETAIL @ BUTTERFLY ROOF VALLEY
1" = 1'-0"

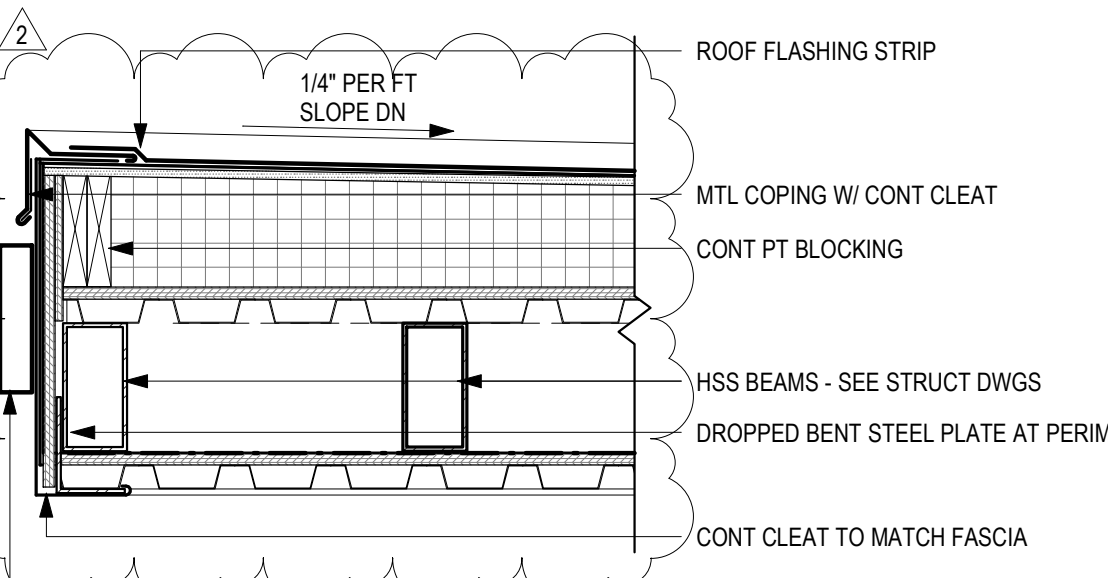


E4 DETAIL @ BUTTERFLY ROOF VALLEY
1" = 1'-0"

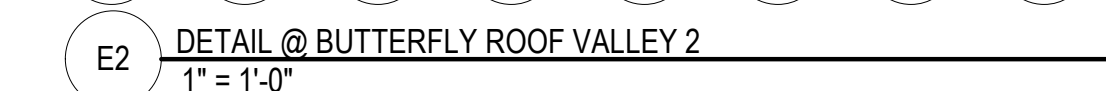


E5 TRANSITION DETAIL @ LOBBY AND MULTI-PURPOSE
1" = 1'-0"

E



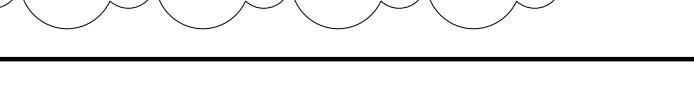
E1 DETAIL @ EDGE OF ENTRANCE
1" = 1'-0"



E2 DETAIL @ BUTTERFLY ROOF VALLEY 2
1" = 1'-0"



E3 DETAIL @ BUTTERFLY ROOF VALLEY
1" = 1'-0"



E4 DETAIL @ BUTTERFLY ROOF VALLEY
1" = 1'-0"



E5 TRANSITION DETAIL @ LOBBY AND MULTI-PURPOSE
1" = 1'-0"

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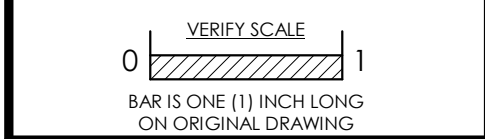
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REBUILD - VINCENT G. PANATI PLAYGROUND
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST, PHILADELPHIA PA 19132



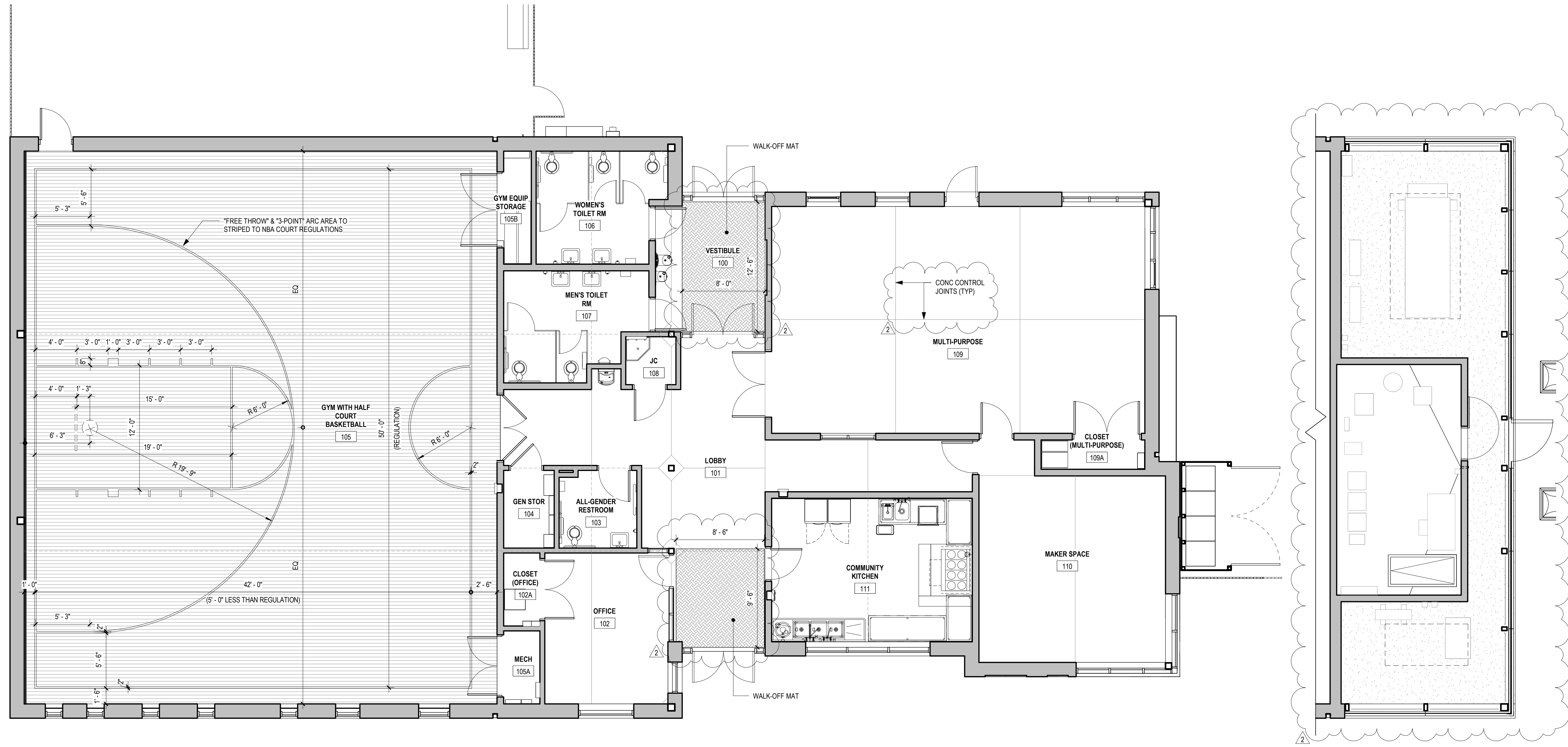
No.	Date	By	Description
1	02/09/2024		
2	03/01/2024		ADD ADDENDUM 2

Date: 02/09/2024
 Scale: As indicated
 Job No.: 604.2
 Drawn: NB, KN Appd.: cs

Sheet Title:
ROOF DETAILS

Sheet No.
A630

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D2 FIRST FLOOR FINISH & FURNISHING PLAN
3/16" = 1'-0"

D6 MECH MEZZ FINISH & FURNISHING PLAN
3/16" = 1'-0"

EQUIPMENT SCHEDULE

RM NO	ROOM NAME	TYPE	MANUFACTURER
100	VESTIBULE	LOOSE-LAY WALK-OFF MAT	CONSTRUCTION SPECIALTIES, INC
101	LOBBY	AED WALL CABINET WITH ALARM	STRYKER
101	LOBBY	LIFEPAC CR2 DEFIBRILLATOR	STRYKER
101	LOBBY	AED WALL SIGN TRADITIONAL WITH LOGO	STRYKER
101	LOBBY	LOOSE-LAY WALK-OFF MAT	CONSTRUCTION SPECIALTIES, INC
105B	GYM EQUIP STORAGE	GYM FLOOR COVER & STORAGE RACK	ALL COURT COVERS/RUBBER FLOORING, INC

ROOM FINISH SCHEDULE

NUMBER	NAME	WALL FINISH	FLOOR FINISH	BASE FINISH	CEILING FINISH	COMMENTS
100	VESTIBULE	GROUND FACE CMU	POLISHED CONCRETE*	-	ACOUSTIC METAL DECK CEILING	*8'x12'-6" LOOSE-LAY WALK-OFF MAT
101	LOBBY	GROUND FACE CMU	POLISHED CONCRETE*	-	ACOUSTIC METAL DECK CEILING	*8'-6"x9'-6" LOOSE-LAY WALK-OFF MAT
102	OFFICE	PTD CMU	POLISHED CONCRETE	-	ACOUSTIC METAL DECK CEILING	
102A	CLOSET (OFFICE)	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
103	ALL-GENDER RESTROOM	PTD CMU	EPOXY	EPOXY BASE	ACOUSTIC METAL DECK CEILING	
104	GEN STOR	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
105	GYM WITH HALF COURT BASKETBALL	PTD CMU/ACOUSTIC CMU*	RESILIENT WOOD FLOOR	VENTED COVE	ACOUSTIC METAL DECK CEILING	*SEE SECTIONS FOR EXTENT OF CMU AND ACOUSTIC CMU
105A	MECH	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
105B	GYM EQUIP STORAGE	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
106	WOMEN'S TOILET RM	PTD CMU	EPOXY	EPOXY BASE	ACOUSTIC METAL DECK CEILING	
107	MEN'S TOILET RM	PTD CMU	EPOXY	EPOXY BASE	ACOUSTIC METAL DECK CEILING	
108	JC	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
109	MULTI-PURPOSE	PTD CMU	POLISHED CONCRETE	-	ACOUSTIC METAL DECK CEILING	
109A	CLOSET (MULTI-PURPOSE)	PTD CMU	POLISHED CONCRETE	-	EXPOSED	
110	MAKER SPACE	PTD CMU	POLISHED CONCRETE	-	ACOUSTIC METAL DECK CEILING	
111	COMMUNITY KITCHEN	PTD CMU/FRP	EPOXY	EPOXY BASE	ACOUSTIC METAL DECK CEILING	
112	MECH MEZZ (INT)	PTD CMU*/MOLD-RESISTANT GWB	CONCRETE	-	EXPOSED	*SEE PLAN FOR EXTENT OF CMU AND MOLD RESISTANT GWB
113	MECH MEZZ (EXT)	PTD CMU*/LOUVERS	ROOFING	-	EXPOSED	*SEE PLAN FOR EXTENT OF CMU AND LOUVERS

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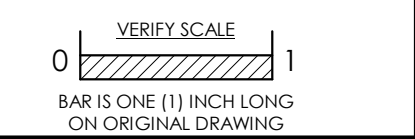
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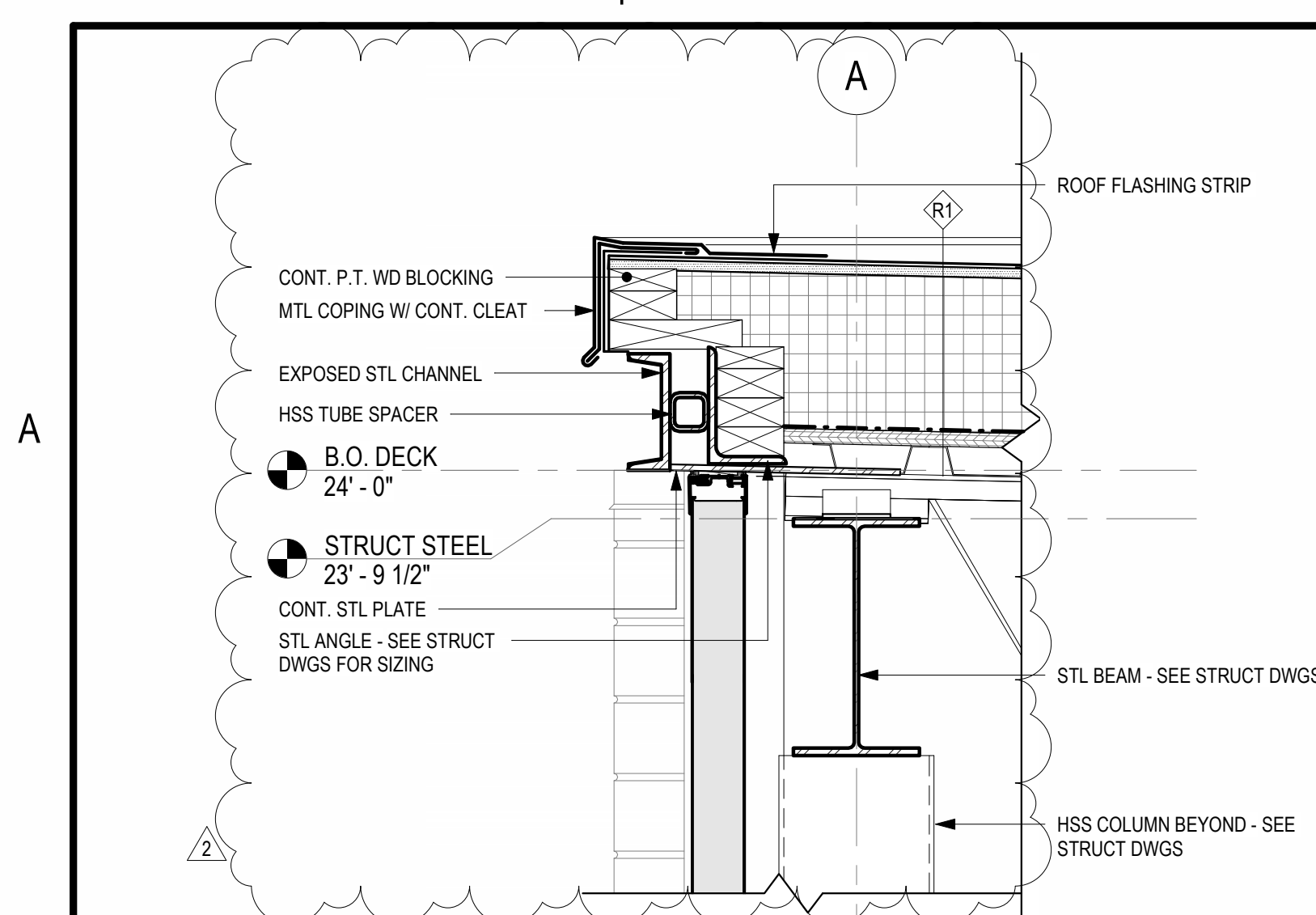
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**REBUILD - VINCENT G.
 PANATI PLAYGROUND**
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST, PHILADELPHIA PA 19132

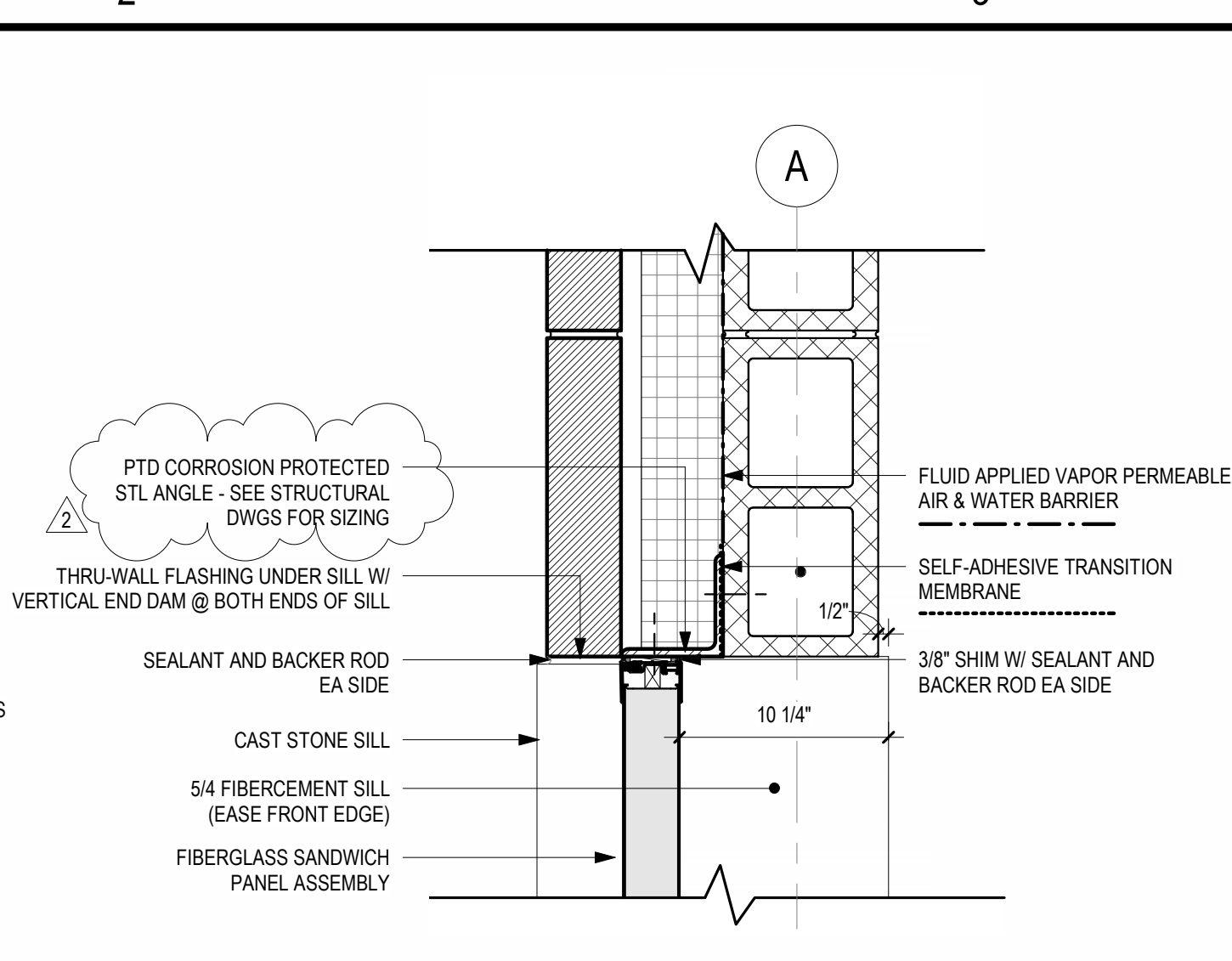


No.	Date	By	Description
1	02/09/2024		ISSUED FOR PERMIT
2	03/01/2024		REVISED PER COMMENTS

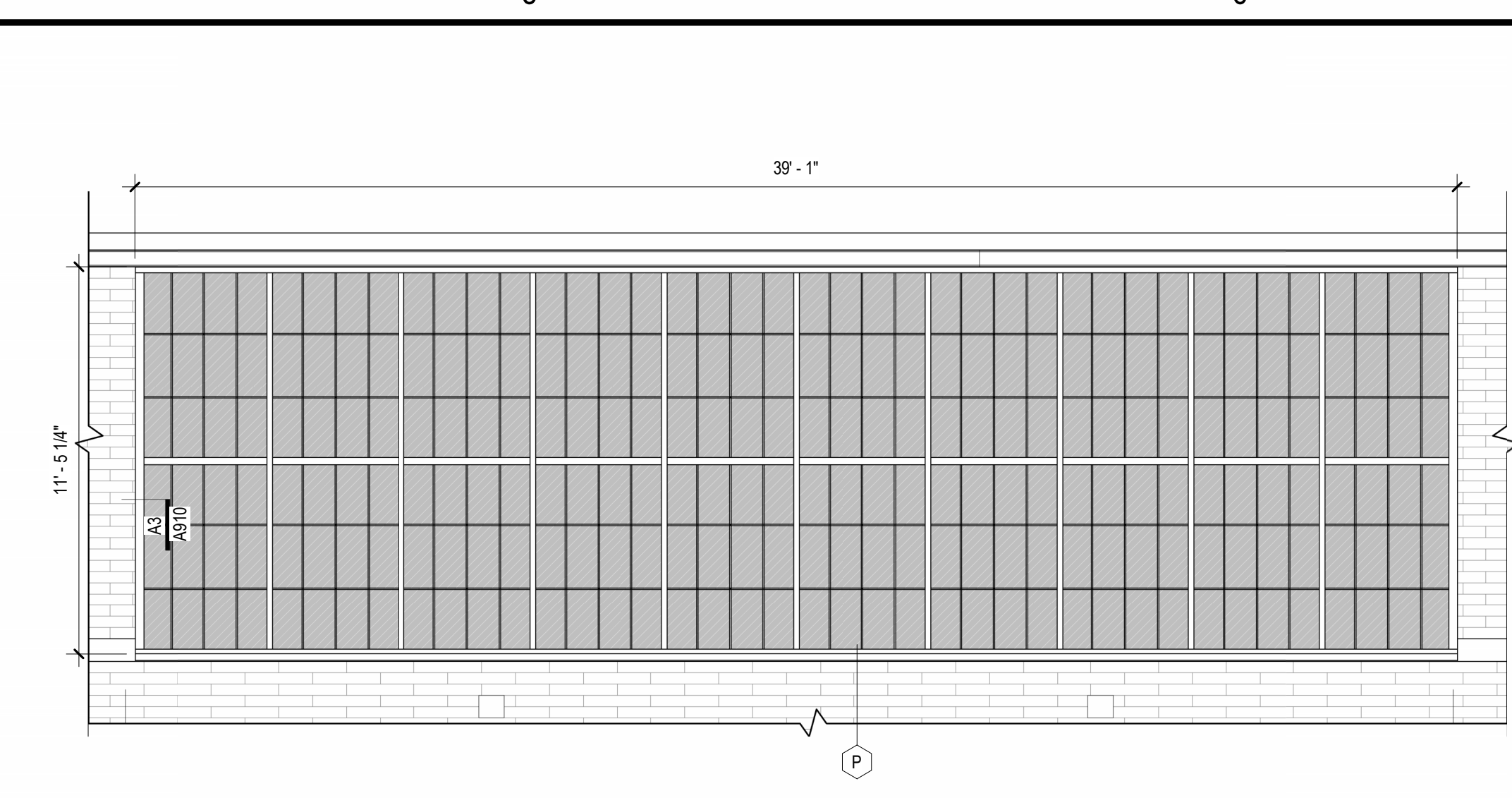
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 Job No.: 604.2
 Drawn: NB, KN | Appd.: cs
 Sheet Title:
FINISH & FURNISHING PLAN
 Sheet No.
A810



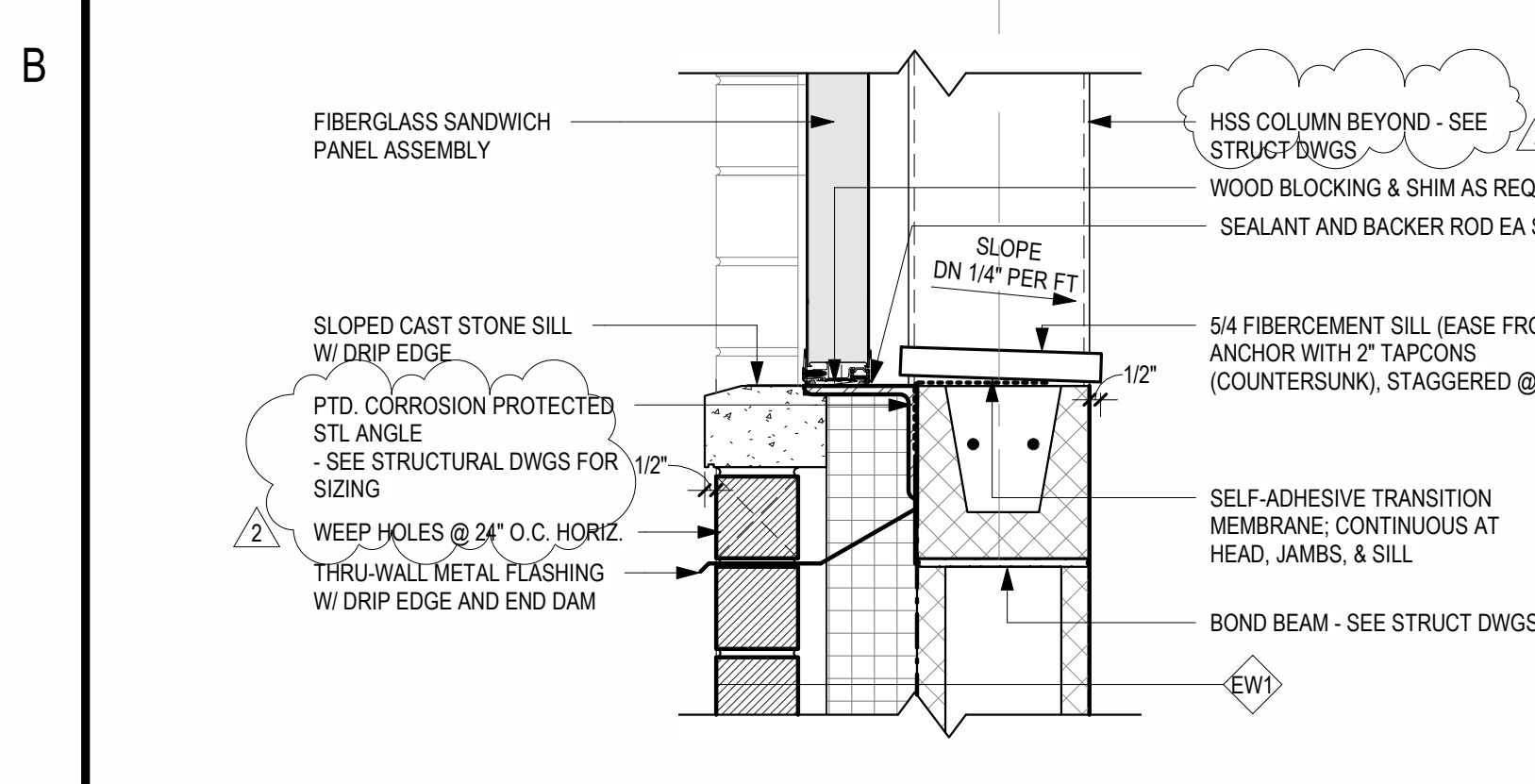
A1 HEAD DETAIL @ FIBERGLASS-SANDWICH-PANEL ASSEMBLY
1 1/2" = 1'-0"



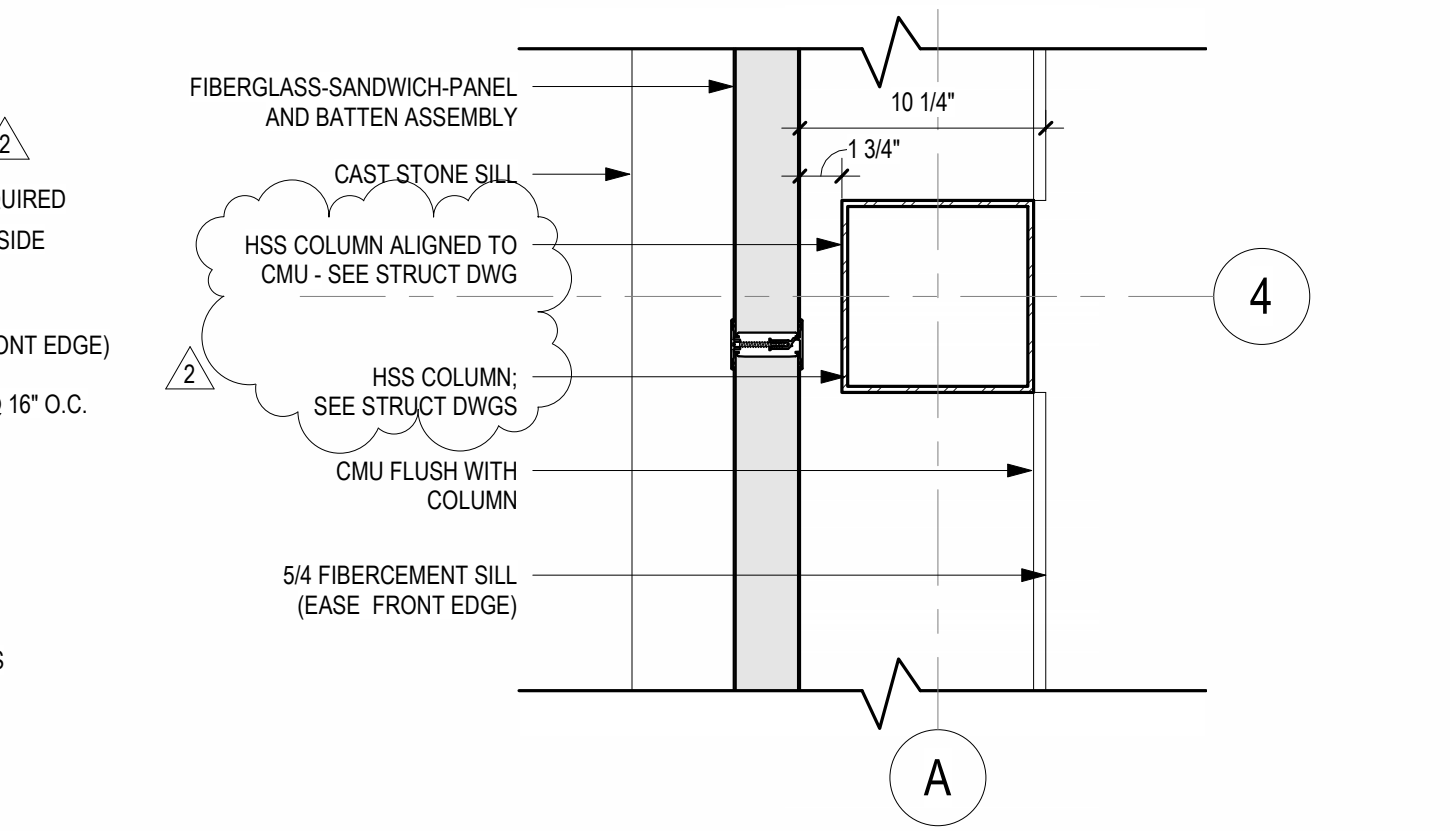
A2 JAMB DETAIL @ FIBERGLASS-SANDWICH-PANEL ASSEMBLY
1 1/2" = 1'-0"



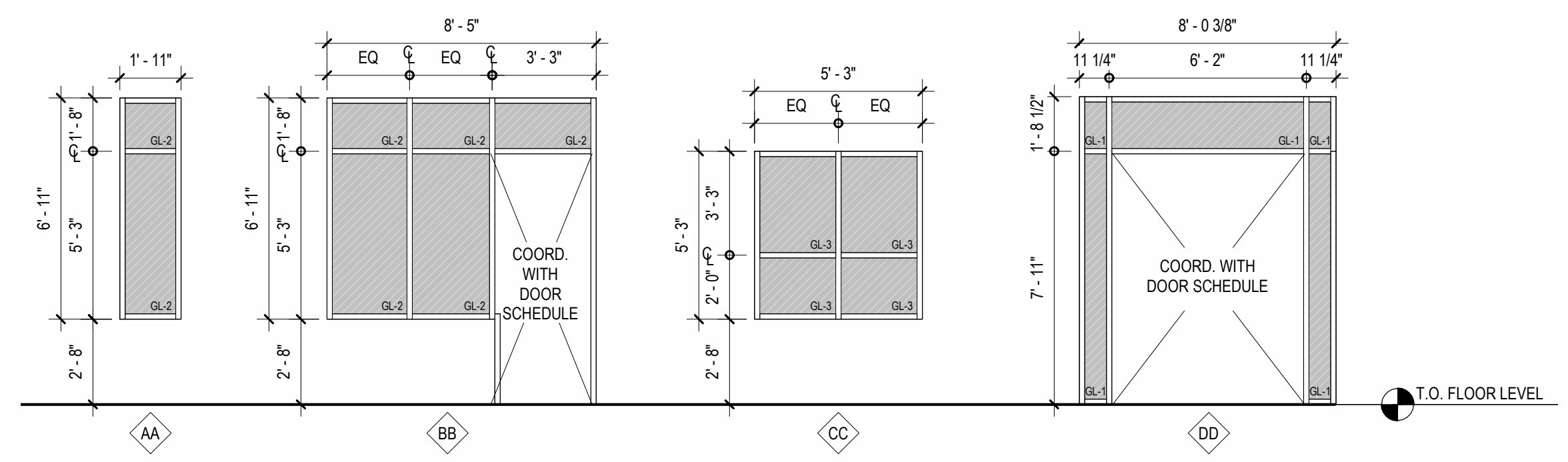
A4 FIBERGLASS-SANDWICH-PANEL - ELEVATION
1/4" = 1'-0"



B1 SILL DETAIL @ FIBERGLASS-SANDWICH-PANEL ASSEMBLY
1 1/2" = 1'-0"

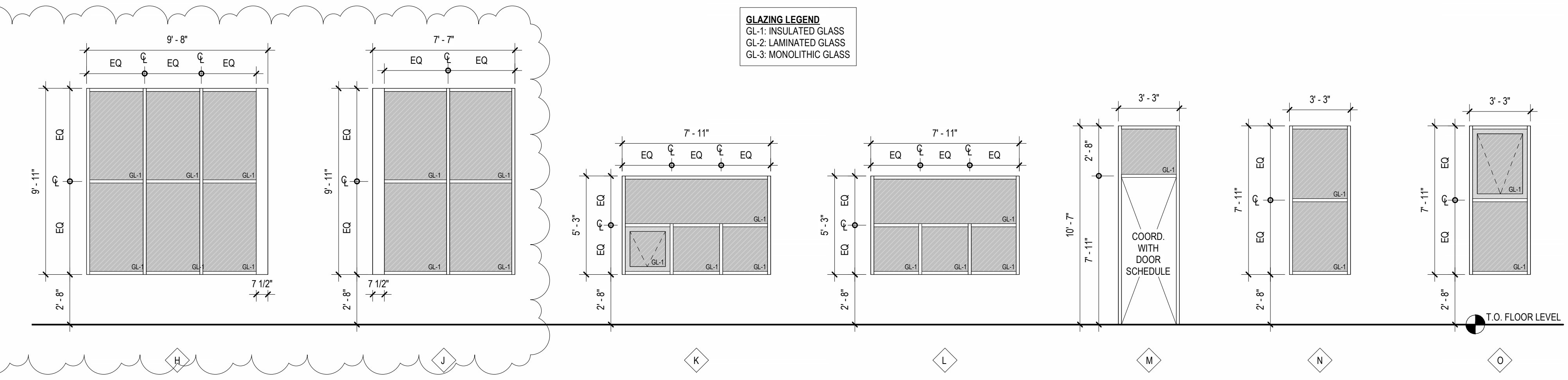
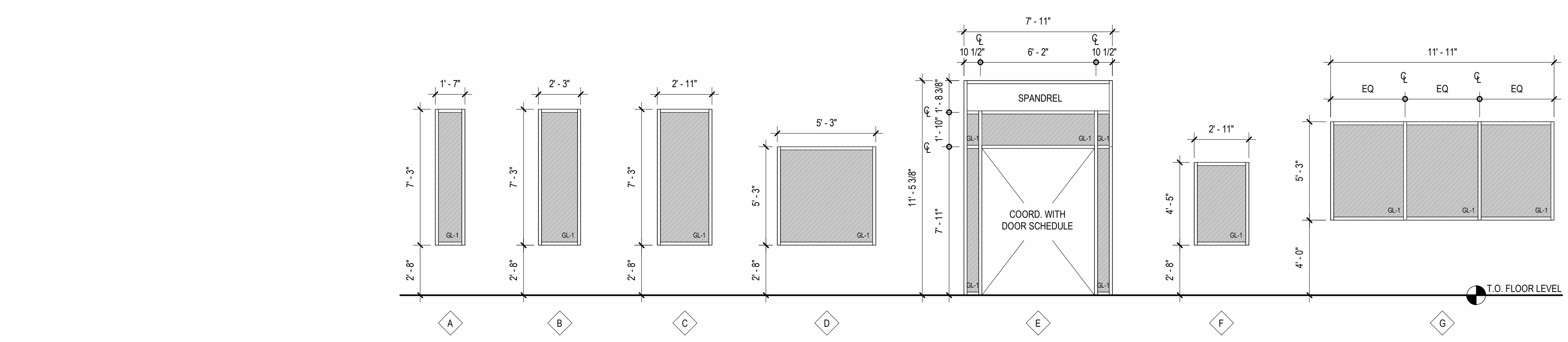


B2 COLUMN DETAIL @ FIBERGLASS-SANDWICH-PANEL ASSEMBLY
1 1/2" = 1'-0"



B4 INTERIOR STOREFRONT LEGEND
1/4" = 1'-0"

WINDOW SCHEDULE												
ID #	TYPE	MANUF	MODEL	SINGLE WDW AREA	QTY	TOTAL WDW AREA	U-FACTOR	SHGC	PF, DETAIL PAGE #	VT	ROLLER-SHADES	NOTES
NORTH												
P	FIXED	KALWALL	WALL SYSTEMS	487	1	487	0.30	0.30	0	N/A	NA	
EAST												
E	FIXED	KAWNEER	TRIFAB 601T	44	1	44	0.38	0.36	0	N/A	NA	
L	FIXED	KAWNEER	TRIFAB 601T	42	1	42	0.38	0.36	0	N/A	1 & 2	
M	FIXED	KAWNEER	TRIFAB 601T	9	1	9	0.38	0.36	0	N/A	1 & 2	
N	FIXED	KAWNEER	TRIFAB 601T	26	1	26	0.38	0.36	0	N/A	1 & 2	
O	CASEMENT/ FIXED	KAWNEER	TRIFAB 601T	26	1	26	0.38	0.36	0	N/A	1 & 2	
SOUTH												
F	FIXED	KAWNEER	TRIFAB 601T	13	1	13	0.38	0.36	0	N/A	1	
J	FIXED	KAWNEER	TRIFAB 601T	75	1	75	0.38	0.36	0	N/A	1	
K	CASEMENT/ FIXED	KAWNEER	TRIFAB 601T	42	1	42	0.38	0.36	0	N/A	1 & 2	
WEST												
A	FIXED	KAWNEER	TRIFAB 601T	12	5	60	0.38	0.36	0	N/A	NA	
B	FIXED	KAWNEER	TRIFAB 601T	16	1	16	0.38	0.36	0	N/A	NA	
C	FIXED	KAWNEER	TRIFAB 601T	21	1	21	0.38	0.36	0	N/A	NA	
D	FIXED	KAWNEER	TRIFAB 601T	28	1	28	0.38	0.36	0	N/A	1	
E	FIXED	KAWNEER	TRIFAB 601T	44	1	44	0.38	0.36	0	N/A	NA	
G	FIXED	KAWNEER	TRIFAB 601T	63	1	63	0.38	0.36	0	N/A	NA	
H	FIXED	KAWNEER	TRIFAB 601T	96	1	96	0.38	0.36	0	N/A	1	
ROOF												
Q	FIXED	WASCO	DOMED UNITS	10	2	20	0.50	0.40	0	N/A	NA	



E2 EXTERIOR STOREFRONT LEGEND
1/4" = 1'-0"

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REBUILD - VINCENT G. PANATI PLAYGROUND
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VERIFY SCALE
 0 1
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

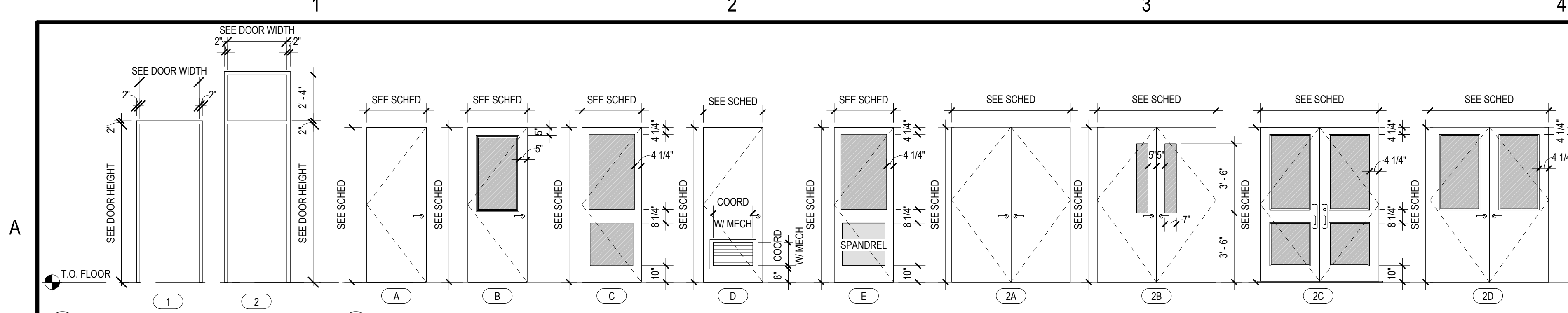
No.	Date	By	Description
2	03/01/2024		BID ADDENDUM 2

Date: 02/09/2024
 Scale: As indicated
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 Drawn: NB, KN | Appd.: CS

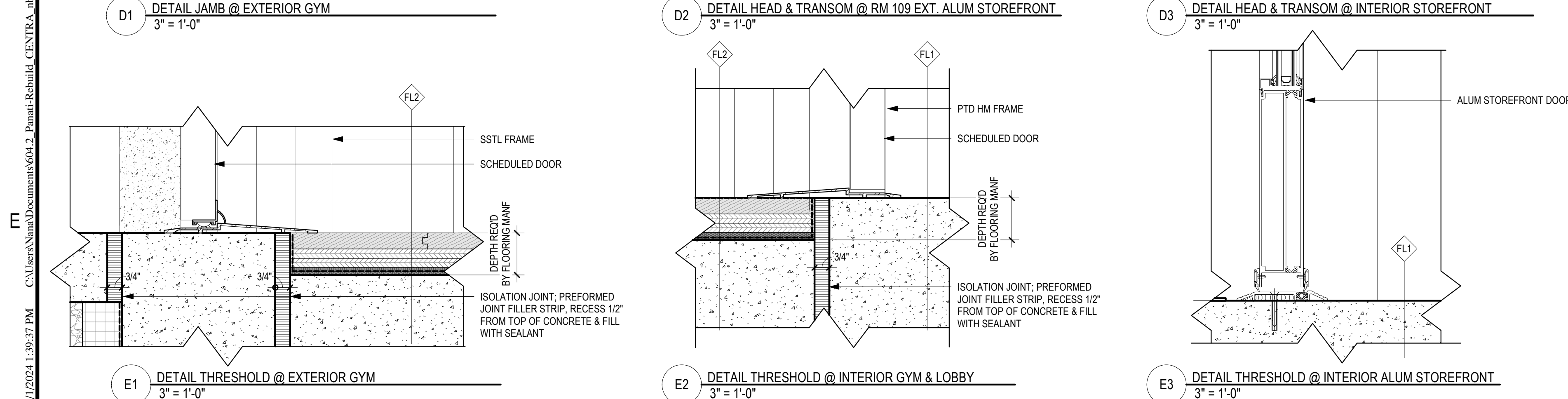
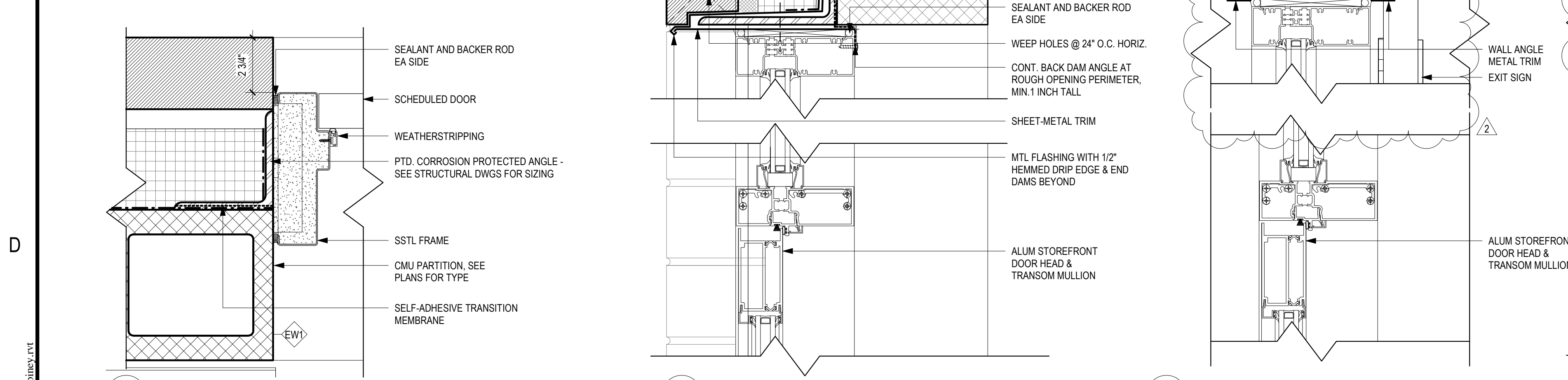
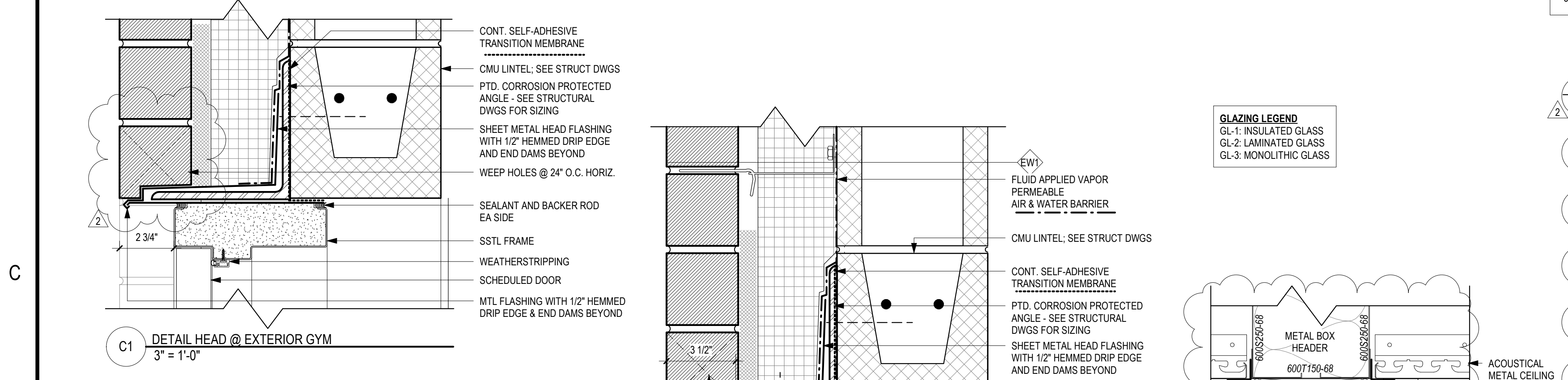
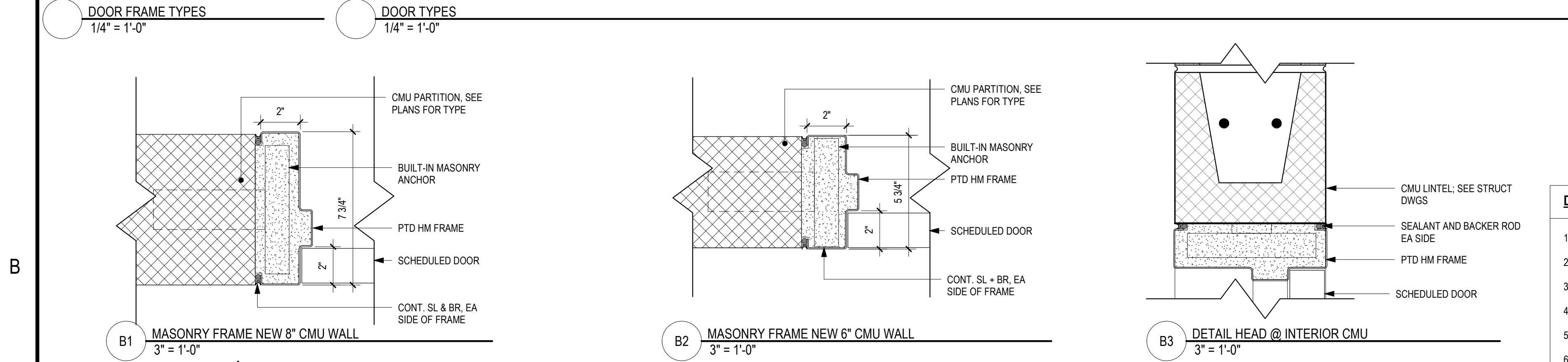
Sheet Title:
 WINDOW SCHEDULES, TYPES, DETAILS

Sheet No.
A910

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DOOR SCHEDULE																
DOOR No.	ROOM	TYPE	INTERIOR OR EXTERIOR	WIDTH	HEIGHT	THICKNESS	DOOR MTL	FINISH	FRAME TYPE	FRAME MTL	GLAZING	HEAD DTL	JAMB DTL	HARDWARE SET	COMMENTS	
100/A	VESTIBULE	2C	Exterior	6'-0"	7'-10"	0'-1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D4/A930	B4/A610	E4/A930	07	
101/A	LOBBY	2C	Exterior	6'-0"	7'-10"	0'-1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D4/A930	A4/A610	E4/A930	07	
101/B	LOBBY	2C	Interior	6'-0"	7'-10"	0'-1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1	D3/A930	A2/A610	E3/A930	07	
102/A	OFFICE	C	Interior	3'-0"	7'-10"	0'-1 3/4"	ALUM	CLEAR ANODIZED	1	ALUM	GL-2	B1/A620	C4/A610	E3/A930	01	
102/A	CLOSET (OFFICE)	2A	Interior	5'-8"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03A	
103/A	ALL-GENDER RESTROOM	D	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	02	SIGHT-PROOF LOUVER
104/A	GEN STOR	A	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03	
105/A	GYM WITH HALF COURT BASKETBALL	2B	Interior	6'-4"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	E2/A930	05	
105/B	GYM WITH HALF COURT BASKETBALL	A	Exterior	3'-0"	7'-10"	0'-1 3/4"	SSTL	SATIN	1	SSTL	-	C1/A930	D1/A930	E1/A930	11	
105/A	MECH	2A	Interior	4'-5 1/8"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	E2/A930	04	
105B/A	GYM EQUIP STORAGE	2A	Interior	7'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	E2/A930	03A	
106/A	WOMEN'S TOILET RM	D	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	09	SIGHT-PROOF LOUVER
107/A	MEN'S TOILET RM	D	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	09	SIGHT-PROOF LOUVER
108/A	JC	A	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B2/A930	-	03	
109/A	MULTI-PURPOSE	2D	Interior	6'-4"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	05	
109/B	MULTI-PURPOSE	E	Exterior	3'-0"	7'-10"	0'-1 3/4"	ALUM	CLEAR ANODIZED	2	ALUM	GL-1(TOP) INSUL PNL (BOT)	D2/A930	B4/A610	C2/A930	11	
109A/A	CLOSET (MULTI-PURPOSE)	2A	Interior	6'-4"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	03A	
110/A	MAKER SPACE	B	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	-	10	
110/B	MAKER SPACE	A	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	B3/A930	B1/A930	-	10	180 DEG CAPABLE
111/A	COMMUNITY KITCHEN	B	Interior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	GL-3	B3/A930	B1/A930	-	10	
112/A	MECH MEZZ (INT)	A	Exterior	3'-0"	7'-10"	0'-1 3/4"	HM	PTD	1	HM	-	C6/A930	D6/A930	E6/A930	04	

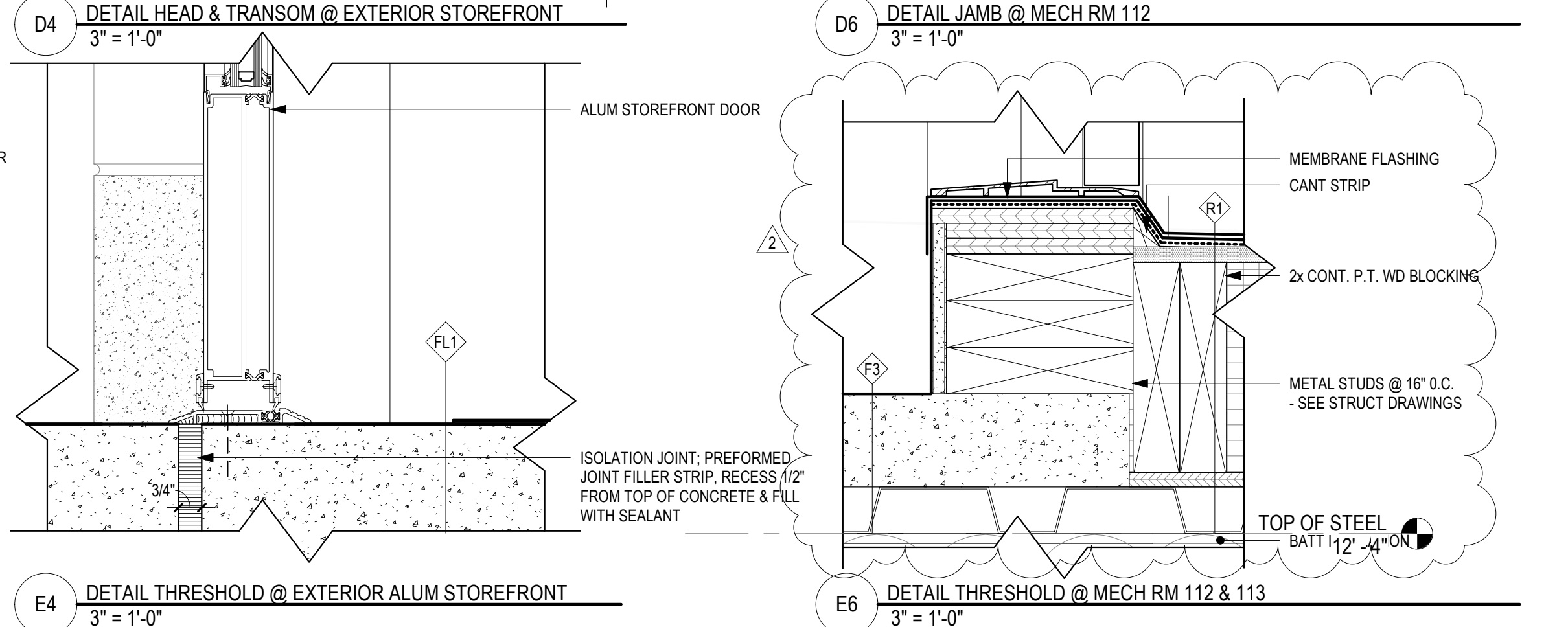
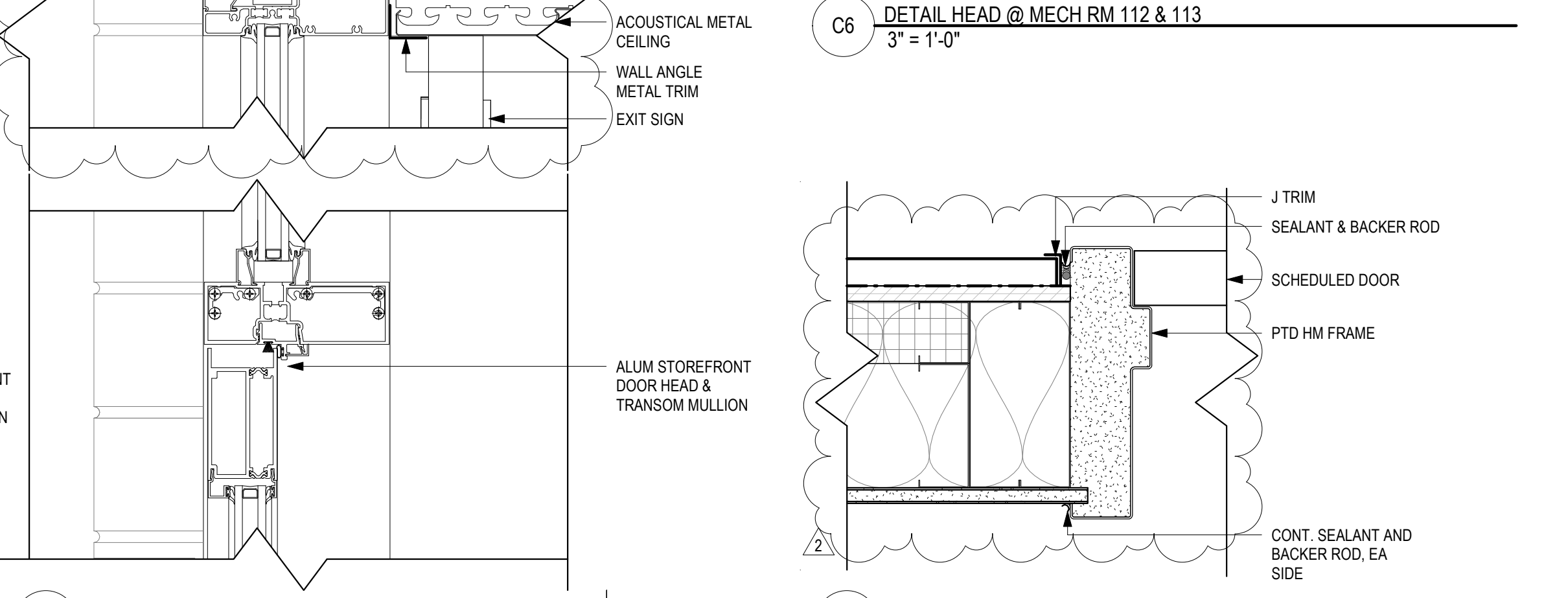
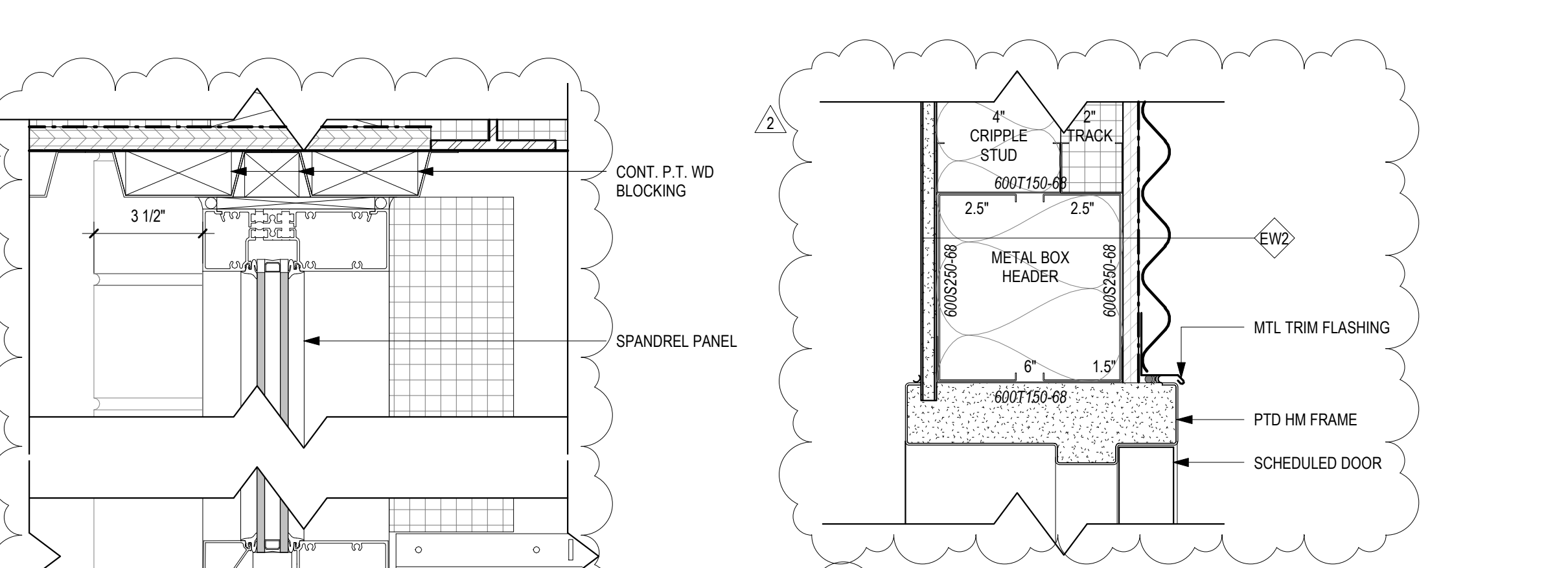


DOOR SCHEDULE / DOOR HARDWARE GENERAL NOTES

- AT EXT DOORS - PROVIDE CONT EXT WEATHERSTRIPPING AND ADA ACCESSIBLE ALUM THRESHOLD
- PROVIDE PANIC HARDWARE AND SURFACE MOUNTED CLOSERS AT ALL EXTERIOR STOREFRONTS
- ALL INT DOOR THRESHOLDS TO BE ADA ACCESSIBLE HEIGHT
- CONTRACTOR TO COORDINATE WITH OWNER'S SECURITY VENDOR FOR ADDITIONAL POWER REQUIREMENTS
- REFER TO ELEC DOCUMENTS FOR ADDITIONAL INFORMATION
- BOTTOM OF GLASS TO BE 43" MAXIMUM ABOVE THE FLOOR.

DOOR HARDWARE SETS

HARDWARE SET 01 - OFFICE WITH LOCK
 HARDWARE SET 02 - KEYED PRIVACY TOILET
 HARDWARE SET 03 - STORAGE CLOSET WITH LOCK
 HARDWARE SET 03A - STORAGE CLOSET DOUBLE DOORS WITH LOCK
 HARDWARE SET 04 - MECHANICAL ROOM DOUBLE DOORS WITH LOCK
 HARDWARE SET 05 - PANIC HARDWARE DOUBLE DOORS
 HARDWARE SET 07 - EXTERIOR PANIC HARDWARE DOUBLE DOORS
 HARDWARE SET 09 - PUSH/PULL SINGLE DOOR, NO LOCKING
 HARDWARE SET 10 - CLASSROOM
 HARDWARE SET 11 - EXTERIOR PANIC HARDWARE, SINGLE DOOR (NO EXT HARDWARE)



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CORSI ASSOCIATES
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 (610) 267-7447 www.corsiassociates.com

REBUILD - VINCENT G. PANATI PLAYGROUND
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST, PHILADELPHIA PA 19132

VERIFY SCALE 1
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

No.	Date	By	Description
1	02/15/2024		BID ADDENDUM 1
2	03/01/2024		BID ADDENDUM 2

Date: 02/09/2024
 Scale: As indicated
 Job No.: 604.2
 Drawn: NB, KN | Appd.: cs

Sheet Title:
DOOR SCHEDULES, TYPES, DETAILS

Sheet No.
A930

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A

B

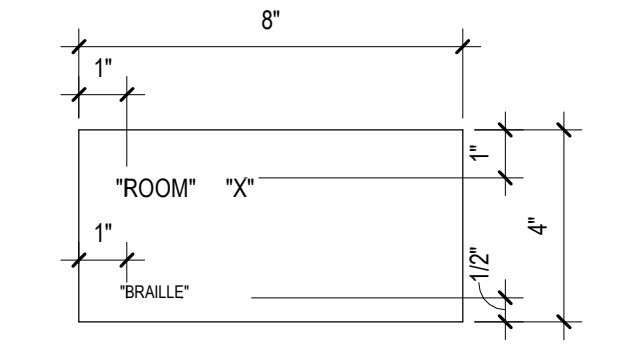
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D

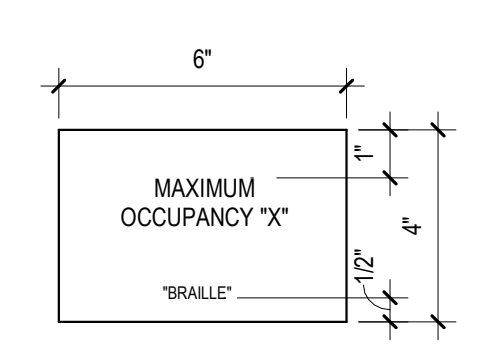
E

GENERAL NOTES

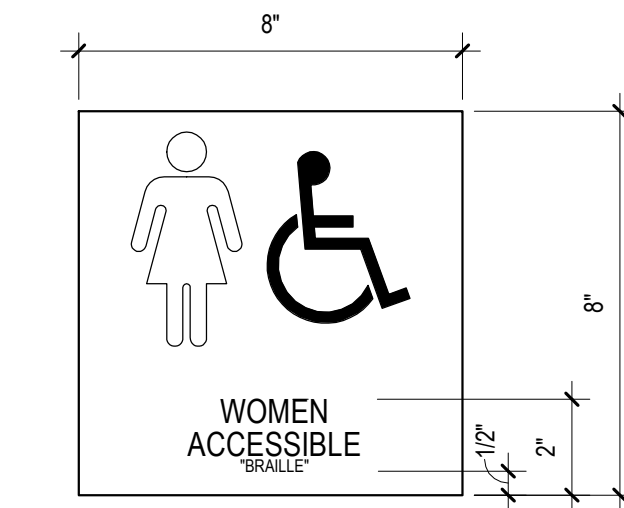
- ALL SIGNAGE CONFORMS TO OR EXCEEDS THE REQUIREMENTS OF:
 - ANSI A117.1 2009, CHAPTER 7
 - INTERNATIONAL BUILDING CODE 2018, CHAPTER 11
 - ADA ACCESSIBILITY GUIDELINES, 4.30 SIGNAGE
- INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGNAGE SHALL BE LOCATED:
 - AT EACH REQUIRED ACCESSIBLE PUBLIC ENTRANCE
 - AT EACH REQUIRED ACCESSIBLE TOILET / BATHING FACILITY
 - AT EACH REQUIRED AREA OF REFUGE
- MOUNT SIGNAGE AT 50" AFF. MEASURED TO THE BOTTOM OF THE BRAILLE UON
- MOUNT SIGNAGE ON THE LATCH SIDE OF DOOR. WHEN THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR THE RIGHT SIDE OF DOUBLE DOORS, SIGNAGE SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
- ALL CHARACTERS TO BE RAISED, MIN 1/32". ALL TEXT AND GRAPHICS TO BE CENTERED HORIZONTALLY IN SIGNAGE UON.
- FONT COLORS AND TACTILE GRAPHIC COLORS SHALL BE SELECTED FROM FULL-RANGE OF MANUFACTURER'S STANDARD RANGE OF COLORS
- FONT: SANS SERIF TYPE, 5/8" - ARIAL FONT UON. CONTRACTOR TO PROVIDE FULL RANGE OF SANS SERIF FONTS TO ARCHITECT / CLIENT FOR FINAL SELECTION.
- ALL BRAILLE SHALL BE GRADE 2 UON
- WHEN SIGNAGE IS MOUNTED TO GLASS, A FLAT BACK PLATE WITH ADHESIVE SHALL BE PROVIDED ON THE OTHER SIDE OF THE GLASS, TYP UON
- CONTRACTOR SHALL CONFIRM ALL SIGNAGE TYPES AND LOCATIONS WITH CLIENT
- PROVIDE MECHANICAL FASTENERS FOR ALL SIGNS



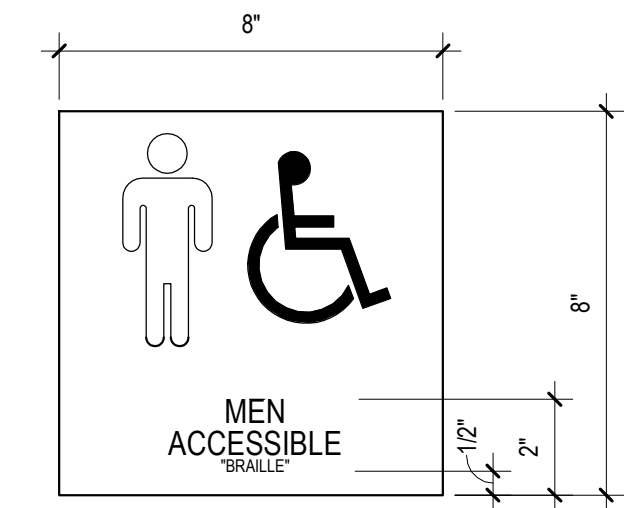
SIGN TYPE 2A
COMMON ROOM DOORS / OFFICE /
MULTI-PURPOSE / COMMUNITY KITCHEN /
MAKERSPACE / GYMNASIUM / STORAGE /
CUSTODIAL



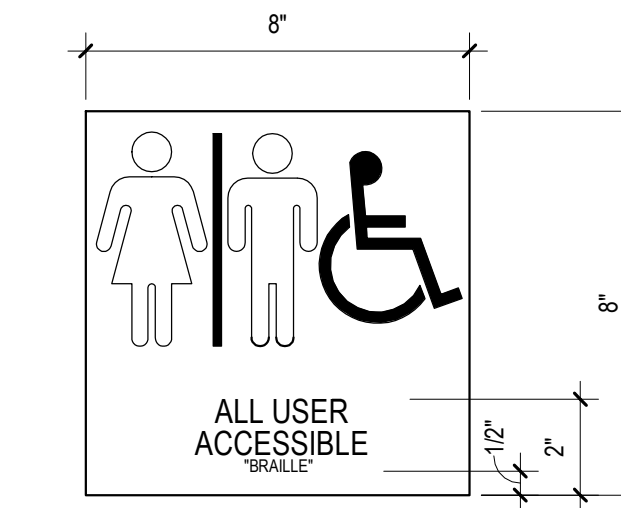
SIGN TYPE 11
ASSEMBLY OCCUPANCY SPACES



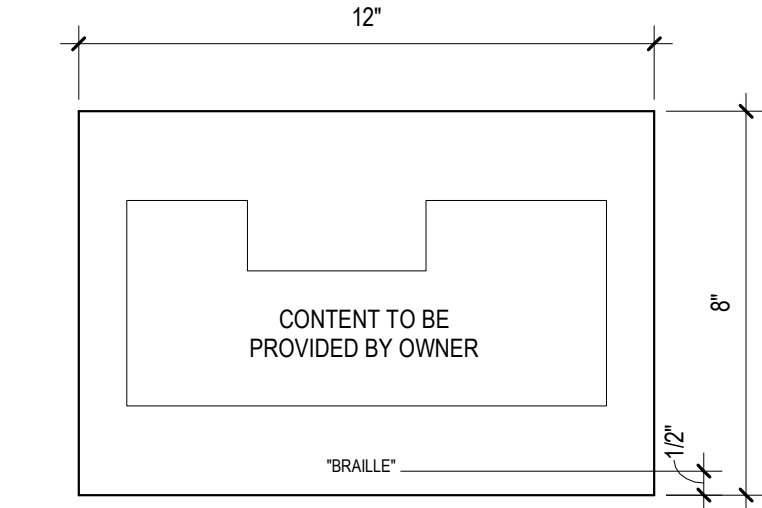
SIGN TYPE 9A
PUBLIC TOILET ROOMS



SIGN TYPE 9B
PUBLIC TOILET ROOMS (ACCESSIBLE)



SIGN TYPE 9C
PUBLIC TOILET ROOMS (ACCESSIBLE)



SIGN TYPE 14
EVACUATION MAP
(LOCATIONS AS REQUIRED BY BUILDING CODE)



SIGN TYPE 16A
EVERY BUILDING ENTRANCE, EXIT

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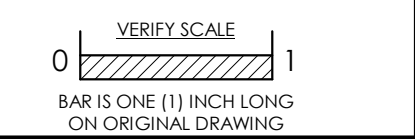
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REBUILD - VINCENT G. PANATI PLAYGROUND
for
PPR/REBUILD PHILADELPHIA
3101-27 N 22ND ST, PHILADELPHIA PA 19132



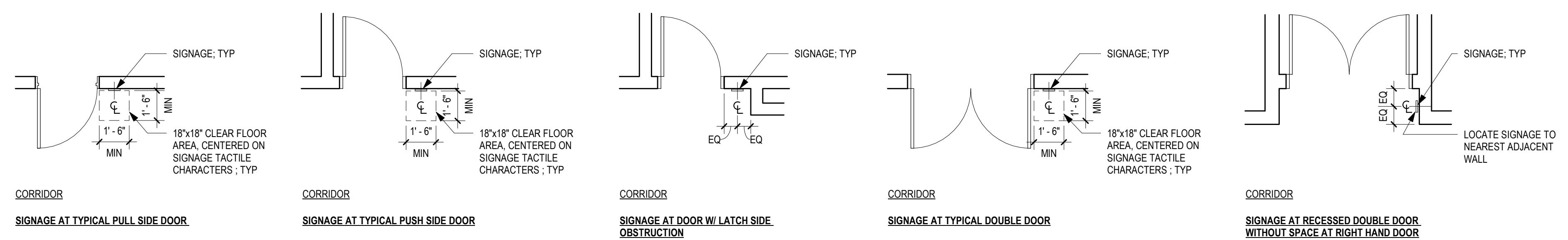
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Date: 02/09/2024
Scale: As indicated
Job No.: 604.2
Drawn: NB, KN | Appd.: cs

Sheet Title:
INTERIOR SIGNAGE TYPES, SCHEDULE

Sheet No.
A940

ADA SIGNAGE - SIGN TYPES
3" = 1'-0"



ADA SIGNAGE - LOCATION DIAGRAMS
1/4" = 1'-0"

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REBUILD - VINCENT G. PANATI
for
PLAYGROUND
PPR/REBUILD PHILADELPHIA
3101-27 N 22ND ST., PHILADELPHIA, PA 19132

VERIFY SCALE
0 1
BAR IS ONE (1) INCH LONG
ON ORIGINAL DRAWING

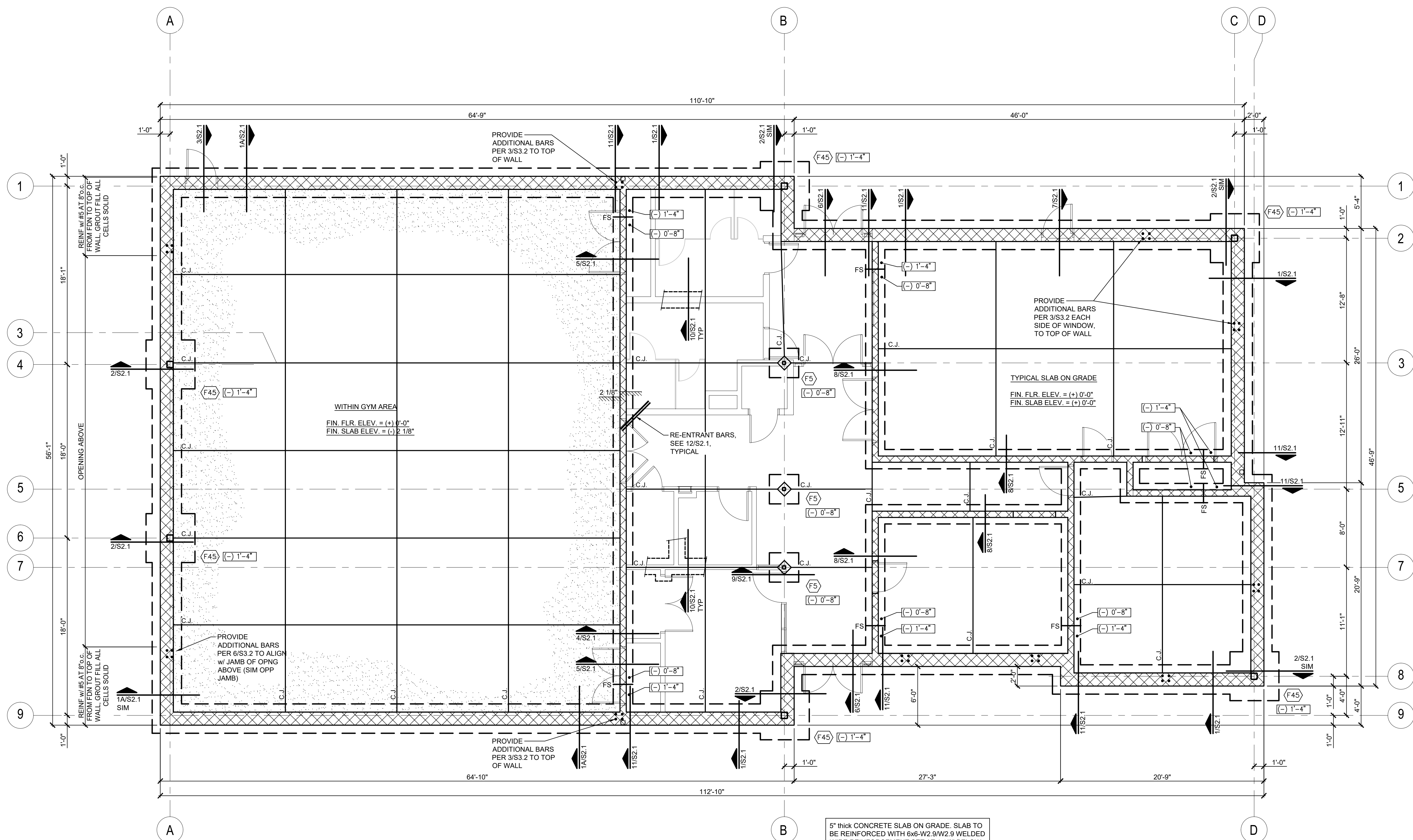
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Date: 02/09/2024
Scale: NOTED
Job No. 725002
Drawn: PMG Appd.: PMG

Sheet Title:

FOUNDATION PLAN

Sheet No.



5" thick CONCRETE SLAB ON GRADE. SLAB TO BE REINFORCED WITH 6x6-W2.9/W2.9 WELDED WIRE REINFORCEMENT SET AT 1 1/2" BELOW TOP OF SLAB AND FIBERMESH. ARCHITECT TO INDICATE VAPOR RETARDER REQUIREMENTS. STONE SUBGRADE BENEATH SLAB PER RECOMMENDATIONS OF GEOTECHNICAL REPORT.

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

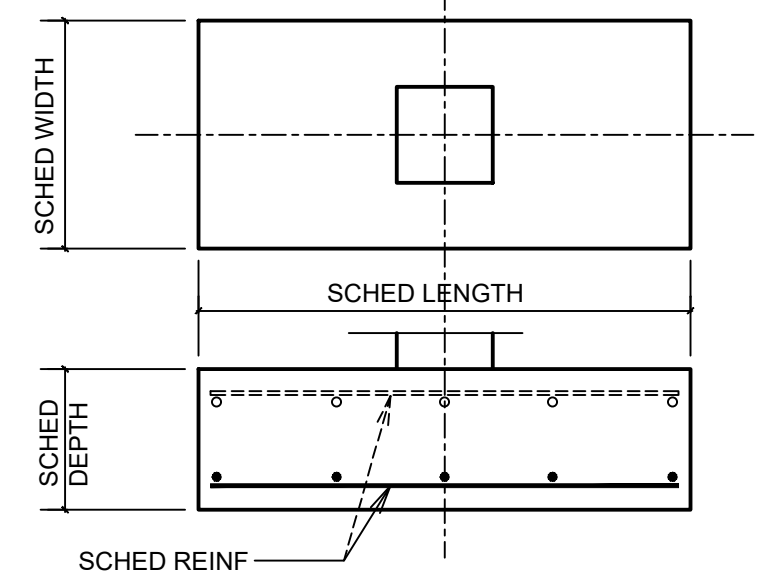


- DIMENSIONS AND ELEVATIONS ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- WALLS AS SHOWN ON PLAN:
WALLS ASSOCIATED TO PLAN:
- BOTTOM OF PERIMETER WALL FOOTINGS AND EXTERIOR COLUMN FOOTINGS TO BE (-) 3'-0" (MIN.) FROM FINISHED ADJACENT EXTERIOR GRADE, U.N.O. (-) 1'-4" (EXAMPLE) REFERS TO TOP OF FOOTING MEASURED FROM REFERENCE FINISH FLOOR ELEVATION 0'-0". ADJUST IF REQ'D TO OBTAIN MIN FROST DEPTH INDICATED AS REQUIRED BY SITE GRADING CONDITIONS.
- CONTRACTOR SHALL COORDINATE ALL VENDOR REQUIREMENTS FOR SPECIALIZED EQUIPMENT WITH STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- SEE SHEET S4.1 FOR GENERAL NOTES.
- PROVIDE (2) #4 x 4'-0" LONG REINFORCING BARS AT ALL RE-ENTRANT SLAB CORNERS. SEE DETAIL 12/S2.1.
- AT ALL LOCATIONS WHERE PIPING RUNS THROUGH FOUNDATION WALLS, DEEPEN FOOTINGS AS REQUIRED TO ALLOW 6" (MIN) CLEARANCE BETWEEN PIPE AND TOP OF FOOTING. SLEEVE PIPE. SEE DETAIL 2/S2.2.

- CONTRACTOR SHALL SUBMIT LAY-OUT FOR SLAB ON GRADE CONSTRUCTION AND CONTRACTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE. SEE DETAIL 1/S2.2.
- SEE ARCH. DWGS. FOR DEPRESSED SLAB LOCATIONS AND DEPTHS.
- FS REFERS TO FOOTING STEP. SEE 11/S2.1.
- SEE LINTEL PLAN S1.4 FOR VERTICAL CMU MASONRY JOINT LOCATIONS. SEE ARCH FOR BRICK VENEER JOINTS
- SEE 3/S3.2, 6/S3.2, AND 7/S3.2 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS
- SEE 4/S2.2 FOR SLAB AT COLUMNS

FOOTING SCHEDULE

FOOTING MARK	DIMENSIONS LxWxTHK	REINFORCING
F45	4'-6" x 4'-6" x 30"	(6) #6 EACH WAY TOP & BOTT
F5	5'-0" x 5'-0" x 18"	(6) #6 EACH WAY BOTT



NOTE: ARCHITECTURAL PLAN, CIVIL AND MEP BACKGROUND INFORMATION IS SHOWN FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL VERIFY ALL BACKGROUND DIMENSIONS, BUILDING COMPONENTS AND CONDITIONS, WITH THE FINAL SET OF ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION

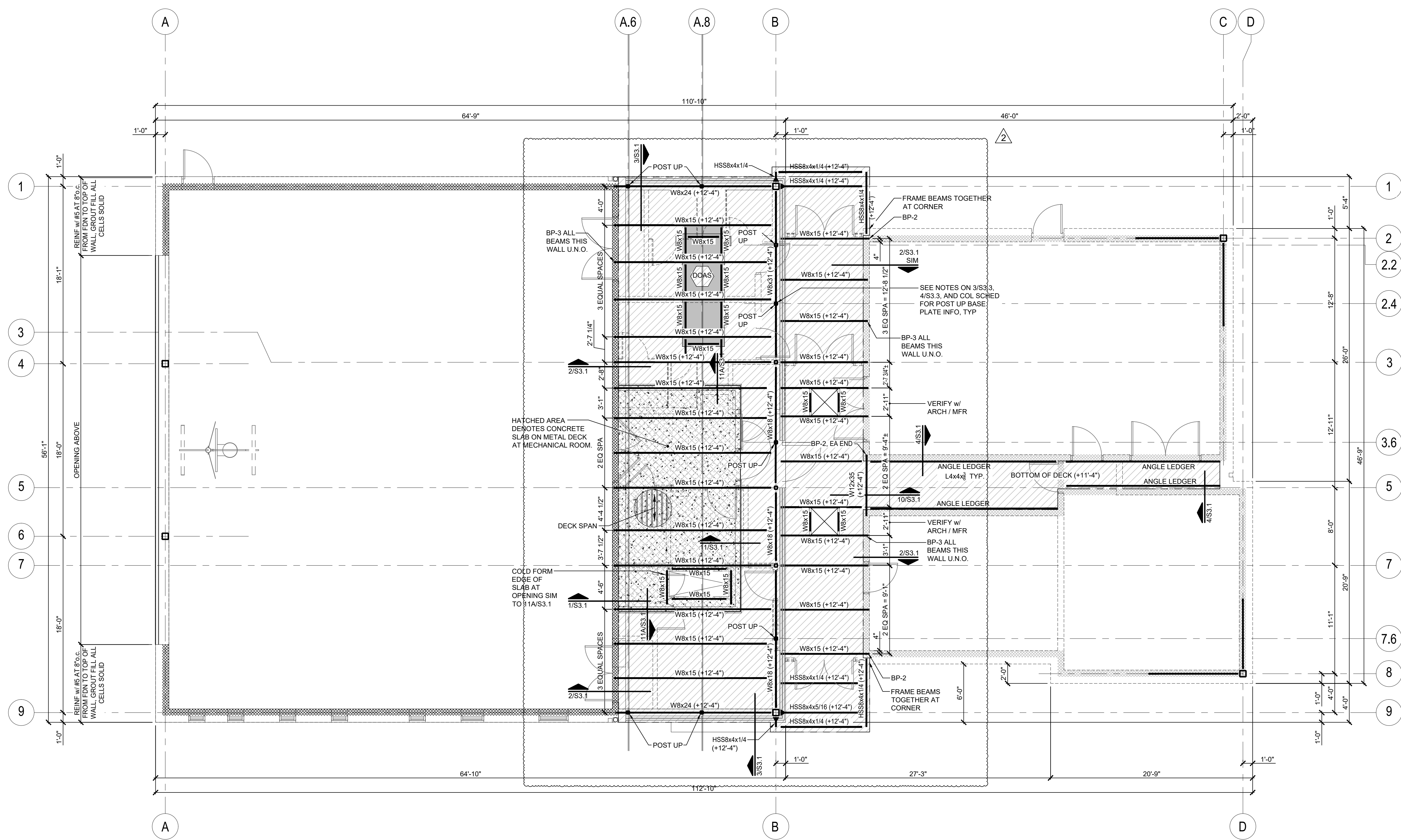
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S1.1



REBUILD - VINCENT G. PANATI PLAYGROUND
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST., PHILADELPHIA, PA 19132

VERIFY SCALE
 0 1
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING



MEZZANINE & LOW ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

- DIMENSIONS AND ELEVATIONS ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- JOIST QUANTITIES AND LAYOUT REPRESENT DESIGN INTENT ONLY. ACTUAL QUANTITIES, SPACING AND LAYOUT MUST BE FIELD VERIFIED WITH ACTUAL CONDITIONS AND DIMENSIONS AND ADJUSTED AS NECESSARY.
- WALLS AS SHOWN ON PLAN:
 WALLS ASSOCIATED TO PLAN:
 WALLS OF PLAN BELOW:
- TOP OF STEEL ELEVATIONS VARY. TOP OF STEEL = BOTTOM OF METAL DECK.
- AT MECHANICAL MEZZANINE, TOP OF STEEL ELEV. AT (+) 12'-4" FROM FIN. FIRST FLOOR.
- AT LOBBY ROOF, TOP OF STEEL ELEV. AT (+) 12'-4" FROM FIN. FIRST FLOOR.
- AT MAKER SPACE HALL, TOP OF STEEL ELEV. AT (+) 11'-4" FROM FIN. FIRST FLOOR.
- METAL DECK AT MEZZANINE AND LOW ROOFS TO BE 1 1/2" x 20 ga. INVERTED 'B' WIDE RIB ROOF DECK. SEE GENERAL NOTES.

- CONCRETE SLAB AT INTERIOR MECHANICAL MEZZANINE TO BE 4" THICK (OVERALL) NORMAL WEIGHT CONCRETE ON THE INVERTED 'B' DECK. COLD FORM ALL EDGES OF SLAB AT MECHANICAL MEZZANINE.
- CONTRACTOR SHALL COORDINATE ALL VENDOR REQUIREMENTS FOR SPECIALIZED EQUIPMENT WITH STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- SEE SHEET S4.1 FOR GENERAL NOTES.
- CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS WITH MECHANICAL DRAWINGS. OPENINGS LARGER THAN 12" DIAMETER OR SQUARE MUST BE SUPPORTED ON AN ANGLE FRAME. SEE DETAIL 2/S3.2
- SEE LOOSE LINTEL SCHEDULE ON DRAWING S3.3 FOR MASONRY OPENING LITELS NOT LABELED ON PLAN.
- CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS WITH MECHANICAL DRAWINGS. OPENINGS LARGER THAN 12" DIAMETER OR SQUARE MUST BE SUPPORTED ON AN ANGLE FRAME. SEE DETAIL 2/S3.2
- SEE LOOSE LINTEL SCHEDULE ON DRAWING S3.3 FOR MASONRY OPENING LITELS NOT LABELED ON PLAN.
- MAXIMUM BEAM SPACING NOT TO EXCEED 5'-6" o.c. UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE.
- DENOTES MOMENT CONNECTION. SEE PLAN MARK.
- BP-1 (EXAMPLE) DENOTES BEARING PLATE. SEE SCHEDULE 2/S3.3.
- SEE LINTEL PLAN S1.4 FOR VERTICAL CMU MASONRY JOINT LOCATIONS. SEE ARCH FOR BRICK VENEER JOINTS
- INDICATES ROOF DECK TO BE 1 1/2" x 20ga. TYPE B WIDE RIB ROOF DECK. SEE GENERAL NOTES.
- INDICATES ROOF DECK TO BE INVERTED 1 1/2" x 20ga. TYPE B WIDE RIB ROOF DECK. SEE GENERAL NOTES.

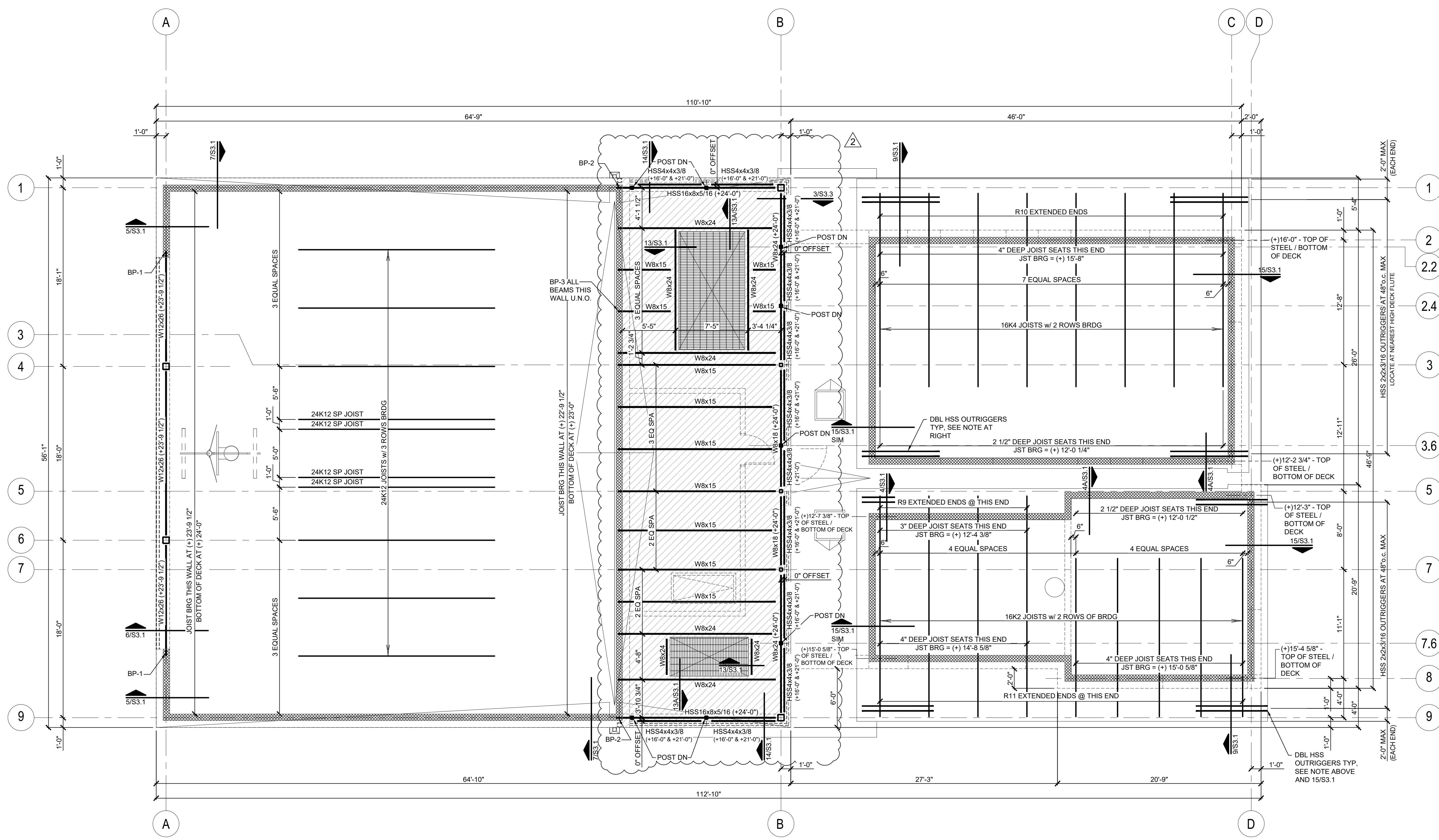
NOTE: ARCHITECTURAL PLAN, CIVIL AND MEP BACKGROUND INFORMATION IS SHOWN FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL VERIFY ALL BACKGROUND DIMENSIONS, BUILDING COMPONENTS AND CONDITIONS WITH THE FINAL SET OF ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION

No.	Date	Description
1	03/01/2024	ADDENDUM #2
Date		02/09/2024
Scale:		NOTED
Job No.		725002
Drawn:		PMG
Appd.:		PMG
Sheet Title:		
MEZZANINE & LOW ROOF FRAMING PLAN		
Sheet No.		

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VERIFY SCALE
 1" = 1'-0"
 BAR IS ONE (1) INCH LONG
 ON ORIGINAL DRAWING

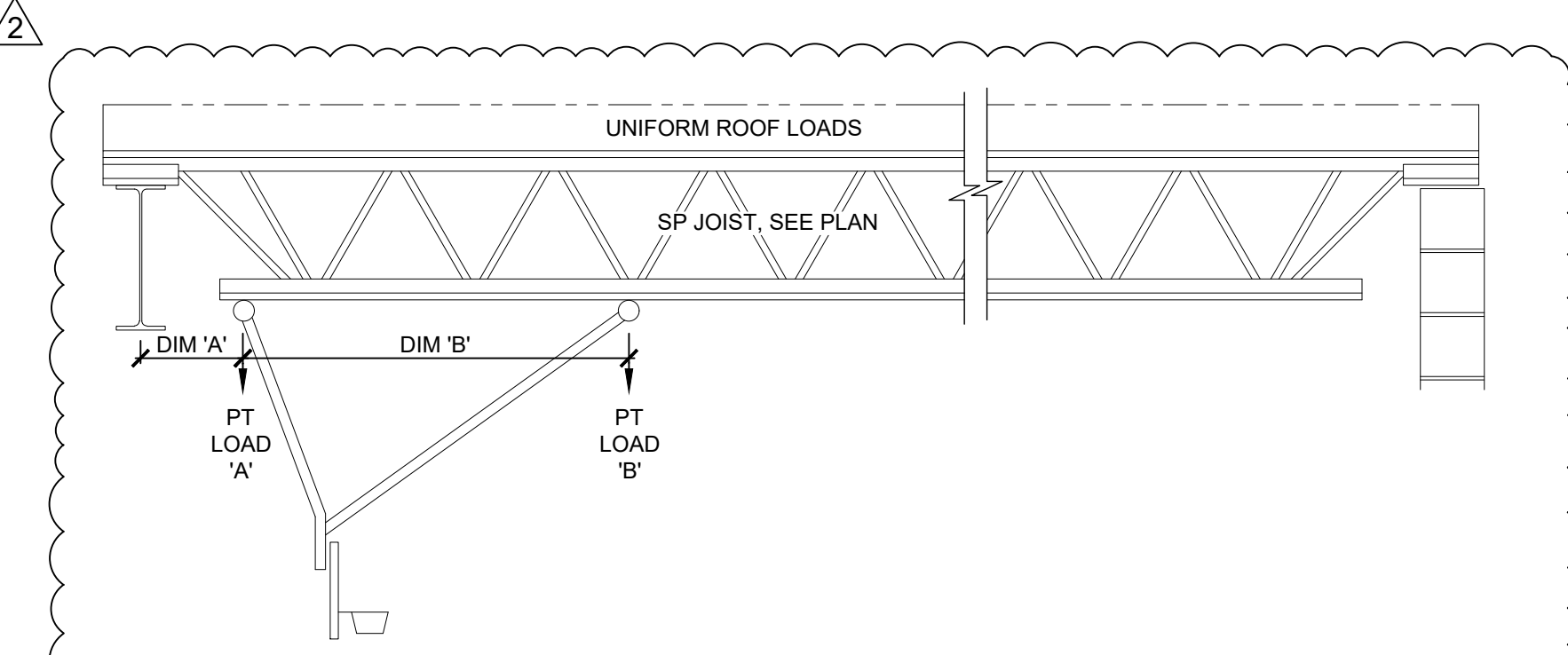


HIGH ROOF FRAMING PLAN
 SCALE: 3/16" = 1'-0"

- DIMENSIONS AND ELEVATIONS ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH ARCHITECTURAL DRAWINGS ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- JOIST QUANTITIES AND LAYOUT REPRESENT DESIGN INTENT ONLY. ACTUAL QUANTITIES, SPACING AND LAYOUT MUST BE FIELD VERIFIED WITH ACTUAL CONDITIONS AND DIMENSIONS AND ADJUSTED AS NECESSARY.
- WALLS AS SHOWN ON PLAN:
 WALLS ASSOCIATED TO PLAN:
 WALLS OF PLAN BELOW:
- MAXIMUM JOIST SPACING NOT TO EXCEED 8'-0" c.c. UNLESS NOTED OR SHOWN OTHERWISE ON PLAN.
- SEE SECTIONS FOR TOP OF STEEL ELEVATIONS, UNLESS NOTED ON PLAN.
- CONTRACTOR SHALL COORDINATE ALL VENDOR REQUIREMENTS FOR SPECIALIZED EQUIPMENT WITH STRUCTURAL ENGINEER PRIOR TO PLACING ROOF DECK.
- SEE SHEET S4.1 FOR GENERAL NOTES.
- CONTRACTOR SHALL COORDINATE ALL SLAB OPENINGS WITH MECHANICAL DRAWINGS. OPENINGS LARGER THAN 12" DIAMETER OR SQUARE MUST BE SUPPORTED ON AN ANGLE FRAME. SEE DETAIL 2/S3.2.
- ROOF DECK OVER GYM, MULTI-PURPOSE ROOM, AND MAKER SPACE TO BE 2" X 20 GA VERSA-DEK 2.0 S ES ACOUSTICAL ROOF DECK. SEE GENERAL NOTES.

- INDICATES ROOF DECK TO BE 1 1/2" x 20ga. TYPE B WIDE RIB ROOF DECK. SEE GENERAL NOTES.
- SEE LOOSE LINTEL SCHEDULE 1/S3.3 FOR MASONRY OPENING LITELS NOT LABELED ON PLAN.
- BP-1 (EXAMPLE) DENOTES BEARING PLATE, SEE SCHEDULE 2/S3.3.
- COORD. FINAL DIMENSIONS AND LOCATIONS w/ RTU EQUIPMENT PURCHASED.
- TOP OF STEEL ELEV LISTED ON PLAN ARE ABOVE FIN. FIRST FLOOR.
- PROVIDE BRIDGING FOR JOISTS AS REQUIRED BY THE STEEL JOIST INSTITUTE (SJI).
- TOP OF ROOF STEEL AND UNDERSIDE OF ROOF DECK ELEVATIONS VARY. SEE PLAN AND SECTIONS.
- DENOTES MOMENT CONNECTION. SEE PLAN MARK, COORD. w/ CONNECTION NOTE BELOW.

NOTE: ARCHITECTURAL PLAN, CIVIL AND MEP BACKGROUND INFORMATION IS SHOWN FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL VERIFY ALL BACKGROUND DIMENSIONS, BUILDING COMPONENTS AND CONDITIONS WITH THE FINAL SET OF ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION



JOIST DESIGNATION	UNIFORM ROOF LOADS			POINT LOADS (DL)		DIMENSIONS	
	DEAD LOAD	RF LIVE LOAD	SNOW LOAD	PT LOAD 'A'	PT LOAD 'B'	DIM 'A'	DIM 'B'
24K12 SP	27 PSF	20 PSF	25 PSF	500 LBS	400 LBS	1.75'	8.3'

NOTES TO SPECIAL JOIST LOADING
 1. CALCULATE UNIFORM LOADS BASED ON JOIST SPACING/TRIBUTARY WIDTH.
 2. SEE PLAN FOR JOIST SPAN AND SPACING.
 3. 'PSF' DENOTES 'POUNDS PER SQUARE FOOT.'

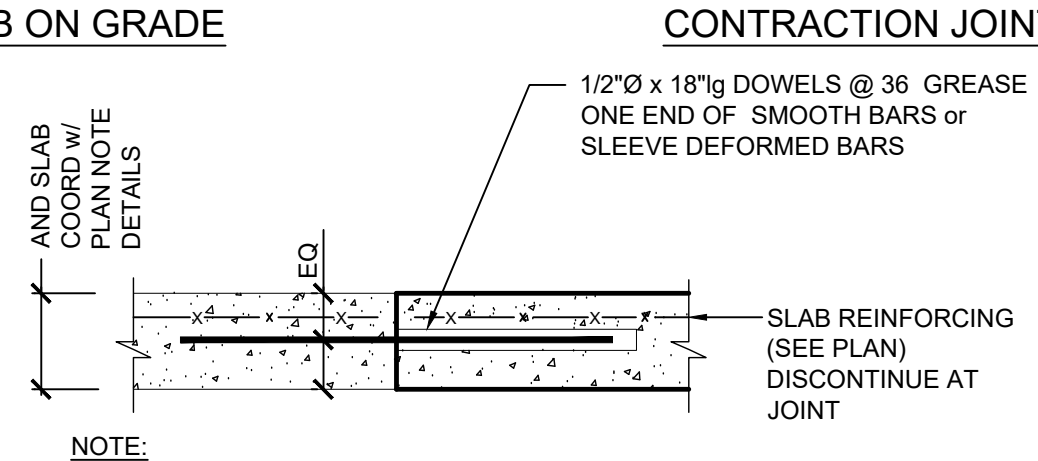
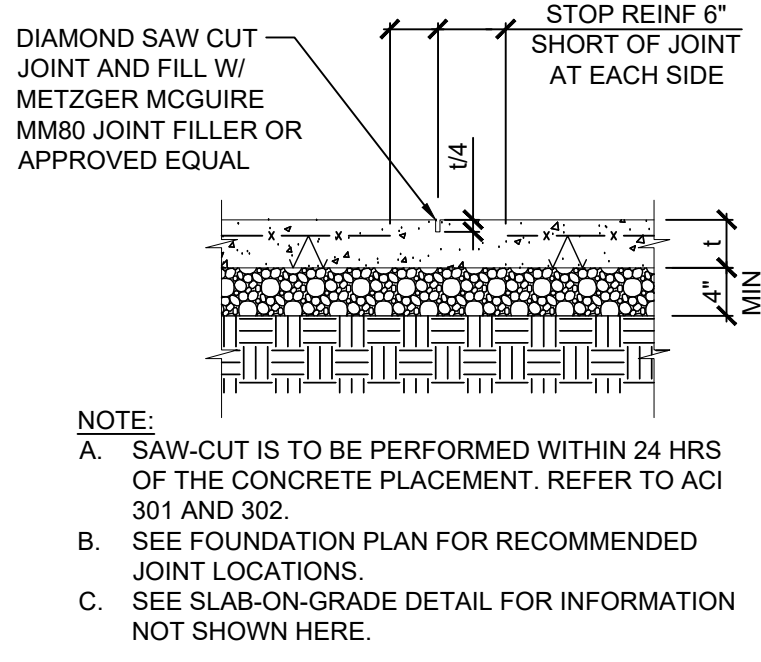
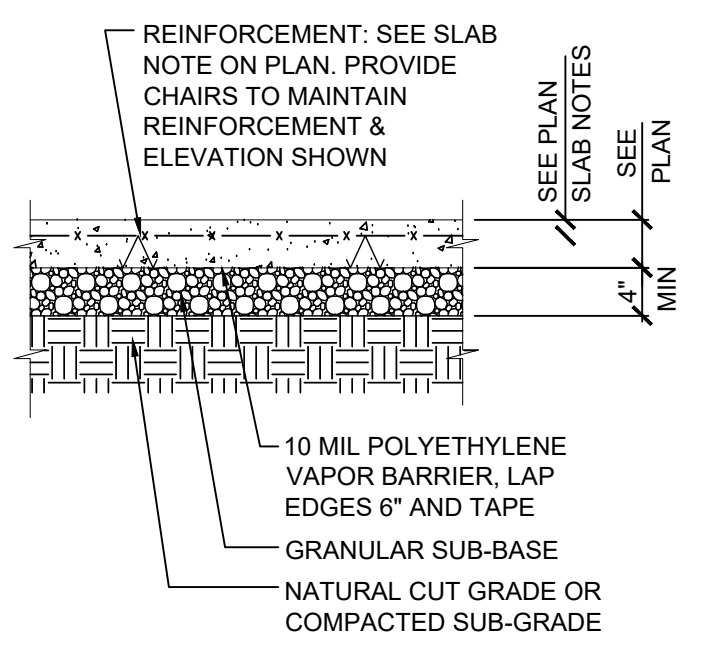
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No.	Date	Description
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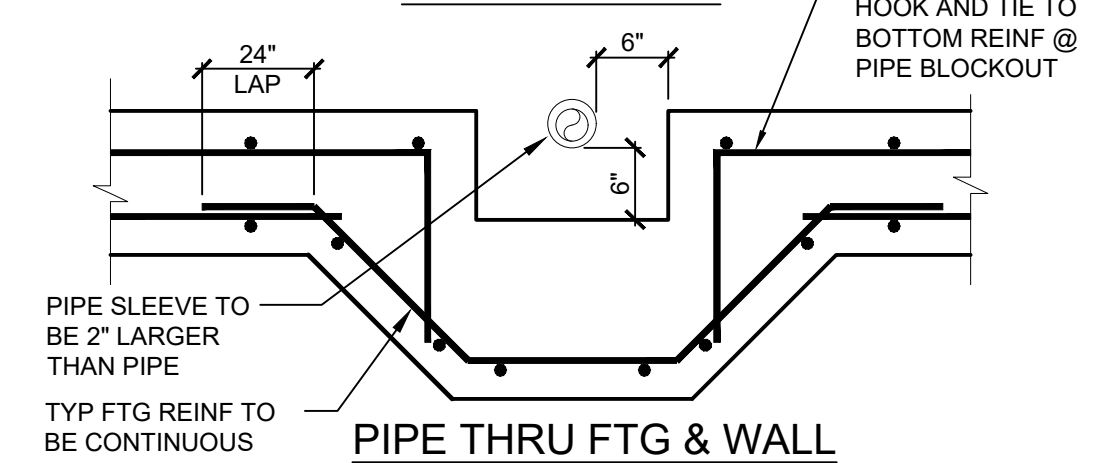
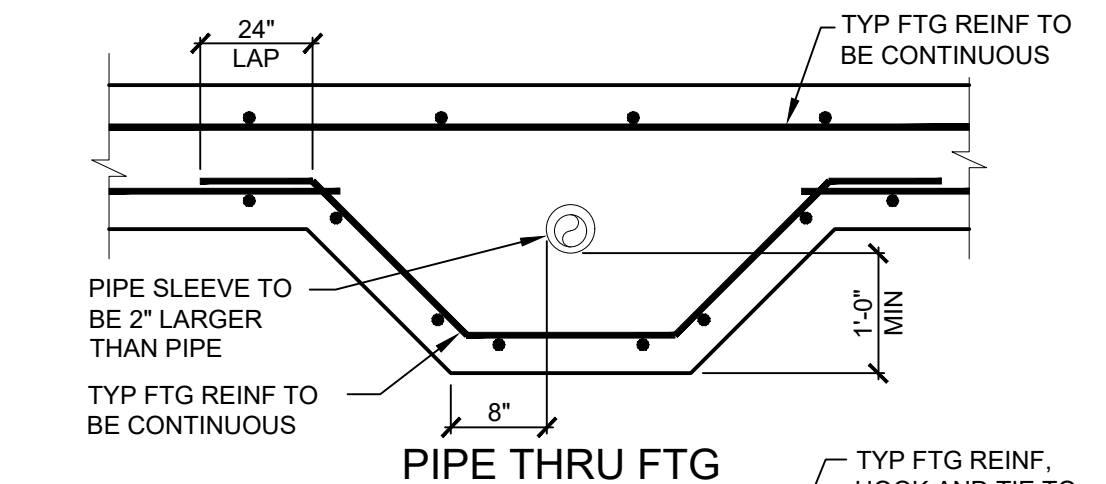
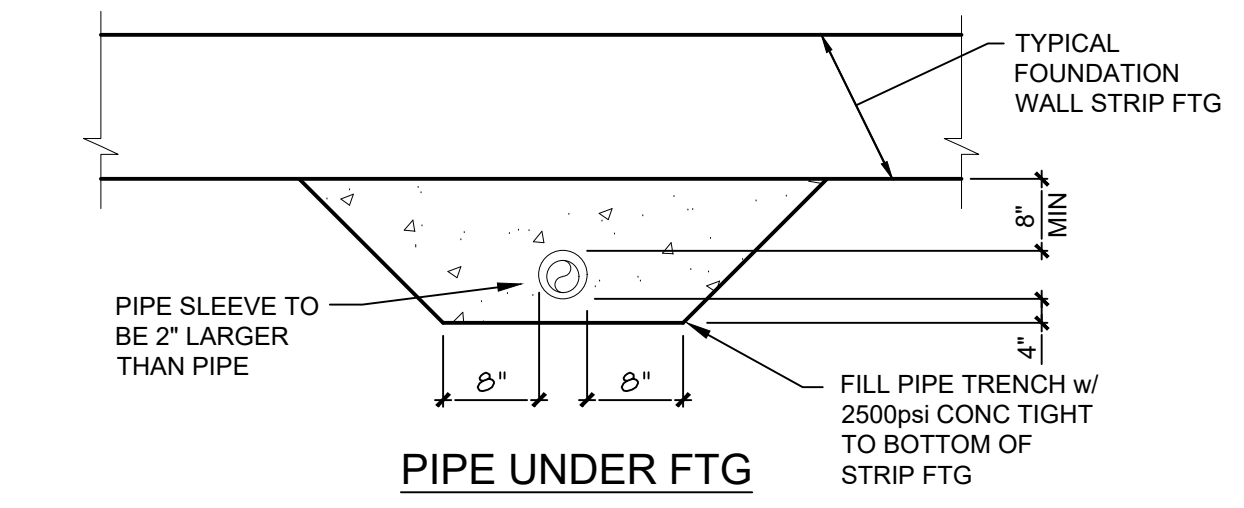
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Sheet Title:
HIGH ROOF FRAMING PLAN

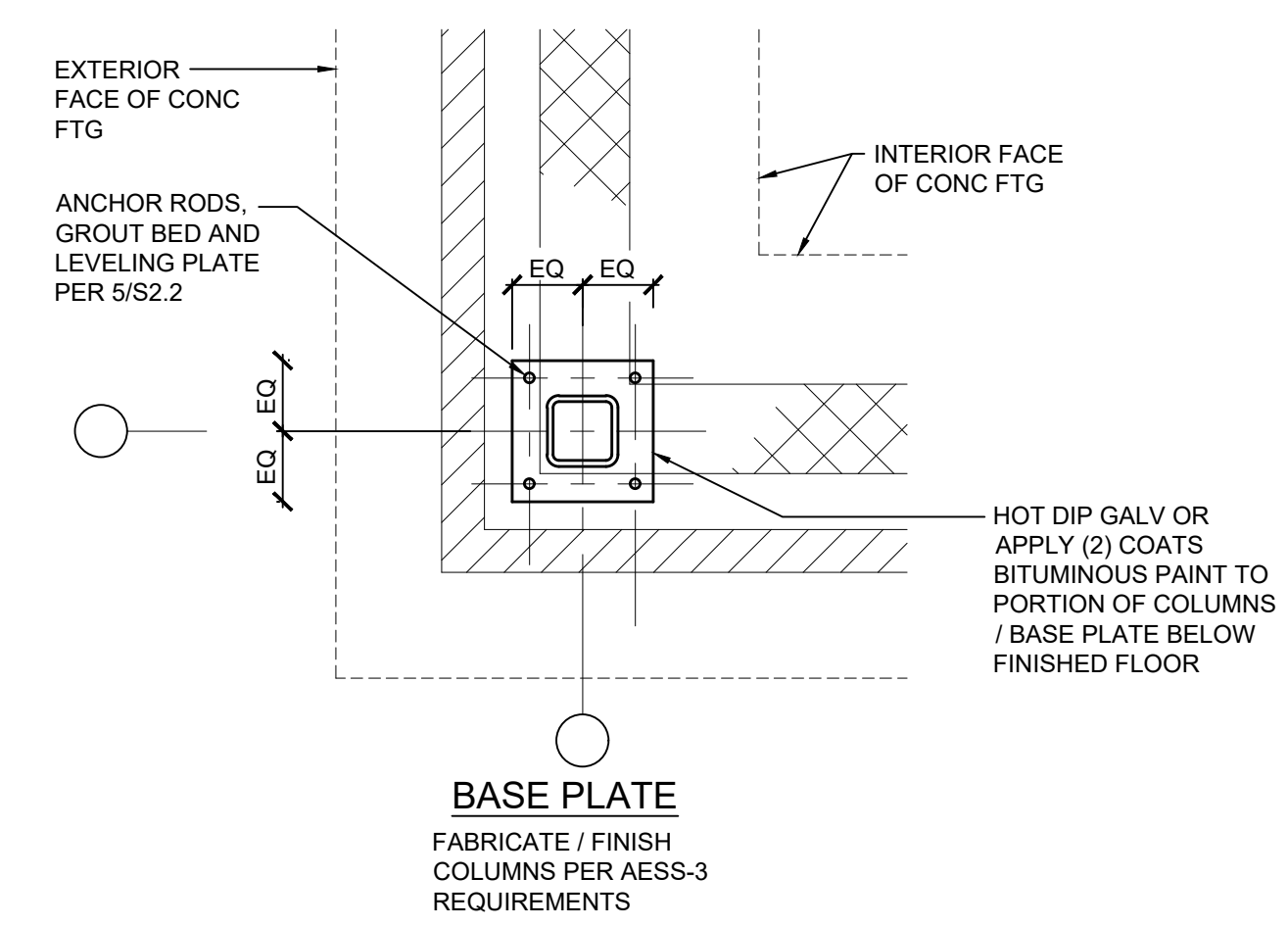
Sheet No.: **S1.3**



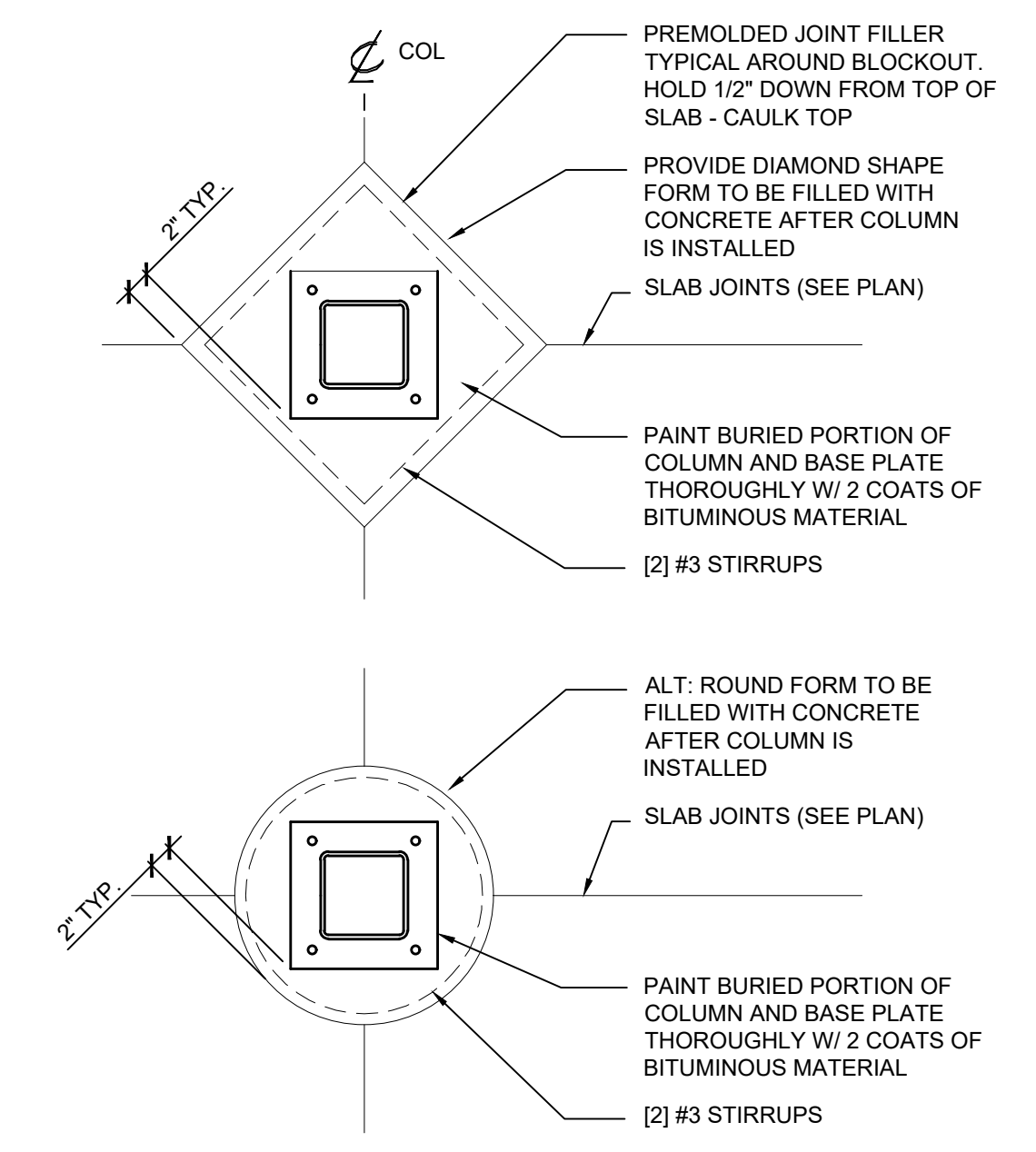
1 SLAB DETAILS
S2.2 SCALE: 3/4"=1'-0"



2 FOUNDATION CONDUIT AND PLUMBING CONDITIONS
S2.2 SCALE: 3/4"=1'-0"

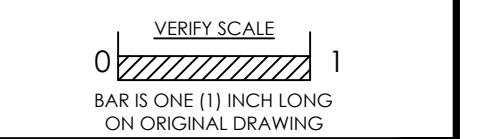
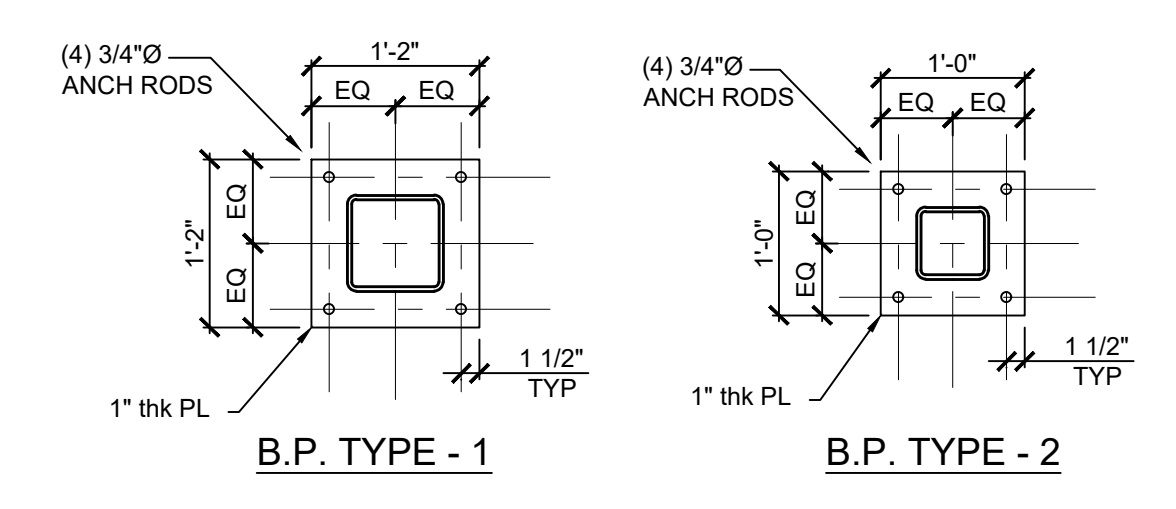


3 PLAN VIEW
S2.2 SCALE: 3/4"=1'-0"



4 ISOLATION JOINT DETAILS
S2.2 SCALE: 3/4"=1'-0"

COLUMN SCHEDULE							
COLUMN MARK	A/4, A/6	B/1, B/9	B/3, B/5, B/7	C/2	D/8	A.6/1, A.8/1 A.6/9, A.8/9	B/2.2, B/2.4, B/3.6, B/7.6
T.O. COLUMN (+)24'-0"							
T.O. COLUMN (+)23'-9 1/2"							
B.O. COLUMN (+)13'-0"							
B.O. COLUMN (+)12'-4" (MEZZ)							
T.O. COLUMN (+)8'-0"	HSS 8x8x1/4	HSS 8x8x1/4	HSS 8x8x1/4		HSS 8x8x1/4	SEE 4/S3.3	SEE 4/S3.3
FINISH FLOOR (+)0'-0"							
T.O. FDN (-)0'-8"							
T.O. FDN (-)1'-4"							
BASE PLATE	14"	14"	12"	14"	14"	10"	10"
B	14"	14"	12"	14"	14"	8"	8"
N	1"	1"	1"	1"	1"	3/4"	3/4"
THK							
BASE PLATE TYPE	TYPE 1	TYPE 1	TYPE 2	TYPE 1	TYPE 1		
ANCHOR BOLTS	(4) 3/4" DIA F1554-55 RODS	(4) 3/4" DIA F1554-55 RODS	(4) 3/4" DIA F1554-55 RODS	(4) 3/4" DIA F1554-55 RODS	(4) 3/4" DIA F1554-55 RODS		



No.	Date	By	Description

Date 02/09/2024
Scale: NOTED
Job No. 725002
Drawn: PMG Appd.: PMG

Sheet Title:
FOUNDATION DETAILS

Sheet No.

NOT FOR CONSTRUCTION

S2.2

G:\Projects\700-799 - Municipal\725 - Rebuild Philadelphia\725002 - Revised 11222023.dwg Feb 01, 2024 - 4:42pm

GENERAL NOTES																					
1.	THE WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (PA UCC), BASED UPON THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" ASCE 7-10.																				
2.	CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHEETING, AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION HIRED BY THE CONTRACTOR WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.																				
3.	THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS: <table border="1" style="margin-left: 20px;"> <tr> <td>SNOW LOAD DESIGN DATA</td> <td></td> </tr> <tr> <td>GROUND REACTION LOAD - P_g</td> <td>25 PSF</td> </tr> <tr> <td>FLAT ROOF SNOW LOAD - P_f</td> <td>25 PSF + DRIFT</td> </tr> <tr> <td>SNOW EXPOSURE FACTOR - C_e</td> <td>1.0</td> </tr> <tr> <td>SNOW LOAD IMPORTANCE FACTOR - I_s</td> <td>1.0</td> </tr> <tr> <td>THERMAL FACTOR - C_t</td> <td>1.0</td> </tr> <tr> <td>DRIFT SURCHARGE LOAD - N-S</td> <td>44 PSF</td> </tr> <tr> <td>DRIFT WIDTH - N-S</td> <td>8.0 FT</td> </tr> <tr> <td>DRIFT SURCHARGE LOAD - E-W</td> <td>44 PSF</td> </tr> <tr> <td>DRIFT WIDTH - E-W</td> <td>5.0 FT</td> </tr> </table>	SNOW LOAD DESIGN DATA		GROUND REACTION LOAD - P _g	25 PSF	FLAT ROOF SNOW LOAD - P _f	25 PSF + DRIFT	SNOW EXPOSURE FACTOR - C _e	1.0	SNOW LOAD IMPORTANCE FACTOR - I _s	1.0	THERMAL FACTOR - C _t	1.0	DRIFT SURCHARGE LOAD - N-S	44 PSF	DRIFT WIDTH - N-S	8.0 FT	DRIFT SURCHARGE LOAD - E-W	44 PSF	DRIFT WIDTH - E-W	5.0 FT
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DRIFT SURCHARGE LOAD - E-W	44 PSF																				
DRIFT WIDTH - E-W	5.0 FT																				
	WIND DESIGN DATA																				
BASIC WIND SPEED - V _{ult}	112 MPH																				
BASIC WIND SPEED - V _{asd}	87 MPH																				
RISK CATEGORY	II																				
WIND EXPOSURE	B																				
INTERNAL PRESSURE COEFFICIENT, C _{pi}	±0.18																				
COMPONENTS / CLADDING WIND PRESSURE	42 PSF																				
	EARTHQUAKE DESIGN DATA																				
SEISMIC IMPORTANCE FACTOR - I _e	1.00																				
MAPPED SPECTRAL RESPONSE ACCEL., S _s	0.152																				
MAPPED SPECTRAL RESPONSE ACCEL., S ₁	0.07																				
SITE CLASS	"D"																				
SPECTRAL RESPONSE COEFFICIENT, S _{DS}	0.194																				
SPECTRAL RESPONSE COEFFICIENT, S _{D1}	0.076																				
SEISMIC DESIGN CATEGORY	"B"																				
BASIC SEISMIC FORCE RESISTING SYSTEMS																					
"ORDINARY REINFORCED MASONRY SHEAR WALLS"																					
RESPONSE MODIFICATION FACTORS, R	2.0																				
ANALYSIS PROCEDURE - EQUIV. LATERAL FORCE PROCEDURE																					
	FLOOR LIVE LOADS																				
MECHANICAL ROOMS	100 PSF																				
- UNIT WEIGHTS ADDED AS REQUIRED																					
SLAB ON GRADE	100 PSF																				

FOUNDATION NOTES	
1.	THE FOUNDATIONS HAVE BEEN DESIGNED TO REST ON INORGANIC, UNDISTURBED SOIL, HAVING AN ALLOWABLE BEARING VALUE OF 2,000 PSF. SUCH BEARING STRATA IS ANTICIPATED AT THE BOTTOM OF FOOTING ELEVATIONS NOTED ON THE FOUNDATION PLAN. ALL BEARING STRATA SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO THE PLACING OF CONCRETE IN ORDER TO VERIFY THE BEARING VALUE. THE BEARING VALUE SHOULD BE VERIFIED TO A DEPTH OF 3 TO 4 FEET BELOW BEARING ELEVATION TO ENSURE THE BEARING MATERIALS COMPLY WITH THE BORING LOGS AND DESIGN CRITERIA.
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING FLOWS TO MINIMIZE SHRINKAGE CRACKING. IN GENERAL, WALLS SHALL NOT BE POURED IN CONTINUOUS LENGTHS EXCEEDING 40 FEET. THE LOCATION AND CONFIGURATION OF JOINTS EXPOSED TO VIEW SHALL BE COORDINATED WITH THE ARCHITECT.
3.	EXCAVATIONS FOR SPREAD AND CONTINUOUS FOOTINGS SHALL BE CLEANED AND HAND TAMPED TO A UNIFORM SURFACE. CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF EXCAVATION OF THE FOOTING BEARING SURFACE. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL REQUIRED INSPECTIONS, OBSERVATIONS AND TESTING COMPLETED WITHIN THAT TIMEFRAME.
4.	STEP FOOTINGS WHERE ELEVATIONS CHANGE AT A MAXIMUM SLOPE OF ONE VERTICAL ON TWO HORIZONTAL, CONTRACTOR SHALL PLACE LOWER FOOTING FIRST.
5.	ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND THAWING DURING THE COURSE OF CONSTRUCTION.
6.	THE BOTTOM OF EXTERIOR FOOTINGS NOT ON SOLID ROCK SHALL BE AT MINIMUM 3'-0" BELOW GRADE.
7.	THE INSPECTION AND TESTING OF ALL SUBGRADE AND COMPACTED EARTHWORK SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE OWNERS GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND STRUCTURAL ENGINEER TWENTY-FOUR HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS. IF UNSUITABLE SUBGRADE SOILS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS PREPARED BY A LICENSED GEOTECHNICAL CONSULTANT TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
8.	THE SLAB-ON-GRADE SUB-BASE SHALL BE A CRUSHER RUN STONE FREE FROM SOFT DISINTEGRATED PIECES, MUD, DIRT, OR OTHER INJURIOUS MATERIAL. THE MATERIAL SHALL HAVE NO STONE GREATER THAN 2" IN ANY ONE DIMENSION AND WITH LESS THAN 10% BY WEIGHT PASSING A #100 SIEVE.
9.	IN AREAS REQUIRING FILL OR BACKFILL, INCLUDING THE BACKFILLING OF FOUNDATION EXCAVATIONS, THE FILL MATERIAL SHALL BE UNIFORMLY GRADED SELECT STRUCTURAL FILL OF 2A MODIFIED, RECYCLED CONCRETE, OR EQUIVALENT MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER. THE FILL SHALL BE PLACED IN LIFTS OF 8" TO 10" BEFORE COMPACTION. EACH LIFT SHALL BE COMPACTED WITH APPROPRIATE EQUIPMENT TO A MINIMUM OF 95% OF ITS MAXIMUM MODIFIED DENSITY AT OR NEAR OPTIMUM MOISTURE. A SOILS TESTING LABORATORY, HIRED AS OUTLINED IN THE PROJECT SPECIFICATIONS, SHALL TEST THE MATERIAL BEFORE AND AFTER COMPACTION TO VERIFY CONFORMANCE WITH THIS SPECIFICATION. NO LIFTS SHALL BE PLACED WHEN WEATHER CONDITIONS ARE SUCH THAT THE MOISTURE CONTENT OF THE FILL CANNOT BE PROPERLY CONTROLLED. IN PLACES AND COMPACTING FILL AND BACKFILL MATERIAL, DO NOT DAMAGE NOR DISPLACE CONCRETE WORK, ALREADY IN PLACE BY CONTACT FROM COMPACTION MACHINERY BY SUBJECTING IT TO OVERTURNING FROM HEAVY COMPACTION LOADING OR ANY OTHER CAUSE. BRING FILL AGAINST SUCH CONCRETE AT THE SAME RATE AS THE REMAINDER OF FILL, COMPACTING UNIFORMLY ON BOTH SIDES USING HAND, OR MECHANICAL, TAMPERS.

CONCRETE															
1.	ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 (LATEST EDITION), "SPECIFICATIONS FOR STRUCTURAL CONCRETE IN BUILDINGS" AND ACI 318 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."														
2.	ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4,000 PSI 28 DAYS. REFER TO SPECIFICATION 03300 FOR DESIGN MIX REQUIREMENTS.														
3.	ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."														
4.	CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. TOGETHER WITH LABORATORY REPORTS ATTESTING THAT THE MIXES CAN ATTAIN THE MINIMUM DESIGN STRENGTH REQUIRED IN ACCORDANCE WITH CHAPTER 5.5 OF ACI 301 (LATEST EDITION). IF DURING CONSTRUCTION ANY CONCRETE FAILS TO MEET THE ACCEPTANCE CRITERIA, THE CONTRACTOR SHALL TAKE SUCH STEPS AS ARE DEEMED NECESSARY BY THE STRUCTURAL ENGINEER TO IMPROVE SUBSEQUENT TEST RESULTS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL ALSO BEAR THE COST OF SPECIAL INVESTIGATION, TESTING, OR REMEDIAL WORK NECESSARY BECAUSE OF EVIDENCE OF LOW STRENGTH OR NON-CONFORMING CONCRETE OR WORKMANSHIP.														
5.	CONTRACTOR SHALL SUBMIT STEEL REINFORCING DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENTS, SPLICES AND LAPPS, MECHANICAL CONNECTIONS, THE SPACING, HOOP SPACING AND SUPPORTS FOR CONCRETE REINFORCING. A 4"x4" SQUARE AREA NEAR THE TITLE BLOCK SHALL BE RESERVED FOR THE ENGINEER'S REVIEW STAMP. THE ENGINEER'S DRAWINGS MAY NOT BE REPRODUCED IN WHOLE OR PART AS A SHOP DRAWING. SHOP DRAWINGS SHALL BE CHECKED PRIOR TO SUBMITTAL. ANY DISREGARD FOR THE AFORESAID REQUIREMENTS SHALL BE CAUSE FOR REJECTION OF THE SUBMITTAL WITHOUT REVIEW.														
6.	NO ADMIXTURES ARE PERMITTED WITHOUT THE ENGINEER'S WRITTEN PERMISSION OTHER THAN ENTRAINED AIR. CONCRETE EXPOSED TO THE WEATHER, SUCH AS THAT USED IN FOUNDATION WALLS, SHALL CONTAIN 4% MIN. AND 6% MAX. ENTRAINED AIR.														
7.	REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A 775, GRADE 60. REFER TO PLANS AND SECTIONS FOR THE USE OF PLAIN OR EPOXY COATED (E.C.) REINFORCEMENT.														
9.	WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WITH A MINIMUM YIELD STRENGTH OF 75KSI AND SHALL BE SUPPLIED IN FLAT SHEETS. LAP TWO MESHES AT SIDES AND ENDS, AND WIRE TIE TOGETHER.														
10.	CONCRETE SLABS SHALL BE PROTECTED FROM LOSS OF SURFACE MOISTURE FOR NOT LESS THAN 7 DAYS BY USING A CURING COMPOUND CONFORMING TO ASTM C-309, BY WET BURLAP, OR A PLASTIC MEMBRANE.														
11.	NO WELDING OF REINFORCING BARS WILL BE PERMITTED.														
12.	GROUT SHALL BE NONSHRINKABLE GROUT CONFORMING TO ASTM C827, AND SHALL HAVE SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PREGROUTING OF BASE PLATES WILL NOT BE PERMITTED.														
13.	MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI 301 (LATEST EDITION).														
14.	MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 (LATEST EDITION) SECTION 7.7 FOR CONDITIONS NOT NOTED) <table border="1" style="margin-left: 20px;"> <tr> <td>FOOTINGS</td> <td>3 INCHES</td> </tr> <tr> <td>SLABS ON GRADE (MAX)</td> <td>2 INCHES (TOP)</td> </tr> <tr> <td>WALLS</td> <td>1 1/2 INCHES (IF)</td> </tr> </table>	FOOTINGS	3 INCHES	SLABS ON GRADE (MAX)	2 INCHES (TOP)	WALLS	1 1/2 INCHES (IF)								
FOOTINGS	3 INCHES														
SLABS ON GRADE (MAX)	2 INCHES (TOP)														
WALLS	1 1/2 INCHES (IF)														
15.	REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 47 BAR DIAMETERS MINIMUM AT SPLICES, UNLESS NOTED OTHERWISE: <table border="1" style="margin-left: 20px;"> <tr> <th>REBAR SIZE</th> <th>LAP / SPLICE LENGTHS</th> </tr> <tr> <td>#3</td> <td>18"</td> </tr> <tr> <td>#4</td> <td>20"</td> </tr> <tr> <td>#5</td> <td>24"</td> </tr> <tr> <td>#6</td> <td>36"</td> </tr> <tr> <td>#7</td> <td>42"</td> </tr> <tr> <td>#8</td> <td>48"</td> </tr> </table>	REBAR SIZE	LAP / SPLICE LENGTHS	#3	18"	#4	20"	#5	24"	#6	36"	#7	42"	#8	48"
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#3	18"														
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16.	HORIZONTAL FOOTING REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED 44 BAR DIAMETERS, AT CORNERS AND INTERSECTIONS. NO REINFORCING OR REINFORCING SUPPORTS SHALL BE EMBEDDED INTO THE FOUNDATION SOIL. ALL REINFORCING PROJECTING FROM THE CONCRETE SHALL BE TIED TO THE FOUNDATION OR WALL REINFORCINGS AND FULLY SUPPORTED FROM MOVEMENT DURING CONCRETE INSTALLATION. NO "WET STICKING" OF REINFORCING IS PERMITTED.
17.	HORIZONTAL JOINTING WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENTS. VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
18.	SLABS WITH SHRINKAGE STEEL (W/WF) SHALL HAVE CONSTRUCTION JOINTS OR CONTRACTION JOINTS AT EACH COLUMN LINE IN EACH DIRECTION. ADDITIONAL CRACK CONTRACTION JOINTS SHALL BE PROVIDED, SUCH THAT THE MAXIMUM SPACING BETWEEN CONSTRUCTION AND CRACK CONTROL JOINTS DOES NOT EXCEED 12' AND DOES NOT EXCEED A LENGTH TO WIDTH RATIO 1.5:1.
19.	REPAIR CONCRETE EXHIBITING VOIDS DUE TO SNAP TIES, "HONEYCOMBS," ROCK POCKETS, AND RUNS, SPALLS OR OTHERWISE DAMAGED SURFACES WITH DRY PACK OR CEMENT GROUT, AND FINISH FLUSH WITH ADJOINING SURFACES. AT THE DISCRETION OF THE STRUCTURAL ENGINEER OR AS QUALIFIED BY LAB TESTING, EXCESSIVE HONEYCOMBS OR EXPOSED REINFORCEMENT THAT JEOPARDIZES THE DESIGN SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
20.	PROVIDE TWO (2) #4 x 4" AT ALL RE-ENTRANT CORNERS, PLACED ON THE DIAGONAL WITH 1 1/2" CLEARANCE FROM THE CORNER AND TOP OF SLAB. REFER TO DETAIL.
21.	CONSTRUCTION JOINTS BETWEEN FOOTINGS AND PLASTERS AND SIMILAR JOINTS SHALL BE PREPARED BY ROUGHENING THE CONTACT SURFACE IN AN APPROVED MANNER TO FULL AMPLITUDE OF APPROX. 14 INCHES, LEAVING THE CONTACT SURFACE FREE AND CLEAR OF LANTINE. REINFORCED (DOWELED) JOINTS SHALL HAVE BINDER ADDITIVE APPLIED PRIOR TO POUR.
22.	ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
23.	CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT FINISHED SURFACES FROM STAINS OR ABRASIONS. NO FIRE SHALL BE ALLOWED IN DIRECT CONTACT WITH CONCRETE. PROVIDE ADEQUATE PROTECTION AGAINST INJURIOUS ACTION BY SUN OR WIND. FRESH CONCRETE SHALL BE THOROUGHLY PROTECTED FROM HEAVY RAIN, FLOWING WATER, AND MECHANICAL INJURY.
24.	TOPS OF FOUNDATIONS SHALL BE TROWEL FINISHED AND SMOOTH. REFER TO DRAWINGS FOR BASE PLATE ACCOMMODATIONS.
25.	SLUMP TESTS SHALL BE MADE PRIOR TO THE ADDITION OF PLASTICIZERS. CONCRETE FOR THE PREPARATION OF TEST CYLINDERS SHALL BE TAKEN FROM THE HOSE END FOR CONCRETE PLACED BY PUMP.
26.	WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE CONCRETE SUPPLIER AND PUMPER TO ENSURE PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR PROPER USE OF RETARDANTS AND OTHER ADDITIVES. USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
27.	PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE SLABS SURFACE WATER. FINISHING OF SLAB SURFACES SHALL COMPLY WITH ACI RECOMMENDATIONS 302 AND 304 (LATEST EDITION) FOR GARAGES.
28.	CONTRACTION JOINTS, IF SAW CUT, SHALL MEET THE FOLLOWING REQUIREMENTS: JOINT DEPTH: 1/4 OF SLAB THICKNESS SOFF-CUT SAW: JOINTS TO BE CUT WITHIN 2 HOURS OF FINISHING WET-OUT SAW: JOINTS TO BE CUT BETWEEN 4 AND 12 HOURS AFTER FINISHING.
29.	SLABS ON GRADE SHALL BE REINFORCED WITH WELDED WIRE FABRIC AND FIBER REINFORCEMENT AS INDICATED ON THE CONTRACT DOCUMENTS.
30.	PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLAN AS REQUIRED COMPLETING JOB.
31.	HOT WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN HOT WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 308R (LATEST EDITION) SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS.
32.	COLD WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN COLD WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 308R (LATEST EDITION) SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS.
33.	TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS: a. OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAYS POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU YDS BUT LESS THAN 25 CU YDS, PLUS ONE SET FOR EACH ADDITIONAL 50 CU YD OR FRACTION THEREOF. b. CONCRETE SLUMP, AIR CONTENT AND TEMPERATURE SHALL BE TAKEN AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE. PERFORM ADDITIONAL TEST WHEN CONSISTENCY APPEARS TO CHANGE. c. COMPRESSION TEST SPECIMENS SHALL BE PER ASTM C31 REQUIREMENTS. CAST AND CURE ONE SET OF FIVE STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. d. COMPRESSION STRENGTH TEST SHALL BE PER ASTM C39. TEST TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. MAINTAIN AND CURE ONE FIELD CURED SPECIMEN FOR 56 DAYS OR LONGER AT THE REQUEST OF THE ENGINEER.

CONCRETE MASONRY	
1.	ALL CONCRETE MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
2.	CONCRETE BLOCK SHALL BE NORMAL WEIGHT LOAD BEARING MASONRY UNITS CONFORMING TO ASTM C-90, GRADE N-1, WITH A MINIMUM (F _m = 2,500psi) COMPRESSIVE STRENGTH OF 3,250 PSI ON THE NET AREA OF THE UNITS.
3.	PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS A PRISMATIC STRENGTH EQUAL TO F _m = 2,500 PSI OR BETTER. THE MINIMUM AVERAGE NET AREA COMPRESSIVE STRENGTH SHALL EQUAL 3,250 PSI.
4.	MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C-270.
5.	CEMENT USED IN THE MORTAR AND GROUT SHALL CONFORM TO ASTM C-150.
6.	GROUT SHALL CONFORM TO ASTM C476 WITH A MIN. COMPRESSIVE STRENGTH OF 2,000 PSI.
7.	GROUT SHALL CONFORM TO THE PROPORTIONAL REQUIREMENTS OF ASTM C476. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID SPACE BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUVE OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. ADMIXTURES ARE NOT PERMITTED IN GROUT.
8.	STEEL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60. JOINT (HORIZONTAL) REINFORCEMENT SHALL BE DUR-O-WALL TRUSS TYPE, OR AN APPROVED EQUAL.
9.	MASONRY SHALL NOT BE CONSTRUCTED IN TEMPERATURES BELOW 40 DEG.F. PROVIDE A HEAT SOURCE AND PROTECTION AS REQUIRED TO MAINTAIN TEMPERATURE ABOVE 40 DEG.F. COORDINATE ADDITIONAL REQUIREMENTS WITH ACI 530, LATEST EDITION.
10.	ALL CELLS WITH REINFORCING BARS OR BOLTS SHALL BE GROUTED SOLID. ALL CELLS IN PARAPET MASONRY SHALL BE GROUTED SOLID.
11.	REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT MAXIMUM LIFTS. STOP POURS 1 1/2" BELOW THE BED JOINT TO FORM A KEY AT POUR JOINTS.
12.	REINFORCING BARS SHALL NOT BE PLUNGED INTO WET GROUT.
14.	REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 40 BAR DIAMETERS MINIMUM AT SPLICES, UNLESS NOTED OTHERWISE:

REBAR SIZE	LAP / SPLICE LENGTHS
#3	18"
#4	20"
#5	24"
#6	36"
#7	42"
#8	48"

STRUCTURAL STEEL													
1.	DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITION, AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.												
2.	MATERIALS: <table border="1" style="margin-left: 20px;"> <tr> <td>a. STRUCTURAL STEEL</td> <td>ASTM A 992</td> </tr> <tr> <td>b. STRUCTURAL STL. TUBING, SQ & ROUND</td> <td>ASTM A 500 GRADE B</td> </tr> <tr> <td>c. CHANNELS, PLATES AND ANGLES</td> <td>ASTM A 36</td> </tr> <tr> <td>d. BOLTS</td> <td>ASTM A 325</td> </tr> <tr> <td>e. ANCHOR RODS</td> <td>ASTM F1554-36</td> </tr> <tr> <td>f. WELDING ELECTRODE</td> <td>ASTM E 70XX LOW HYDROGEN</td> </tr> </table>	a. STRUCTURAL STEEL	ASTM A 992	b. STRUCTURAL STL. TUBING, SQ & ROUND	ASTM A 500 GRADE B	c. CHANNELS, PLATES AND ANGLES	ASTM A 36	d. BOLTS	ASTM A 325	e. ANCHOR RODS	ASTM F1554-36	f. WELDING ELECTRODE	ASTM E 70XX LOW HYDROGEN
a. STRUCTURAL STEEL	ASTM A 992												
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d. BOLTS	ASTM A 325												
e. ANCHOR RODS	ASTM F1554-36												
f. WELDING ELECTRODE	ASTM E 70XX LOW HYDROGEN												
3.	PROVIDE BITUMINOUS COATING AND/OR ISOLATION SLEEVE AND WASHERS / INSERTS BETWEEN ALL CONNECTIONS CONTAINING DISSIMILAR METALS.												
4.	ALL WELDING SHALL CONFORM TO THE CODE FOR THE ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY, AND BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH THE A.W.S. STANDARDS.												
5.	BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE AISC STANDARD DESIGNED FOR 125% OF THE FULL SHEAR CAPACITY OF THE BEAM												
6.	CONNECTIONS NOT SHOWN ARE TO BE DETAILLED BY THE FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION REFERRED TO IN NOTE 1 ABOVE. DETAILS OF ALL CONNECTIONS MUST BE SHOWN ON THE SHOP DRAWINGS. MINIMUM CONNECTION ANGLE THICKNESS TO BE 5/16". CONNECTION DESIGNS ARE TO BE PREPARED BY A STRUCTURAL ENGINEER LICENSED TO PERFORM ENGINEERING IN THE COMMONWEALTH OF PENNSYLVANIA.												
7.	SINGLE TAB PLATE CONNECTIONS ARE NOT PERMITTED, U.N.O.												
8.	ALL STRUCTURAL STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY ARE TO HAVE MASONRY WALL ANCHORS OF THE TYPE AND SIZE INDICATED IN THE SPECIFICATIONS AT 2'-0" ON CENTER, UNLESS NOTED OTHERWISE.												
9.	PROVIDE #16" DIAMETER HOLES FOR WOOD NAILERS AS REQUIRED BY ARCHITECTURAL DRAWINGS.												
10.	STRUCTURAL STEEL SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-242 FOR POWER TOOL CLEANING AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 2 MILS WITH A SHOP COAT OF TMECC #10-99 ALKYL D RUST INHIBITIVE PRIMER AS MANUFACTURED BY TMECC COMPANY, INC., OF KANSAS CITY, MO. OR AN APPROVED EQUAL.												
11.	ALL STRUCTURAL STEEL SUBJECT TO EXTERIOR WEATHERING SHALL BE HOT DIPPED GALVANIZED PER ASTM A123.												
12.	THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FABRICATION OF ALL STRUCTURE CONNECTIONS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF CUTS, CONNECTIONS, SPLICES, CAMBERS, HOLES, INDICATE ALL WELDS BY STANDARD AWS SYMBOLS. SHOW SIZE, LENGTH AND TYPE OF EACH WELD. INDICATE ALL BOLTS BY SIZE, LENGTH AND TYPE. CERTIFICATES OF COMPLIANCE ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL STEEL, BOLTS, NUTS, WASHERS, AND WELD FILLER MATERIAL PRIOR TO THE FABRICATION OF ANY STEEL.												
13.	HIGH STRENGTH BOLTS IN CONNECTIONS USED FOR KICKERS AND BRACING MEMBERS THAT ARE FABRICATED WITH SLOTTED HOLES SHALL BE SLIP-CRITICAL. IF STANDARD HOLES ARE USED, BOLTS SHALL BE FULLY PRE-TENSIONED.												
14.	WEB STIFFENERS SHALL BE PROVIDED IN WF SHAPES AS FOLLOWS: COLUMN WEBS: AT FULLY DEVELOPED MOMENT CONNECTIONS. STIFFENERS SHALL BE FILLET WELDED U.N.O. SAME THICKNESS AND GRADE AS BEAM FLANGES. WHERE MOMENT CONNECTIONS OCCUR ON COLUMN FLANGES AND COLUMN WEBS, STIFFENER THICKNESS SHALL EQUAL THE VECTOR SUMMATION OF THE RESPECTIVE BEAM FLANGE THICKNESSES. BEAM WEBS WHERE BEAM BEARS ON COLUMN, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES. BEAM WEBS: WHERE COLUMN BEARS ON BEAM, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.												
15.	CERTIFICATES OF COMPLIANCE ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR STRUCTURAL STEEL, BOLTS, NUTS, WASHERS, AND WELD FILLER MATERIAL PRIOR TO THE FABRICATION OF ANY STEEL.												
16.	SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.												
17.	BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE CONTRACT DOCUMENTS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE BEAMS.												
18.	HEADED CONCRETE ANCHORS SHALL BE NELSON OR KSM HEADED CONCRETE ANCHORS (OR APPROVED EQUAL), AND SHALL CONFORM TO ASTM A108. ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY OR THE KSM WELDING SYSTEMS COMPANY.												
19.	CONFORMANCE WITH THE RECOMMENDATIONS OF THE LENTON COMPANY.												
20.	PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLANS AS REQUIRED FOR COMPLETING JOB.												
21.	PROVIDE LOOSE OR HANGING LINTELS NOT SHOWN ON DRAWINGS AS REQUIRED TO COMPLETE JOB. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. CONTACT STRUCTURAL ENGINEER AS PER ANY DESIGN INFORMATION REQUIRED.												
22.	REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.3 OF THE PA UCC AND IBC 2018.												

STEEL BAR JOIST NOTES:	
1.	OPEN WEB STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE CURRENT SPECIFICATION OF THE STEEL JOIST INSTITUTE.
2.	JOISTS SHALL BE SUPPLIED WITH ALL ATTACHED DEVICES, BRIDGING, AND SIMILAR ACCESSORIES REQUIRED FOR STRICT CONFORMANCE WITH THE STEEL JOIST INSTITUTE'S SPECIFICATIONS. ALL OF THE ABOVE INFORMATION MUST BE SHOWN ON THE SHOP DRAWINGS.
3.	JOISTS SHALL BE FIELD WELDED TO THEIR SUPPORTING MEMBERS BY A CERTIFIED WELDER AS DEFINED BY THE AMERICAN WELDING SOCIETY.
4.	JOISTS AT ALL COLUMN LINES SHALL HAVE THEIR LOWER CHORDS EXTENDED AND SECURED TO THE COLUMN AFTER THE ALL OF THE BUILDINGS DEAD LOADS HAVE BEEN APPLIED, AND AS SHOWN ON THE CONSTRUCTION DRAWINGS.
5.	WHEN CONSTRUCTING STEEL JOISTS ON MASONRY WALLS, SETTING PLATES SHOULD ALWAYS BE PROPERLY ANCHORED TO THE WALL. THE SETTING PLATE SHOULD BE INSTALLED NOT MORE THAN 1/2" FROM THE FACE OF THE WALL.
6.	STAGGER JOISTS WHEN LESS THAN THE MINIMUM BEARING IS POSSIBLE ON A COMMON BEARING SURFACE.
7.	JOISTS SHALL BE CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION SP-245 AND PAINTED TO A MINIMUM DRY FILM THICKNESS OF 1 MIL WITH A RED OXIDE PAINT IN ACCORDANCE WITH SSPC PAINT SPECIFICATION NO. 15, TYPE 1.
8.	REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION SHALL BE AS OUTLINED IN TABLE 1704.3 OF THE PA UCC AND IBC 2018.
9.	JOISTS AND BRIDGINGS MUST BE DESIGNED TO RESIST A NET UPLIFT LOADING OF 15 PSF. NO STRESS INCREASES ARE PERMITTED FOR LOAD COMBINATION EFFECTS.

4.	SOME DETAILS OF THE WORK ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. A CAREFUL REVIEW AND STUDY OF THESE DETAILS IS NECESSARY BEFORE THE FULL SCOPE OF THE WORK CAN BE COMPREHENDED.
5.	STRUCTURAL MEMBERS SHOWN DEPCT SIZES AND APPROXIMATE LOCATIONS ONLY. ROOF CONFIGURATIONS, SLOPES, DIMENSIONS AND ELEVATIONS ARE TO BE VERIFIED AND COORDINATED BY THE CONTRACTOR WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
6.	PRINCIPAL OPENINGS IN THE STRUCTURE AND BUILDING ENVELOPE ARE SHOWN ON THE CONTRACT DOCUMENTS. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INLETS, ETC. NOT INDICATED ON THESE DRAWINGS. THE LOCATION OF SLEEVES OR OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

7.	THIS STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION OF THE BUILDING HAS BEEN COMPLETED. THE STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THIS RESPONSIBILITY EXTENDS TO ALL RELATED ASPECTS OF THE CONSTRUCTION ACTIVITY INCLUDING, BUT NOT LIMITED TO, ERECTION METHODS, ERECTION SEQUENCE, TEMPORARY BRACING, FORMS, SHORING, USE OF EQUIPMENT, AND SIMILAR CONSTRUCTION PROCEDURES, UNLESS SPECIFICALLY INDICATED ON THE CONTRACT DOCUMENTS. LACK OF COMMENT ON THE PART OF THE ENGINEER WITH REGARD TO CONSTRUCTION PROCEDURES IS NOT TO BE INTERPRETED AS APPROVAL OF THOSE PROCEDURES.
8.	JOB SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW OF THE CONSTRUCTION BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN ASPECTS ONLY. NOT TO REVIEW THE CONTRACTOR'S PROVISIONS FOR JOB SITE SAFETY. GUIDELINES FOR CONSTRUCTION SAFETY SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE CONSTRUCTION INDUSTRY OSHA SAFETY AND HEALTH STANDARDS (1926 STANDARDS), AND ANY LOCAL ORDINANCES OR CODES THAT MIGHT APPLY. LACK OF COMMENT ON THE PART OF THE ENGINEER WITH REGARD TO JOB SITE SAFETY IS NOT TO BE INTERPRETED AS APPROVAL OF JOB SITE SAFETY ASPECTS.
9.	THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION AND COORDINATION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
10.	SPECIAL INSPECTIONS, AS REQUIRED BY THE PA UCC AND IBC, SHALL BE PERFORMED BY AN APPROVED AGENCY, IN CONTRACT WITH THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE REQUIRED SPECIAL INSPECTIONS WITH THE WORK AND SHALL NOT CONCEAL WORK UNTIL THE REQUIRED INSPECTIONS HAVE BEEN COMPLETED AND THE WORK APPROVED.

11.	STRUCTURAL OBSERVATIONS PERFORMED BY THE ENGINEER DURING CONSTRUCTION DO NOT CONSTITUTE CONTINUOUS OR SPECIAL INSPECTION SERVICES. REQUIRED INSPECTIONS REMAIN THE RESPONSIBILITY OF THE BUILDING INSPECTOR OR TESTING AGENCY IDENTIFIED. STRUCTURAL OBSERVATIONS PERFORMED BY THE ENGINEER DO NOT CONSTITUTE SUPERVISION OF CONSTRUCTION AND DO NOT GUARANTEE THE WORK OF THE CONTRACTOR.
12.	IT IS EACH CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL WORK IN ACCORDANCE WITH THE FEDERAL, STATE, AND LOCAL LAWS, BYLAWS, ORDINANCES AND REGULATIONS IN ANY MANNER AFFECTING THE CONDUCT OF THIS WORK, AS WELL AS ALL ORDERS OR DECREES WHICH HAVE BEEN PROMULGATED OR ENACTED BY ANY LEGAL BODIES OR TRIBUNALS HAVING AUTHORITY OR JURISDICTION OVER THE WORK, MATERIALS, EMPLOYEES, OR CONTRACT.

13.	IF FAULTY CONSTRUCTION PROCEDURES, OR MATERIAL, RESULT IN DEFECTIVE WORK THAT REQUIRES ADDITIONAL ENGINEERING TIME TO DEVISE CORRECTIVE MEASURES, PROFESSIONAL FEES MAY BE CHARGED TO THE CONTRACTOR AT THE STANDARD HOURLY RATE OF ADDITIONAL SERVICES. SUCH FEES MAY BE WITHHELD FROM THE CONTRACTORS PAYMENT. REFER TO GENERAL CONDITIONS SECTION OF THE PROJECT SPECIFICATIONS.
14.	ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BEGINNING ANY WORK. IF EXISTING CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE AN ACCURATE SKETCH OF THE CONDITION, INCLUDING A PROPOSED MODIFICATION OR CORRECTION, FOR REVIEW AND APPROVAL.

15.	UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL, AND LOOSE LINTELS THAT ARE NECESSARY TO SUPPORT ALL ROOF TOP MOUNTED MECHANICAL EQUIPMENT, MASONRY WALL OPENINGS AND FLOOR AND ROOF OPENINGS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DRAWINGS OF ALL PRIME CONTRACTS TO DETERMINE THE QUANTITY, SIZE, AND LOCATION OF ALL ROOF TOP EQUIPMENT, ALL MASONRY OPENINGS, AND ALL FLOOR AND ROOF OPENINGS.
16.	THESE DRAWINGS ARE SUPPLEMENTED BY A DETAILED TECHNICAL SPECIFICATION. THE NOTES SHOWN ON THESE DRAWINGS UNDER CERTAIN CATEGORIES OF WORK ARE INTENDED TO SUMMARIZE BASIC REQUIREMENTS AND ARE ON THE DRAWINGS FOR CONVENIENCE.

17.	THE CONTRACTOR'S CONSTRUCTION SEQUENCES SHALL ALLOW FOR THE EFFECTS OF THERMAL MOVEMENTS DURING THE CONSTRUCTION PERIOD, PRIOR TO THE BUILDING BEING ENCLOSED AND THERMALLY CONTROLLED. NEGATIVE EFFECTS OF SUCH THERMAL MOVEMENTS, SUCH AS MATERIAL CRACKING, FROST HEAVE, ETC. SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
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18.	PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.														
19.	REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 47 BAR DIAMETERS MINIMUM AT SPLICES, UNLESS NOTED OTHERWISE: <table border="1" style="margin-left: 20px;"> <tr> <th>REBAR SIZE</th> <th>LAP / SPLICE LENGTHS</th> </tr> <tr> <td>#3</td> <td>18"</td> </tr> <tr> <td>#4</td> <td>20"</td> </tr> <tr> <td>#5</td> <td>24"</td> </tr> <tr> <td>#6</td> <td>36"</td> </tr> <tr> <td>#7</td> <td>42"</td> </tr> <tr> <td>#8</td> <td>48"</td> </tr> </table>	REBAR SIZE	LAP / SPLICE LENGTHS	#3	18"	#4	20"	#5	24"	#6	36"	#7	42"	#8	48"
REBAR SIZE	LAP / SPLICE LENGTHS														
#3	18"														
#4	20"														
#5	24"														
#6	36"														
#7	42"														
#8	48"														

CONCRETE MASONRY	
15.	VERTICAL CELLS TO BE GROUTED SOLID SHOULD HAVE A MINIMUM CLEAR OPENING AS IDENTIFIED IN ACI 530 (LATEST EDITION), FOR FIRE OR COARSE GROUT. COORDINATE GROUTING WITH OPENING SIZE AND THE REQUIREMENTS OF ASTM C476, AS NOTED ABOVE.
16.	ALL

A

B

C

D

E

EQUIPMENT TYPES

Table listing equipment types: ATS (Automatic Transfer Switch), CB (Photovoltaic DC Combiner Box), CONT (Contactor), CP (Consolidation Point), DS (Disconnect Switch), ECB (Enclosed Circuit Breaker), HH (Handhole), IDF (Intermediate Distribution Frame), LCP (Lighting Control Panel), MCC (Motor Control Center), MS (Motor Starter), PDU (Power Distribution Unit), PNL (Electrical Panel), SWBD (Switchboard), SWGR (Switchgear), TRAN (Transformer), UPS (Uninterruptible Power Supply).

ELECTRICAL SYMBOLS

LIGHTING

Table of lighting symbols including single pole switch, 3-way switch, 4-way switch, rotary/barrel type key switch, low-voltage lighting control, switch with electronic timer, dimmer switch, 3-way switch with locator LED, switch with motion sensor, dimmer switch with motion detector, emergency battery backup unit, emergency heads, exit sign, luminaires, luminaire type A in control zone b, wall-mount luminaire, normal/emergency luminaire, emergency-only luminaire, motion sensor (ceiling-mounted US, ceiling-mounted MT, aisle type, adjustable swivel neck), ceiling mounted daylight sensor, wall mounted room controller with X 0-10V relays.

FIRE ALARM

Table of fire alarm symbols including smoke detector, heat detector, combination smoke and heat detector, beam smoke detector transmitter, beam smoke detector receiver, duct smoke detector, firefighter telephone jack, manual pull station, audio/visual alarm, visual alarm, voice/visual alarm, voice/visual alarm - ceiling mounted, fire alarm control panel, annunciator panel, door holder, flow switch interface, input interface module, output interface module, tamper switch interface.

SECURITY

Table of security symbols including video surveillance camera (1 data jack plus 1 spare, 360°, 180°, 90°).

GENERAL ELECTRIC

Table of general electric symbols including switch with pilot light, fan switch, motor starter, disconnect switch, combination starter, duplex receptacle, ground fault interrupter, countertop height, electrical water cooler, ceiling mounted, weatherproof, tamper resistant, NEMA, mount # above finish floor, surface mount, television, USB, double-duplex receptacle, special receptacle, power receptacle, range receptacle, device in concealed recessed floor box, junction box, transformer, handhole, manhole, power pole, time clock, hand dryer, hair dryer, two-compartment surface raceway, panel, baseboard heater, motor, wiring concealed except where run in open structure, wiring below slab or grade, emergency system wiring, home run/circuit tag, multiconductor wiring, conduit rise, conduit drop.

COMMUNICATIONS

Table of communications symbols including television outlet, single data outlet, data outlet with N jacks, single telephone outlet, telephone outlet with N jacks, box with blank plate and conduit, wireless communications system antenna.

COMMON ABBREVIATIONS

Table of common abbreviations: A/E (Architect/Engineer), AB CLG (Above Ceiling), ABV (Above), AFF (Above Finished Floor), AFI (ARC-Fault Interrupter), AFR (Above Finished Roof), ALT (Alternate), ATS (Automatic Transfer Switch), BFC (Below Finished Ceiling), CIG (Countertop GFI), CD (Cord Drop), CL (Centerline), CLG (Ceiling), CM (Ceiling Mounted), COL (Column), CT (Countertop Height-44" AFF UNO or Current Transformer), CR (Cord Reel), DBF (Down Below Floor), DET (Detail), DIA (Diameter), DIM (Dimension), DL (Door Louver), DN (Down), DW (Dishwasher), DWG (Drawing), EC (Electrical Contractor), EL (Elevation), ELEV (Elevator), EMER (Emergency), EO (Emergency Only), EWC (Electric Water Cooler), EX (Existing), FA (Fire Alarm), FBO (Furnished by Owner), FLR (Floor), FPC (Fire Protection Contractor), FSC (Food Service Contractor), GC (General Contractor), GFI (Ground-Fault Interrupter), GND (Ground), HC (HVAC Contractor), HCP (Handicapped), HGT (Height), HR (Hour), IR (Infrared), JB (Junction Box), KES (Kitchen Equipment Supplier), LV (Low-Voltage), MC (Mechanical Contractor), MCA (Minimum Circuit Ampacity Protection), MOCP (Maximum Overcurrent Protection), MT (Multitechnology), MO (Microwave Oven), NA (Not Applicable), NE (Normal/Emergency), NIC (Not in Contract), NTS (Not to Scale), OFCI (Owner Furnished-Contractor Installed), PC (Plumbing Contractor), PIR (Passive Infrared), REC (Recessed), SE (Service Entrance), SECT (Section), SHT (Sheet), SIM (Similar), SPD (Surge Protection Device), SPEC (Specification), SS (Service Sink), STD (Standard), SUSP (Suspended), TBR (To be Removed), TL (Task Light), TR (Tamper Resistant), TSTAT (Thermostat), UNO (Unless Noted Otherwise), US (Ultrasonic), W (With), W/O (Without), W (Wall-Mounted), WP (Weatherproof).

COMMON SYMBOLS

Table of common symbols: PLAN NORTH, SECTION ID, SHEET NO. WHERE SECTION IS, DIRECTIONAL VIEW OF SECTION, REVISION CLOUD, REVISION NUMBER, ELEVATION, DIRECTION OF VIEW, SHEET NO. WHERE EL. IS DRAWN, ELEVATION ID, KEYNOTE, DETAIL ID, SHEET NO. WHERE DETAIL IS, ROOM/SPACE NO., EQUIPMENT TAG SHOWING TYPE AND ID, PROVIDE NEW, EXISTING TO REMAIN, REMOVE EXISTING, CONNECT TO EXISTING, EXISTING TO BE REMOVED.

DRAWING LIST

Table of drawing list items: P0.1 COVER SHEET, P1.1 SITE PLAN, P2.1 FLOOR PLAN-DRAINAGE, P2.2 ROOF & MEZZANINE PLANS, P3.1 FLOOR PLAN-SUPPLY, P7.1 DETAILS, P8.1 SCHEDULES, H0.1 COVER SHEET, H2.1 FLOOR PLAN, H2.2 ROOF PLAN, H7.1 DETAILS, H8.1 DETAILS & SCHEDULES, E0.1 COVER SHEET, E0.2 ELECTRICAL NOTES, E0.3 SITE PLAN - DEMOLITION, E0.4 SITE PLAN - NEW, E2.1 FLOOR PLAN - LIGHTING, E3.1 FLOOR PLAN-POWER, E4.1 FLOOR PLAN - LOW-VOLTAGE, E5.1 MEZZANINE PLANS, E7.1 DETAILS, E7.2 DETAILS, E7.3 DETAILS, E8.1 SCHEDULES.

D'HUY Engineering, Inc. CONSULTING ENGINEERS: Project Management, Facilities Engineering, Structural Design & Analysis, Mechanical/Electrical/Plumbing, Forensic Engineering.



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REBUILD - VINCENT G. PANATI PLAYGROUND for PPR/REBUILD PHILADELPHIA 3101-27 N 22ND ST, PHILADELPHIA PA 19132

VERIFY SCALE 1 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

Table with columns: No., Date, By, Description.

Date: 02/09/2024 Scale: AS NOTED Job No.: 725002 Drawn: JCR Appd.: MCD

Sheet Title: COVER SHEET

Sheet No. E0.1

NOT FOR CONSTRUCTION

ELECTRICAL NOTES

A. General Requirements

- 1. Work shall be in accordance with NFPA 70 (the National Electrical Code)...

B. Demolition and Connections to Existing Equipment

- 1. Disconnect and remove electrical service.

C. Utility Services

- 1. Coordinate installation of permanent electric utility service entrance with utility company.

D. Basic Materials and Methods

- 1. Wire shall be copper THHW, THWN or XHHW. Ampacity shall be based on 75C ratings...

- 19. Support cables, conduits, and junction boxes rigidly and securely with heavy duty clamps...

- 20. The use of spring tension cable or conduit support clips is not acceptable.

E. Grounding and Bonding

- 1. Provide grounding and bonding as below, in addition to requirements of NEC.

F. Surface Raceway

- 1. Use Wiremold ALA4800-series or equal, aluminum, two-channel system.

G. Wiring Devices

- 1. Standard switches shall be ivory or as directed, extra heavy-duty industrial grade, 277V, 20A, manufactured by Leviton, Arrow Hart or Pass & Seymour.

- groups of devices. Plates shall be square and true, with the edges of the plate in continuous contact with the wall, tamper-resistant hardware.

H. Distribution Equipment

- 1. Distribution equipment shall be manufactured by Cutler-Hammer, GE/ABB, Siemens, or Square D.

I. Lighting Control Devices

- 1. These controls function within a room and are not networked with the rest of the building.

- 4. Room controllers: a. UNO, where room controllers or daylight sensors are indicated, provide room controller together with low-voltage sensors and low-voltage wall controls.

- 5. Controls with sensitivity or other adjustments shall be initially set as described. After the Owner has become accustomed to the use of the system, make further changes at the Owner's direction.

J. Lighting Control Panels

- 1. Lighting control panels shall provide relay-based control of 20A, 120/277V lighting circuits. They shall provide programmable automatic control by integrated 365-day astronomical timeclock, and/or by low-voltage manual switching.

- b. Standard manufacturer's information on all components, including signal wiring.

- 11. Provide as-built plans with each location shown, indicating the label used and the number of jacks.

K. Lighting

- 1. Provide submittals for each luminaire. When a luminaire is proposed as a substitute for that specified, provide photometric report for the exact model proposed.

L. Emergency Lighting

- 1. Provide emergency lighting equipment as specified on the drawings.

M. Teledata Wiring System

- 1. Provide a unified teledata wiring system, with a link for each telephone and data jack shown on the drawings.

- 12. Test installed wiring through patch panels and jack locations to specified EIA/TIA standards using an automated tester.

N. Television Distribution

- 1. Not in scope of work.

O. Paging System and Public Address System

- 1. Not in scope of work.

P. Multimedia

- 1. Not in scope of work.

Q. Clock

- 1. Not in scope of work.

R. Access Control

- 1. Not in scope of work.

S. Intrusion Detection

- 1. Not in scope of work.

T. Video Surveillance

- 1. Provide IP video surveillance system with cameras, supports, monitor and NVR. See specification section 282300 - Video Surveillance for additional requirements.

- 16. Camera Mounting Coordination a. Meet with Owner on site to review camera mounting schedule.

U. Fire Alarm

- 1. Provide addressable, analog fire alarm system manufactured by Notifier/Honeywell or as approved by PPR, see specifications for Digital, Addressable Fire-Alarm System for additional requirements.

D'HUY Engineering, Inc. CONSULTING ENGINEERS: Project Management, Facilities Engineering, Structural Design & Analysis, Mechanical/Electrical/Plumbing, Forensic Engineering.

DEI logo and address: One East Broad Street, Suite 310, Bethlehem, PA. 18018. 610.865.3000 - fax 610.861.0181 www.dhuy.com

REBUILD - VINCENT G. PANATI PLAYGROUND for PPR/REBUILD PHILADELPHIA 3101-27 N 22ND ST, PHILADELPHIA PA 19132

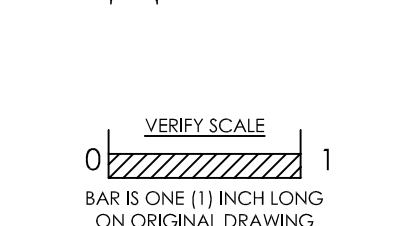


Table with 3 columns: No., Date, Description. Row 1: No. 02, Date 02/09/2024, Description.

Table with 2 columns: Scale: AS NOTED, Job No: 725002, Drawn: JCR, Appd.: MCD

Sheet Title: ELECTRICAL NOTES

Sheet No. E0.2

1

2

3

4

5

6

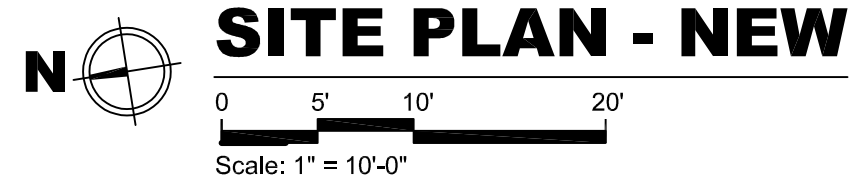
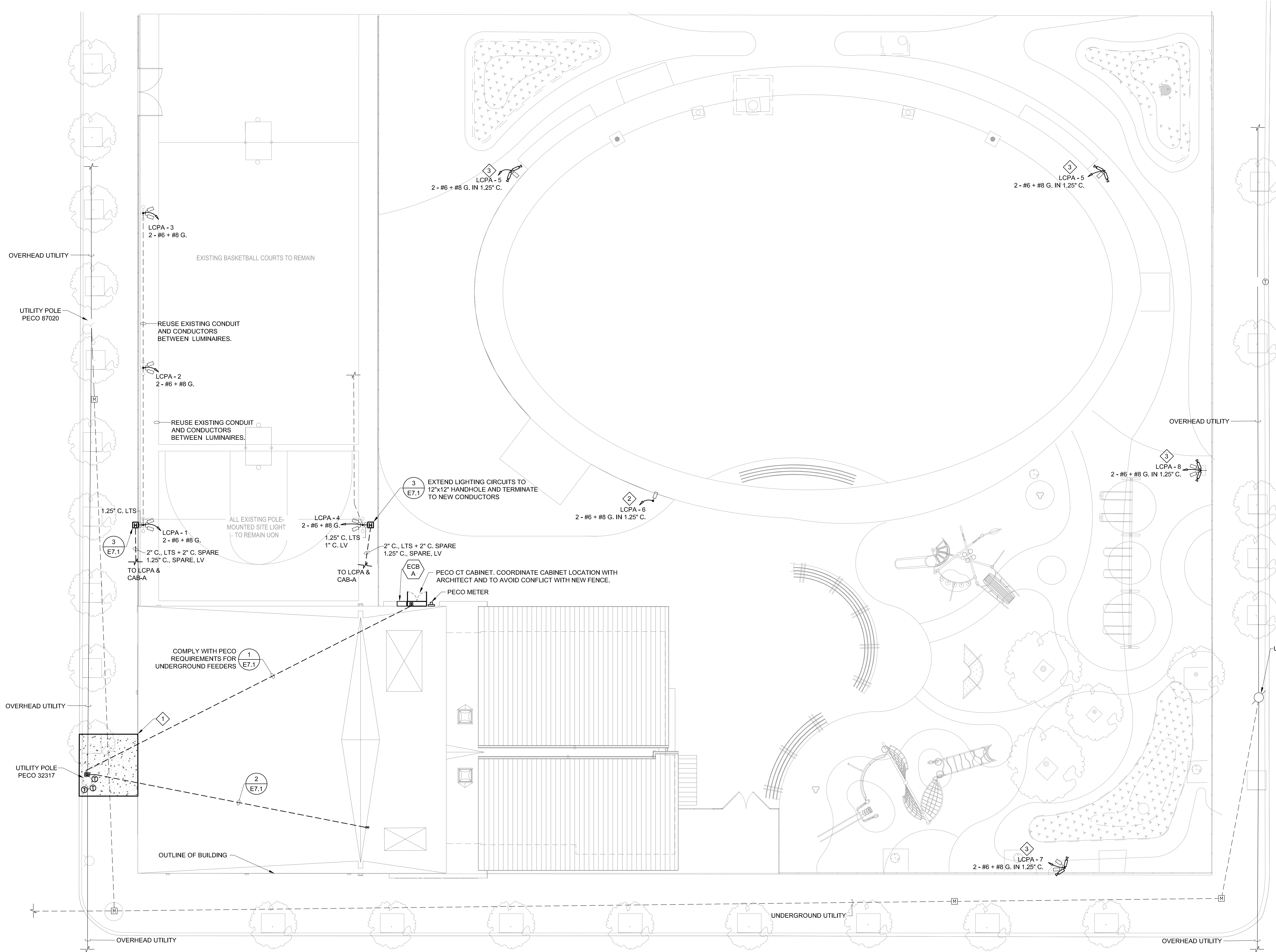
A

B

C

D

E



PLAN NOTES

- EXISTING UNDERGROUND CONDUIT LOCATIONS UNKNOWN. PROVIDE GROUND PENETRATING RADAR TO DETERMINE FINAL LOCATION & DEPTH OF EXISTING UNDERGROUND CONDUITS.
- SEE ALTERNATE #5 FOR WORK ASSOCIATED WITH REPLACING EXISTING OUTDOOR POLE MOUNTED CAMERAS WITH NEW.

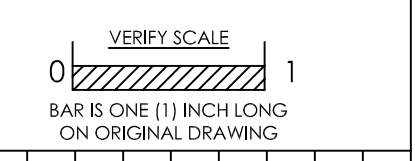
KEY NOTES

- SAW CUT AND REMOVE SIDEWALK FOR UNDERGROUND DUCT BANK WORK. PROVIDE NEW, MEANS, MATERIALS & METHODS TO MATCH EXISTING SIDEWALK.
- EXISTING SITE LUMINAIRE. EXTEND EXISTING CONDUITS TO BUILDING. FIELD VERIFY CONDUIT SIZES AND LOCATION. PROVIDE NEW SITE LIGHTING CIRCUIT FROM NEW ELECTRIC ROOM. NEW CONDUCTORS SHALL BE MATCH THE CABLE DIAMETER OF THOSE REMOVED.
- EXISTING SITE LUMINAIRE. EXTEND EXISTING CONDUITS TO BUILDING. FIELD VERIFY CONDUIT SIZES AND LOCATIONS. PROVIDE NEW LIGHTING CIRCUIT AND CAMERA CABLES FROM NEW ELECTRIC ROOM AND DATA CLOSET. NEW CONDUCTORS AND CABLES SHALL MATCH THE CONDUCTOR AND CABLE DIAMETER OF THOSE REMOVED. SEE TYPICAL SITE CAMERA WIRING DETAIL FOR ADDITIONAL REQUIREMENTS.

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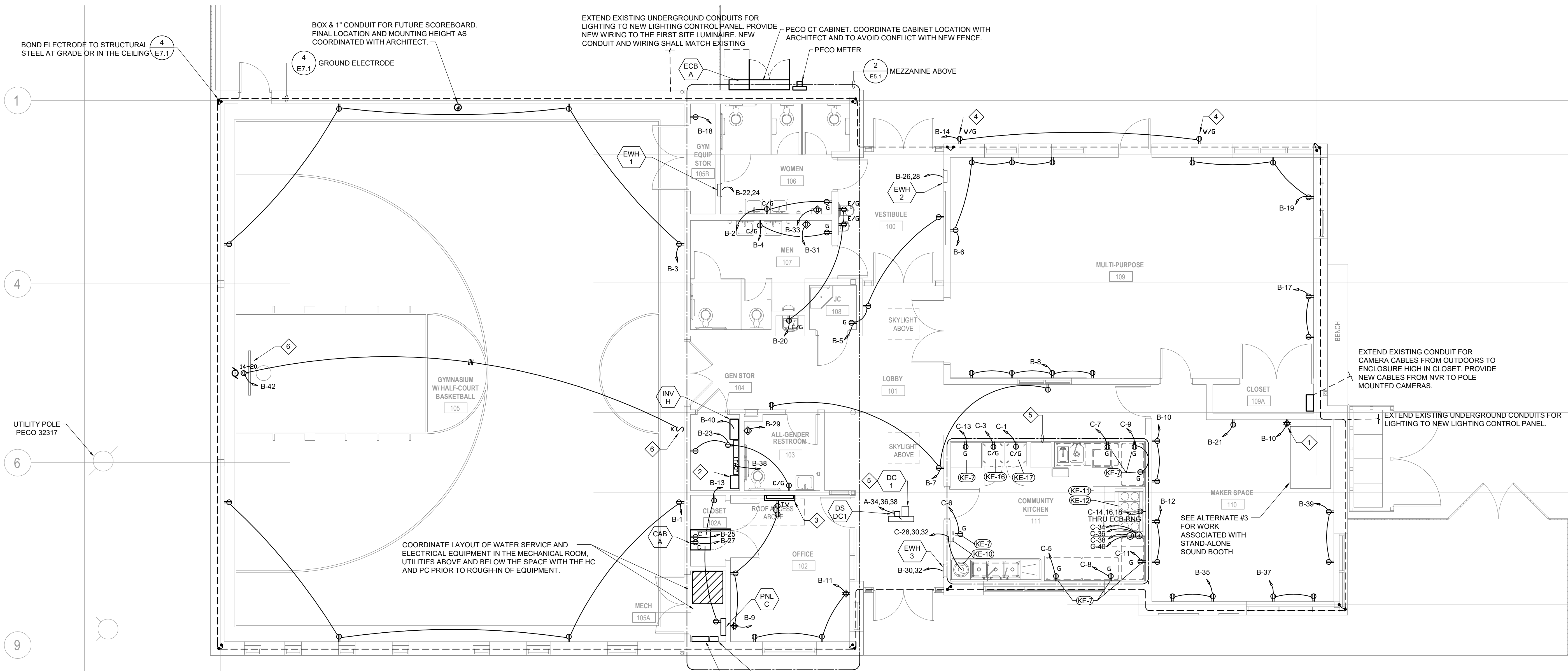
No.	Date	By	Description

Date: 02/09/2024
 Scale: AS NOTED
 Job No.: 725002
 Drawn: JCR Appd.: MCD

Sheet Title:
SITE PLAN - NEW

Sheet No.
E0.4

NOT FOR CONSTRUCTION



FLOOR PLAN - POWER
 Scale: 3/16" = 1'-0"

Community Kitchen Electrical Schedule

Tag	Equipment Type	Wiring	Mounting	Comments
KE-7	General Purpose Receptacles	2 - #12 + #12 gnd. in 3/4" C.	Mount at 18" AFF	NEMA 5-20R GFI
KE-10	Food Waste Disposer	3 - #10 + #10 gnd. in 3/4" C.	Hardwire	through disconnect/controller
KE-11	Exhaust Hood	8 - #10 + #10 gnd. in 1" C.	Hardwire	Provide remote ADA accessible on/off of fan and light switches
KE-12	Range	4 - #6 + #8 gnd. in 1.25" C.	Mount at 24" AFF	NEMA 14-50R with matching 6' cord and plug, fed from PNL C thru ECB-RNG (shunt trip type) to NEMA-14-50R, shunt trip control from hood, coordinate shunt control voltage with hood installer.
KE-16	Reach-in freezer	2 - #12 + #12 gnd. in 3/4" C.	Mount at 48" AFF	NEMA 5-20R GFI
KE-17	Reach-in refrigerator	2 - #12 + #12 gnd. in 3/4" C.	Mount at 48" AFF	NEMA 5-20R GFI

Electrical device locations shown for reference. Coordinate rough-in of electrical device, control and wiring with kitchen equipment installer and electrical rough-in kitchen drawings. Switches, controls and electrical devices shall be ADA accessible, coordinate layout of switches, devices and controls with kitchen equipment installer and Architect to ensure compliance.

PLAN NOTES

- RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.
- SEE SITE PLAN FOR ELECTRIC UTILITY REQUIREMENTS.

KEY NOTES

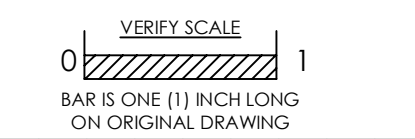
- FIELD COORDINATE FINAL LOCATION OF CONNECTION AND TYPE OF CONNECTION TO RECORDING BOOTH WITH THE BOOTH INSTALLER.
- REMOTE MANUAL SWITCH CONTROLS FOR EXISTING BASKETBALL COURT LIGHTING AND SECURITY LIGHTING.
- CAMERA SYSTEM LOW-PROFILE MONITOR MOUNTED IN LOW-PROFILE SEE THROUGH VANDAL PROOF ENCLOSURE. COORDINATE FINAL LOCATION WITH PPR. AVOID LOCATIONS THAT IS IN CONFLICT WITH FURNITURE, DOORS SWINGS, AND ROOF HATCH ACCESS.
- PROVIDE CAST METAL HEAVY DUTY IN-USE COVER CAPABLE OF BEING LOCKED.
- SEE ALTERNATE #4 FOR WORK ASSOCIATED WITH KITCHEN EQUIPMENT.
- PROVIDE POWER AND CONTROL WIRING TO POWERED GYM EQUIPMENT SYSTEM, INCLUDING BOX AND CONDUIT TO SWITCH AND RECEPTACLE AND TERMINATIONS. COORDINATE REQUIREMENTS FOR WIRING, DEVICES, AND LOCATIONS WITH THE POWERED GYM EQUIPMENT SYSTEM INSTALLER. WIRING SHALL BE RECESSED IN THE WALLS AND FLOORS AND IN CONDUIT IN THE CEILING SPACE. CUSTOM PAINTED TO MATCH ADJACENT SURFACES.

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Sheet Title:
 FLOOR PLAN - POWER
 Sheet No.
E3.1

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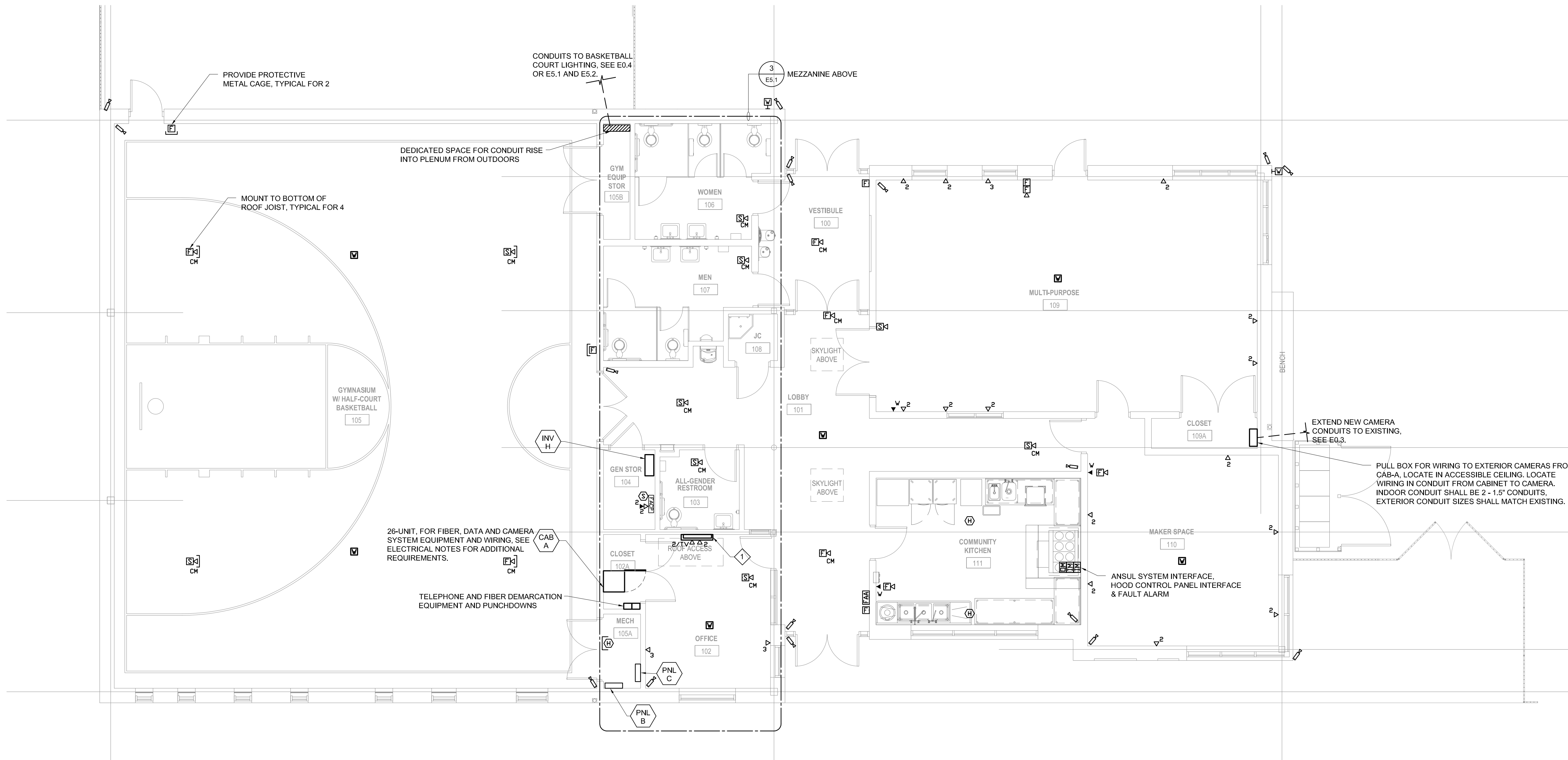
A

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FLOOR PLAN - LOW-VOLTAGE

Scale: 3/16" = 1'-0"

PLAN NOTES

- COORDINATE FINAL LOCATION OF DATA & TELEPHONE JACKS WITH OWNER.
- COORDINATE FINAL LOCATION, MOUNTING HEIGHT & AIMING OF CAMERAS WITH OWNER.

KEY NOTE

1 CAMERA SYSTEM LOW-PROFILE MONITOR MOUNTED IN LOW-PROFILE SEE THROUGH VANDAL PROOF ENCLOSURE. COORDINATE FINAL LOCATION WITH PPR, AVOID LOCATIONS THAT IS IN CONFLICT WITH FURNITURE, DOORS SWINGS, AND ROOF HATCH ACCESS. PROVIDE BOX AND CONDUIT TO ACCESSIBLE CEILING FOR FUTURE ADDITIONAL WIRING.

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VERIFY SCALE
 0 1
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

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Sheet Title:
FLOOR PLAN - LOW-VOLTAGE

Sheet No.

NOT FOR CONSTRUCTION

E4.1

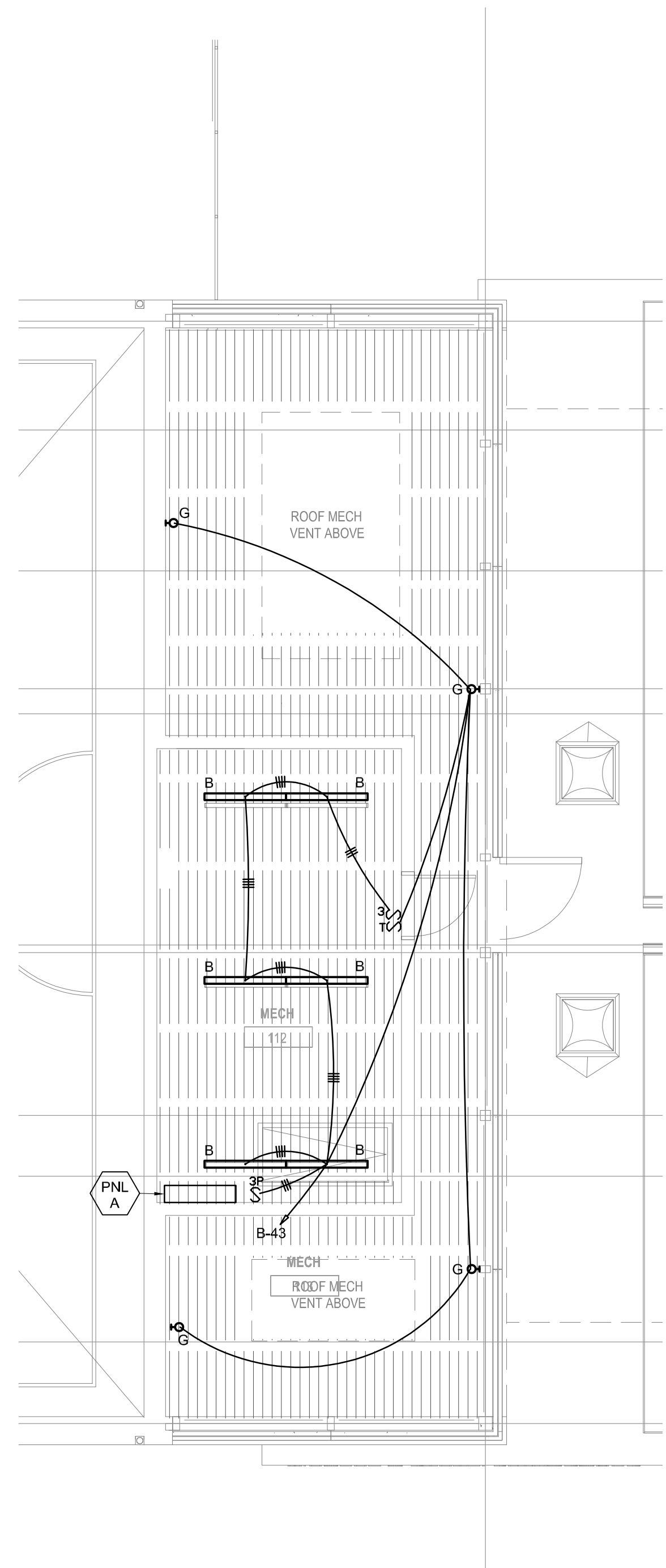
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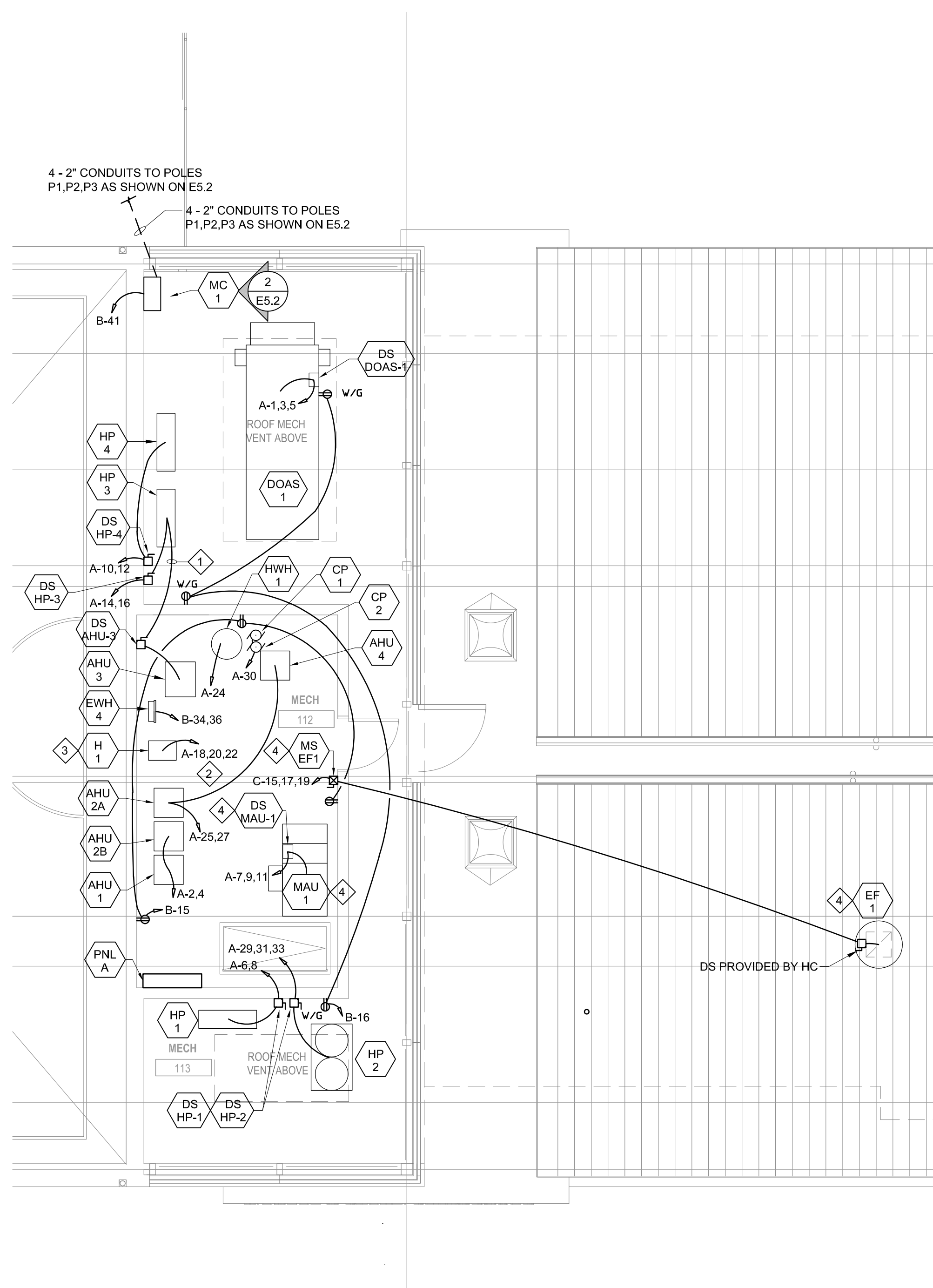
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MEZZANINE PLAN - LIGHTING
 Scale: 3/16" = 1'-0"



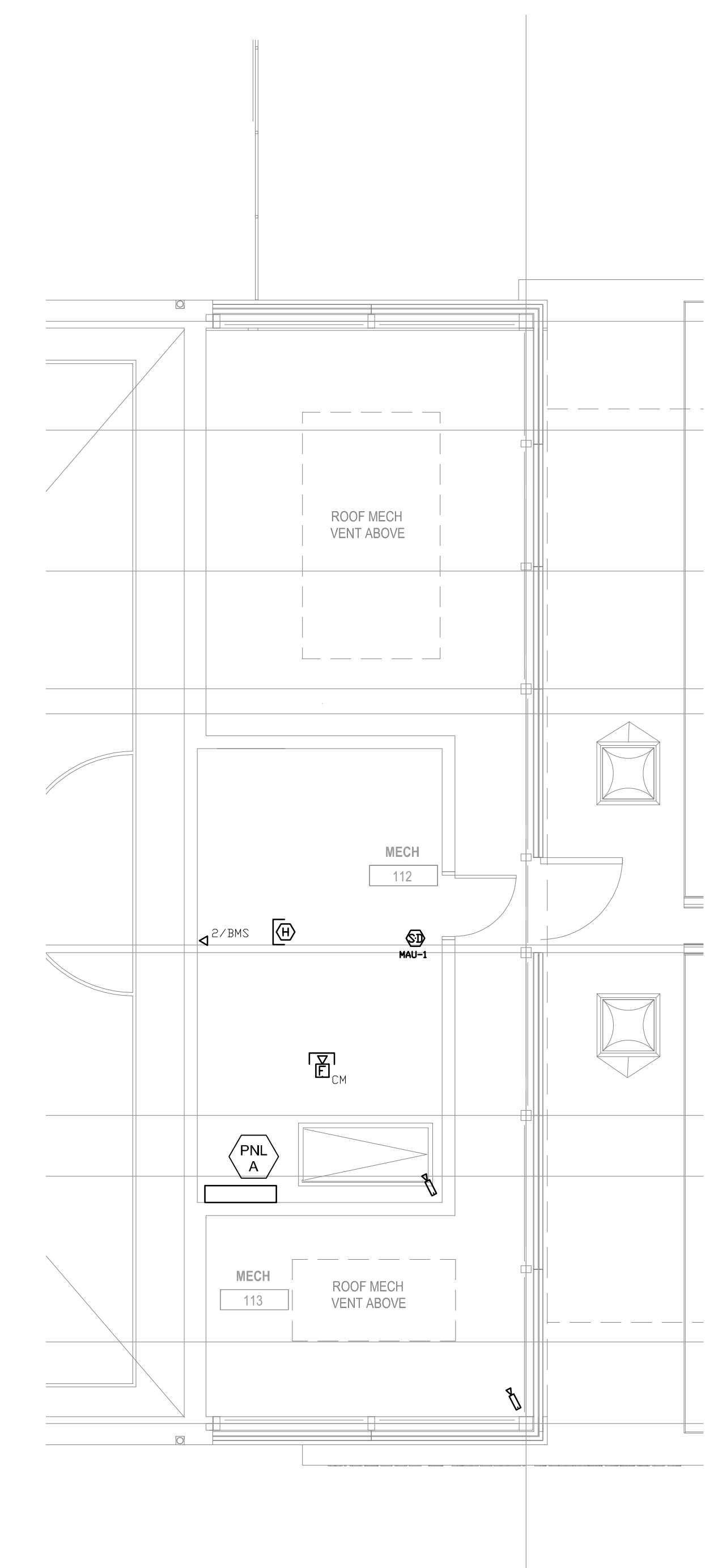
MEZZANINE PLAN - POWER
 Scale: 3/16" = 1'-0"

PLAN NOTE

1. PROVIDE 3/4" CONDUIT BETWEEN OUTDOOR HEAT PUMPS AND ASSOCIATED INDOOR AIR HANDLING UNITS FOR HC PROVIDED CONTROL WIRING.

KEY NOTES

1. PROVIDE 3 - #10 + #10G IN 3/4" CONDUIT BETWEEN OUTDOOR HP-3 AND ASSOCIATED INDOOR AHU-3. PROVIDE CONTROL WIRING BETWEEN OUTDOOR AND INDOOR UNIT. TERMINATIONS SHALL BE MADE IN DS-AHU-3.
2. PROVIDE 3 - #10 + #10G IN 3/4" CONDUIT.
3. SEE ALTERNATE #1A & #1B FOR WORK ASSOCIATED WITH GYM WOOD FLOORING.
4. SEE ALTERNATE #4 FOR WORK ASSOCIATED WITH KITCHEN EQUIPMENT.

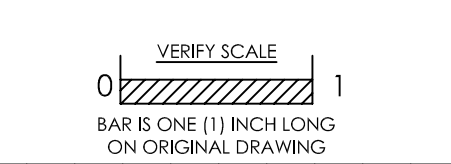


MEZZANINE PLAN - LOW VOLTAGE
 Scale: 3/16" = 1'-0"

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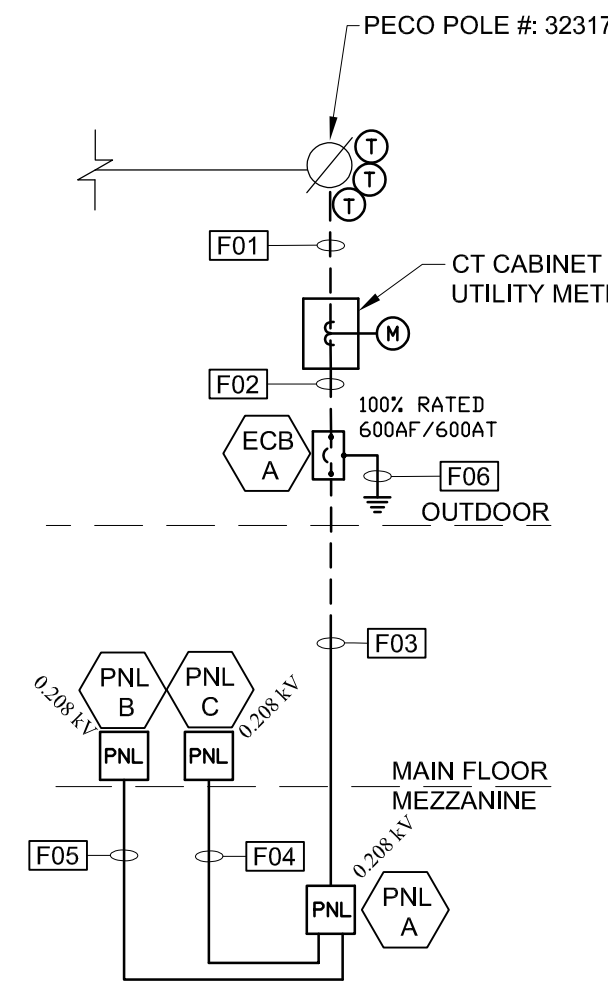
Sheet Title:
 MEZZANINE PLANS

Sheet No.

E5.1

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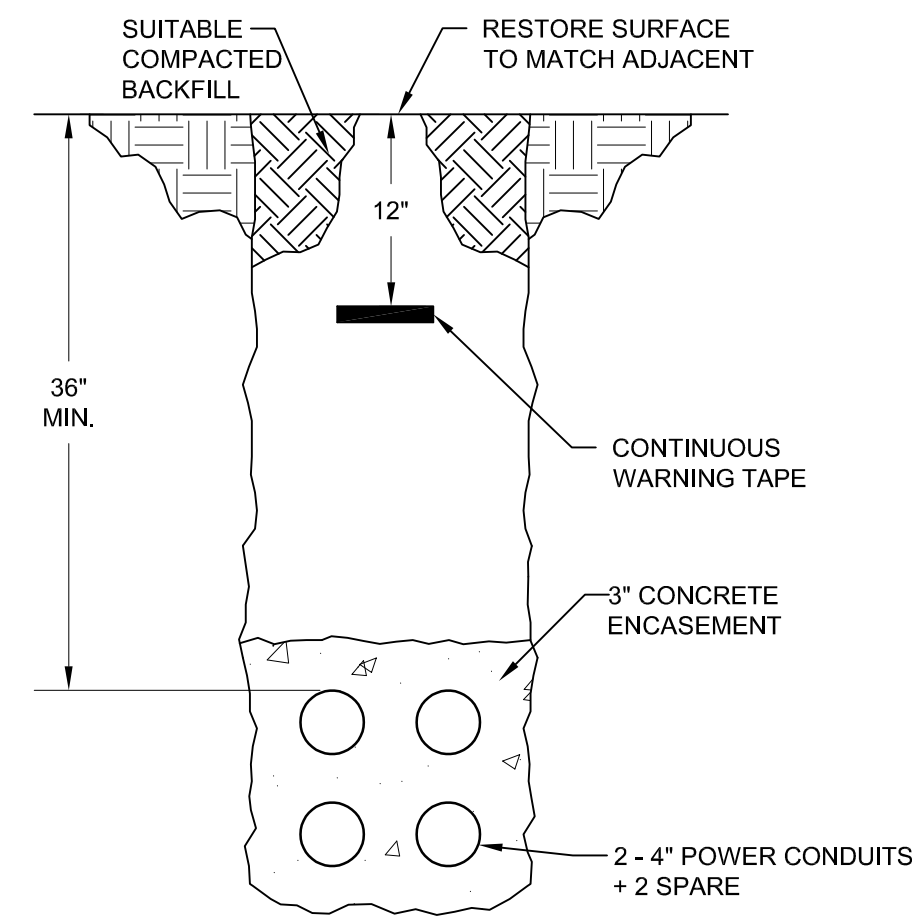
SINGLE LINE DIAGRAM - POWER

NO SCALE
NOTES:

- PANELS AND EQUIPMENT THAT ARE PART OF THE EMERGENCY SYSTEM SHALL BE SELECTIVELY COORDINATED TO 0.01 SECONDS AS REQUIRED TO COMPLY WITH ARTICLE 700 OF THE NEC.
- COMPLY WITH PECO REQUIREMENTS FOR NEW UNDERGROUND SERVICE FROM POLE MOUNTED TRANSFORMERS. FINAL TERMINATIONS TO UTILITY TRANSFORMERS BY PECO.

Feeder Schedule

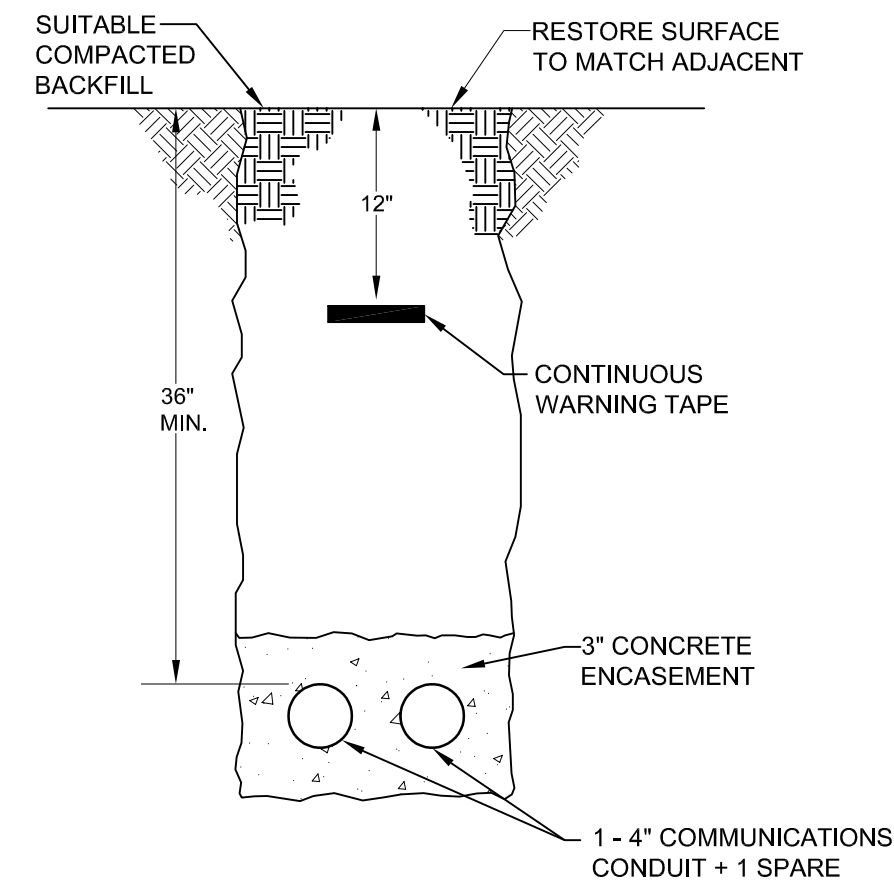
Tag	Overcurrent Protection	Phase Wires (per conduit)	Ground	Conduit	Number of Conduits	Comments
F01	600A	4-350kcmil	#1	4"	2	+ 2 spare
F02	600A	4-350kcmil	#1	4"	2	+ 1 spare
F03	600A	4-350kcmil	#1	4"	2	+ 1 spare
F04	200A	4-4/0	#4	2.5"	1	
F05	200A	4-4/0	#4	2.5"	1	
F06	-	-	2/0	-	-	Ground electrode



SERVICE DUCT BANK DETAIL

1
E7.1

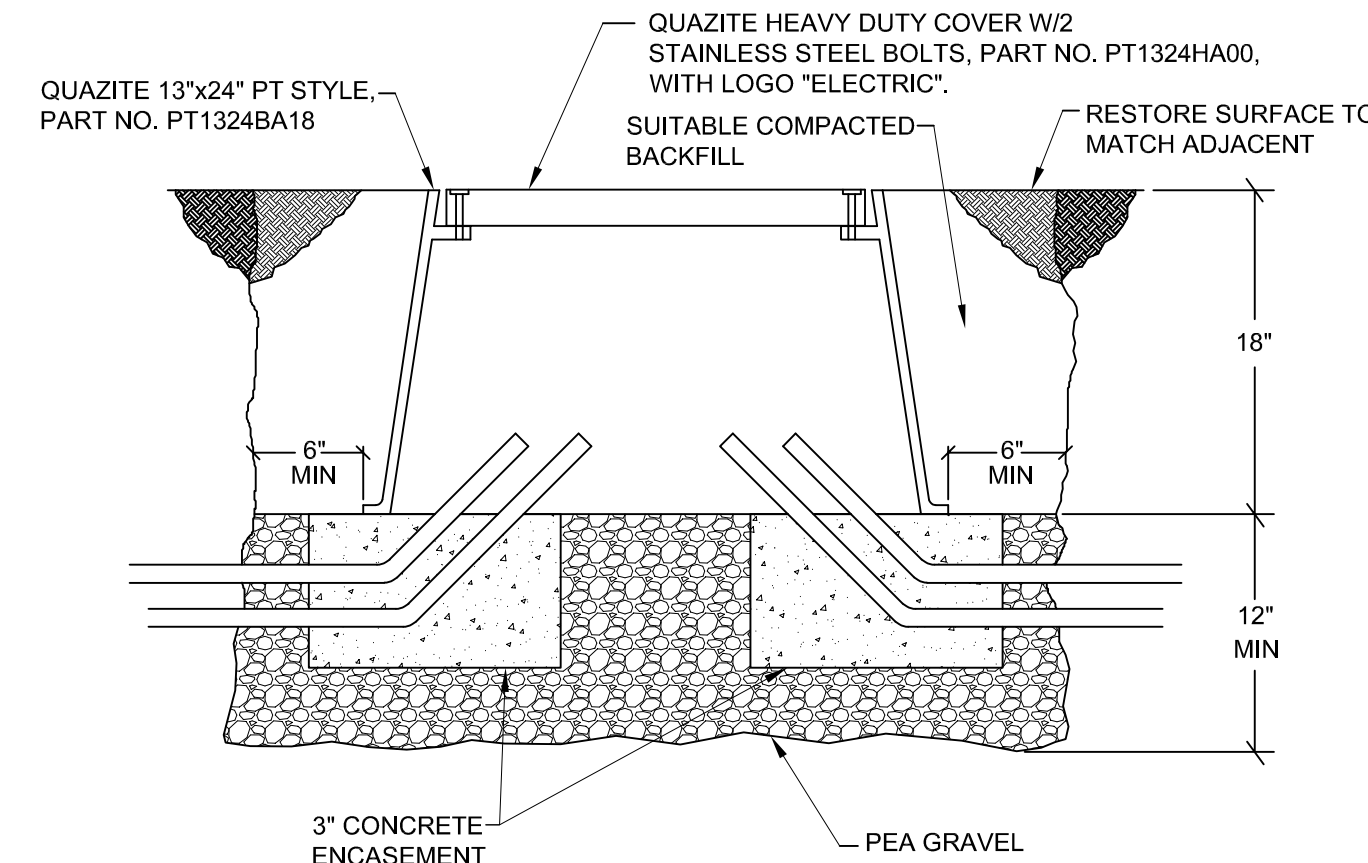
NOT TO SCALE
NOTE: COMPLY WITH PECO REQUIREMENTS FOR UNDERGROUND FEEDERS.



SERVICE DUCT BANK DETAIL

2
E7.1

NOT TO SCALE
NOTE: COMPLY WITH TELEPHONE/DATA SERVICE PROVIDER REQUIREMENTS FOR UNDERGROUND FEEDERS.

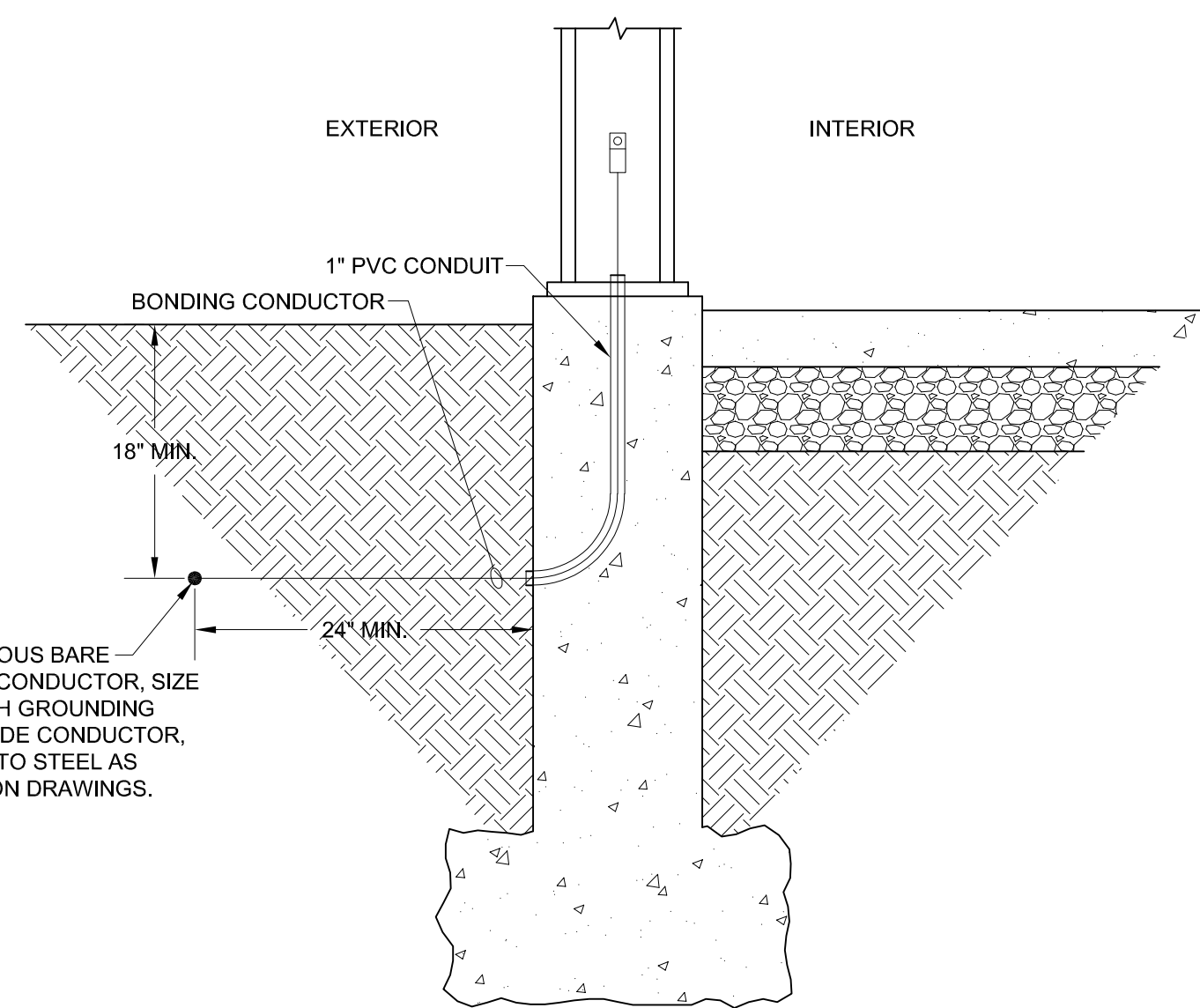


TYPICAL HANDHOLE DETAIL

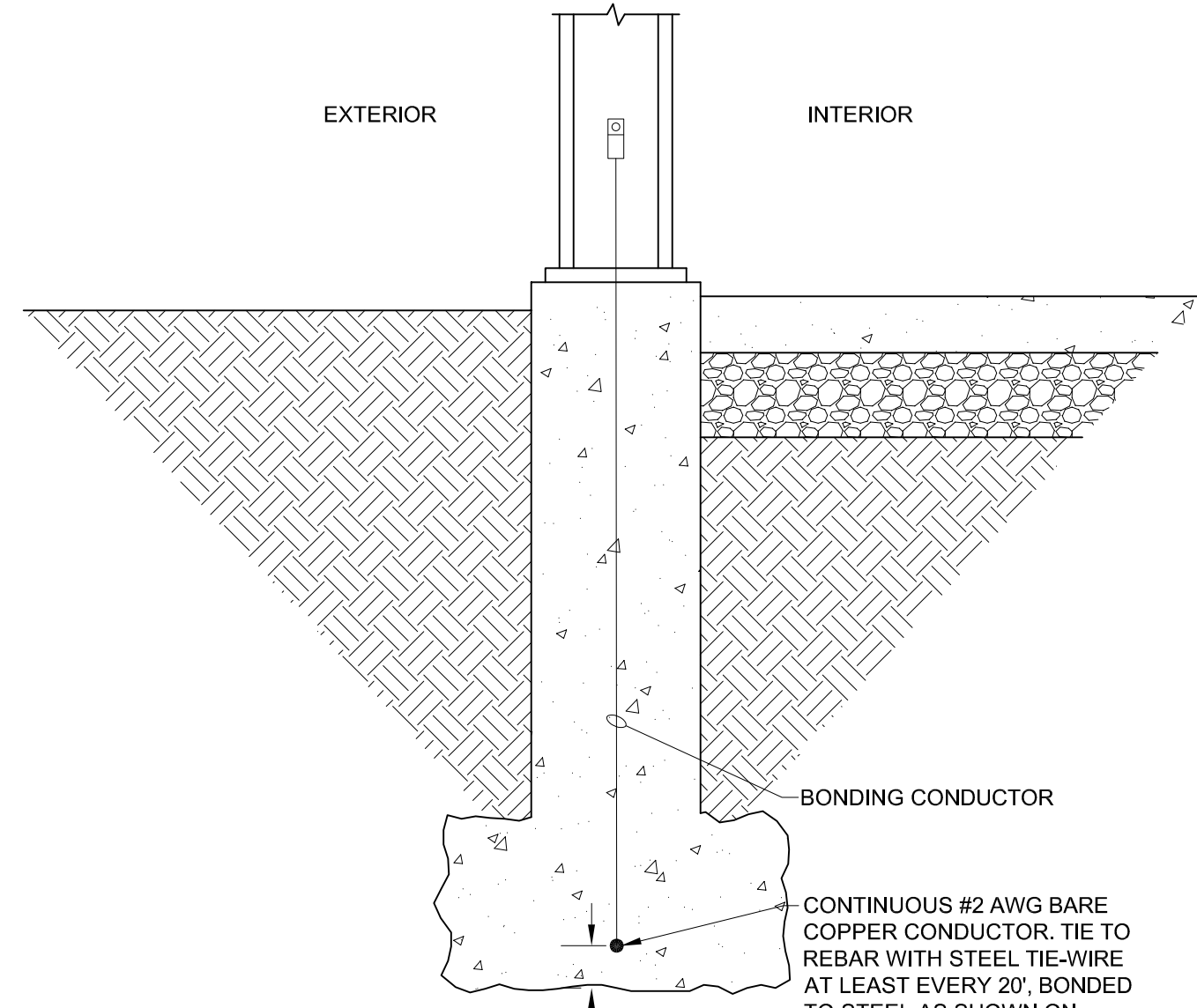
3
E7.1

NO SCALE
NOTE: PROVIDE SIZE SHOWN, UNLESS SITE PLAN INDICATES OTHERWISE

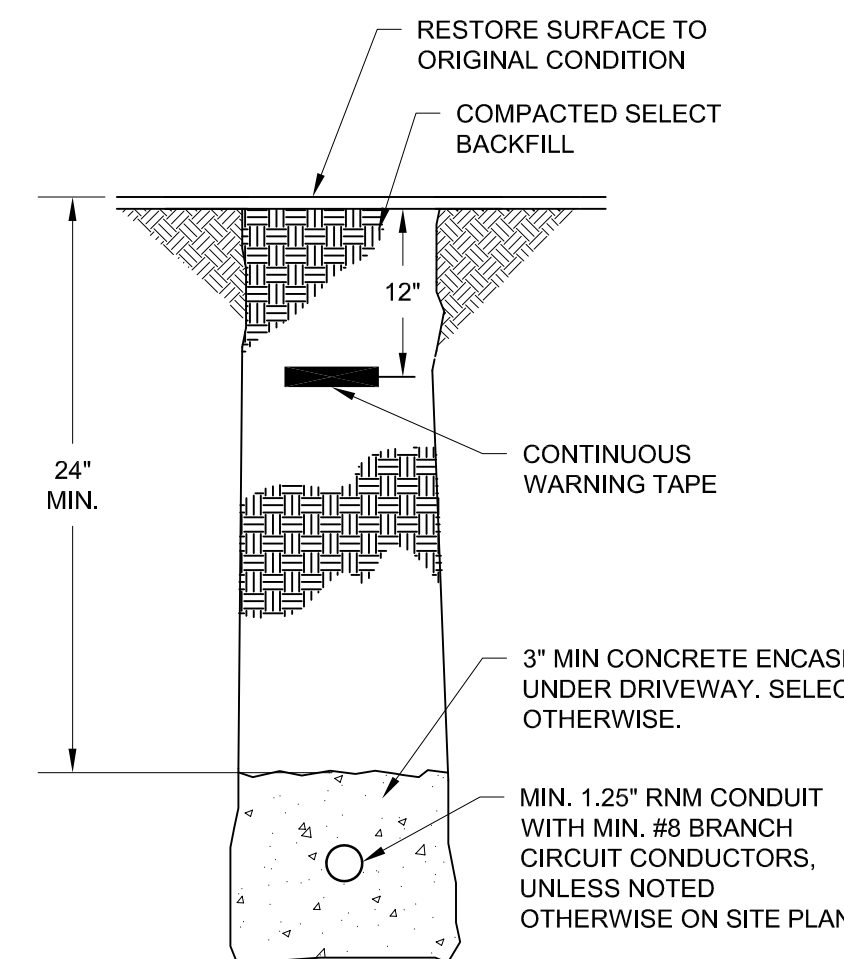
B



GROUND RING ELECTRODE OPTION

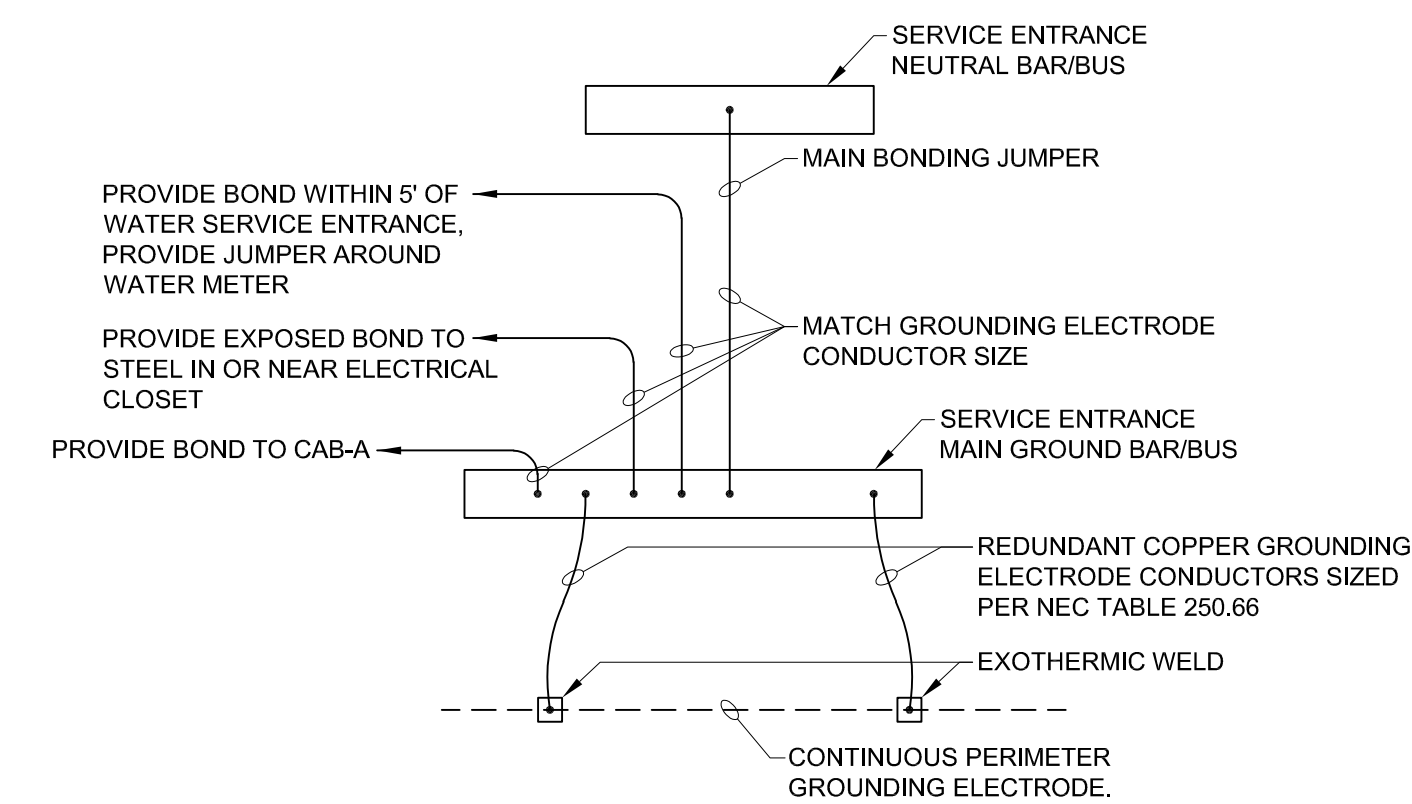


CONCRETE-ENCASED ELECTRODE OPTION



TYPICAL UNDERGROUND CONDUIT DETAIL

NO SCALE



SERVICE ENTRANCE GROUNDING DETAIL

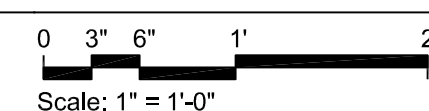
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E7.1

GROUNDING ELECTRODE & STEEL BONDING DETAIL



Scale: 1" = 1'-0"

NOTES:

- PROVIDE CONTINUOUS COPPER GROUNDING ELECTRODE AROUND ENTIRE PERIMETER OF BUILDING, EITHER GROUND RING ELECTRODE OPTION OR CONCRETE-ENCASED ELECTRODE OPTION.
- USE ONLY EXOTHERMIC WELDS FOR JOINING COPPER CONDUCTORS UNDERGROUND OR WITHIN CONCRETE.
- BONDING CONDUCTOR SIZE SHALL MATCH GROUNDING ELECTRODE CONDUCTOR SIZE.
- BOND EACH PERIMETER COLUMN AND ADDITIONAL COLUMNS SHOWN ON FLOOR PLAN. PROVIDE CLEAN CONNECTION TO STEEL, REMOVE MATERIALS OR PAINT THAT WOULD PREVENT A CLEAN CONNECTIONS.
- BONDING CONNECTORS AT COLUMNS SHALL BE WELDED CONNECTORS LISTED FOR THE APPLICATION, WHERE COLUMN CONNECTORS ARE ACCESSIBLE FOR INSPECTION, MECHANICAL CONNECTORS BOLTED TO COLUMNS MAY BE USED.

E

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VERY SCALE
 0 1
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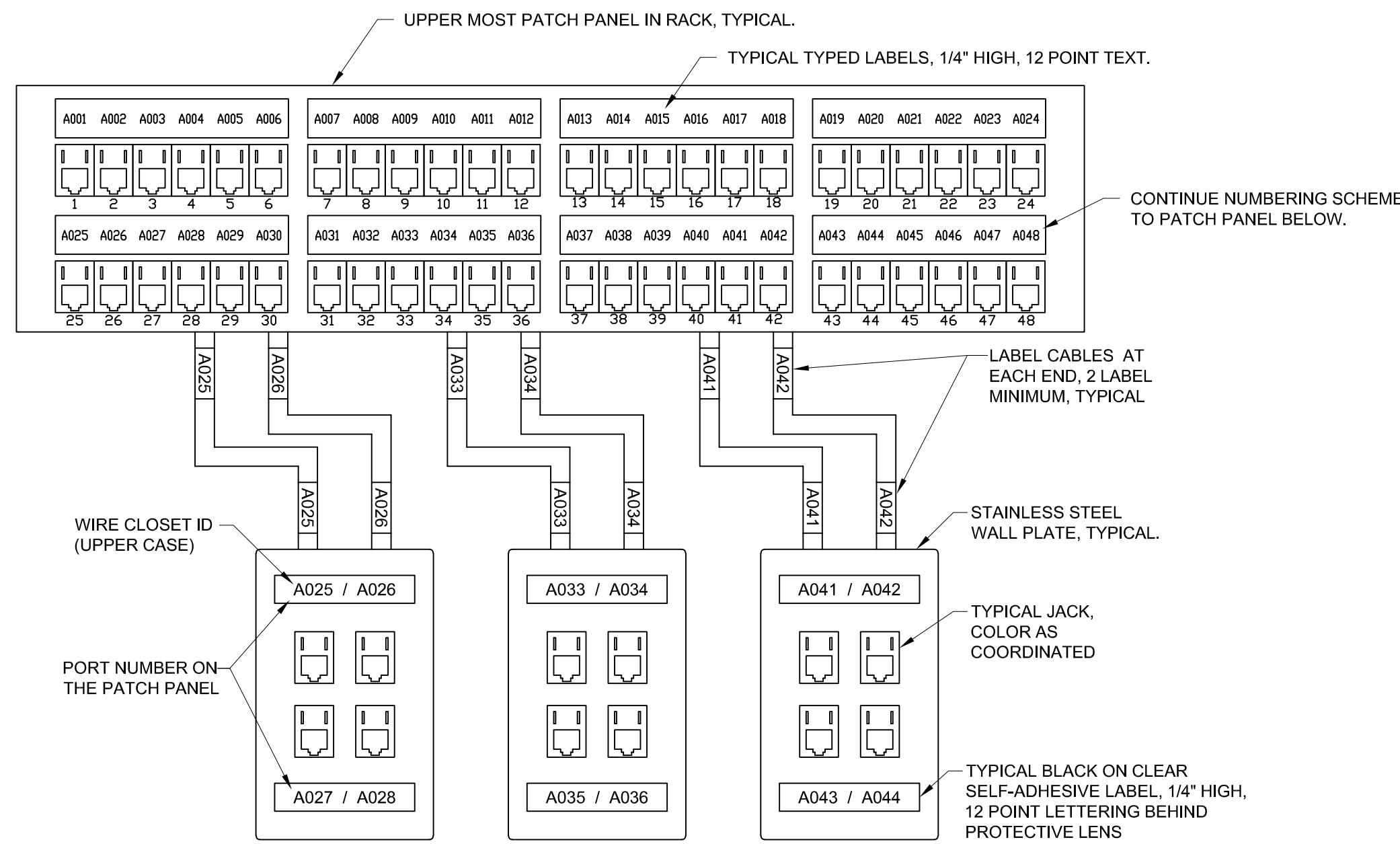
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Sheet Title:
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Sheet No.
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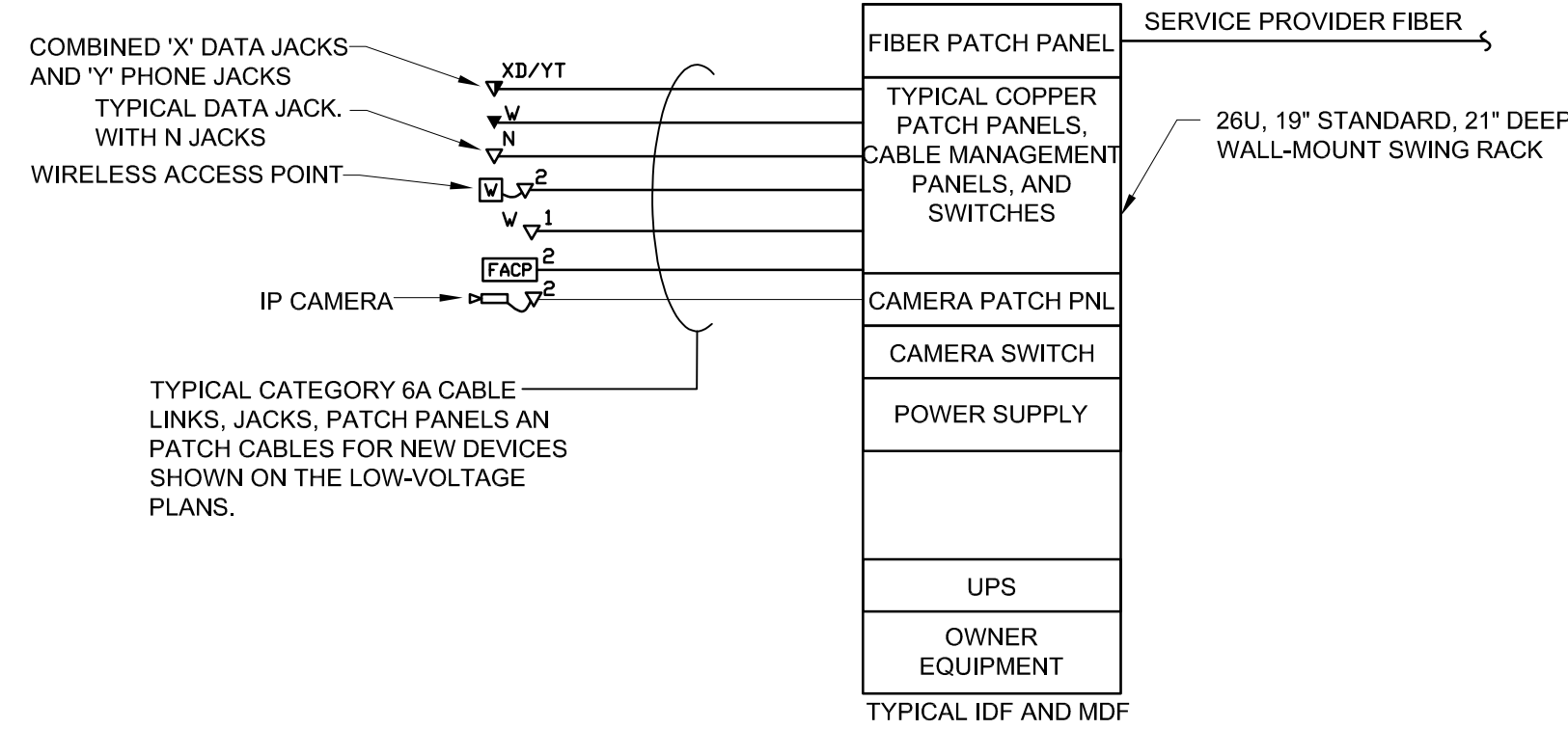
A



TYPICAL TELEDATA LABELING DETAIL

- NOT TO SCALE
- NOTES: 1. FILL UNUSED OPENINGS WITH ELECTRICAL IVORY BLANK MODULES.
2. PATCH PANELS ARE TO BE LABELED IN CONSECUTIVE ORDER STARTING AT RACK LETTER, PORT 001. FACE PLATE SHALL IDENTIFY RACK LETTER AND PORT NUMBER FOR EACH JACK.
3. LABELING SCHEME SHOWN IS AN EXAMPLE. PROVIDE LABELING OF TELEDATA CABLES, PATCH PANELS, AND JACKS AS DEFINED BY OWNER IN WRITING.

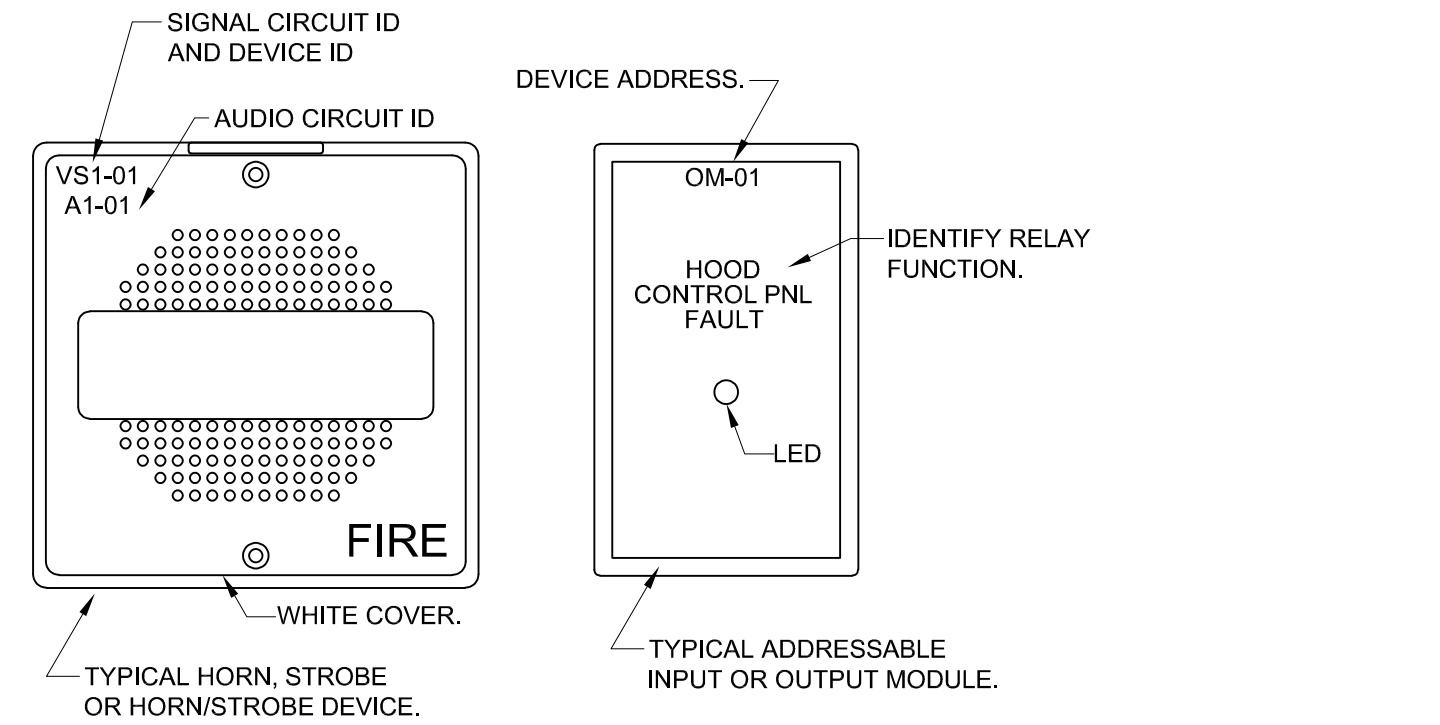
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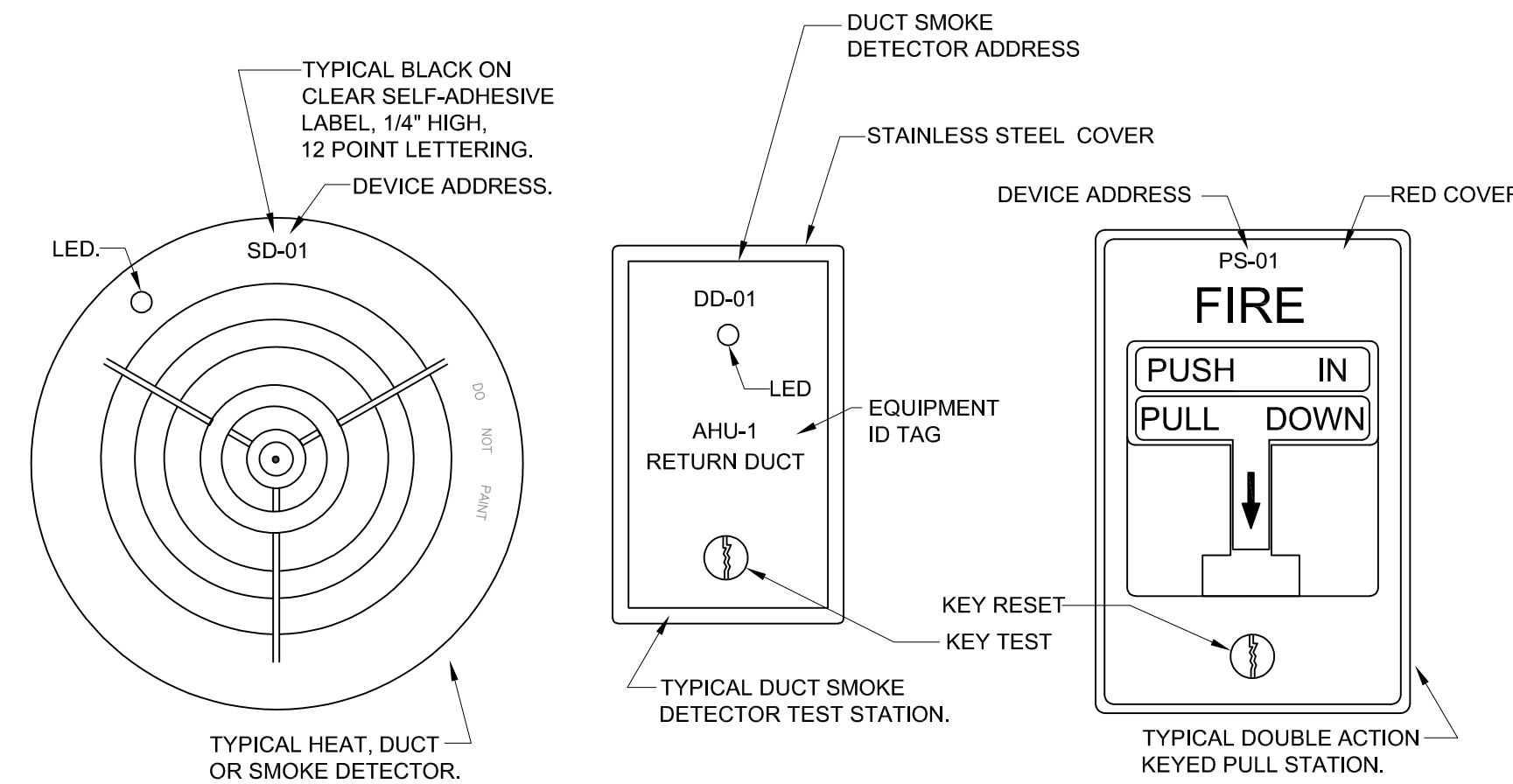
TYPICAL TELEDATA RISER DIAGRAM

- NO SCALE
- DIAGRAM NOTES
- FINAL LOCATION OF DATA JACKS AT TELEVISIONS, MONITORS, PROJECTORS, CAMERAS, & OWNER OR ARCHITECTURAL FURNITURE SHALL BE COORDINATED IN THE FIELD WITH ARCHITECT. PROVIDE FINAL APPROVAL BY OWNER FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN OF CONDUIT AND BOXES.
 - PUNCH DOWN TELEPHONE AND DATA OUTLETS THRU CATEGORY 6A PATCH PANELS. PROVIDE ONE SMALL PATCH CABLE BETWEEN PATCH PANEL AND OWNER FURNISHED SWITCHES.
 - INSTALL NEW FIBER CABLES, FIBER PATCH PANELS, NETWORK SWITCHES, CAMERA EQUIPMENT & PATCH CABLES BY OWNER.
 - PROVIDE STANDARD DATA JACK COVERPLATE WITH MOUNTING STUDS TO MATCH EXISTING TELEPHONES, OR AS REQUESTED.
 - PROVIDE VERTICAL GROUND BAR IN CABINET. INSTALL #4 CONDUCTOR FROM GROUND BAR TO BUILDING STRUCTURAL STEEL. BOND CABINET TO PERIMETER GROUND ELECTRODE. BOND EACH POWERED PIECE OF EQUIPMENT IN THE CABINET TO THE GROUND BAR WITH A DEDICATED #12 BONDING CONDUCTOR.

C



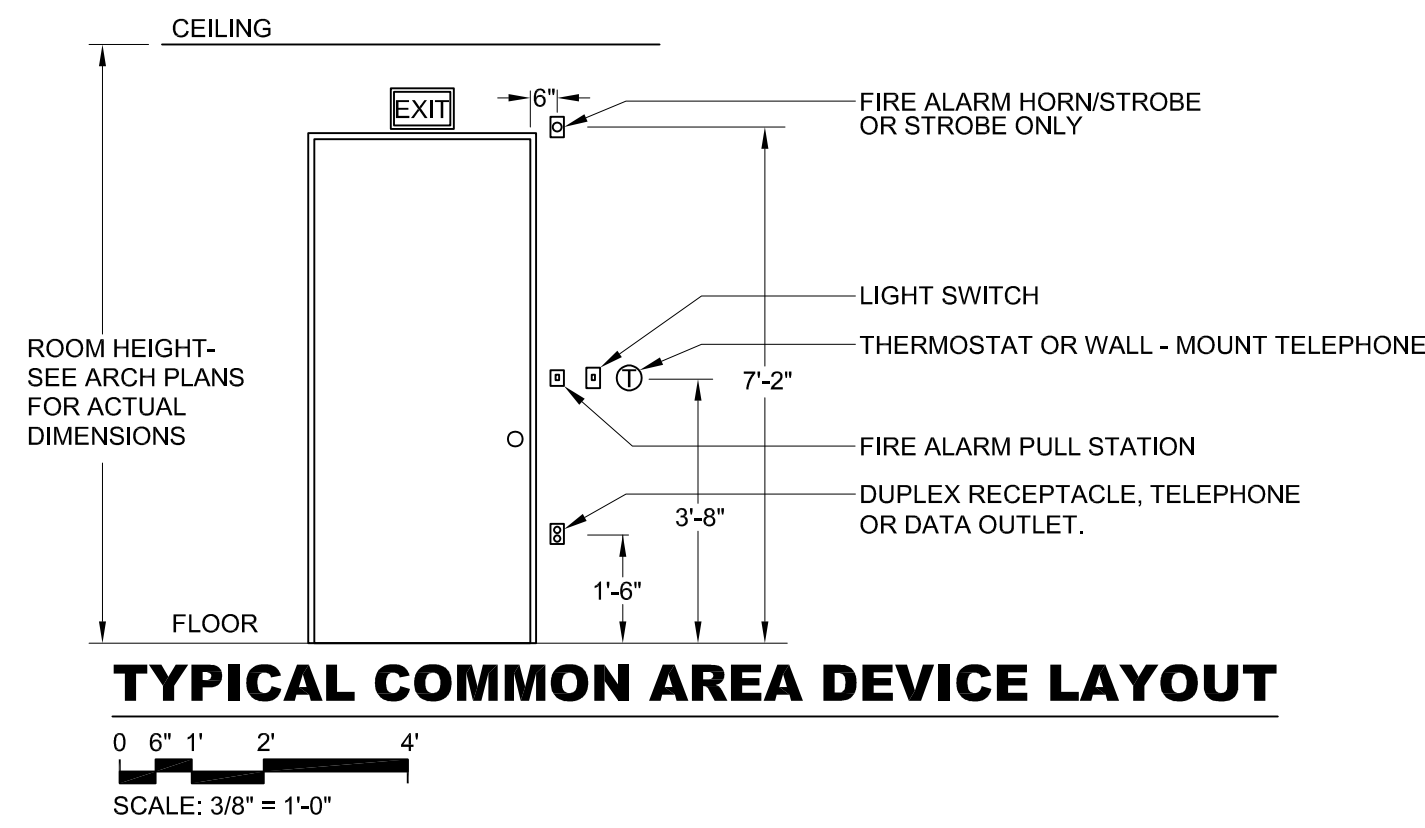
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TYPICAL FIRE ALARM DEVICE DETAIL

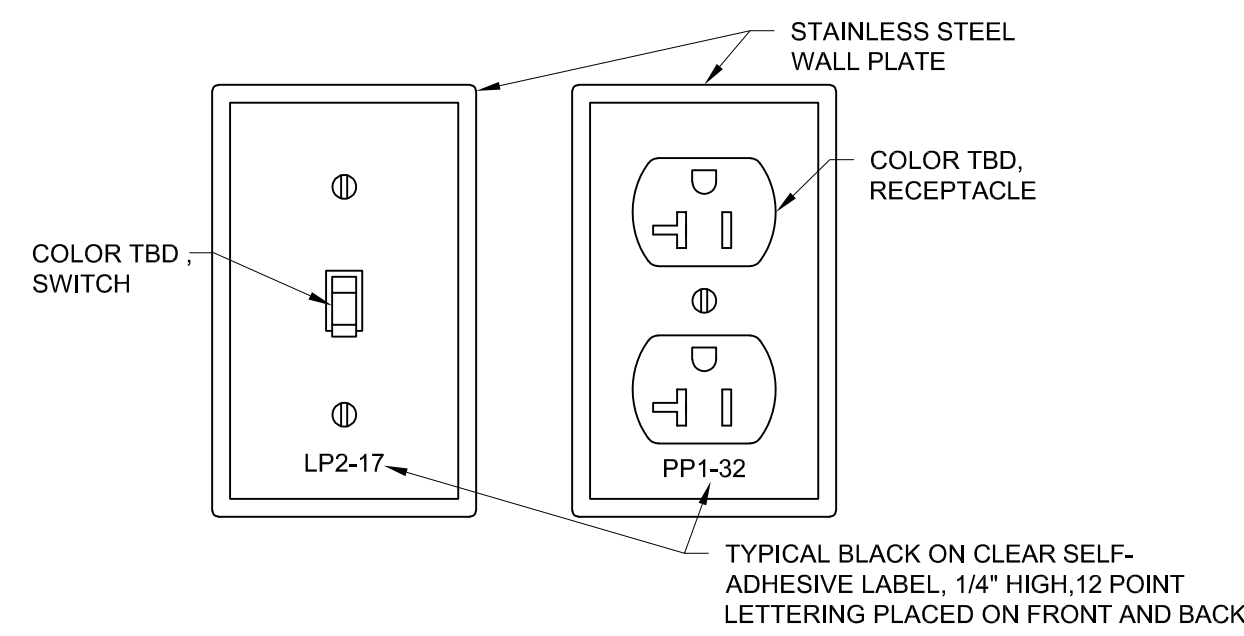
- NOT TO SCALE
- NOTES:
- IDENTIFY ALL NEW AND EXISTING NON-ADDRESSABLE FIRE ALARM DEVICES WITH THE NON-ADDRESS LOOP NUMBER.
 - IDENTIFY ALL NEW AND EXISTING ADDRESSABLE DEVICES WITH DEVICE ADDRESS.
 - INCREASE TEXT SIZE FOR DEVICES LOCATED ABOVE 10' AFF TO 1/2" HIGH 14 POINT LETTERING.

E



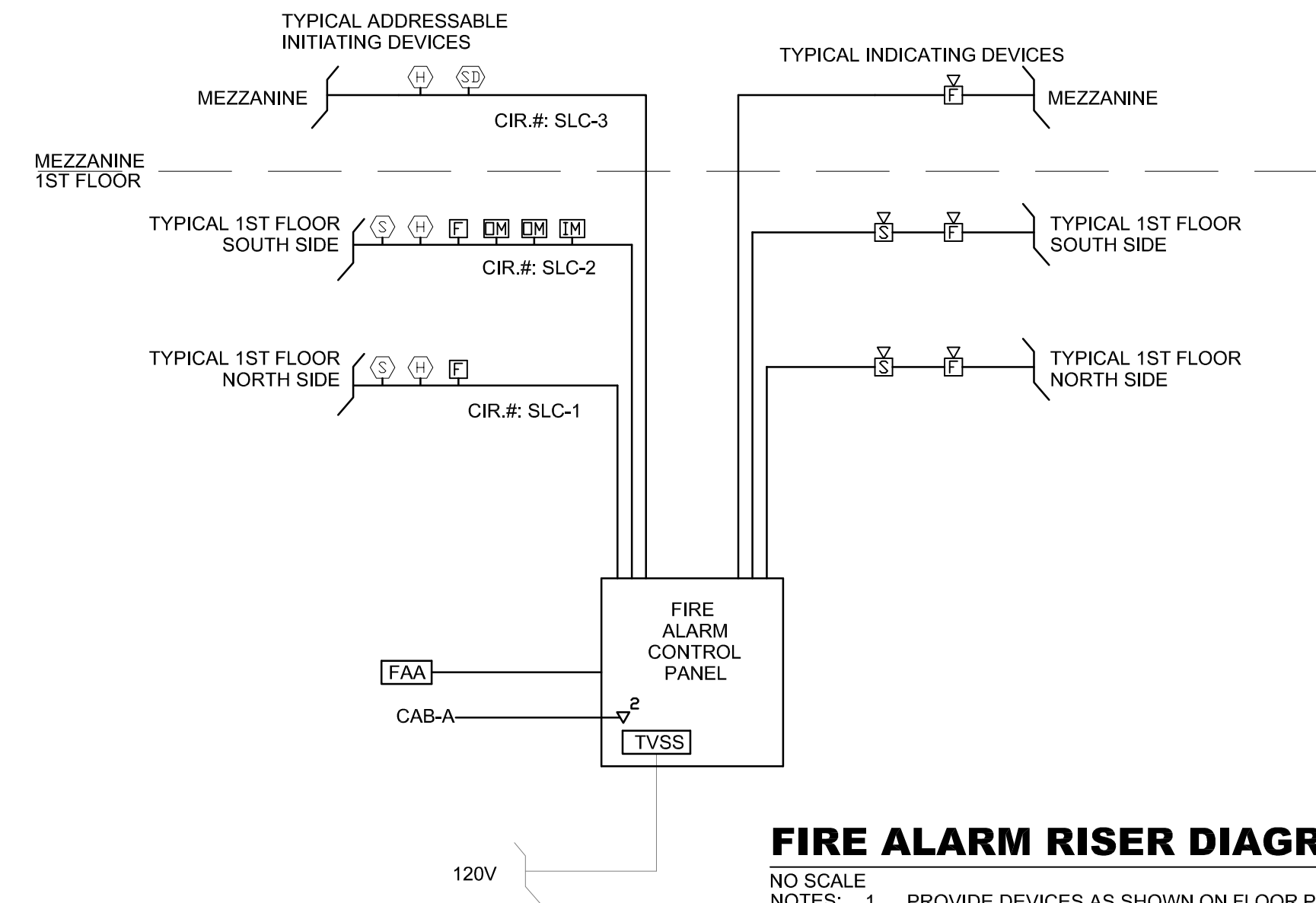
TYPICAL COMMON AREA DEVICE LAYOUT

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



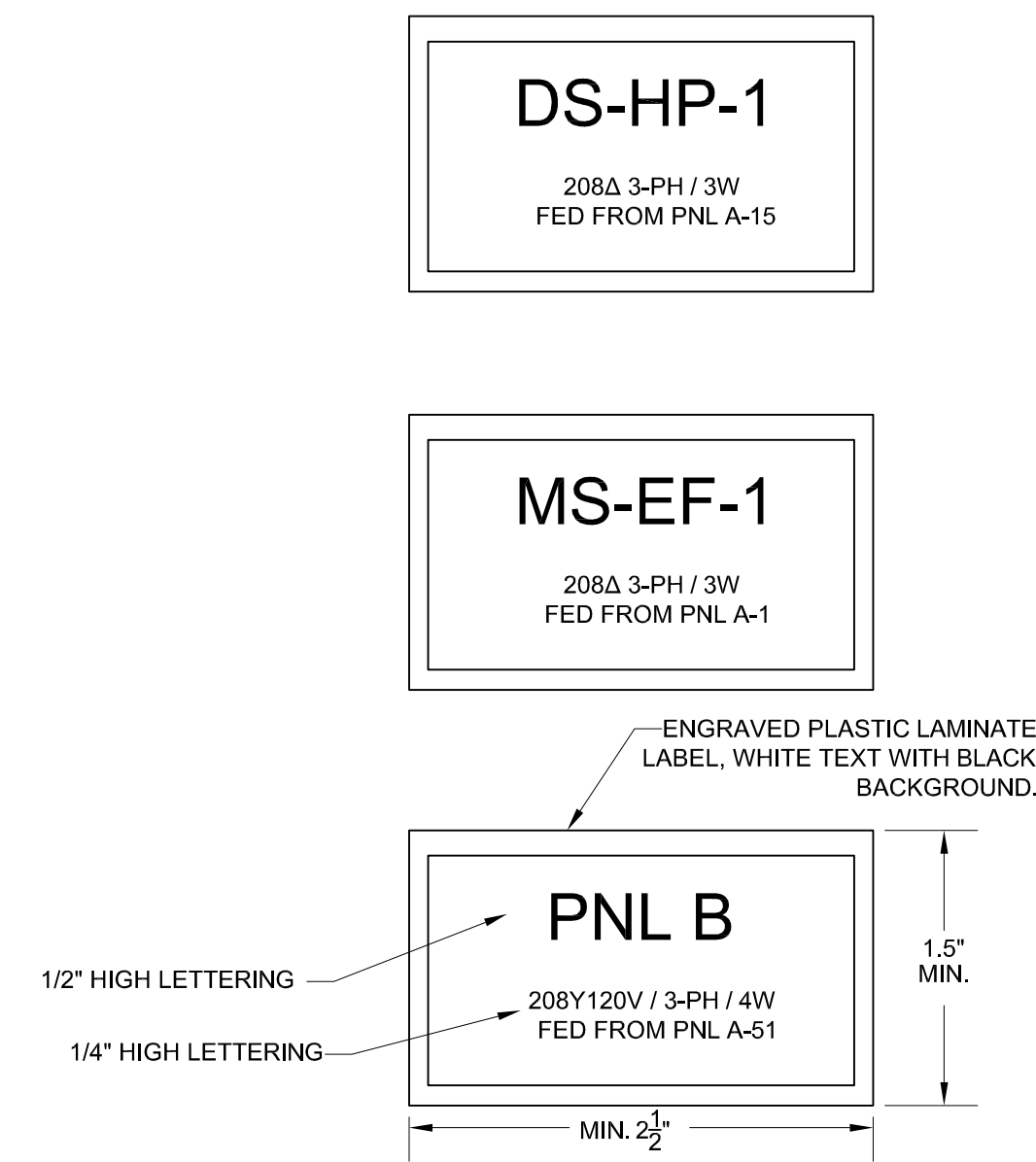
TYPICAL WIRING DEVICE DETAIL

SCALE: 6" = 1'-0"



FIRE ALARM RISER DIAGRAM

- NO SCALE
- NOTES:
- PROVIDE DEVICES AS SHOWN ON FLOOR PLANS.
 - CABLES SHALL BE PLENUM RATED, SIZE AND TYPE AS RECOMMEND BY MANUFACTURER, UNLESS SPECIFICATION ARE MORE STRINGENT.
 - PROVIDE MONITORING VIA CELLULAR DIAL OUT WITH NETWORK MONITORING AS REDUNDANT BACKUP.



TYPICAL EQUIPMENT LABEL DETAIL

- NOT TO SCALE
- NOTE: IDENTIFY PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS WITH ENGRAVED LABELS. VOLTAGE AND LOCATION EQUIPMENT IS FED FROM.

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VERY SCALE
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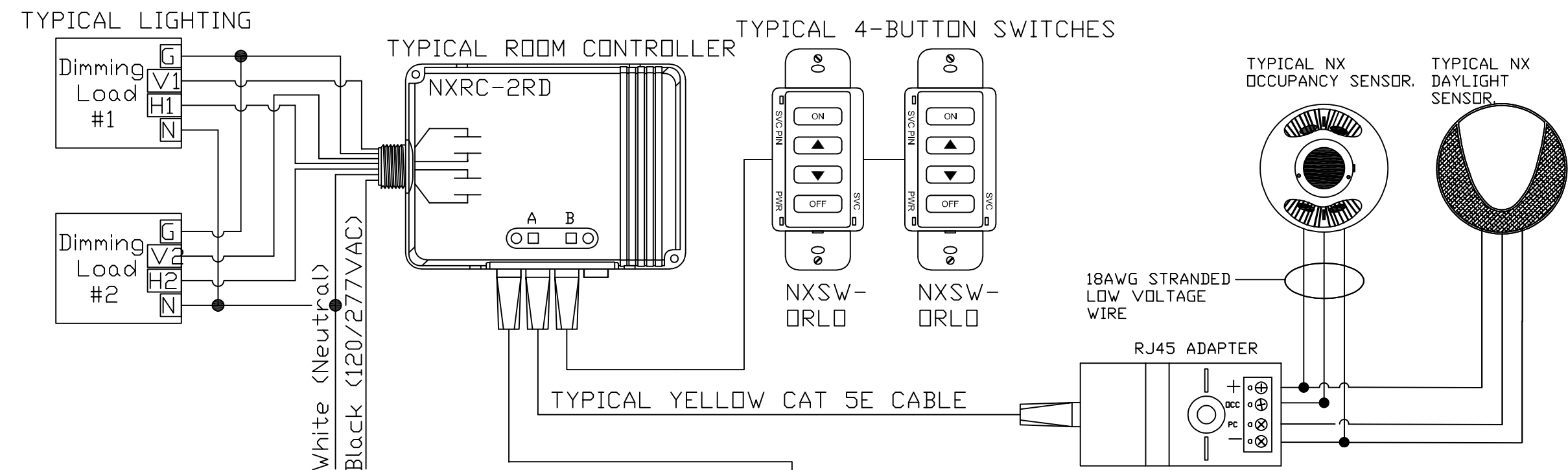
DETAILS

Sheet No.

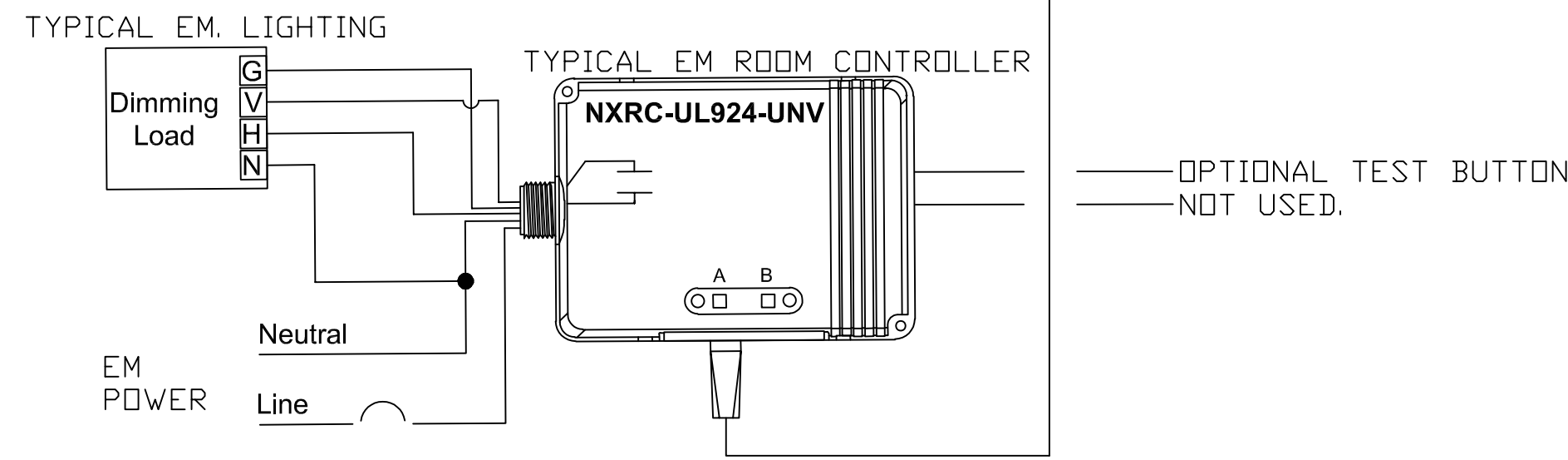
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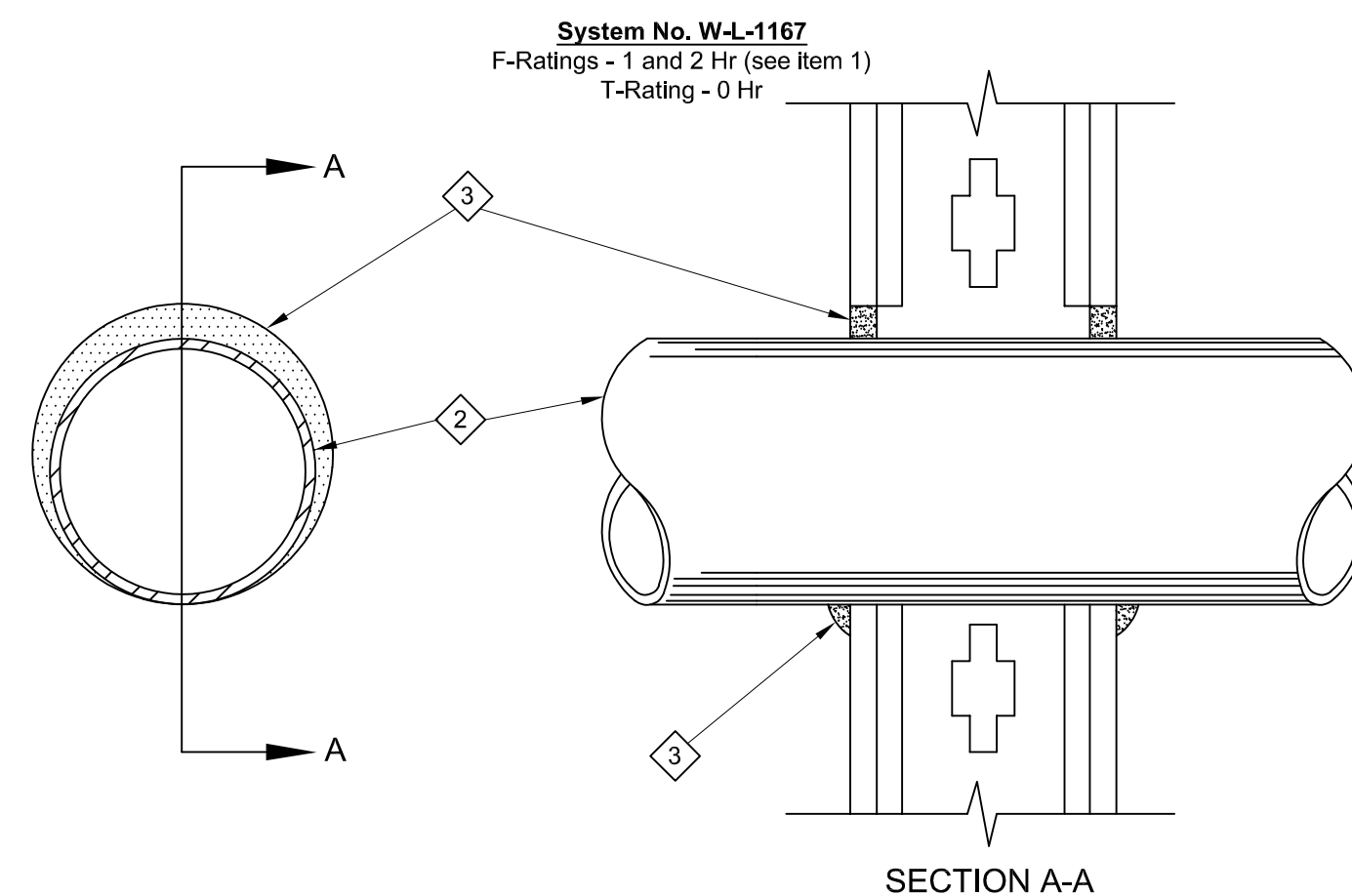
B



TYPICAL ROOM LIGHTING CONTROLS

NO SCALE

- NOTES:
- TYPICAL DEVICES SHOWN ABOVE, PROVIDE ALL DEVICES AND LIGHTING SHOWN ON DRAWINGS.
 - CABLES SHALL BE PLENUM RATED.
 - IN GANG TOILET ROOMS, LOBBY AREA AND THE GYM PROVIDE KEY SWITCHES. WHERE MORE THAN ONE SWITCH IS SHOWN IN THE SAME LOCATION, LOCATE SWITCHES UNDER A SINGLE COVERPLATE.

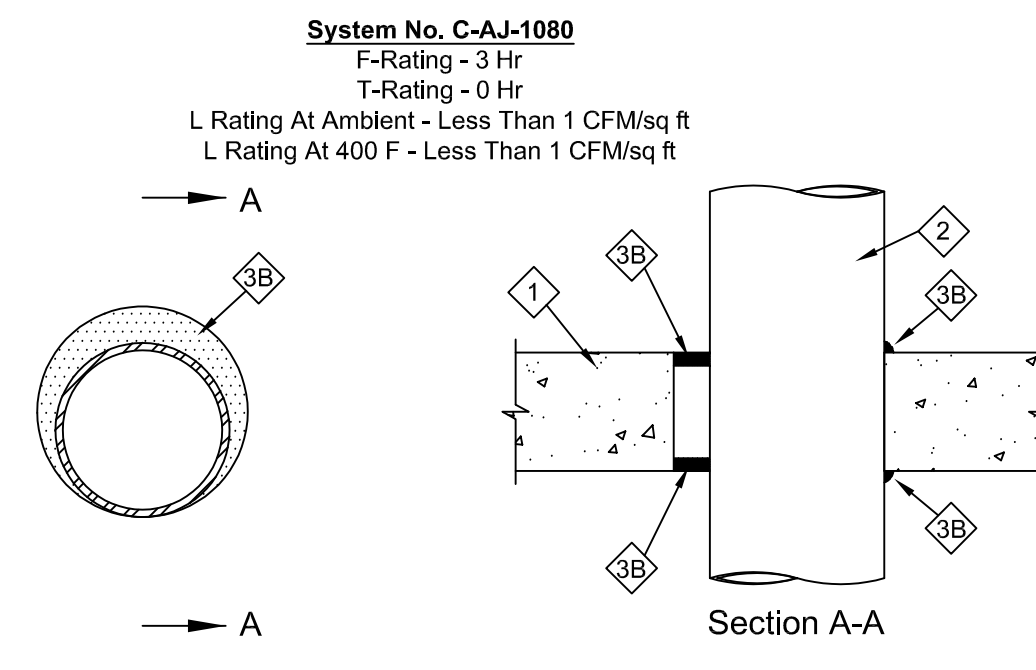


FIRE-RATED PENETRATION DETAIL

NO SCALE

- KEY NOTES**
- Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
 - Gypsum Board* - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 - Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 1-3/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe - Nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
 - Conduit - Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
 - Fill Void or Cavity Materials* - Caulk - Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall. MINNESOTA MINING & MFG CO - FD-150+

*Bearing the UL Classification Mark



FIRE-RATED PENETRATION DETAIL

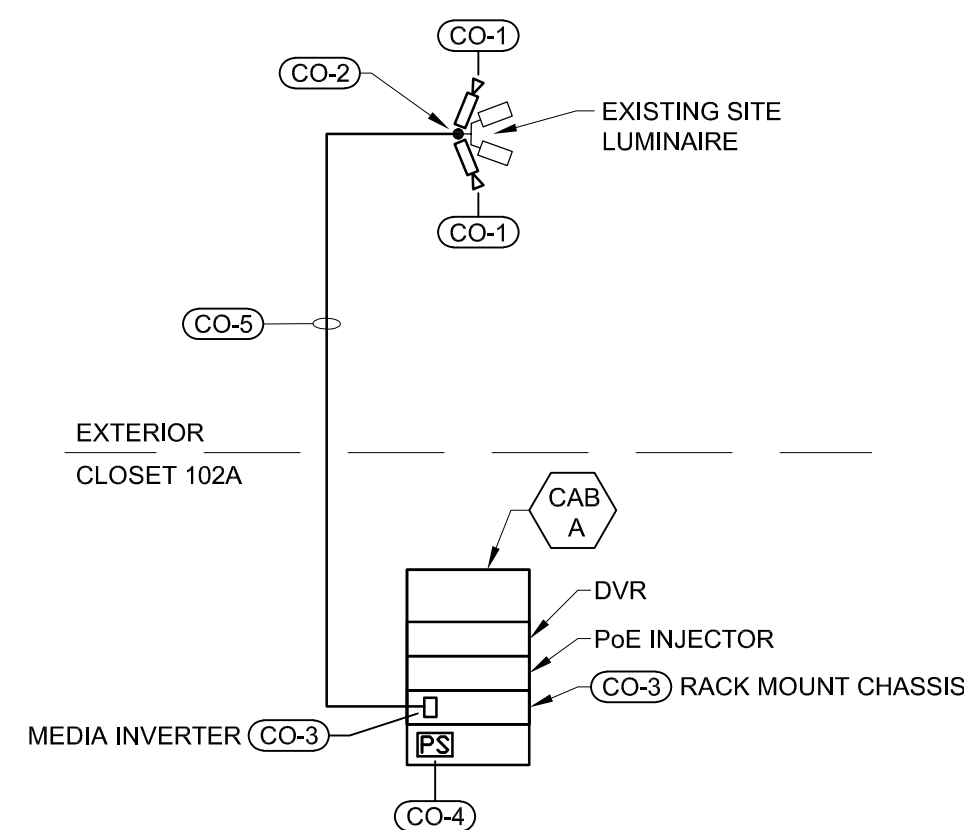
NO SCALE

- Floor or Wall Assembly - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall range from min 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 30 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) rigid galv steel conduit.
 - Copper Tubing - Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
 - Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System - The firestop system shall consist of the following:
 - Packing Material - (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber batt insulation friction fitted into annular space. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material* - Caulk - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location, apply min 1/4 in. diam bead of sealant at the pipe/concrete interface on the top surface of the floor or both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant

*Bearing the UL Classification Mark

C



TYPICAL SITE CAMERA WIRING DIAGRAM

NO SCALE

- NOTES:
- BASE BID SHOWN.
 - UNDER ALTERNATE, MAINTAIN CAMERA & MEDIA CONVERTER. PROVIDE NEW FIBER (CO-5) BETWEEN EACH CAMERA AND NVR.

Camera Equipment Schedule

Tag	*Equipment Type	Description	Mounting	Comments
CO-1	Pole Mounted Security Camera	New security camera mounted to existing pole	Arm-mounted to surveillance cabinet	Surveillance cabinet mounted to pole.
	Surveillance Cabinet	8" x 10" NEMA 4X rated IK10 impact-resistant	Mounted to pole	Used to house media converter.
CO-2	OmniConverter Media Converter Model #: 9519B-0-29W	2 Port OmniConverter GHPoEBT/S 2x10/100/1000T HPoEBT/PSE (60W per port) to 100/1000BASE-X SFP ;48VDC Wide Temp (-40 to 60 deg C)	In surveillance cabinet	Provide cat 6A cables between media converter and new cameras. Terminate fiber & power to converter.
CO-3	miConverter Rack Mount Chassis Model #: 1020-1	18-Slot miConverter Powered Chassis Universal 100-240VAC	Mount in CAB-A	Provide (2) 1093-1 blank panels for unused modules.
	miConverter Media Converter Model #: 1219-0-0	miConverter GX; 1000BT RJ45 to 1000B-X SFP; No Fw	Mount in chassis	Provide cat 6A cable jumper from media converter to switch. Terminate fiber, extend power conductors to power supply.
CO-4	Mean Well 960W Power Supply Model #: 9170-PS-960	Mean Well Single Output Industrial DIN RAIL mount; 180-264VAC input, 254-370VDC Input, 960W, 48VDC output	DIN rail	Mount in back of CAB-A, provide DIN rail terminal blocks for wiring from power supply to media converters.
CO-5	CommScope Powered Fiber Cable Model #: PFC-302012	Hybrid Fiber Cable with Copper, OPC		2-strand, OM3, 2-#12 copper conductors, LC fitting in raceway.

*Basis of design as indicated, or approved equal.

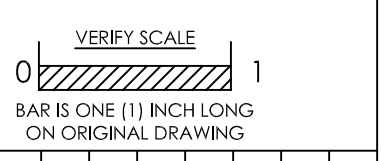
D

E

D'HUY Engineering, Inc.
 CONSULTING ENGINEERS:
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REBUILD - VINCENT G. PANATI
PLAYGROUND
 for
PPR/REBUILD PHILADELPHIA
 3101-27 N 22ND ST, PHILADELPHIA PA 19132



No.	Date	By	Description

Date: 02/09/2024
 Scale: AS NOTED
 Job No.: 725002
 Drawn: JCR Appd.: MCD

Sheet Title:
 DETAILS

Sheet No.
E7.3

A 208 Y/120V, 3Ø, 4W Mech 113

Circuit Num.	Poles	Size	Load (VA)	Description	A	B	C	Description	Load (VA)	Size	Poles	Circuit Num.
1	3	125	11529	DOAS-1 (outdoor HVAC unit)	12537			AHU-1, AHU-2B	1009	20	2	2
3	1	11529	11529	(Electrical Heating & Cooling)	12537				1009	20	2	4
5	1	11529	11529					DS-HP-1	3120	40	2	6
7	3	15	633	Kitchen Make-Up Air-1 (MAU-1)	3753			DS-HP-3	1456	30	2	10
9	1	633	633	(Electrical Heating & Cooling)		2089			1456	30	2	12
11	3	20	720	Musco Pole Lights P-01, P-02	3840			DS-HP-4	3120	45	2	14
13	1	720	720			3840			3120	20	2	16
15	3	20	360	Musco Pole Lights P-03	2360			Humidifier-H1	2000	25	3	18
17	1	360	360			2360			2000	20	2	20
19	2	20	1009	AHU-2A & AHU-4	2842				2000	20	2	22
21	3	60	3723	HP-2				4083 Hot water circulation pumps (2)	360	20	1	30
23	1	3723	3723		3903			Musco Control Panel Power	180	20	1	32
25	3	20	3723	Spare				Duct Coil DC-1	5333	60	3	34
27	3	20	0	Spare				18kW	5333	30	3	36
29	1	0	0	Spare				Integral SPD	5	30	3	40
31	1	20	0	Spare				5200KA	5	5	4	42
33	3	125	0	Spare					0	30	2	46
35	1	0	0	Spare					0	30	2	48
37	3	200	9080	PNL-B	18990			PNL-C	9910	200	3	50
39	1	9080	9080						10704	200	3	52
41	1	9080	9080						10576	200	3	54

Engraved panel label

Totals	53563	52433	51548
Totals derated	52566	51190	50010

Metal circuit directory holder
Circuit breaker panelboard
Hinged door-in-door cover
Bot-on breakers
200A MLO
NEMA 1 surface-mounted enclosure
25A SCCR (Minimum)
Ground bar

Fed from ECB-A

B 208 Y/120V, 3Ø, 4W General Storage 104

Circuit Num.	Poles	Size	Load (VA)	Description	A	B	C	Description	Load (VA)	Size	Poles	Circuit Num.
1	1	20	720	Recept. - Gym 105	1080			Recept. - Women 106	360	20	1	2
3	1	20	720	Recept. - Gym 107	1080			Recept. - Men 107	360	20	1	4
5	1	20	360	Recept. - Vest. 100, JC 108				Recept. - Multi-Purpose 109	720	20	1	6
7	1	20	720	Recept. - Lobby 101	1260			Recept. - Multi-Purpose 109	540	20	1	8
9	1	20	540	Recept. - Office 102		1260		Recept. - Maker Space 110	720	20	1	10
11	1	20	720	Recept. - Office 102			1440	Recept. - Maker Space 110	720	20	1	12
13	1	20	720	Recept. - 102B, 105A	1260			Recept. - Exterior	540	20	1	14
15	1	20	540	Recept. - Mech 112		900		Recept. - Mech 113	360	20	1	16
17	1	20	360	Recept. - Multi-Purpose 109			720	Recept. - Gym Storage 105B	360	20	1	18
19	1	20	360	Recept. - Multi-Purpose 109		720		E.W.C. & Vestibule 100 & Lobby 101	360	20	1	20
21	1	20	180	Recept. - Maker Space 110		1680		Electric Wall Heaters - EWH-1	1500	20	2	22
23	1	20	540	Recept. - Restroom 103, Stor. 104			2040	Electric Wall Heaters - EWH-2	1500	20	2	24
25	1	20	180	Recept. - Gen Stor 104	1680			Electric Wall Heaters - EWH-3	1500	20	2	26
27	1	20	180	Recept. - Gen Stor 104		1680		Electric Wall Heaters - EWH-3	1500	20	2	28
29	1	20	360	Hand dryer - Restroom 103			1860	Electric Wall Heaters - EWH-3	1500	20	2	30
31	1	20	360	Hand dryer - Mens 107	1860			Electric Wall Heaters - EWH-4	1500	20	2	32
33	1	20	360	Hand dryer - Womens 106		1860		Electric Wall Heaters - EWH-4	1500	20	2	34
35	1	20	360	Recept. - Maker Space 110	960		1860	Fire alarm panel - Gen. Stor 104	900	20*	1	36
37	1	20	360	Recept. - Maker Space 110		540		Inverter INV-H - Gen. Stor 104	180	20*	1	40
39	1	20	0	Spare			900	Gym - Powered Backstop	900	20	1	42
41	1	20	0	Spare			280	Spare	0	20	1	44
43	1	20	260	Lts - Mech 112, & Mech 113		0		Spare	0	20	1	46
45	1	20	0	Spare			0	Spare	0	20	1	48
47	1	20	0	Spare			0	Spare	0	20	1	50
49	1	20	0	Spare			0	Spare	0	20	1	52
51	1	20	0	Spare			0	Spare	0	20	1	54

Engraved panel label

Totals	9080	9000	9900
Totals derated	8407	8327	9227

Metal circuit directory holder
Circuit breaker panelboard
Hinged door-in-door cover
Bot-on breakers
225A MLO
NEMA 1 surface-mounted enclosure
10A SCCR
Ground bar

Fed from PNL-A

C 208 Y/120V, 3Ø, 4W General Storage 104

Circuit Num.	Poles	Size	Load (VA)	Description	A	B	C	Description	Load (VA)	Size	Poles	Circuit Num.
1	1	20	1100	Reach-In Refrigerator	1100			Spare	0	20	1	2
3	1	20	1000	Reach-In Freezer		1000		Spare	0	20*	1	4
5	1	20	540	General Purpose Receptacles			720	Dishwasher	180	20	1	6
7	1	20	180	General Purpose Receptacles	360			General Purpose Receptacles	180	20*	1	8
9	1	20	180	General Purpose Receptacles		180		Spare	0	20*	1	10
11	1	20	180	General Purpose Receptacles			1020	Recept. Kitchen	840	20	1	12
13	1	20	180	General Purpose Receptacles	4713			Range	4533	*50	3	14
15	3	15	900	Kitchen Fan		5433		Circuit thru shunt trip ECB-RNG	4533			16
17	1	900	3/4hp				5433	shunt control from hood (3 #12 in 3/4" C)	4533			18
19	1	900	900		900			Spare	0	*50	3	20
21	1	20	170	Lts - Rms 102, 103, 104, 102A, 105A		170		Spare	0			22
23	1	20	225	wireless			225	Spare	0			24
25	1	20	1152	Lights - Gym 105	1252			Lights - Exterior Sconce	100	20	1	26
27	1	20	1638	Lights - Multi-purpose 109		2430		Food Waste Disposer	792	*20	3	28
29	1	20	945	Lights - Rms 106A, 110 & 111			1737	2hp	792			30
31	1	20	242	Lights - Rms 105B, 106, 107, 108	1034			Spare	0			32
33	1	20	120	Existing Exterior Security Lighting		940		Kitchen hood	820	20	1	34
35	1	20	120	Existing Exterior Security Lighting			940	Kitchen hood	820	20	1	36
37	1	20	120	Existing Exterior Security Lighting	300			Kitchen hood	180	20	1	38
39	2	20	120	Existing Exterior Security Lighting		300		Kitchen hood Ansul system	180	20	1	40
41	1	20	0	Spare			0	Spare	0	20	1	42
43	1	20	0	Spare		0		Spare	0	20	1	44
45	1	20	0	Spare			0	Spare	0	20	1	46
47	2	20	125	Existing Exterior Sports Lighting			250	Existing Exterior Sports Lighting	125	20	2	48
49	2	20	125	Existing Exterior Sports Lighting		250		Existing Exterior Sports Lighting	125	20	2	50
51	2	20	125	Existing Exterior Sports Lighting			250	Existing Exterior Sports Lighting	125	20	2	52
53	2	20	125	Existing Exterior Sports Lighting			250	Existing Exterior Sports Lighting	125	20	2	54

Engraved panel label

Totals	9910	10704	10576
Totals derated	9686	10134	9712

Metal circuit directory holder
Circuit breaker panelboard
Hinged door-in-door cover
Bot-on breakers
225A MLO
NEMA 1 surface-mounted enclosure
10A SCCR
Ground bar

Fed from PNL-A

Lighting Control Panel LCA

Relay	Circuit	Load (VA)	Zone	Description	Initial Time Schedule	Notes
1	C-47-49			Existing Exterior Sports Lighting	Manual On, Off 10PM	
2	C-48-50	2000		Existing Exterior Sports Lighting	Manual On, Off 10PM	
3	C-51-53	2000		Existing Exterior Sports Lighting	Manual On, Off 10PM	
4	C-52-54	2000		Existing Exterior Sports Lighting	Manual On, Off 10PM	
5	C-33	120		Existing Exterior Security Lighting	Manual On, Off 10PM	Track Lights
6	C-35	120		Existing Exterior Security Lighting	Manual On, Off 10PM	Track Lights
7	C-37	120		Existing Exterior Security Lighting	Manual On, Off 10PM	Playground Lights
8	C-39	120		Existing Exterior Security Lighting	Manual On, Off 10PM	Playground Lights
9				Spare		
10				Spare		
11				Spare		
12				Spare		

*Time schedule shown for reference only. Provide Owner furnished time schedule.

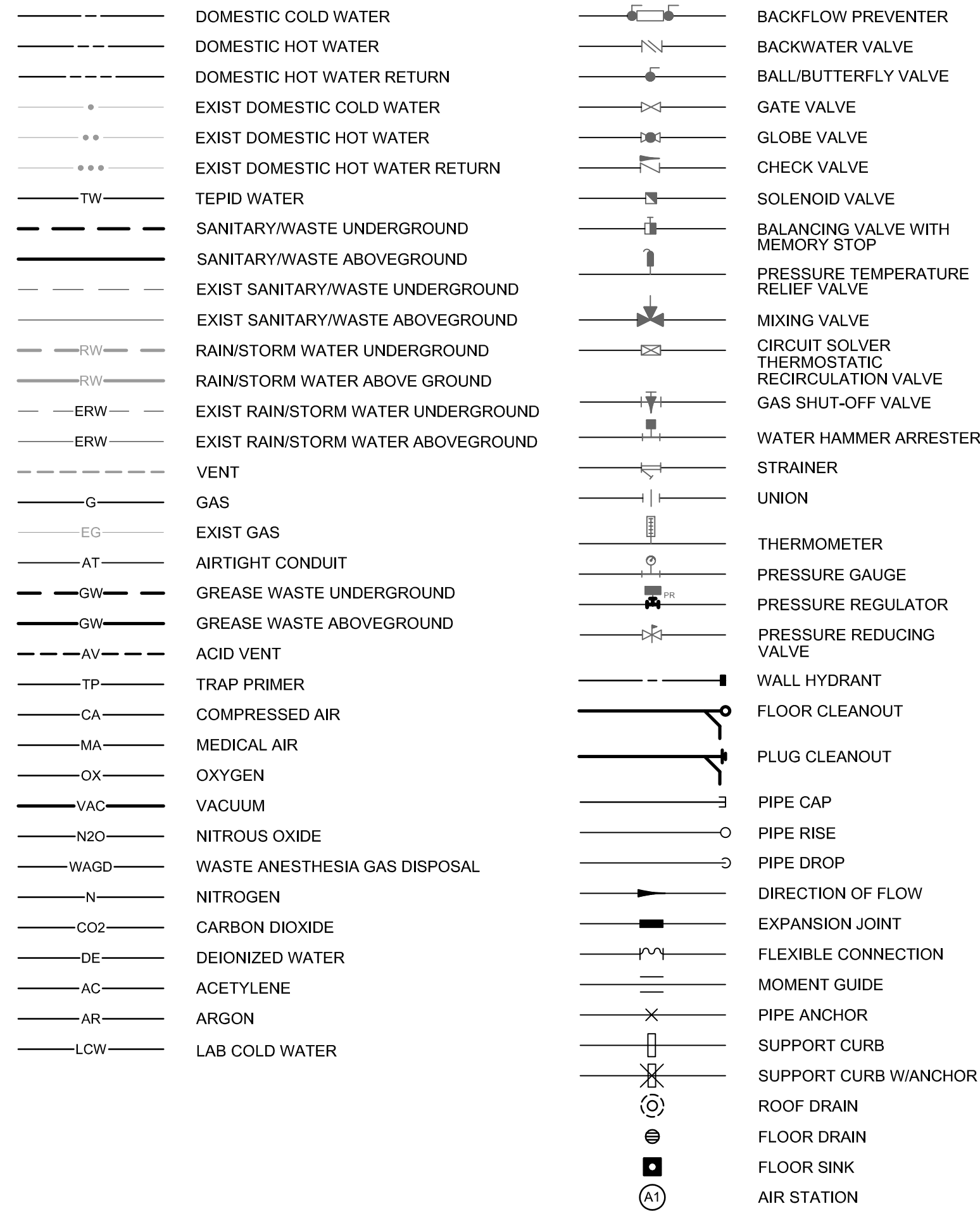
Luminaire Schedule
1. All luminaires must be listed and labeled by an NRTL, as required by the NEC.

Type	Manuf.	Model	Mounting	Description	Source	Color	CRB	Lumens	Lumen Maint	Driver	Voltage	VA	W
**A4	Axis	SLIM 2xSurroundLite	Pendant	4' L x 8' W, direct/indirect linear fixture, clear top cover with batwing distribution, 2 circuits for direct/indirect, frosted lower lens, mounting height and mounting hardware as coordinated with architectural drawings and architect, aluminum or other standard finish selection by Architect, grey cord, stainless steel adjustable cable, sloped ceiling mounting hardware	LED	3500K	80	4000 up / 3000 dwn	L70 60,000hr	0-10V dim	120-277V	91	79.5
**A8	Axis	SLIM 2xSurroundLite	Pendant	8' L x 8' W, Direct/indirect linear single section fixture, clear top cover with batwing distribution, 2 circuits for direct/indirect, frosted lower lens, mounting height and mounting hardware as coordinated with architectural drawings and architect, aluminum or other standard finish housing and canopy cover selection by Architect, grey cord, stainless steel adjustable cable, sloped ceiling mounting hardware	LED	3500K	80	8000 up / 6000 dwn	L70 60,000hr	0-10V dim	120-277V	183	159
**B	Lithonia	CSS	Surface	4' single strip LED fixture, high gloss baked white enamel finish, diffused acrylic lens, wire guard, welded end caps, adjustable aircraft cable hangers, 131L/W	LED	3500K	80	4,732	L70 60,000hr	0-10V dim	120-277V	41	36
**C	1st Source	LHB2	Surface (see description)	2'x2' LED gym linear high bay fixture, white aluminum housing, coated white wire cage, diffused acrylic lens, safety cable for luminaire and cage secured to structure, provide surface mounted fixture secured to slotted steel supports between joists or pendant mounted fixture with adjustable aircraft cable at 4 points to building structure/support hardware above as directed by architect	LED	3500K	80	15,528	L70 60,000hr	0-10V dim	120-277V	144	125
**D1	Gotham	EVO45Q	Recessed	4" architectural square downlight, wide distribution, semi-specular reflector finish, new construction housing, custom RAL color flange, wet location under canopy listed, bar hangers supported to structure	LED	3500K	80	1000	L80 60,000hr	0-10V dim	120-277V	15	12
**D2	Gotham	EVO45Q	Recessed	4" architectural square downlight, medium distribution, semi-specular reflector, custom RAL color flange, wet location under canopy listed, gasketed, remote driver, new construction housing	LED	3500K	80	1,500	L80 60,000hr	0-10V dim	120-277V	24	19
**E	Lithonia	IE	Surface	Single-faced exit sign, universal mount, white die-cast aluminum housing or as directed, red lettering, concealed chevron knockouts, AC-only, white wire guard option for signs located in the gym	LED	-	-	-	-	-	120-277V	3	3
E2	Emergi-Lite	Preceptor	Surface	Double-faced exit sign, universal mount, white die-cast aluminum housing or as directed, red lettering, concealed chevron knockouts, AC-only, white wire guard option for signs located in the gym	LED	-	-	-	-	-	120-277V	3	3
F	Axis	Beam 4	Recessed	Linear with flush diffuse lens, 4" aperture, length, lumens, and drivers as noted below, direct distribution, flat end caps, single circuit, visible flange mounting unless directed otherwise by Architect, custom color finish as directed by Architect, 1/2" L x 1/2" W, threaded rod support from building structure above	LED	3500K	80	-	L70 60,000hr	0-10V dim	120-277V	-	-
F6	Axis	Beam 4	Recessed	Luminaire type F, 500L/FT, 6' length. Provide 2 additional full length lens as attic stock.	LED	3500K	80	3,000	L70 60,000hr	0-10V dim	120-277V	30	29.4
*F8	Axis	Beam 4	Recessed	Luminaire type F, 725L/FT, 8' length. Provide 2 additional full length lens as attic stock.	LED	3500K	80	5,800	L70 60,000hr	0-10V dim	120-277V	60	56.8
F10	Axis	Beam 4	Recessed	Luminaire type F, 500L/FT, 10' length. 1 driver for normal lighting (50% output) and 1 driver for emergency lighting (50% output). Provide 2 additional full length lens as attic stock.	LED	3500K	80	5,000	L70 60,000hr	0-10V dim	120-277V	50	49
*F12	Axis	Beam 4	Recessed	Luminaire type F, 500L/FT, 12' length. Provide 2 additional full length lens as attic stock.	LED	3500K	80	6,000	L70 60,000hr	0-10V dim	120-277V	60	58.8
**G	Lithonia	WDGE1	Surface	LED architectural wall sconce, rectilinear design, visual comfort wide throw distribution, 0-10V dimming standard color selection by Architect, B (0) U (0) G (0) rating, mounting height as coordinated	LED	4000K	80	1,200	L70 60,000hr	0-10V dim	120-277V	13	10
H	Emergi-Lite	EM1U-1000-4-LD-AD	Surface	1000W high capacity mini inverter, high efficiency sine wave inverter, temperature compensated charger, replaceable charger output fuse protection, low battery voltage disconnect, UL 924 listed, advanced diagnostics - audible, 4-outputs, 12V valve regulated lead-acid (VRLA) batteries, see INV-H schedule	-	-	-	-	-	-	120-277V	115	100
*J12	Axis	Pinnacle	Pendant	12' L x 3' W, direct/indirect linear consisting of 2 6' sections joined, clear high efficiency top cover, 2 circuits for direct/indirect, high efficiency lower lens, mounting height and mounting hardware as coordinated with architectural drawings and architect, aluminum or other standard finish housing and canopy cover selection by Architect, grey cord, stainless steel adjustable cable, hard sloped ceiling mounting hardware suitable for ceiling shown on architectural drawings	LED	3500K	80	900					

GENERAL PLUMBING NOTES

- 1. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES.
2. THE PLUMBING DRAWINGS SHALL BE CONSIDERED AS BEING DIAGRAMMATIC AND ARE NOT TO BE SCALED FOR THE ACCURATE CUTTING OF PIPE OR ITS EXACT PLACEMENT, BUT THEY SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT.
3. ALL FIXTURES SHALL BE COMPLETE AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. TRAPS FOR ALL LAVATORIES AND SINKS SHALL BE REMOVABLE. LOCATE VALVES IN A READILY ACCESSIBLE LOCATION. ALL EXPOSED WASTE AND SUPPLY PIPING LOCATED IN FINISHED AREAS SHALL BE CHROME PLATED BRASS.
4. REFER TO THE RISER DIAGRAMS FOR ALL PIPE SIZES AND PIPING NOT SHOWN ON THE PLANS. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL WASTE PIPING BELOW GRADE SHALL BE A MINIMUM OF 2" IN SIZE.
5. SECURE ALL PERMITS, INSPECTION CERTIFICATES, METER DEPOSITS, TAPS AND TAP FEES, ETC., AND PAY ALL CHARGES CONNECTED WITH SAME.
6. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AT SITE.
7. ALL PIPING, APPARATUS, EQUIPMENT, ETC. SHALL BE PROPERLY SUPPORTED, BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH APPLICABLE CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.
8. ALL VALVES, CLEANOUTS, ETC., SHALL BE LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS.
9. PROVIDE CLEANOUTS ON ALL ACCESSIBLE TRAPS, AT THE BASE OF ALL SOIL/WASTE STACKS AND RAINWATER CONDUCTORS, AT EACH CHANGE OF DIRECTION OF PIPING GREATER THAN 45 DEGREES AND LOCATED AT INTERVALS NOT TO EXCEED THE MAXIMUM PERMITTED BY THE APPLICABLE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.
10. STERILIZE NEW DOMESTIC WATER PIPING AND PORTIONS OF THE EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USING. COMPLY WITH PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR, IN THE ABSENCE OF PRESCRIBED METHOD, THE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN THE APPLICABLE PLUMBING CODE. FURNISH STERILIZATION REPORT TO ENGINEER UPON COMPLETION.
11. ALL DOMESTIC WATER PIPING SHALL BE HUNG LEVEL WITHOUT PITCH.
12. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PREVENT CONTACT WITH OTHER METALS.
13. WATER PIPING SHALL NOT BE RUN IN AREAS SUBJECT TO FREEZING TEMPERATURES. WATER PIPING IN EXTERIOR WALLS SHALL BE RUN ON CONDITIONED SIDE OF THE INSULATION.
14. ALL WATER PIPING SHALL BE INSULATED AND ALL WATER PIPING INSTALLED ABOVE THE CEILING SHALL BE BELOW THE BUILDING INSULATION.
15. PROVIDE WATER HAMMER ARRESTERS AS REQUIRED AND AS SHOWN ON THE DRAWINGS.
16. PROVIDE DRAIN VALVES AT ALL LOW POINTS OF DOMESTIC WATER PIPING SYSTEMS FOR COMPLETE DRAINAGE AND INDICATE LOCATION OF SAME ON RECORD DRAWINGS.
17. PROVIDE VACUUM BREAKERS AS REQUIRED BY CODE.
18. ALL PLUMBING FIXTURES MUST BE VENTED IN ACCORDANCE WITH APPLICABLE PLUMBING CODE INCLUDING LOCAL CODES.
19. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, FIXTURES, WALL DIMENSIONS, ETC.
20. THE ARCHITECTURAL DRAWINGS, INCLUDING INTERIOR ELEVATIONS, SHALL GOVERN THE ARRANGEMENT, LOCATION, AND MOUNTING HEIGHTS OF ALL FIXTURES AND EQUIPMENT, BUT NOT TO THE EXTENT OF PERMITTING ANY OMISSIONS OF FIXTURES OR EQUIPMENT SHOWN ON THE PLUMBING DRAWINGS. ANY DISCREPANCY BETWEEN THE DRAWINGS, OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER.
21. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RESISTANT CAULKING/MATERIALS.
22. COORDINATE FINAL FLOOR DRAIN LOCATIONS WITH ALL EQUIPMENT CONCRETE PADS, TOILET ROOM PARTITIONS, FURNITURE, ETC. OBTAIN EXACT LOCATIONS FROM ALL OTHER CONTRACTORS PRIOR TO INSTALLING DRAINS.
23. CAULK AROUND ALL PLUMBING FIXTURES INSTALLED. CAULK SHALL BE NON-HARDENING, NON-YELLOWING, MILDEW RESISTANT SILICONE AND IN A COLOR SELECTED BY THE ARCHITECT.
24. ANY REFERENCE TO "GC" OR "GENERAL CONTRACTOR" SHALL MEAN THE APPROPRIATE GENERAL TRADES CONTRACTOR. THIS REFERENCE IS NOT TO OUTLINE WORK AMONG GENERAL TRADES CONTRACTORS, BUT TO NOTE WHAT WORK IS NOT A PART OF THE PLUMBING CONTRACT.
25. ALL POTABLE WATER PIPING, DEVICES AND EQUIPMENT SHALL BE NSF-61 COMPLIANT.
26. NO DEAD-LEG SUPPLY (3X PIPE DIA. MAXIMUM) SHALL BE IN PLACE UPON COMPLETION OF PROJECT.
27. ACCESS TO BOTH EXISTING AND NEW VALVES AND TO EQUIPMENT WHICH WILL REQUIRE ROUTINE MAINTENANCE WILL BE THRU ACOUSTIC CEILINGS WHEREVER POSSIBLE. LOCATE VALVES AND EQUIPMENT TO FACILITATE SUCH ACCESS. WHERE ACCESS CANNOT BE GAINED THRU SUSPENDED CEILINGS, GC IS TO PROVIDE ACCESS PANELS OR DOORS FLUSH WITH CEILING.

PLUMBING SYMBOLS



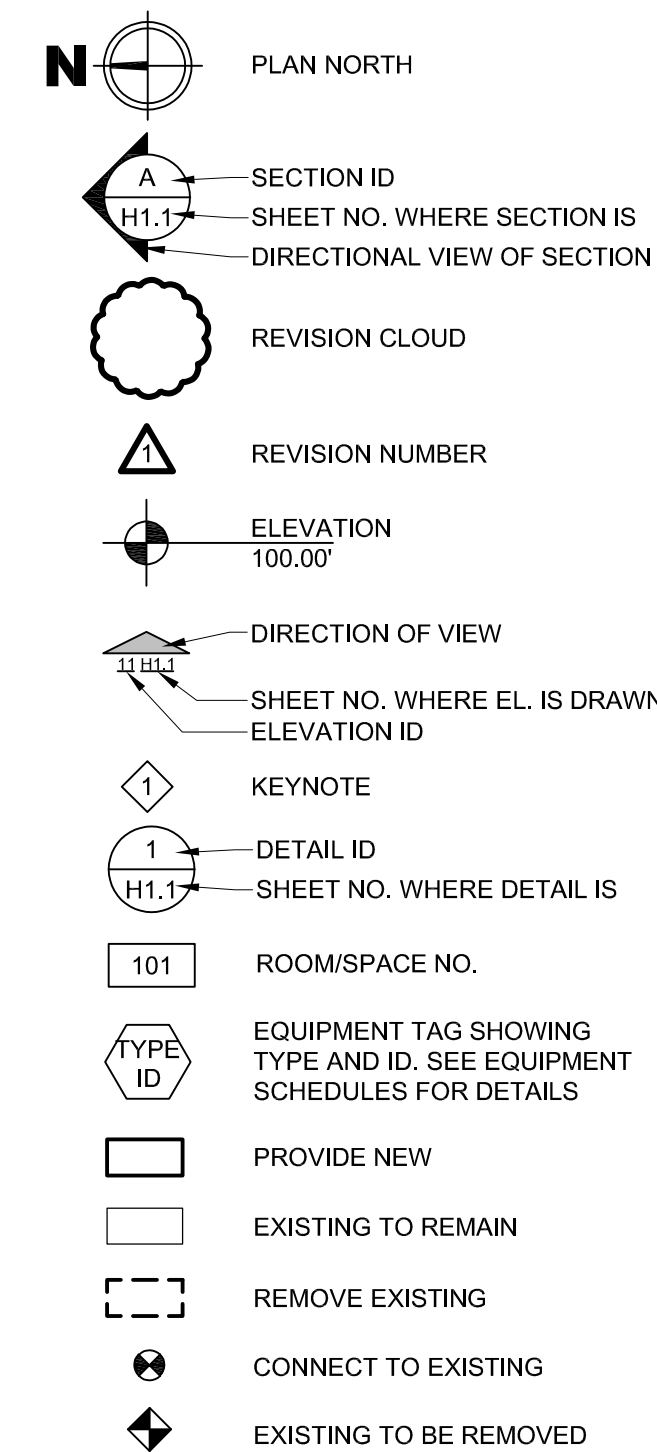
COMMON ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like A/E ARCHITECT/ENGINEER, AB CLG ABOVE CEILING, ABV ABOVE, AFF ABOVE FINISHED FLOOR, AFI ARC-FAULT INTERRUPTER, AFR ABOVE FINISHED ROOF, ALT ALTERNATE, ATS AUTOMATIC TRANSFER SWITCH, BFC BELOW FINISHED CEILING, CIG COUNTERTOP GFI, CD CORD DROP, CL CENTERLINE, CLG CEILING, CM CEILING MOUNTED, COL COLUMN, CT COUNTERTOP HEIGHT-44" AFF UNO OR CURRENT TRANSFORMER, CR CORD REEL, DBF DOWN BELOW FLOOR, DET DETAIL, DIA DIAMETER, DIM DIMENSION, DL DOOR LOUVER, DN DOWN, DW DISHWASHER, DWG DRAWING, EC ELECTRICAL CONTRACTOR, EL ELEVATION, ELEV ELEVATOR, EMER EMERGENCY, EO EMERGENCY ONLY (NORMALLY OFF), EWC ELECTRIC WATER COOLER (PROVIDE GFI RECEPTACLE), EX EXISTING, FA FIRE ALARM, FBO FURNISHED BY OWNER, FLR FLOOR, FPC FIRE PROTECTION CONTRACTOR, FSC FOOD SERVICE CONTRACTOR, GC GENERAL CONTRACTOR, GFI GROUND-FAULT INTERRUPTER, GND GROUND, HC HVAC CONTRACTOR, HCP HANDICAPPED, HGT HEIGHT, HR HOUR, IR INFRARED, JB JUNCTION BOX, KES KITCHEN EQUIPMENT SUPPLIER, LV LOW-VOLTAGE, MC MECHANICAL CONTRACTOR, MCA MINIMUM CIRCUIT AMPACITY, MOCP MAXIMUM OVERCURRENT PROTECTION, MT MULTITECHNOLOGY, MO MICROWAVE OVEN, NA NOT APPLICABLE, NE NORMAL/EMERGENCY (NORMALLY ON), NIC NOT IN CONTRACT, NTS NOT TO SCALE, OFCI OWNER FURNISHED-CONTRACTOR INSTALLED, PC PLUMBING CONTRACTOR, PIR PASSIVE INFRARED, REC RECESSED, SE SERVICE ENTRANCE, SECT SECTION, SHT SHEET, SIM SIMILAR, SPD SURGE PROTECTION DEVICE, SPEC SPECIFICATION, SS SERVICE SINK, STD STANDARD, SUSP SUSPENDED, TBR TO BE REMOVED, TL TASK LIGHT, TR TAMPER RESISTANT, TSTAT THERMOSTAT, UNO UNLESS NOTED OTHERWISE, US ULTRASONIC, W/ WITH, W/O WITHOUT, W WALL-MOUNTED, WP WEATHERPROOF.

PLUMBING ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like AD AREA DRAIN, AFG ABOVE FINISHED GRADE, AFR ABOVE FINISHED ROOF, AV ACID VENT, AW ACID WASTE, BFG BELOW FINISHED GRADE, BFP BACKFLOW PREVENTER, BLW BELOW, BOP BOTTOM OF PIPE, BOTT BOTTOM, BTUB BATHTUB, CA COMPRESSED AIR, CD CONDENSATE DRAIN, CFH CUBIC FEET PER HOUR, CIP CAST IRON PIPE, CO CLEAN OUT, CW COLD WATER, DF DRINKING FOUNTAIN, DIP DUCTILE IRON PIPE, DS DOWNSPOUT, DSN DOWNSPOUT NOZZLE, EEW EMERGENCY EYEWASH, ESH EMERGENCY SHOWER, ESE EMERGENCY SHOWER/EYEWASH, EWC ELECTRIC WATER COOLER, EXT EXTERIOR, FD FLOOR DRAIN, FDN FOUNDATION, FS FLOOR SINK, FT FEET, FT HD FEET OF HEAD, FTG FOOTING, GALV GALVANIZED, GH GROUND HYDRANT, GI GREASE INTERCEPTOR, GS GREASE SEPARATOR, GSV GAS SOLENOID VALVE, HB HOSE BIBB, HOR HORIZONTAL, HTG HEATING, HW HOT WATER, HWH HOT WATER HEATER, HWR HOT WATER RETURN, ID INSIDE DIAMETER, INSUL INSULATION, INT INTERIOR, INV INVERT, IW INDIRECT WASTE, KW KILOWATT, LAV LAVATORY, LBS POUNDS, LMB LAUNDRY MACHINE BOX, MFG MANUFACTURER, MB MOP BASIN, MBH 1,000 BTU, MV MIXING VALVE, OD OUTSIDE DIAMETER, ORD OVERFLOW ROOF DRAIN, P PRESSURE GAUGE, PD PRESSURE DROP, PRV PRESSURE REDUCING VALVE, PSIG POUNDS PER SQUARE INCH GAUGE, RCP REINFORCED CONCRETE PIPE, RD ROOF DRAIN, RP RECIRCULATING PUMP, RPM REVOLUTIONS PER MINUTE, RWC RAINWATER CONDUCTOR, S SOIL LINE/STACK, SAN SANITARY SEWER, SK SINK, SH SHOWER, SI SOLIDS INTERCEPTOR, SS SERVICE SINK, T THERMOMETER, TD TRENCH DRAIN, TW TEPID WATER, UR URINAL, V VENT, VER VERTICAL, VTR VENT THRU ROOF, W WASTE, WC WATER CLOSET, WCO WALL CLEAN OUT, WF WASHFOUNTAIN, WH WALL HYDRANT, WHA WATER HAMMER ARRESTER, WSV WATER SOLENOID VALVE.

COMMON SYMBOLS



DRAWING LIST

Table with 2 columns: No., Description. Lists drawing sheets: P0.1 COVER SHEET, P1.1 SITE PLAN, P2.1 FLOOR PLAN-DRAINAGE, P2.2 ROOF & MEZZANINE PLANS, P3.1 FLOOR PLAN-SUPPLY, P7.1 DETAILS, P8.1 SCHEDULES, H0.1 COVER SHEET, H2.1 FLOOR PLAN, H2.2 ROOF PLAN, H7.1 DETAILS, H8.1 DETAILS & SCHEDULES, E0.1 COVER SHEET, E0.2 ELECTRICAL NOTES, E0.3 SITE PLAN - DEMOLITION, E0.4 SITE PLAN - NEW, E2.1 FLOOR PLAN - LIGHTING, E3.1 FLOOR PLAN - POWER, E4.1 FLOOR PLAN - LOW-VOLTAGE, E5.1 MEZZANINE PLANS, E7.1 DETAILS, E7.2 DETAILS, E7.3 DETAILS, E8.1 SCHEDULES.

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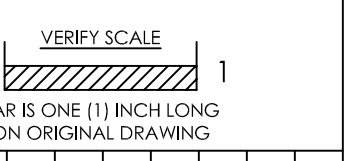


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Date 02/09/2024 Scale: AS NOTED Job No. 725002 Drawn: JH Appd.: NRZ

Sheet Title: COVER SHEET

Sheet No. P0.1

NOT FOR CONSTRUCTION

1

2

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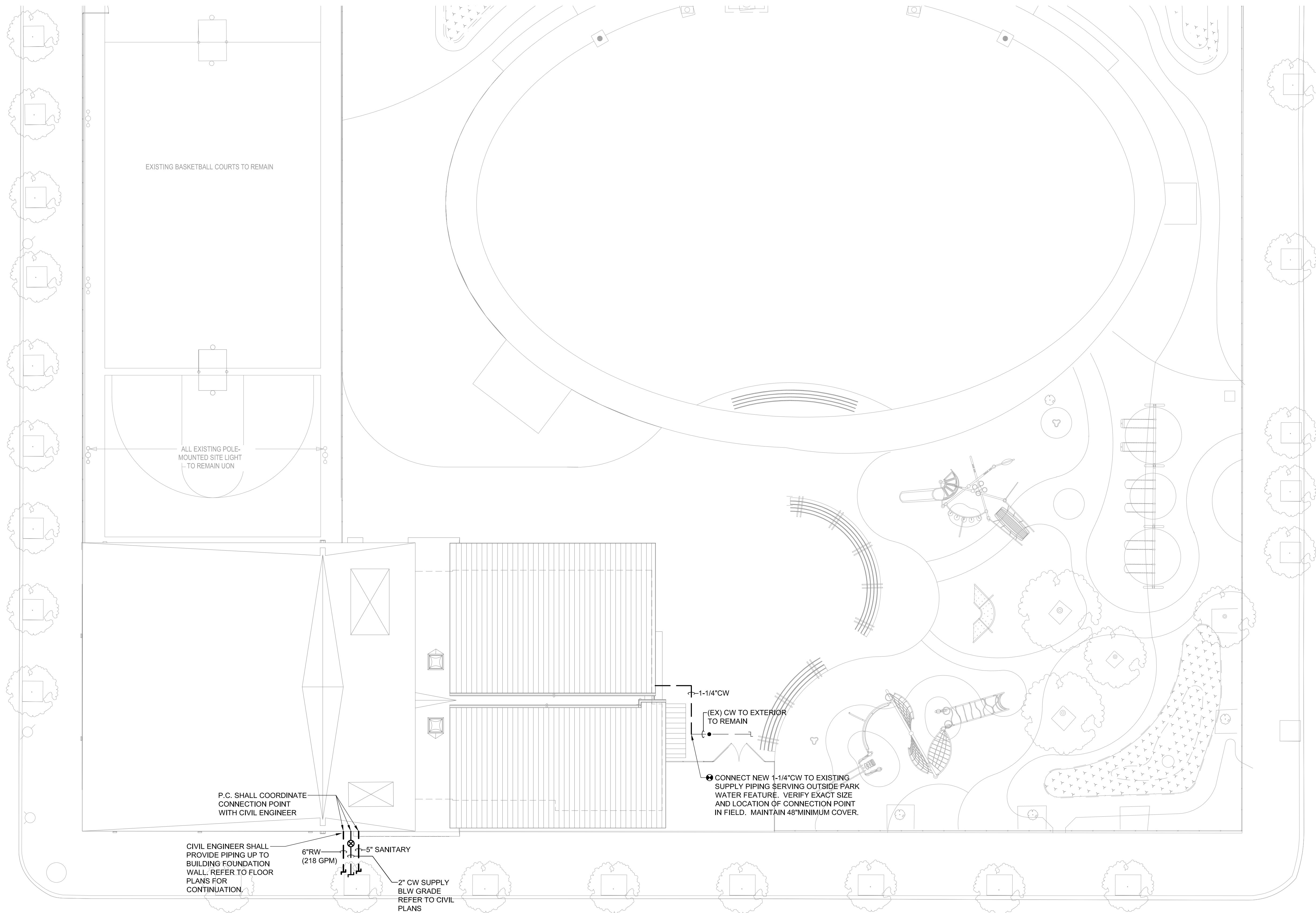
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E



SITE PLAN

0 2' 5' 10' 20'

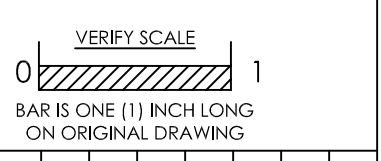
Scale: 1" = 10'-0"

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No.	Date	By	Description

Date: 02/09/2024
 Scale: AS NOTED
 Job No.: 725002
 Drawn: JH Appd.: NRZ

Sheet Title:
SITE PLAN

Sheet No.
P1.1

NOT FOR CONSTRUCTION

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2

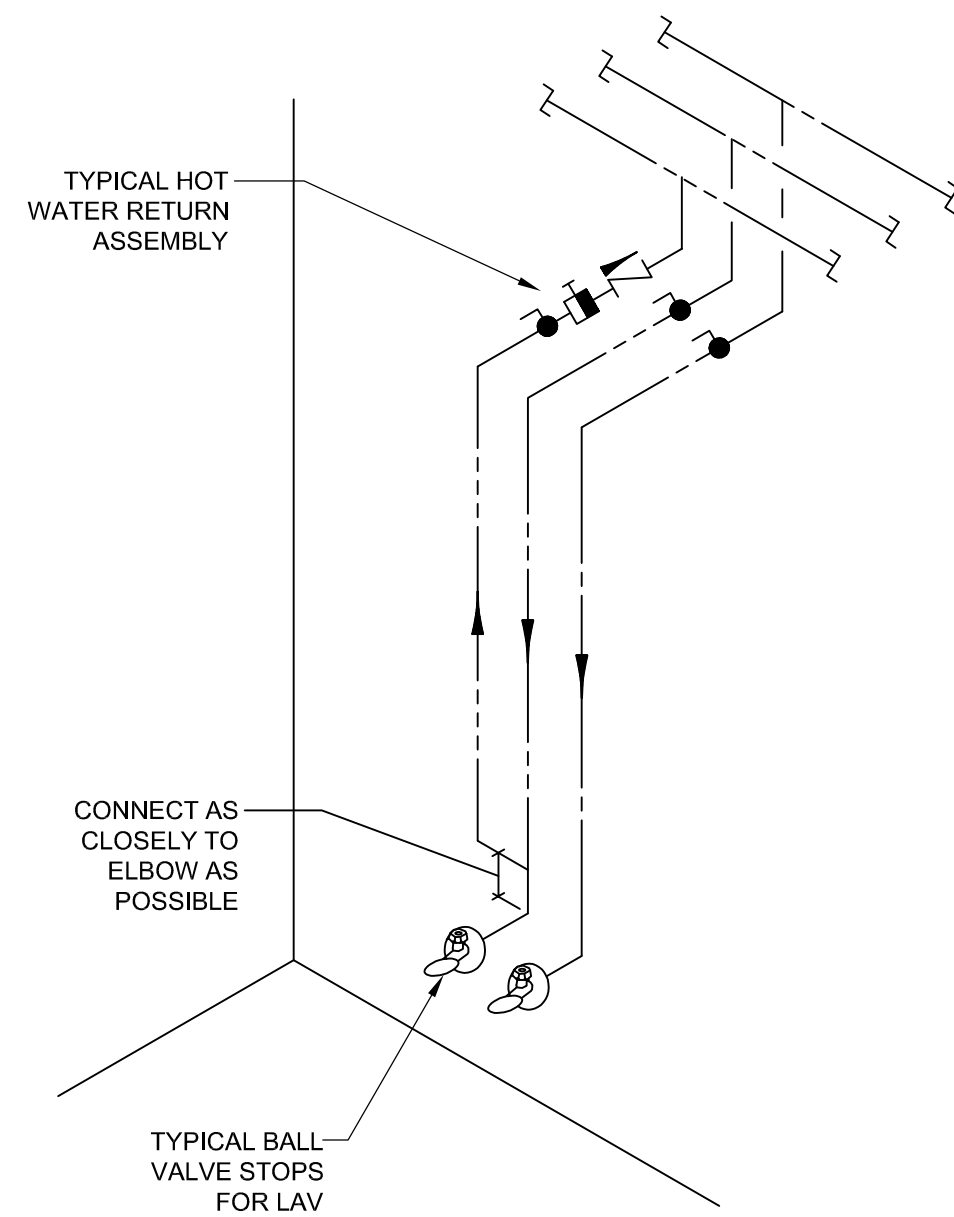
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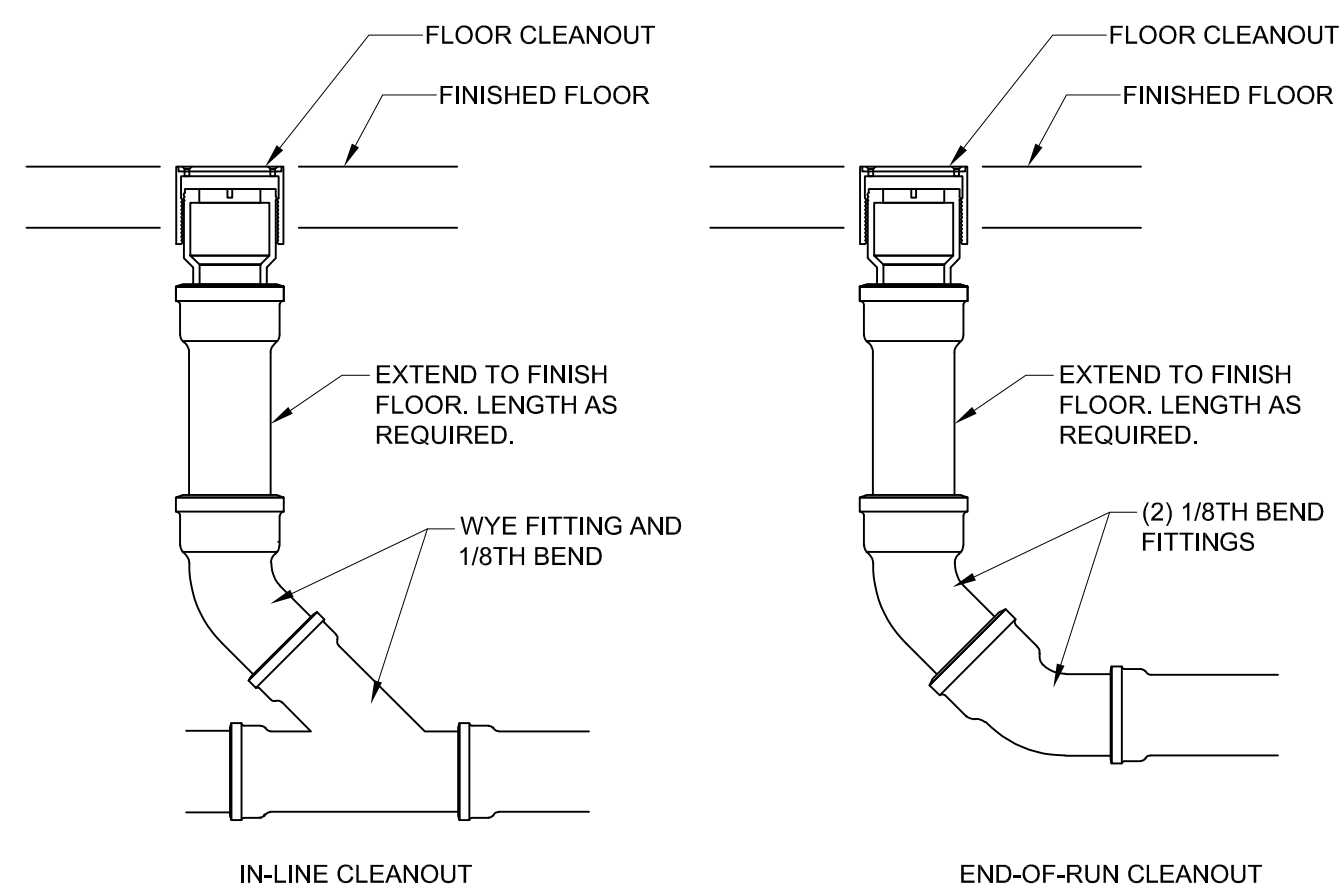
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A



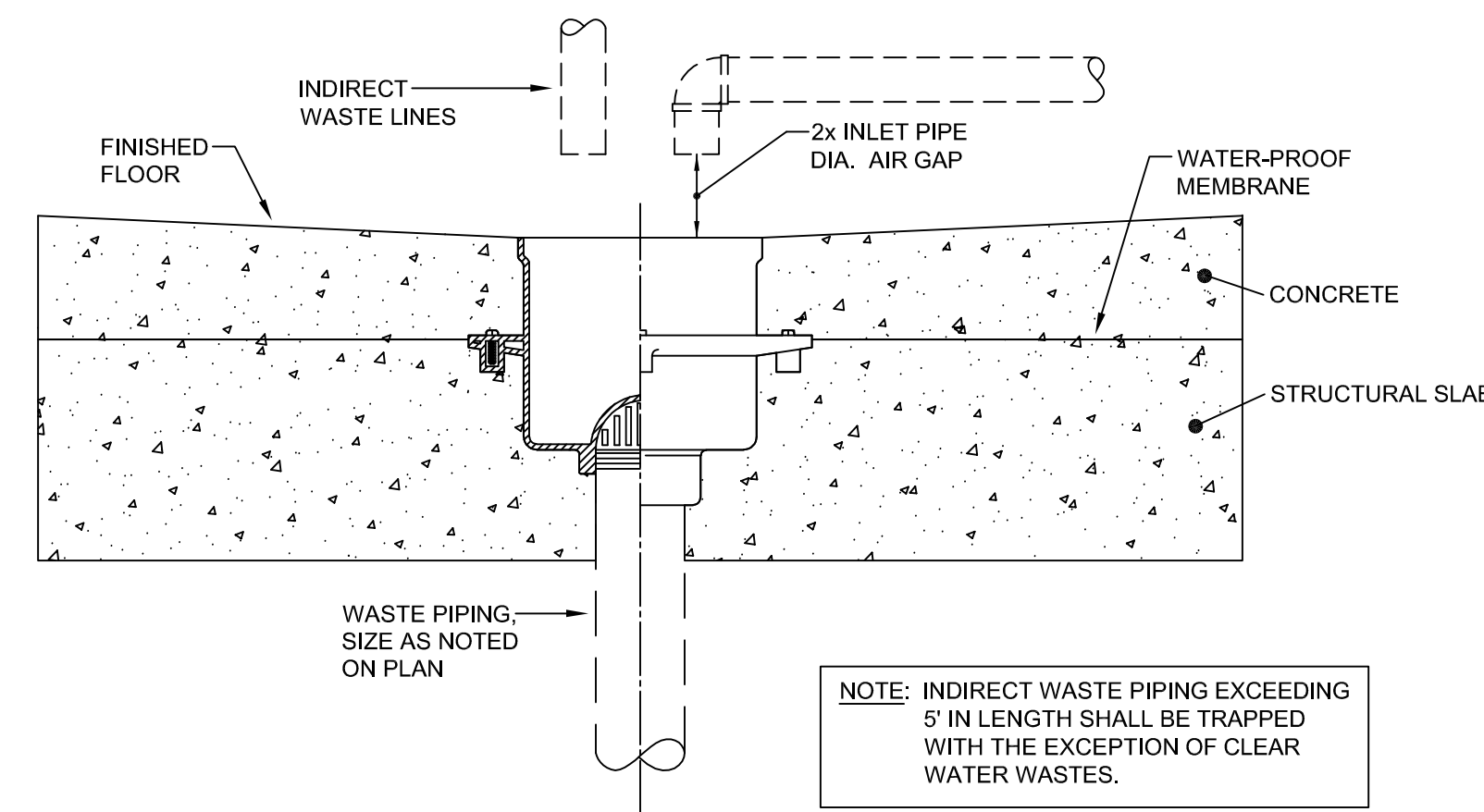
HWR PIPING TO LAVATORY DETAIL

NOT TO SCALE



TYPICAL FLOOR CLEANOUT DETAIL

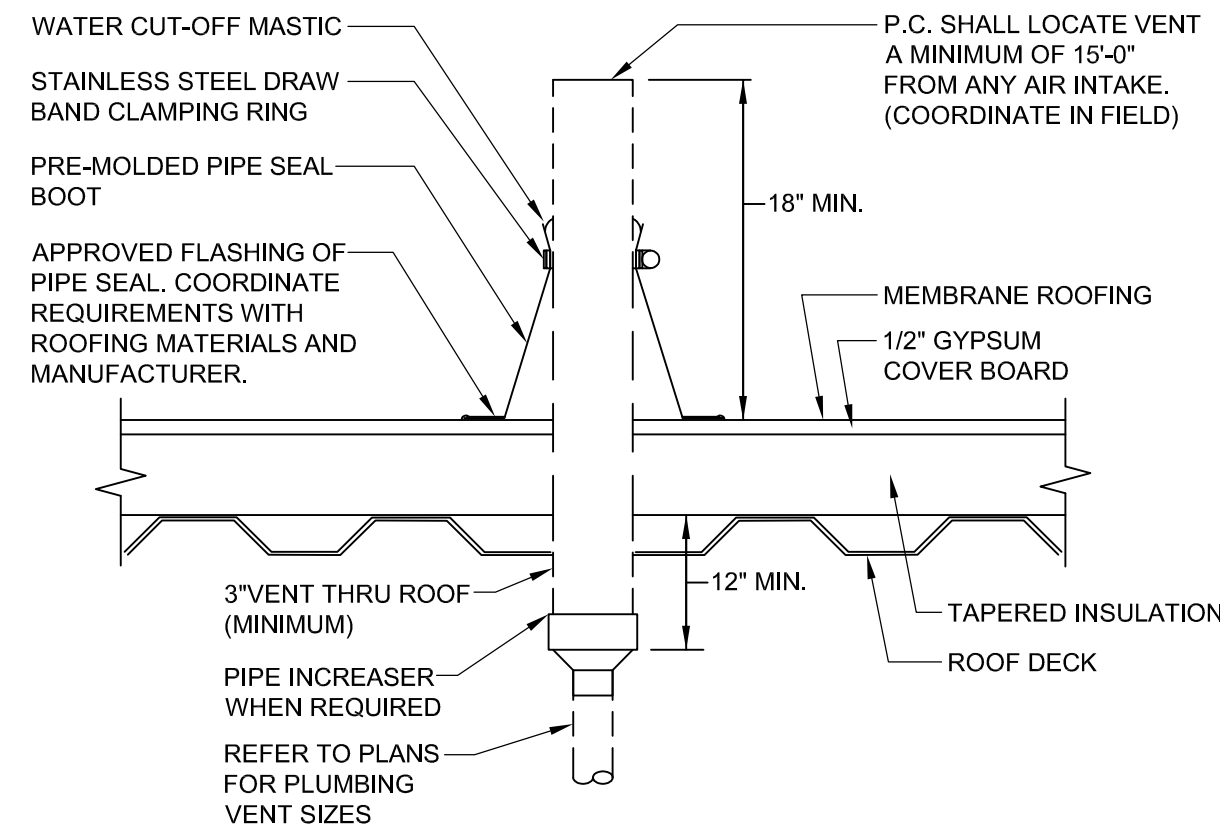
NOT TO SCALE



TYPICAL AIR GAP DETAIL

NOT TO SCALE

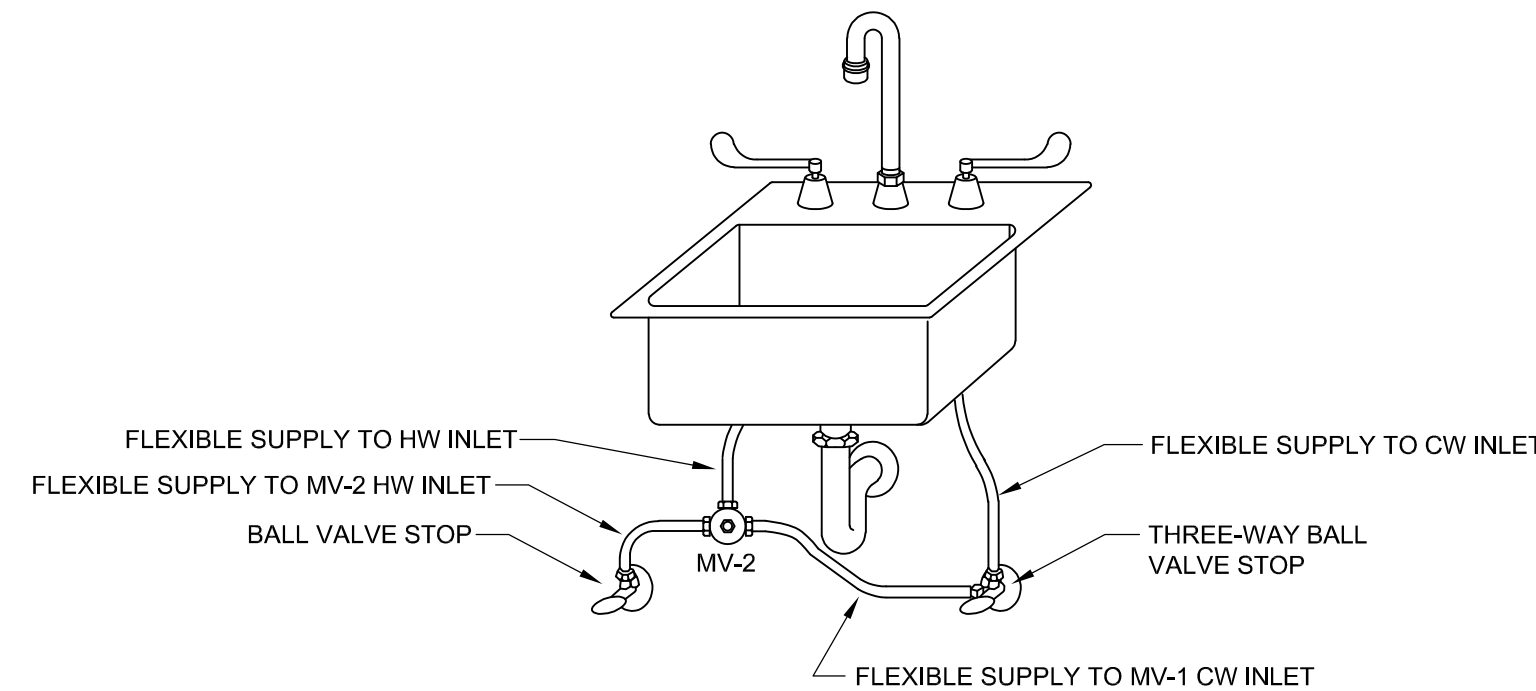
NOTE: INDIRECT WASTE PIPING EXCEEDING 5' IN LENGTH SHALL BE TRAPPED WITH THE EXCEPTION OF CLEAR WATER WASTES.



VENT THRU ROOF DETAIL

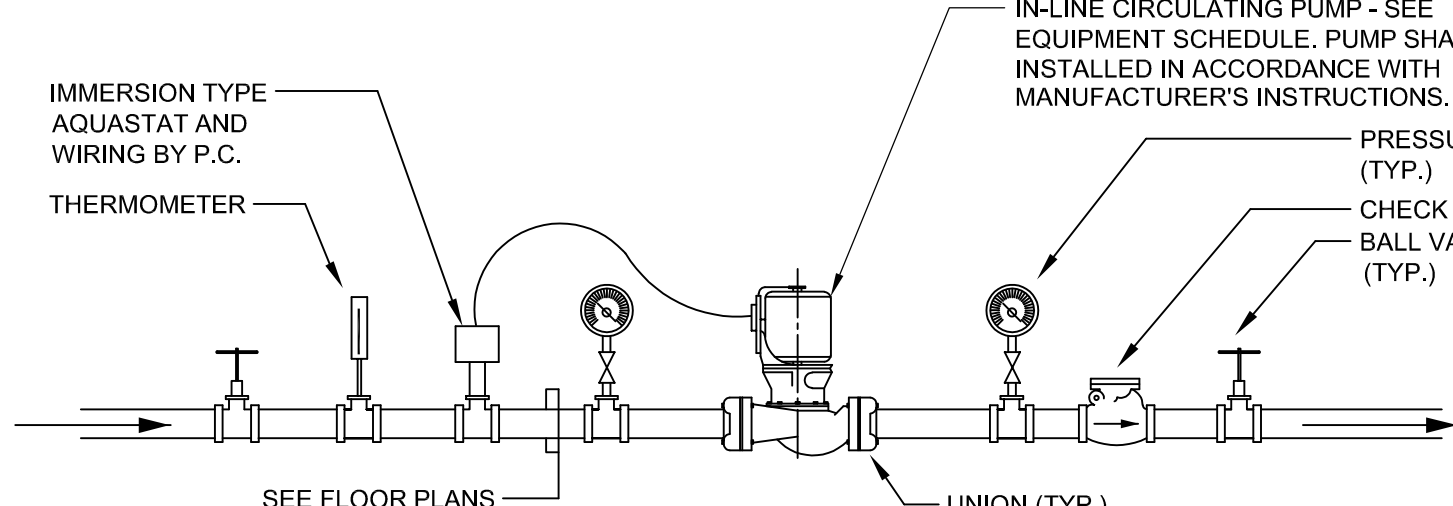
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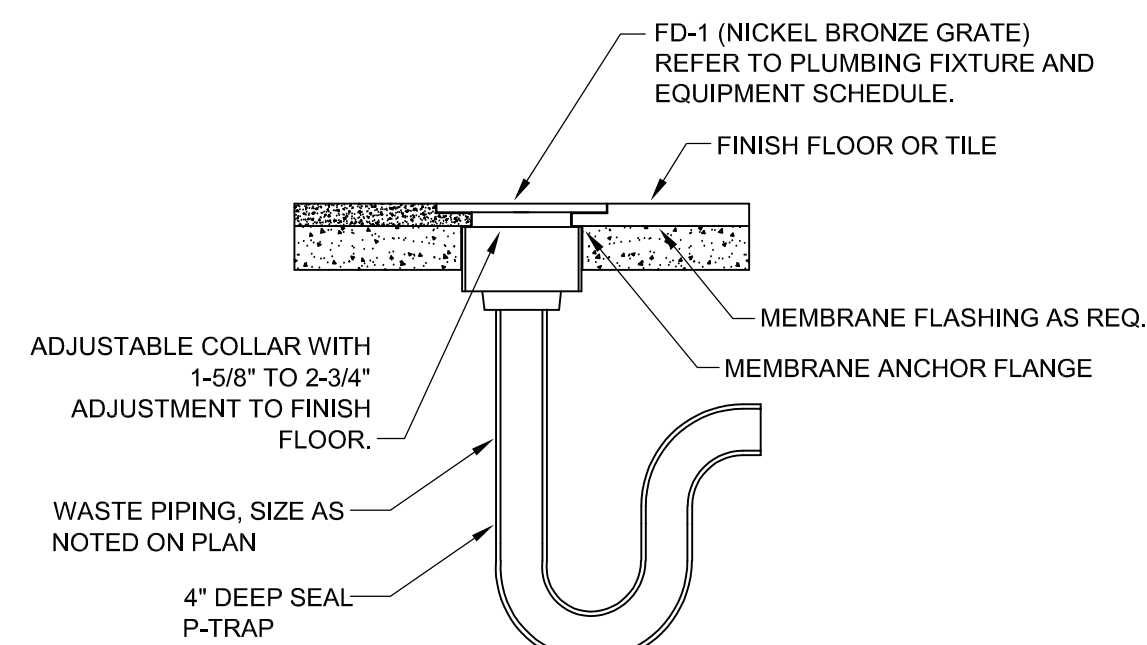
MIXING VALVE DETAIL

NOT TO SCALE



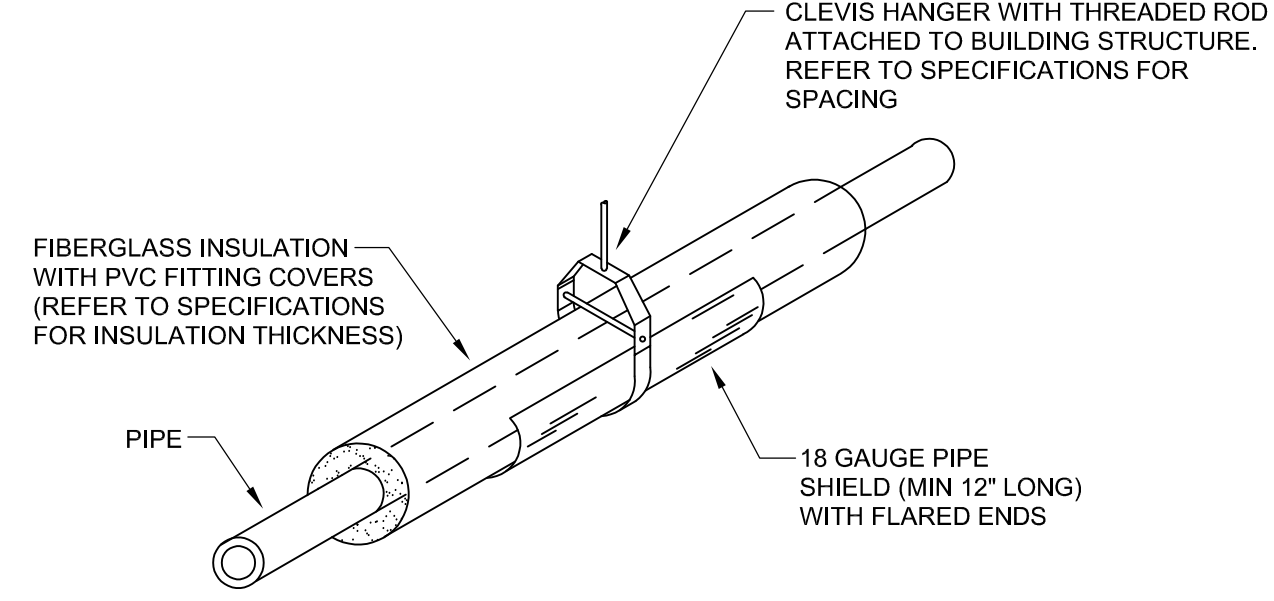
TYPICAL CIRCULATING PUMP PIPING DETAIL

NOT TO SCALE



TYPICAL FLOOR DRAIN DETAIL

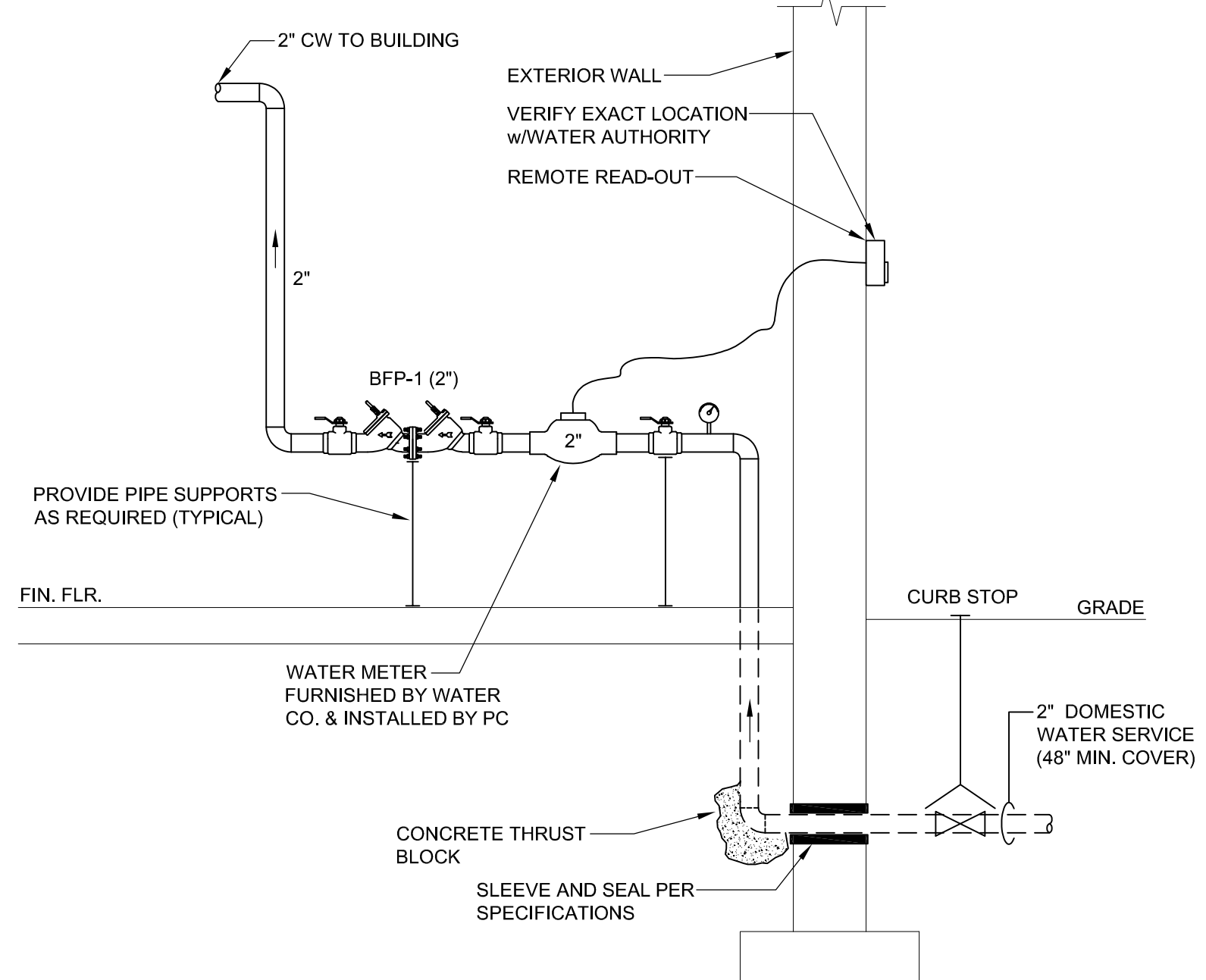
NOT TO SCALE



TYPICAL PIPING HANGER DETAIL

NOT TO SCALE

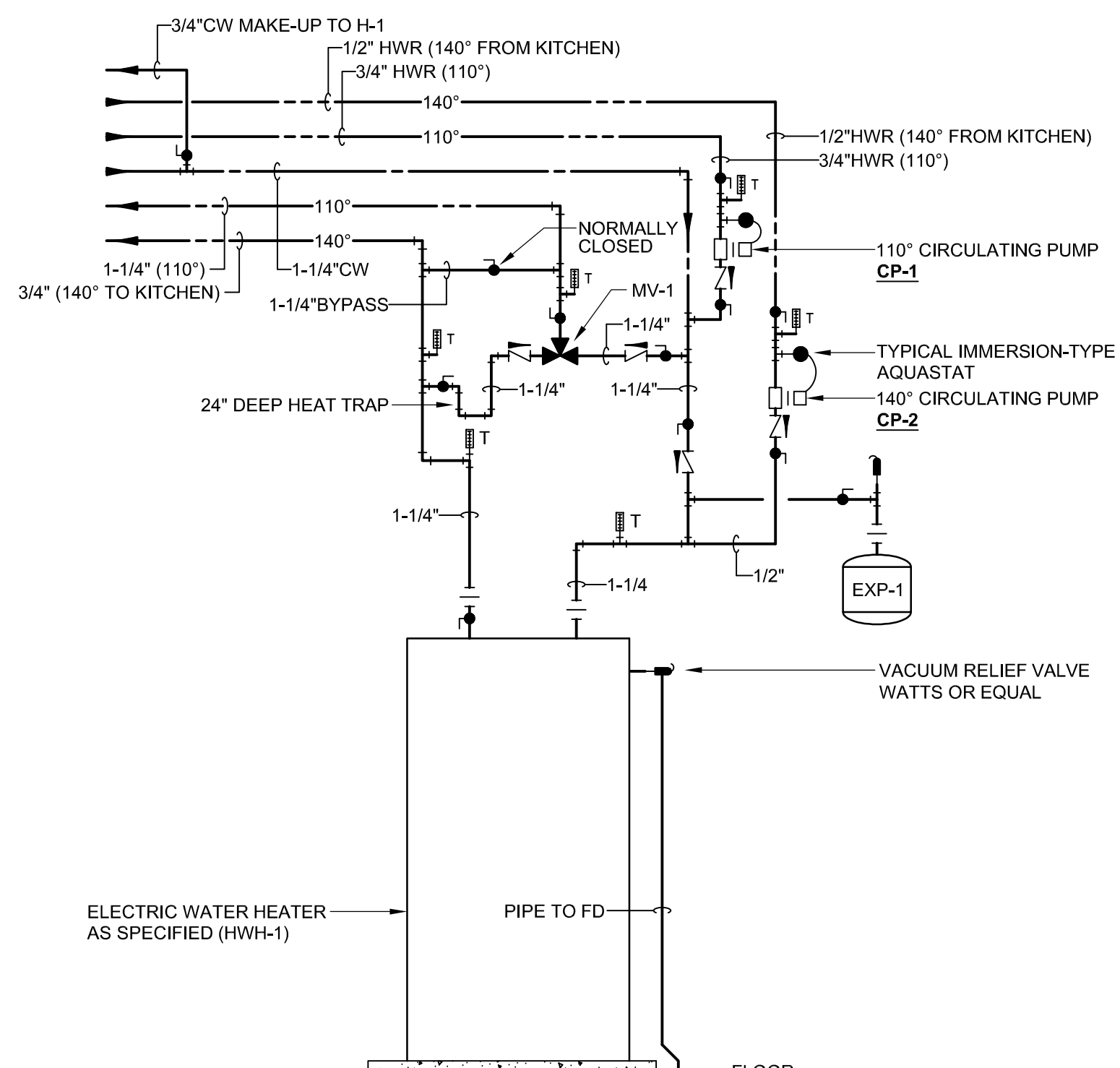
C



DETAIL AT WATER SERVICE

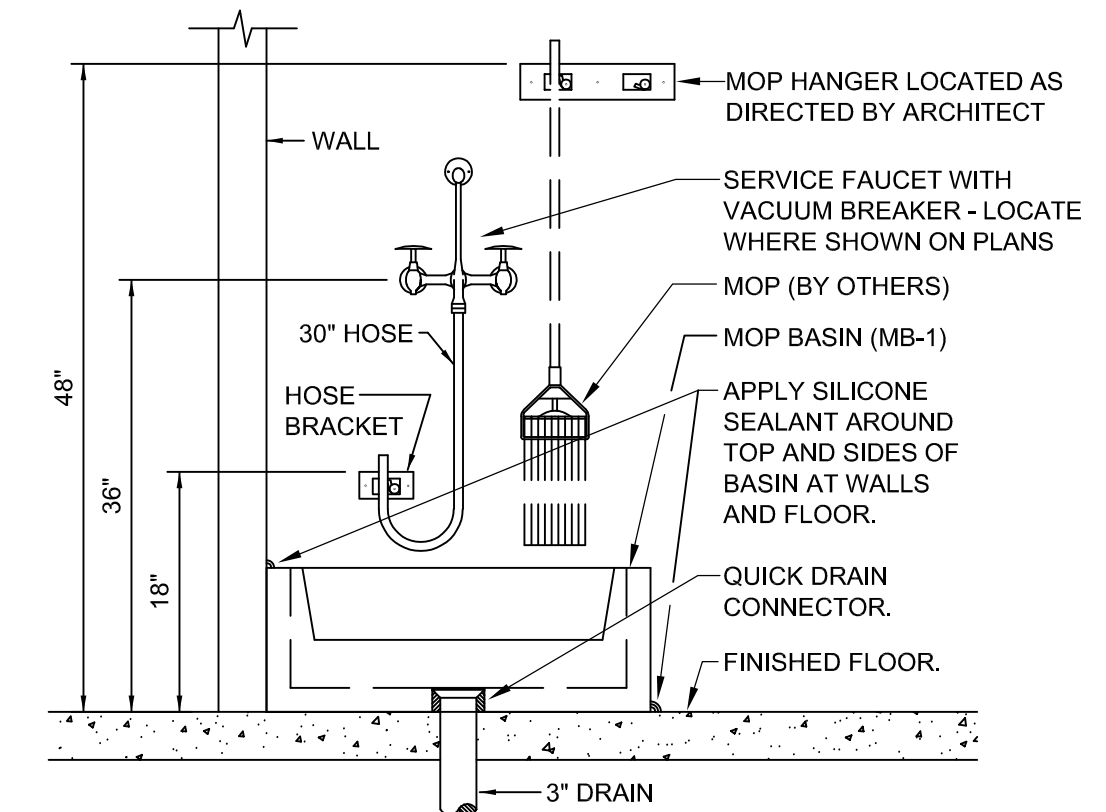
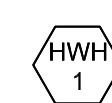
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NOTE: WATER SERVICE INSTALLATION SHALL BE IN COMPLIANCE WITH ALL WATER AUTHORITY RULES AND REGULATIONS.



WATER HEATER PIPING DETAIL

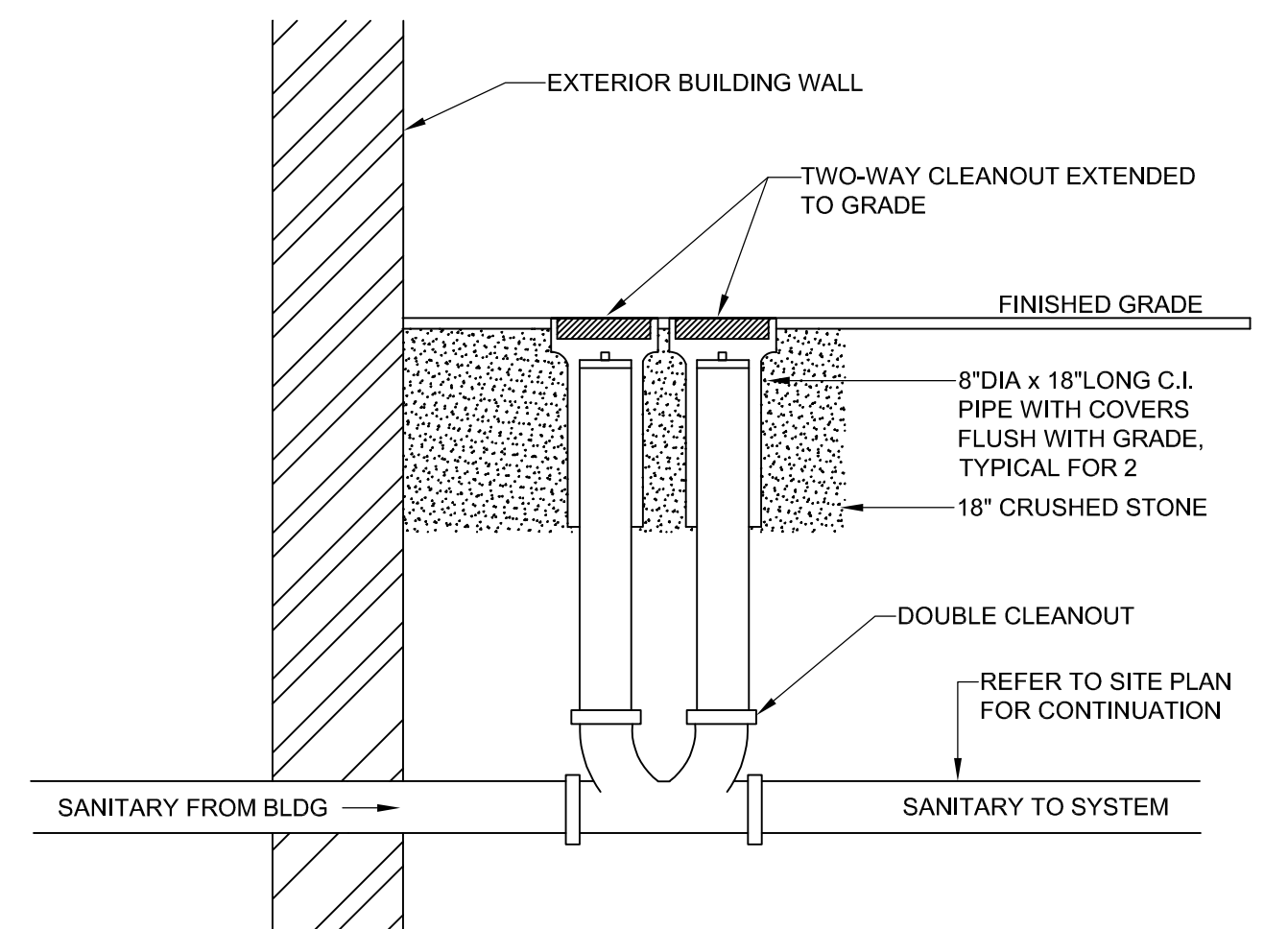
NOT TO SCALE



MOP BASIN DETAIL

NOT TO SCALE

D



SANITARY BUILDING EXIT DETAIL

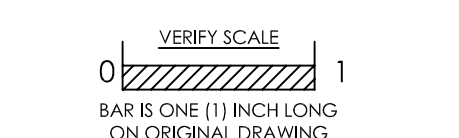
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E

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Sheet Title:

DETAILS

Sheet No.

P7.1

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PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

WATER CLOSET (WC-1A - ADA)

ZURN, Mo. Z5665-BWL-AM, FLOOR MOUNTED, ELONGATED, TOP SPUD, ADA HEIGHT, ANTIMICROBIAL SURFACE, WHITE WITH:
a. ZURN, AQUAVANTAGE AV Mo. Z6000AV-WS1, LOW CONSUMPTION MANUAL FLUSH VALVE, 1.6 GPF;
b. BEMIS OR EQUAL, WHITE, ELONGATED OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES;
c. CLOSET FLANGE WITH WAX GASKET OR PROSET SYSTEMS PROSEAL CLOSET ASSEMBLY AS REQUIRED;
d. BOLT CAPS;
e. FLUSH VALVE LEVER SHALL BE LOCATED ON ACCESS SIDE;
f. MOUNTING HEIGHT: 16.75" FROM FINISHED FLOOR TO RIM. VERIFY WITH ARCHITECTURAL DRAWINGS;
g. REFER TO ARCHITECTURAL DRAWINGS FOR SPACING. VERIFY LOCATION OF ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

WATER CLOSET (WC-2)

ZURN, Mo. Z5665-BWL-AM, FLOOR MOUNTED, ELONGATED, TOP SPUD, ANTIMICROBIAL SURFACE, WHITE WITH:
a. ZURN, AQUAVANTAGE AV Mo. Z6000AV-WS1, LOW CONSUMPTION MANUAL FLUSH VALVE, 1.6 GPF;
b. BEMIS OR EQUAL, WHITE, ELONGATED OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES;
c. CLOSET FLANGE WITH WAX GASKET OR PROSET SYSTEMS PROSEAL CLOSET ASSEMBLY AS REQUIRED;
d. BOLT CAPS;
e. FLUSH VALVE LEVER SHALL BE LOCATED ON ACCESS SIDE;
f. REFER TO ARCHITECTURAL DRAWINGS FOR SPACING.

URINAL (UR-1)

ZURN, Mo. Z5730 TOP SPUD, SIPHON JET, WHITE WITH:
a. ZURN AQUAVANTAGE AV Mo. Z6003AV-WS1, MANUAL, EXPOSED DIAPHRAGM FLUSH VALVE, 1.0 GPF;
b. ZURN, Mo. Z1221-EZ URINAL SUPPORT. BOLT SUPPORT TO FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS;
c. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND SPACING. VERIFY LOCATION OF ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

LAVATORY (LAV-1A - ADA)

ZURN, Mo. Z5384 HIGH-BACK WALL HUNG, 4" CENTER FAUCET HOLES, WHITE, WITH:
a. CHICAGO, Mo. 3503ES99 PAB OF DIEM MOUNTED 3/4" O.D. METERS CHROME PLATED FAUCET, VANDAL-PROOF PRESSURE-COMPENSATING 0.35 GPM NON-AERATING SPRAY OUTLET, INTERNAL CONTROL MIXER, AND 4" C.C. DECK COVER PLATE;
b. McGUIRE GRID DRAIN WITH TAILPIECE, (PROWRAP SERIES) MOLDED CLOSED CELL VINYL, ANTIMICROBIAL;
c. McGUIRE (PROWRAP SERIES) MOLDED, CLOSED CELL VINYL, ANTIMICROBIAL 'P' TRAP (1 1/4" x 1 1/2") TO WALL WITH CLEANOUT;
d. McGUIRE, MODEL LF-8V170 CHROME PLATED ALL BRASS QUARTER-TURN BALL VALVE STOPS WITH CHROME BRAIDED SUPPLIES. (SWEAT WITH EXTENSION TO COMPRESSION OR COMPRESSION TO COMPRESSION PREFERRED);
e. ZURN, Mo. Z1231-EZ UNIVERSAL LAVATORY SUPPORT. BOLT SUPPORT TO FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS;
f. MW-2 - WATTS MODEL LFUSG-B-M3, MOUNT HIGH & TIGHT BELOW LAVATORY ON WALL. SET DELIVERY TEMPERATURE TO 95 DEGREES F. VERIFY TEMPERATURE SETTING WITH OWNER;
g. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND SPACING. VERIFY LOCATION ADA COMPLIANT FIXTURES SHOWN ON THE PLUMBING DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.

NOTE: INSULATE ALL EXPOSED DRAIN AND WATER PIPING ON ADA COMPLIANT FIXTURES WITH MODEL #PW2000 SEAMLESS PROWRAP INSULATION KITS AS MANUFACTURED BY McGUIRE MFG. CO., INC.

ELECTRIC WATER COOLER (EWC-1A - ADA)

ELKAY, MODEL LVRC18WSK, WALL-MOUNTED, VANDAL-RESISTANT BLEVEL ADA-COMPLIANT COOLER, EZH2O BOTTLE FILLING STATION, FILTERED, 8.0 GPH CHILLING CAPACITY, GREENSPEC LISTED, DURABLE SATIN FINISH STAINLESS STEEL WITH ALL STANDARD EQUIPMENT. PROVIDE:
a. PVC P-TRAP AS REQUIRED WITH CLEANOUT AND WATER SUPPLY SHUT-OFF VALVE;
b. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. INSTALL UNITS AT ADULT ADA HEIGHT IN ACCORDANCE WITH THE MANUFACTURER. VERIFY WITH ARCHITECTURAL DRAWINGS;
c. PROVIDE ELKAY MODEL LKAPR2 CANE APRON.

BOTTLE FILLING STATION (BF-1A - ADA)

ELKAY, MODEL LZWSMBK, IN-WALL ADA BARRIER FREE, EZH2O BOTTLE FILLING STATION, FILTERED, 8.0 GPH CHILLING CAPACITY, GREENSPEC LISTED, DURABLE SATIN FINISH STAINLESS STEEL WITH ALL STANDARD EQUIPMENT. PROVIDE:
a. PVC P-TRAP AS REQUIRED WITH CLEANOUT AND WATER SUPPLY SHUT-OFF VALVE;
b. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS. INSTALL UNIT AT ADULT ADA HEIGHT IN ACCORDANCE WITH THE MANUFACTURER.

MOP BASIN (MB-1)

ZURN, Mo. Z1996-24 (24"x 24"x 10") MOP SERVICE BASIN MOLDED HIGH DENSITY COMPOSITE BASIN, PVC DRAIN WITH STAINLESS STEEL STRAINER 3/8" DIA. METERS OUTLET. PROVIDE:
a. CHICAGO, Mo. 445-VBRXCRFC, CHROME PLATED SERVICE SINK FAUCET WITH VACUUM BREAKER, PAIL HOOK, HOSE THREAD, INTEGRAL SERVICE CHECK STOPS, AND TOP WALL BRACE;
b. ZURN Mo. ZJP1996-HH HOSE AND HOSE BRACKET;
c. ZURN Mo. ZJP1996-MH MOP HANGER LOCATED AS DIRECTED BY THE ARCHITECT;
d. ZURN SILICONE SEALANT;
e. DEEP SEAL P-TRAP ON DRAIN OUTLET.

FLOOR DRAIN - FINISHED AREAS (FD-1)

SMITH, FIG. 2005Y-A WITH 6" DIA. NICKEL BRONZE STRAINER. PROVIDE PROSET SYSTEMS INC. TRAP GUARD IN FLOOR DRAIN STRAINER AND DEEP SEAL P-TRAP ON DRAIN OUTLET. PROVIDE DEEP SEAL P-TRAP WITH CLEANOUT WHERE TRAPS ARE LOCATED ABOVE ACCESSIBLE CEILINGS OR EXPOSED IN MECHANICAL ROOMS.

FLOOR DRAIN - MECHANICAL AREAS (FD-2)

SMITH, FIG. 2508 WITH 6" DIA. NICKEL BRONZE STRAINER. PROVIDE PROSET SYSTEMS INC. TRAP GUARD IN FLOOR DRAIN STRAINER AND DEEP SEAL P-TRAP ON DRAIN OUTLET. PROVIDE DEEP SEAL P-TRAP WITH CLEANOUT WHERE TRAPS ARE LOCATED ABOVE ACCESSIBLE CEILINGS OR EXPOSED IN MECHANICAL ROOMS.

FLOOR CLEANOUT (FCO)

SMITH, FIG. 4028C, INSIDE CAULK OR SPEEDI-SET OUTLET WITH ROUND SCORATED NICKEL-BRONZE TOP AND TAPER THREAD BRONZE PLUG. PROVIDE CARPET CLAMPING FRAME IN CARPETED FLOORS.

WALL HYDRANT - NON FREEZE (WH-1)

WOODFORD Mo. RB65, AUTOMATIC DRAINING, NON-FREEZE WALL HYDRANT WITH BRONZE RECESSED BOX WITH CHROME PLATED FACE, VACUUM BREAKER, "WATER" CAST ON COVER, WALL CLAMP WHERE APPLICABLE AND CYLINDER LOCK. INSTALL UNIT APPROXIMATELY 24" ABOVE FINISHED GRADE TOTALLY WITHIN THE SAME COLOR MASONRY.

GREASE INTERCEPTOR (GI-1)

SCHIER, MODEL NO. GB-50, HIGH EFFICIENCY INTERCEPTOR, FULLY RECESSED WITH ALL STANDARD EQUIPMENT INCLUDING FACTORY INSTALLED WITH FLOW CONTROL, ENGINEERED 4" INLET AND OUTLET. PROVIDE RISER COLLAR AS REQUIRED. THE ENTIRE EXCAVATION, INSTALLATION AND BACKFILL SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
FLOW RATE: 35 GPM
LIQUID CAPACITY: 35 GALLONS
LBS. GREASE CAPACITY: 142

WATER HEATER (HWH-1)

BRADFORD WHITE, MODEL LE2120T3-3 STORAGE CAPACITY: 119 GALLONS.
RECOVERY: 23 GPH AT 100 DEGREES F. TEMPERATURE RISE.
ELECTRICAL REQUIREMENTS: 5.5KW, 208 VOLTS, THREE PHASE. UNIT TO BE FURNISHED WITH ALL STANDARD EQUIPMENT INCLUDING AN ASME TEMPERATURE AND PRESSURE RELIEF VALVE, OPTIONAL VENT KIT AND ASME CONSTRUCTION. THE HEATER WILL BE FACTORY ASSEMBLED AND TESTED REQUIRING ONLY CONNECTIONS TO WATER AND ELECTRICAL. REFER TO THE DETAIL ON THE DRAWINGS AND THE SPECIFICATIONS FOR ADDITIONAL OPTIONAL EQUIPMENT AND INFORMATION.

EXPANSION TANK (EXP-1)

AMTROL, MODEL ST-12-C

CIRCULATING PUMP (CP-1)

BELL & GOSSETT, MODEL NBF-10S/LW IN-LINE STAINLESS STEEL WITH UNION CONNECTIONS. PUMP MOTOR RATED AT 115 VOLTS, SINGLE PHASE, 1/16 HP. IN THE HOT WATER RETURN LINE TO THE HEATER. PROVIDE AN IMMERSION-TYPE AQUASTAT SET TO START THE PUMP WHEN THE WATER TEMPERATURE IN THE LINE DROPS TO 90 DEGREES F. AND STOP THE PUMP WHEN THE TEMPERATURE REACHES 105 DEGREES F. COORDINATE PUMP SHUT-OFF SETTING WITH THE MIXING VALVE SETTING.

CIRCULATING PUMP (CP-2)

BELL & GOSSETT, MODEL NBF-10S/LW IN-LINE STAINLESS STEEL WITH UNION CONNECTIONS. PUMP MOTOR RATED AT 115 VOLTS, SINGLE PHASE, 1/16 HP. IN THE HOT WATER RETURN LINE TO THE HEATER. PROVIDE AN IMMERSION-TYPE AQUASTAT SET TO START THE PUMP WHEN THE WATER TEMPERATURE IN THE LINE DROPS TO 125 DEGREES F. AND STOP THE PUMP WHEN THE TEMPERATURE REACHES 130 DEGREES F. COORDINATE PUMP SHUT-OFF SETTING WITH THE MIXING VALVE SETTING.

THERMOSTATIC MIXING VALVE (MV-1)

POWERS, MODEL LFMM433 ROUGH BRONZE WITH ALL STANDARD EQUIPMENT INCLUDING PARAFFIN COPPER ACTUATOR, HEAVY DUTY COMBINATION STRAINER CHECKSTOPS AND TAMPER-RESISTANT TEMPERATURE ADJUSTMENT CONTROL. VERIFY TEMPERATURE SETTING WITH THE OWNER.

BACKFLOW PREVENTER (BFP-1)

WATTS, MODEL 719QT2-S DOUBLE CHECK VALVE ASSEMBLY WITH STRAINER.

BACKFLOW PREVENTER (BFP-2)

WATTS, MODEL LF0099-QT-FS, 2", REDUCED PRESSURE ZONE WITH BRONZE STRAINER AND QUARTER-TURN BALL VALVES. EXTEND DRAIN PIPING AS CLOSE AS POSSIBLE TO NEAREST FLOOR DRAIN WITHOUT CREATING A TRIPPING HAZARD.

SUBSTITUTIONS

ANY REQUEST FOR A SUBSTITUTION FOR THE PRODUCTS AND MANUFACTURERS SPECIFIED, OR LISTED AS ACCEPTABLE SUBSTITUTES MUST BE MADE IN STRICT ACCORDANCE WITH THE ARCHITECT'S SPECIFICATIONS. SUBSTITUTIONS WILL NOT BE PERMITTED AFTER CONTRACTS ARE AWARDED. ALL SUBSTITUTIONS SHALL BE APPROVED BY OWNER.

THE FOLLOWING MANUFACTURERS ARE CONSIDERED ACCEPTABLE SUBSTITUTES FOR THOSE SPECIFIED, IF APPROVED BY ENGINEER AND OWNER:

PLUMBING FIXTURES: KOHLER, SLOAN
ELECTRIC WATER COOLER: OASIS
DRAINAGE SPECIALTIES : SMITH, JOSAM, WADE
WATER HAMMER ARRESTERS: SMITH, PPP
LAVATORY INSULATION KITS: PLUMBEREX, TRUEBRO
WATER HEATERS: STATE, RHEEM
EXTERIOR WALL HYDRANT: WADE
MIXING VALVE: LEONARD, ACORN, HOLBY
LAVATORY AND SINK FITTINGS: CHICAGO, T & S
WATER CLOSET SEAT: KOHLER, ZURN, SLOAN
FLUSH VALVES: SLOAN
CIRCULATING PUMP: GRUNDFOS, TACO
BACKFLOW PREVENTER: AMES FIRE & WATERWORKS, APOLLO VALVES, ZURN

KITCHEN EQUIPMENT LIST AND CONNECTION SCHEDULE table with columns: ITEM, EQUIPMENT DESCRIPTION, WATER (HOT, COLD), ROUGH-IN HEIGHT, WASTE, ROUGH-IN HEIGHT, COMMENTS

- NOTES:
1. ALL KITCHEN TAG NUMBERS MATCH KITCHEN CONSULTANT TAG NUMBERS.
2. PLUMBING CONNECTION LOCATIONS SHOWN FOR REFERENCE. COORDINATE ROUGH-IN LOCATIONS WITH KITCHEN EQUIPMENT INSTALLER AND PLUMBING ROUGH-IN KITCHEN DRAWINGS.

PLUMBING FIXTURE CONNECTIONS table with columns: ITEM NO., FIXTURE, MINIMUM PIPING CONNECTIONS (TRAP & TRAP ARM, WASTE, VENT, C.W., H.W.)

- 1. WET VENT OR COMBINATION DRAIN AND VENT. REFER TO FLOOR PLAN.
2. 1-1/2" UNLESS NOTED OTHERWISE.
3. CONNECTION SIZES ARE TO BE AS SHOWN ON SCHEDULE, EXCEPT AS OTHERWISE NOTED OR SHOWN ON PLANS.

WATER HAMMER ARRESTER SCHEDULE table with columns: SYMBOL, FIXTURE UNITS, SIOUX CHIEF MODEL NO., SYMBOL, FIXTURE UNITS, SIOUX CHIEF MODEL NO.

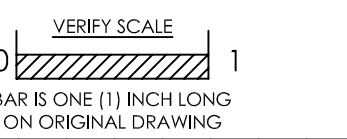
PIPE MATERIAL SCHEDULE table with columns: SANITARY WASTE & VENT PIPING, STORM PIPING, DOMESTIC WATER PIPING, and material specifications.

D'HUY Engineering, Inc. CONSULTING ENGINEERS: Project Management, Facilities Engineering, Structural Design & Analysis, Mechanical/Electrical/Plumbing, Forensic Engineering



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REBUILD - VINCENT G. PANATI PLAYGROUND for PPR/REBUILD PHILADELPHIA 3101-27 N 22ND ST., PHILADELPHIA PA 19132



Revision table with columns: No., Date, Description, By, Date

Date: 02/09/2024
Scale: AS NOTED
Job No.: 725002
Drawn: JH Appd.: NRZ

Sheet Title: SCHEDULES
Sheet No.: P8.1