



STRUCTURAL CALCULATIONS

Paragon Star

RoxBox



04.03.2023

NOTES:

ITEMS REVIEWED BY JVA, INC. INCLUDE:

1. GLOBAL WIND FORCES AND OVERTURNING CHECK.
2. LATERAL LOAD CAPACITY CHECK.
3. ROOF LOADS AND ROOF CAPACITY CHECK.
4. DOOR AND WINDOW JAMBS.
5. DOOR AND WINDOW SILLS.
6. DOOR AND WINDOW HEADERS.
7. A/C UNIT SUPPORT.

SHOP DRAWINGS CREATED BY ROXBOX ARE INCLUDED FOR REFERENCE.

April 3rd, 2023

ROXBOX - CALCULATIONS:

PARAGON STAR - JVA#21823
BY ALK 03/15/2023

CONTAINER OVERTURNING CHECK:

Building Dimensions: $L := 40 \text{ ft}$ $W := 8 \text{ ft}$ $H := 9.5 \text{ ft}$

MWFRS Wind Pressure: $WW := 18.3 \text{ psf}$ $LW := 5.2 \text{ psf}$ From Struware Calulation

Container weight: $W_c := 8300 \text{ lbf}$ $W_f := 2 \text{ psf} \cdot (L \cdot 2 \cdot H + W \cdot 2 \cdot H + W \cdot L) = (2.464 \cdot 10^3) \text{ lbf}$

$$M_{ovt} := 0.6 \cdot (WW + LW) \cdot \frac{H^2}{2} \cdot L = 25.451 \text{ kip} \cdot \text{ft}$$

$$M_{res} := (W_c) \cdot \frac{W}{2} = 33.2 \text{ kip} \cdot \text{ft}$$

$$FS := \frac{M_{res}}{M_{ovt}} = 1.304 \quad FS > 1.0 \quad \text{Overturning is not a problem}$$

WINDOW & DOOR OPENING FRAMING PARAMETERS:

C&C Wind Load: $W_{cc} := 29 \text{ psf}$ LRFD

WINDOWS:

Sill: $l_s := 5.3 \text{ ft}$ $Trib_s := \frac{4.5 \text{ ft}}{2} + \frac{3.25 \text{ ft}}{2} = 3.875 \text{ ft}$

$$w_s := Trib_s \cdot W_{cc} = 112.375 \text{ plf}$$

Per Enercalc calculation use HSS2x2x1/8: $\Delta_s := 0.087 \text{ in}$ $\frac{l}{733}$ acceptable

$$V_s := 0.3 \text{ kip} \quad P_s := 3.05 \text{ plf} \cdot \frac{l_s}{2} + 12 \text{ psf} \cdot 4.5 \text{ ft} \cdot \frac{l_s}{2} = 0.151 \text{ kip}$$

Header: $l_h := 5.3 \text{ ft}$ $Trib_h := \frac{4.5 \text{ ft}}{2} + \frac{1.75 \text{ ft}}{2} = 3.125 \text{ ft}$

$$w_h := Trib_h \cdot W_{cc} = 90.625 \text{ plf}$$

Per Enercalc calculation use HSS2x2x1/8: $\Delta_h := 0.071 \text{ in}$ $\frac{l}{905}$ acceptable

$$V_h := 0.24 \text{ kip} \quad P_h := 3.05 \text{ plf} \cdot \frac{l_h}{2} = 0.008 \text{ kip}$$

Jamb: $h_j := 9.5 \text{ ft}$ Apply Vs & Ps at 3.25ft and Vh & Ph at 7.75ft

Per Enercalc Calculation use HSS2x2x1/8

NOTE:

FOR CONSTRUCTIBILITY REASONS AND UNIFORMITY FROM PROJECT-TO-PROJECT, HSS 2x2x1/8 CAN BE REPLACED WITH HSS 4x2x1/8 (OR HEAVIER), TYPICAL AT JAMBS, SILLS, AND HEADERS

DOOR:

Header: $l_h := 3.67 \text{ ft}$ $Trib_h := \frac{7 \text{ ft}}{2} + \frac{2.75 \text{ ft}}{2} = 4.875 \text{ ft}$

$$w_h := Trib_h \cdot W_{cc} = 141.375 \text{ plf}$$

Per Enercalc calculation use HSS2x2x1/8: $\Delta_h := 0.025 \text{ in}$ $\frac{l}{1777}$ acceptable

$$V_h := 0.26 \text{ kip} \quad P_h := 3.05 \text{ plf} \cdot \frac{l_h}{2} + 12 \text{ psf} \cdot 2.75 \text{ ft} \cdot \frac{l_h}{2} = 0.066 \text{ kip}$$

Jamb: $h_j := 9.5 \text{ ft}$ Apply Vs & Ps at 3.25ft and Vh & Ph at 7.75ft

Per Enercalc Calculation use HSS2x2x1/8

**ACTUAL WEIGHT =
+/- 150 LBS**

AC UNIT OPENING: 1'-7 7/8" x 2'-4 1/4" < window and door openings therefore use HSS2x2x1/8 for opening header, sill, and jambs

Check Condenser & AC Platforms: Assume each unit weights 500 lbs

Condenser Platform:
HSS4x2x1/4 frame with
HSS2x2x1/4 braces

AC Platform: L2x2x1/4 frame
with 2"x1/4" straps

Frame: $l_f := 2.36 \text{ ft}$ $d_f := 1.61 \text{ ft}$

$$w_f := \frac{500 \text{ lbf}}{l_f \cdot d_f} \cdot \frac{d_f}{2} = 105.932 \text{ plf}$$

Frame: $l_{fa} := 2.34 \text{ ft}$ $d_{fa} := 1.49 \text{ ft}$

$$w_{fa} := \frac{500 \text{ lbf}}{l_{fa} \cdot d_{fa}} \cdot \frac{d_{fa}}{2} = 106.838 \text{ plf}$$

Capacity of HSS4x2x1/4
beam per AISC Table 3-12

Capacity of L2x2x1/4
 $S_a := 0.244 \text{ in}^3$

$$\phi M_{nf} := 10.1 \text{ kip} \cdot \text{ft}$$

$$\phi M_{nfa} := S_a \cdot 36 \text{ ksi} = 0.732 \text{ kip} \cdot \text{ft}$$

$$w_{nf} := \phi M_{nf} \cdot \frac{8}{l_f^2} = (1.451 \cdot 10^4) \text{ plf}$$

$$w_{nfa} := \phi M_{nfa} \cdot \frac{8}{l_{fa}^2} = (1.069 \cdot 10^3) \text{ plf}$$

$$w_{nf} > w_f \quad \text{ok}$$

$$w_{nfa} > w_{fa} \quad \text{ok}$$

Brace: $K := 1$ $l_b := 2.1 \text{ ft}$ $r := 0.704 \text{ in}$

Strap: $l_s := 2.1 \text{ ft}$

$$A_s := 0.25 \text{ in} \cdot 2 \text{ in} = 0.5 \text{ in}^2$$

$$\phi P_{nb} := 24 \text{ kip}$$

$$\phi P_{ns} := 0.9 \cdot 36 \text{ ksi} \cdot A_s = 16.2 \text{ kip}$$

$$P_{ab} := w_f \cdot \frac{l_f}{2} = 0.125 \text{ kip} \quad P_{ab} < \phi P_{nb} \quad \text{ok}$$

$$P_{as} := w_{fa} \cdot \frac{l_{fa}}{2} = 0.125 \text{ kip} \quad P_{as} < \phi P_{ns} \quad \text{ok}$$

NOTE:

WEIGHT = +/- 150 LBS. OPENING ADJACENT TO OEM TOP RAIL AND OEM END BAY DOOR FRAME. DOOR FRAME WELDED SHUT. REINFORCING NOT NEEDED. HORIZONTAL FLAT STRAP TO BE ADDED TO RECEIVE DIAGONALS AND DISTRIBUTE LOAD TO OEM CORRUGATE.

NOTE:

FOR CONSTRUCTIBILITY REASONS AND UNIFORMITY FROM PROJECT-TO-PROJECT, HSS 2x2x1/8 CAN BE REPLACED WITH HSS 4x2x1/8, TYPICAL AT JAMBS, SILLS, AND HEADERS

Check Container Roof Capacity:

$$DL_r := 5 \text{ psf} \quad SL := 20 \text{ psf} \quad \text{ASD}$$

$$w := (DL_r + SL) \cdot 1 \text{ ft} = 25 \text{ plf}$$

Roof Section Properties:

$$F_y := 36 \text{ ksi}$$

$$E := 29000 \text{ ksi}$$

$$I_x := 159182 \text{ mm}^4 = 0.382 \text{ in}^4$$

$$S_x := \frac{I_x}{10 \text{ mm}} = 0.971 \text{ in}^3$$

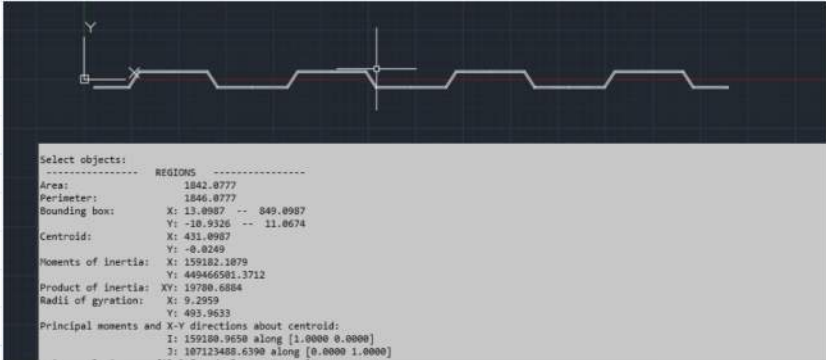
$$L := W = 96 \text{ in}$$

$$M := \frac{w \cdot L^2}{8} = 200 \text{ lbf} \cdot \text{ft}$$

$$S_{req} := \frac{M}{F_y} = 0.067 \text{ in}^3$$

$$S_x > S_{req}$$

Container roof is adequate to support snow load



Check roof Deflection:

$$\Delta := \frac{5 \cdot w \cdot L^4}{384 \cdot E \cdot I_x} = 0.208 \text{ in}$$

$$\frac{L}{\Delta} = 462.111$$

$$\frac{L}{\Delta} > 360$$

Deflection is acceptable

Check Wall Lateral Shear capacity (ASD):

$$L := 40 \text{ ft}$$

$$Wind := 29 \text{ psf} \cdot 0.6 = 17.4 \text{ psf}$$

Capacities per Table 3114.8.5.3 below

$$P_y := Wind \cdot H \cdot \frac{W}{4} = 330.6 \text{ lbf}$$

$$V_y := \frac{P_y}{L} = 8.265 \text{ plf}$$

$$V_y < 84 \text{ plf} \quad \text{ok}$$

$$P_x := Wind \cdot H \cdot \frac{L}{4} = (1.653 \cdot 10^3) \text{ lbf}$$

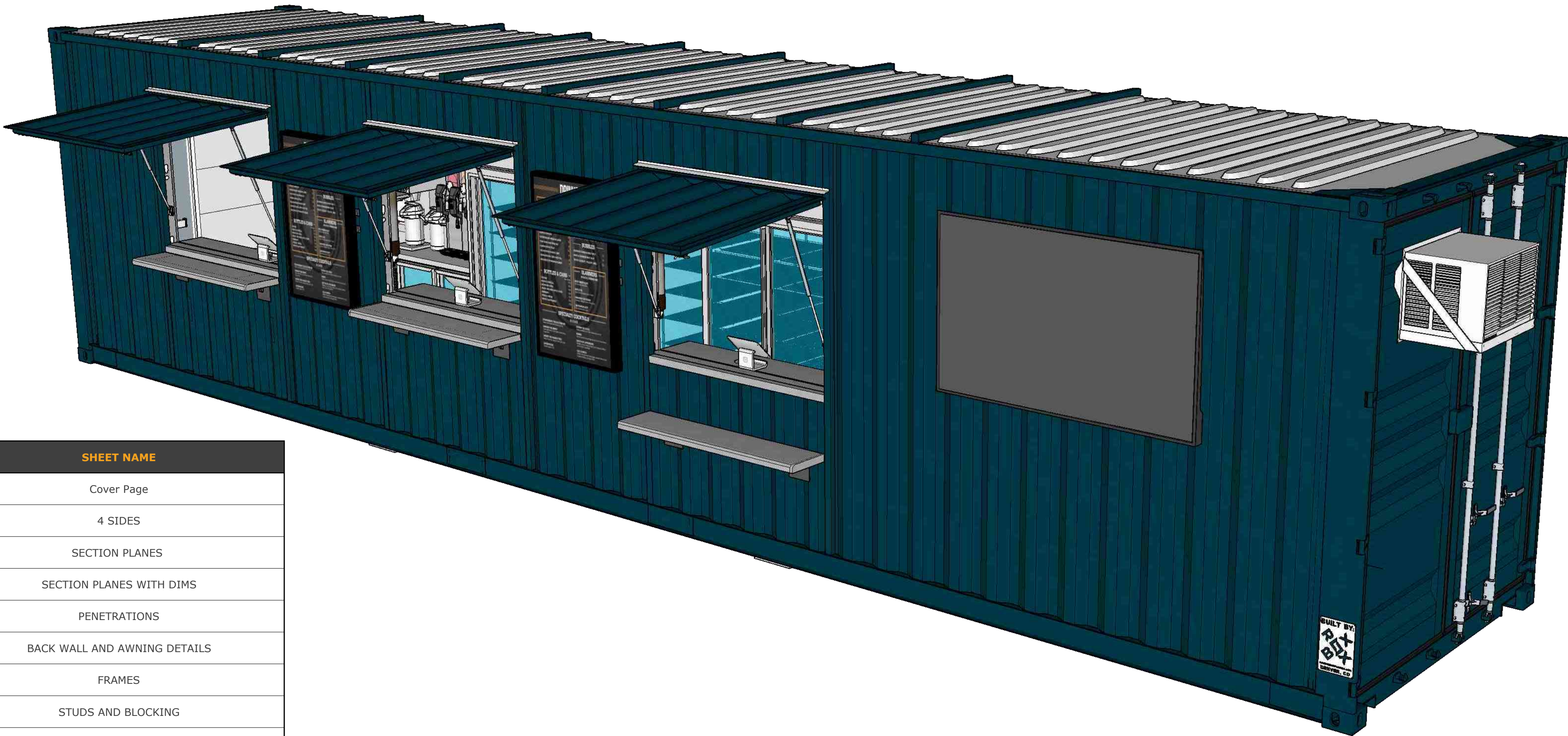
$$V_x := \frac{P_x}{W} = 206.625 \text{ plf}$$

$$V_y < 843 \text{ plf} \quad \text{ok}$$

1EEE	45 feet (13.7 m)	9.5 feet (2896 mm)	75		
1EE		8.5 feet (2591 mm)			
1AAA	40 feet (12.2 m)	9.5 feet (2896 mm)	84		
1AA		8.5 feet (2591 mm)			
1A		8.0 feet (2438 mm)			
1AX		< 8.0 feet (2438 mm)			
1BBB	30 feet (9.1 m)	9.5 feet (2896 mm)	112		843
1BB		8.5 feet (2591 mm)			
1B		8.0 feet (2438 mm)			
1BX		< 8.0 feet (2438 mm)			

Container walls do not require bracing

1BB	30 feet (9.1 m)	8.5 feet (2591 mm)	112	843
1B		8.0 feet (2438 mm)		
1BX		< 8.0 feet (2438 mm)		
1CC	20 feet (9.1 m)	8.5 feet (2591 mm)	168	
1C		8.0 feet (2438 mm)		
1CX		< 8.0 feet (2438 mm)		
1D	10 feet (3.0 m)	8.0 feet (2438 mm)	337	
1DX		< 8.0 feet (2438 mm)		



SHEET NUMBER	SHEET NAME
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Sheet 03	SECTION PLANES
Sheet 04	SECTION PLANES WITH DIMS
Sheet 05	PENETRATIONS
Sheet 06	BACK WALL AND AWNING DETAILS
Sheet 07	FRAMES
Sheet 08	STUDS AND BLOCKING
Sheet 09	STUDS AND BLOCKING
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Sheet 12	ELECTRICAL
Sheet 13	FRESH WATER PLAN
Sheet 14	GREY WATER PLAN
Sheet 15	PLUMBING PLAN
Sheet 16	EMBED DETAILS
Sheet 17	FOUNDATION
Sheet 18	ROOFTOP SIGN AND LED COUNTERTOPS

EXTERIOR PAINT

PANTONE

309

WEB SAFE HEX

#143A48



PHASE 2.0



ROXBOX
5690 Logan St. Unit A
Denver, CO 80216

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COVER PAGE

DRAWN BY:
SB

DESIGNED BY:
SB

DATE:
3-29-2023

REVISIONS

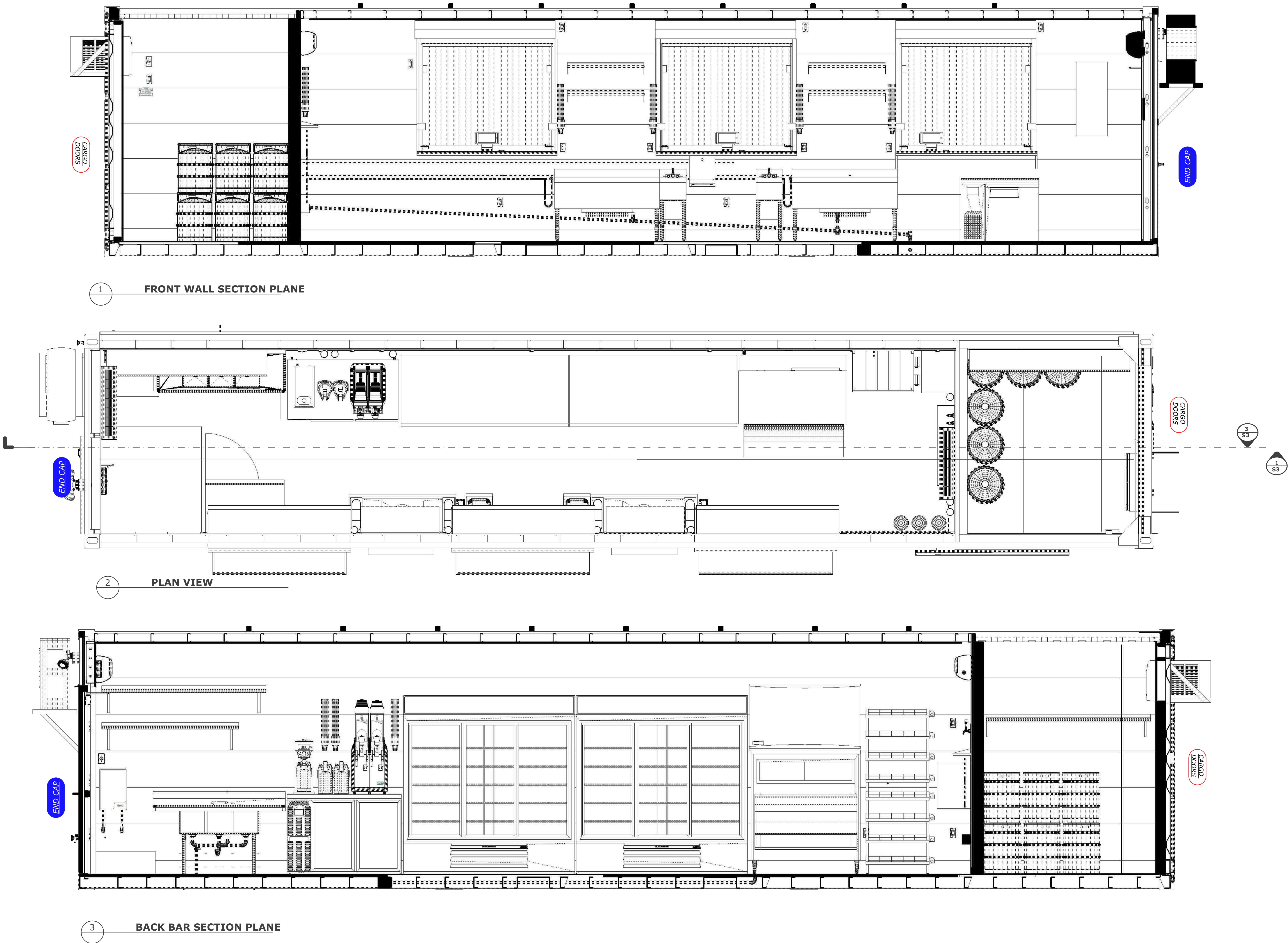
JVA RED LINES
INCORPORATED.
SHEET 7

REV.
2.5

PROJECT NUMBER
2031

01

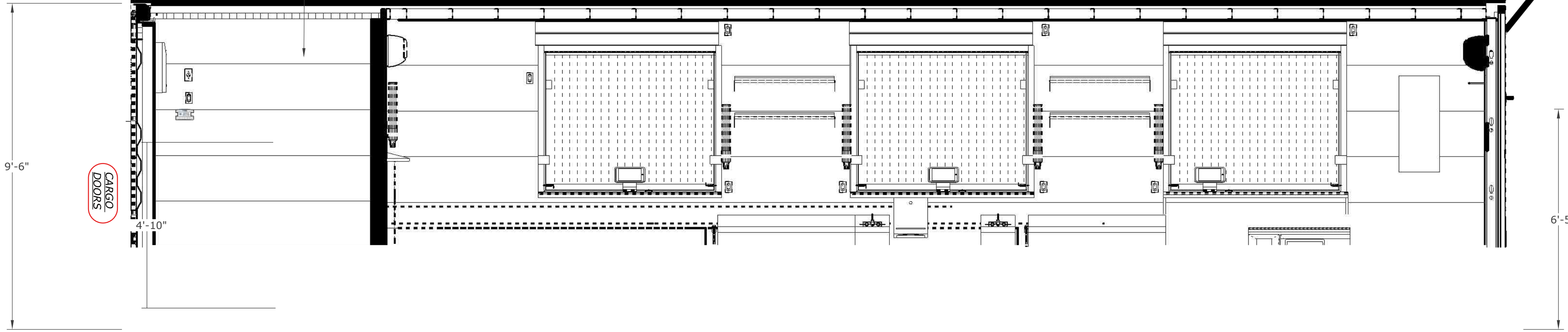
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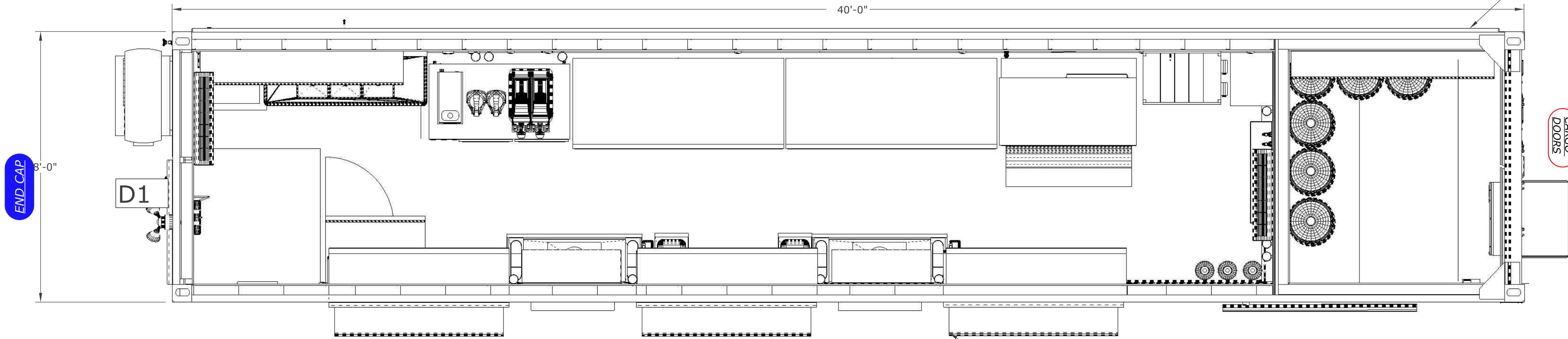
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PROJECT NUMBER 2031	
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UNI STRUT- LAG SCREW TO STUDS
4 LAGS PER PIECE
3"X3/8" LAG BOLT



1 FRONT WALL SECTION PLANE



2 PLAN VIEW

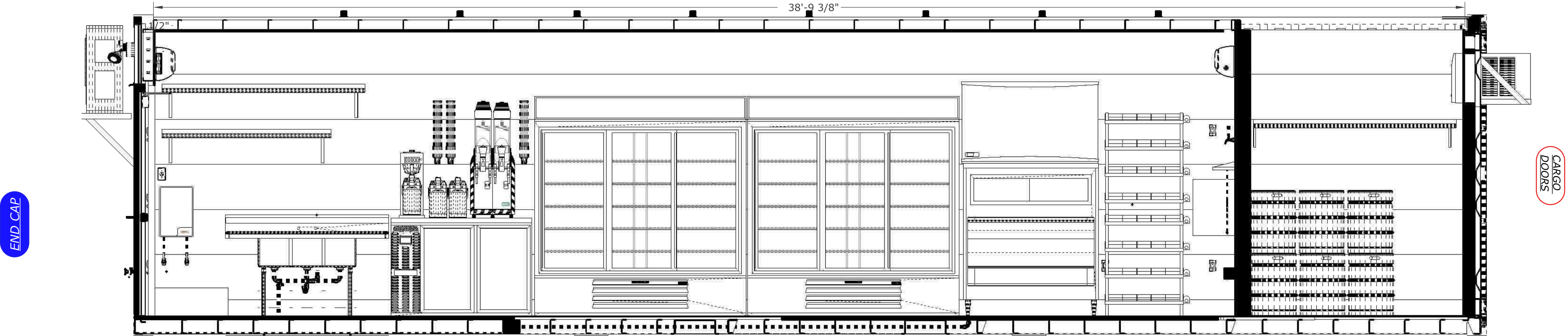
LED TRACK UNDER EACH EXTERIOR K.D. COUNTERTOP

LED TRACK UNDER TUBE THAT RUNS ENTIRE LENGTH

FINISH MATERIALS :

FLOOR: EPOXY FLOOR WITH FLECK **COLOR TBD**
COVE BASE- 4" COVE - GREY- ENTIRE LOWER RIM
WALLS- 1/2" WHITE TRUSS CORE
CEILING: 1/2" WHITE TRUSS CORE
EXTERIOR: PAINT COLOR: PANTONE 309

NUMBER	QNTY	MANUFACTUER	MODEL	TYPE	SIZE	CORRU R.O.	HSS R.O.	NOTES
D1	1	TELL	TELSTAR CD	STANDARD HMD. LEFT HAND REVERSE	35-3/4" X 79-1/8"	3'-8 X 7'-0"	41-1/8" X 82-9/16	LEVERED HANDLE, DEADBOLT (KEYED ALIKE), CRASHBAR, WIND CHAIN, WEATHER STRIP KIT, THRESHOLD.



3 BACK BAR SECTION PLANE



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SECTION PLANES WITH DIMS

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DESIGNED BY:
SB

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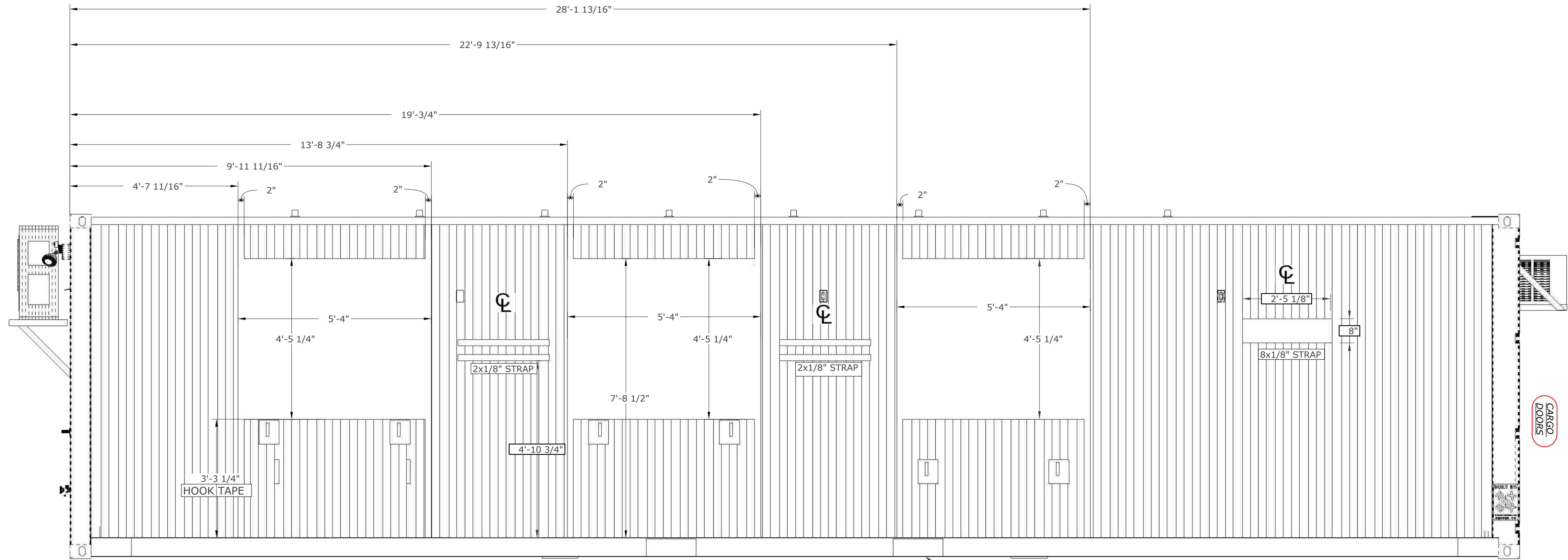
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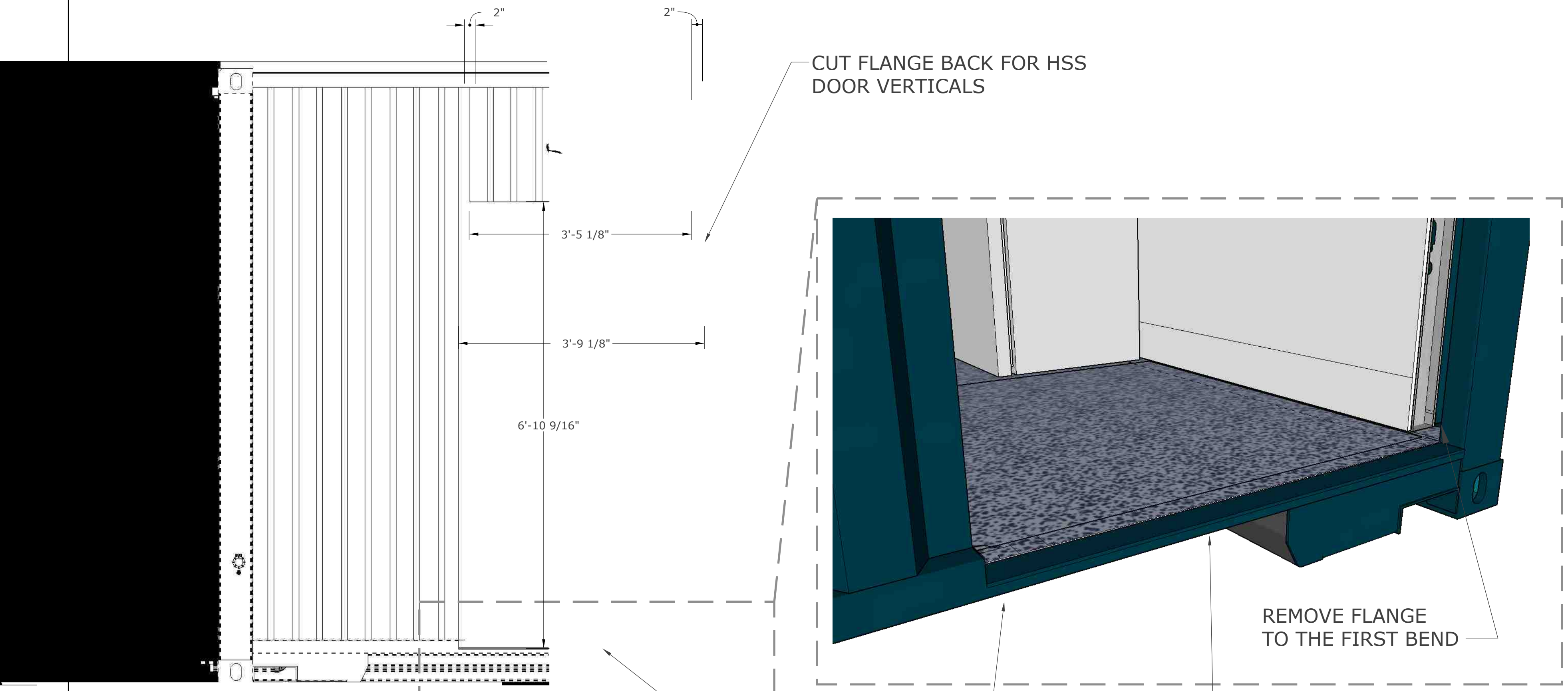
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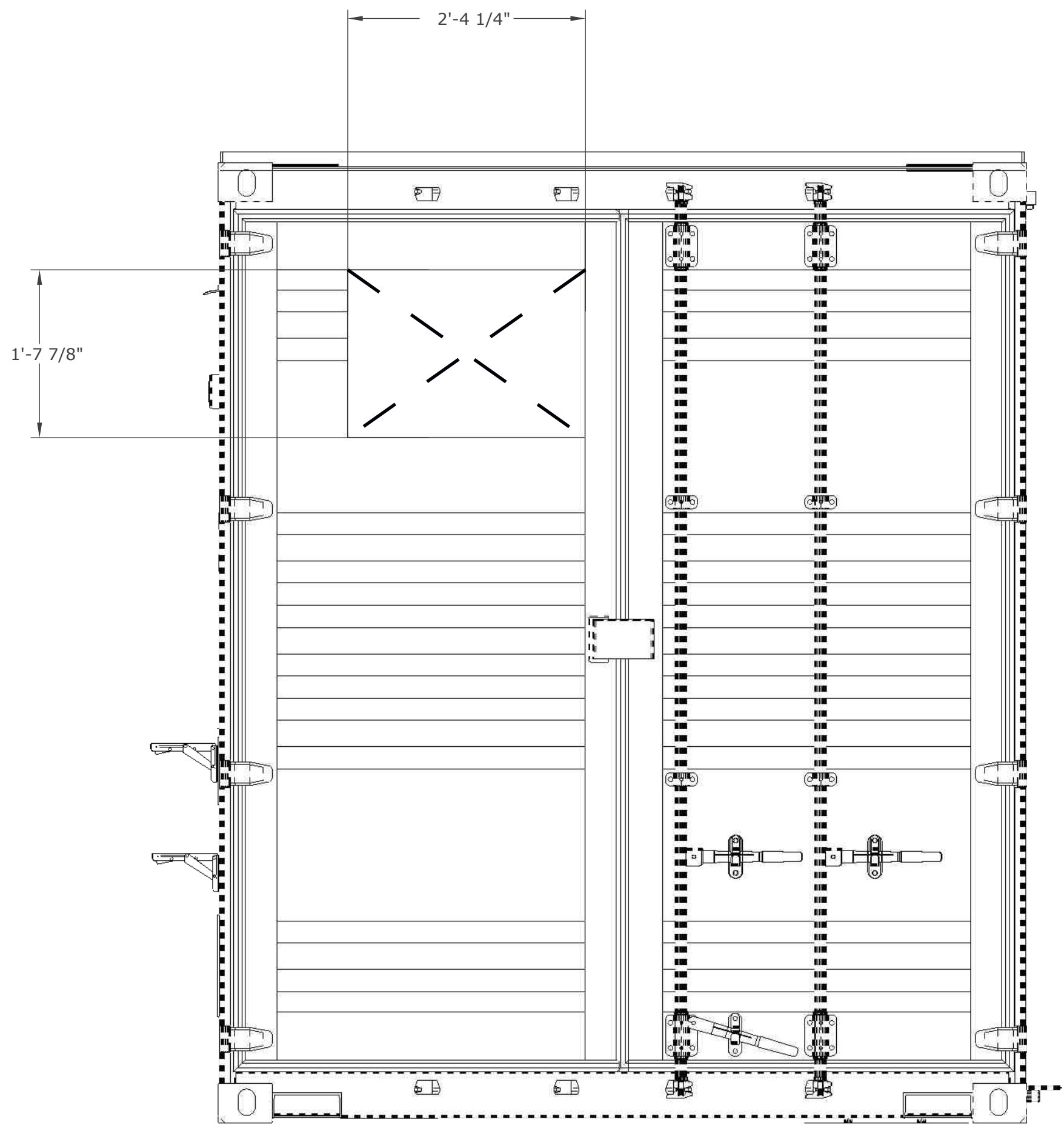
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1 FRONT WALL EXTERIOR PENETRATIONS



2 END CAP PENETRATION



3 CARGO DOOR PENETRATIONS



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PENETRATIONS

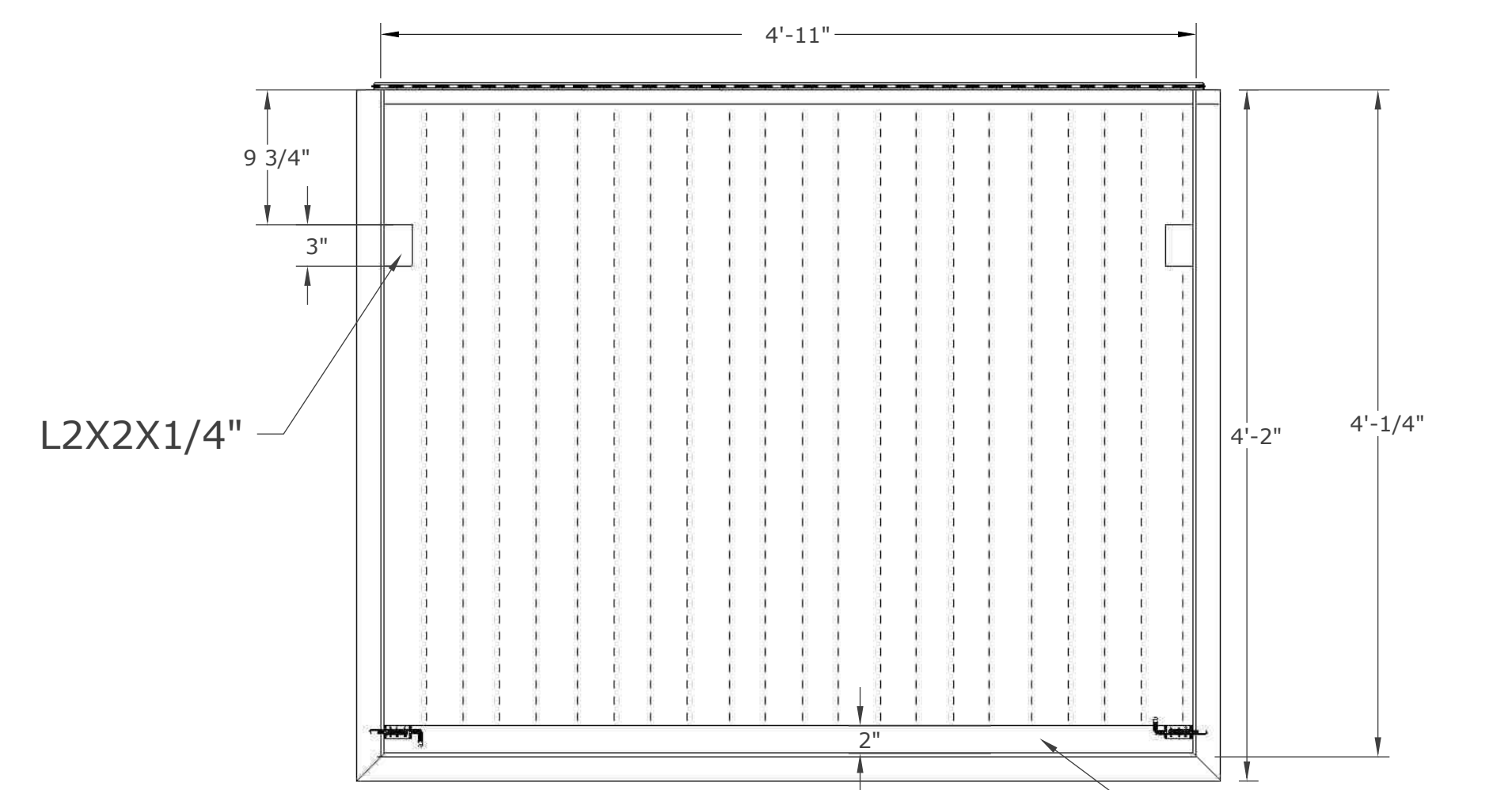
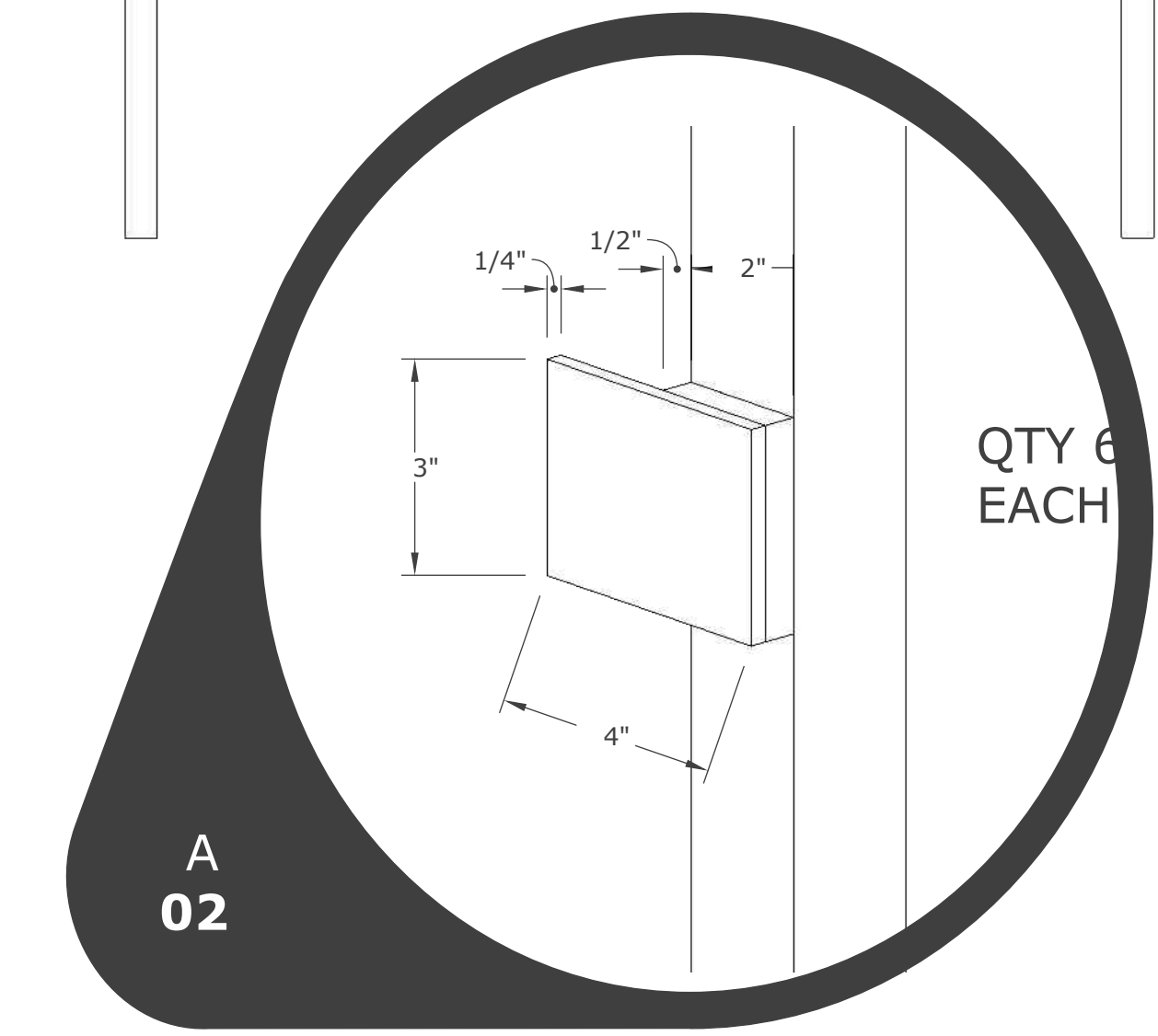
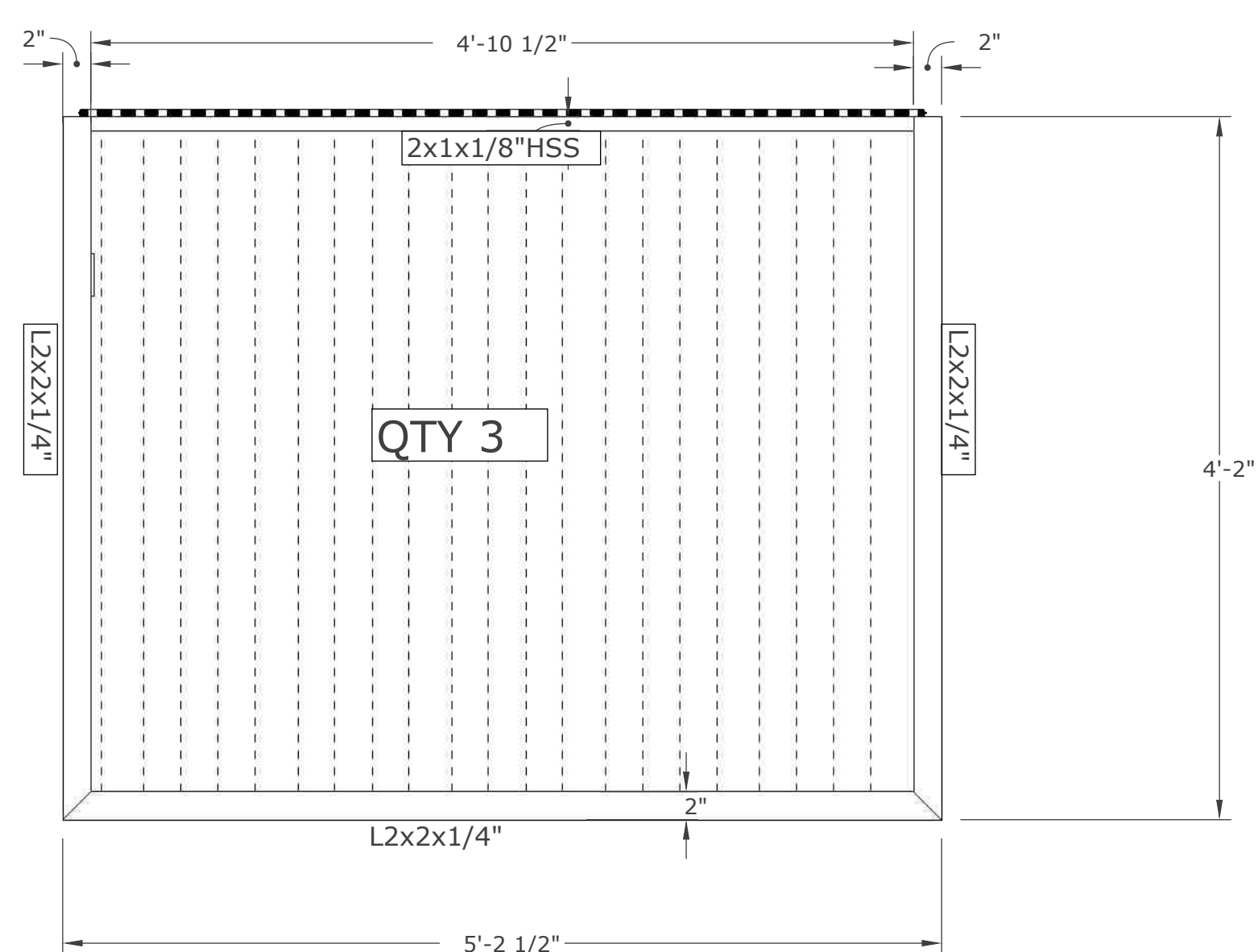
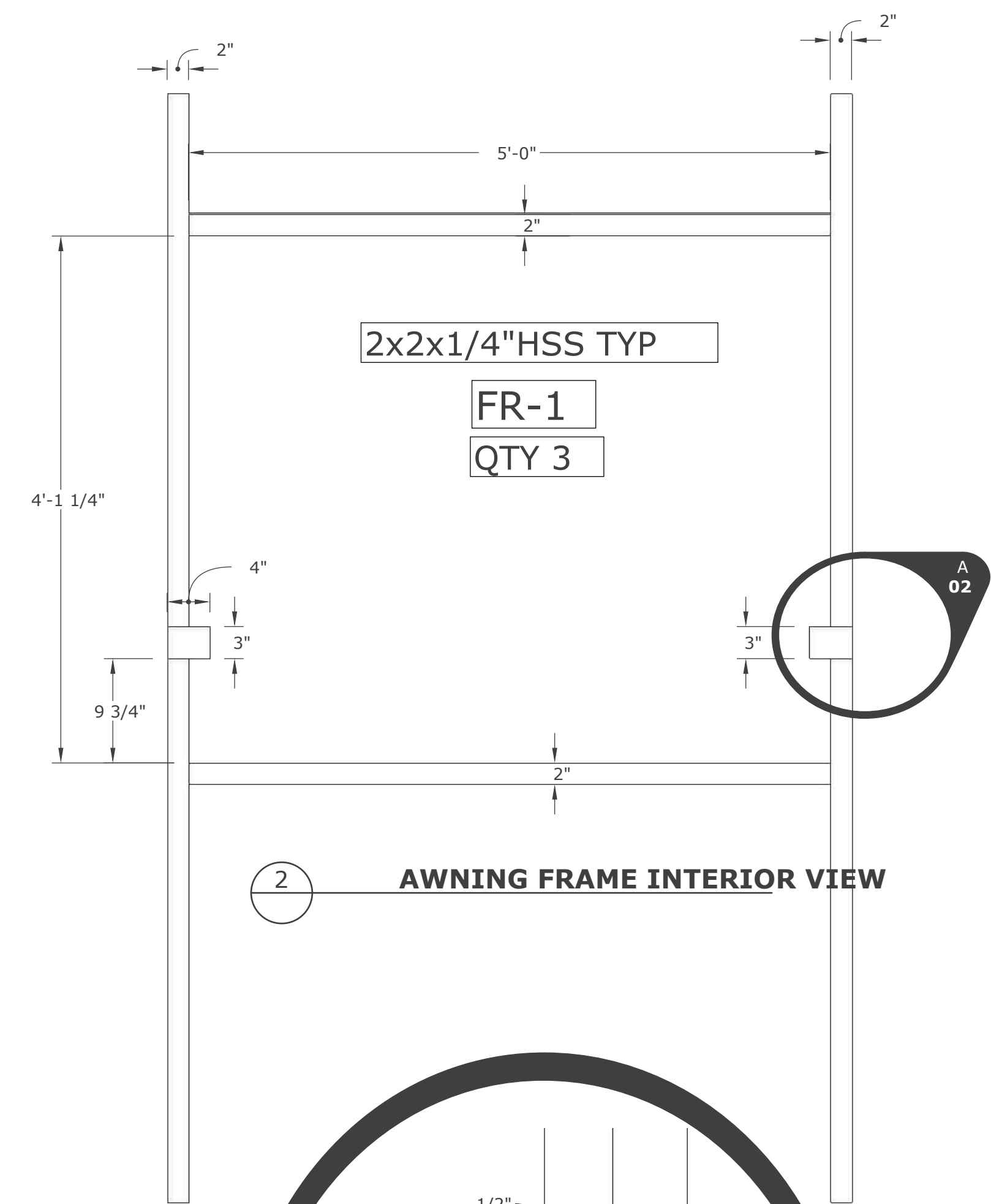
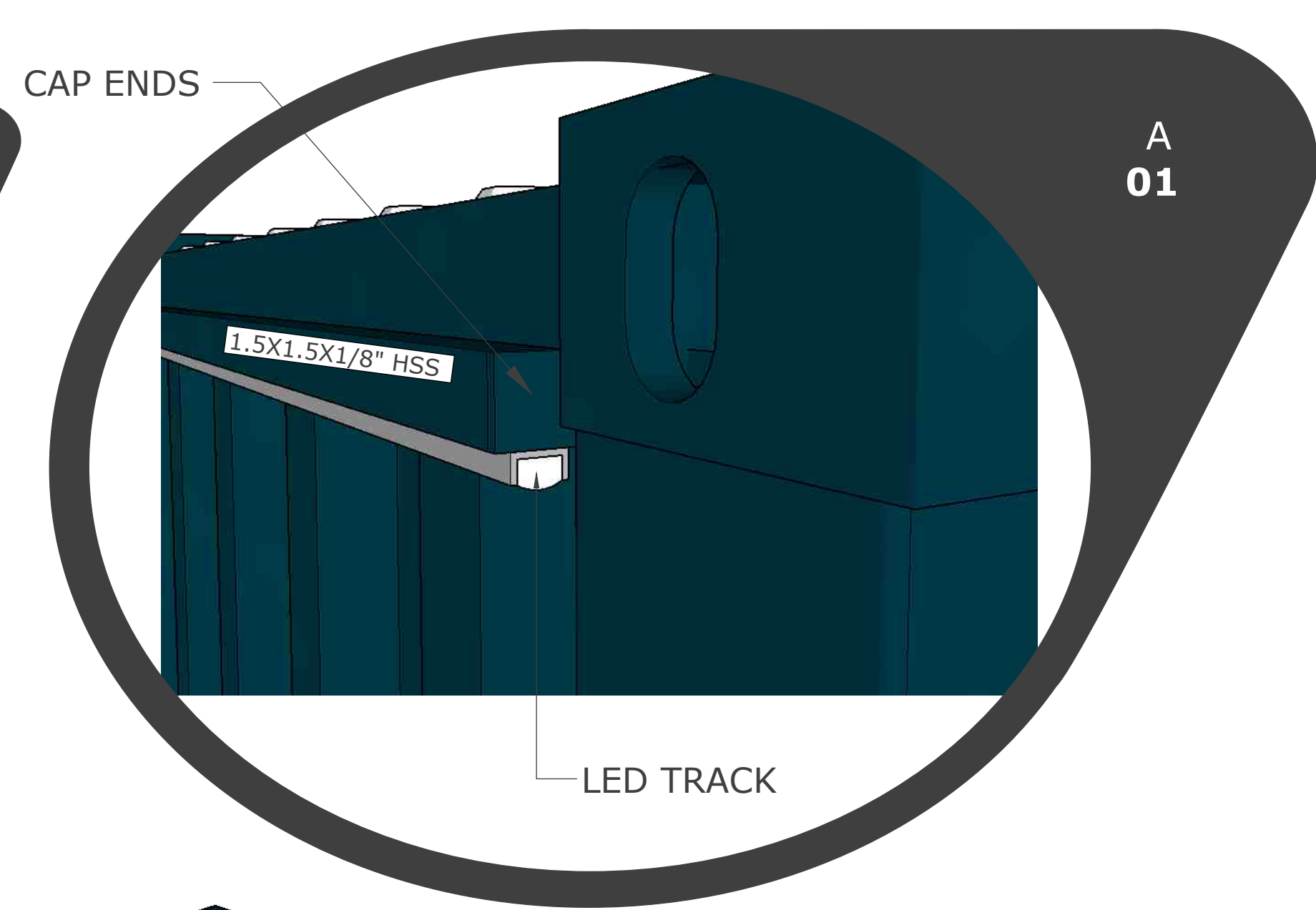
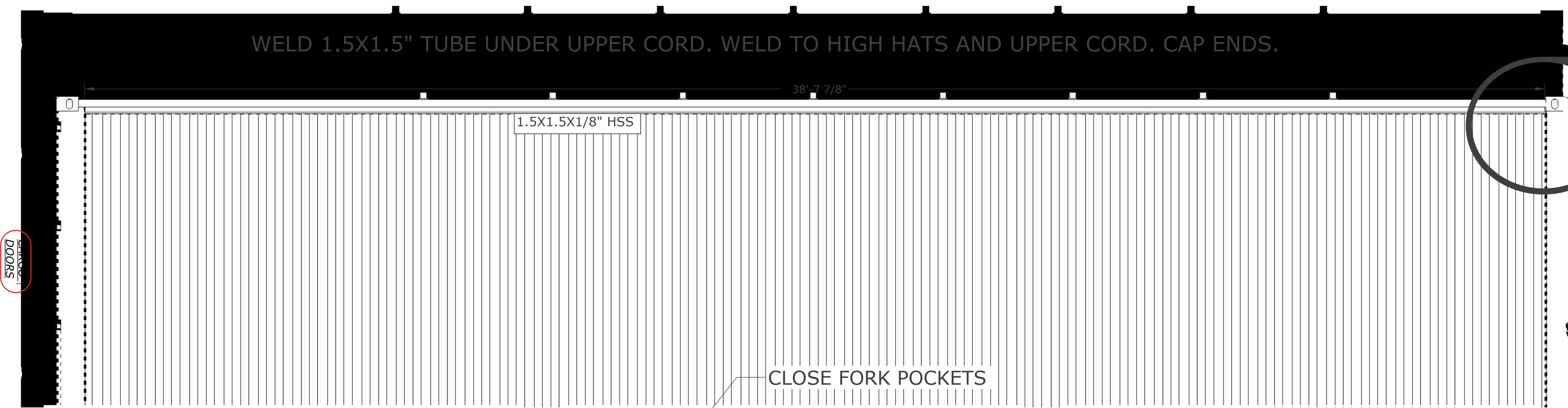
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S 05

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HARDWARE	QNTY	LENGTH	NOTES
SLIDE LOCKS	6	STD	
STRUTS	6	STD	
STAINLESS PIANO HINGES	3	5'	
STAINLESS BREAK METAL COVERS	3	5'L . 2"SL, 6.25" LL, 2"SL	U SHAPED COVERS FOR AWNING THRESHOLD. ORDER 1" LONG AND TRIM TO SIZE

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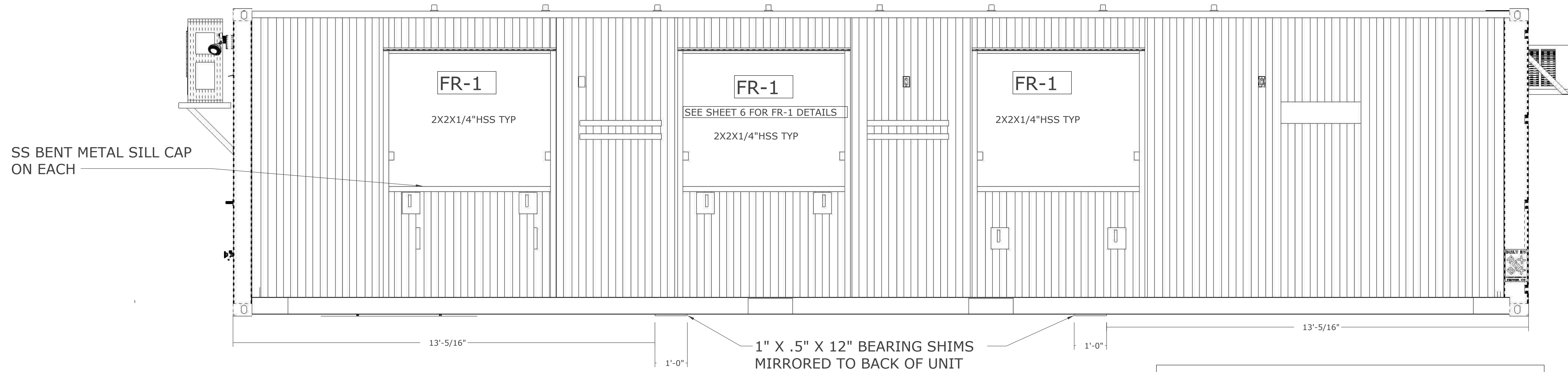
paragon star

BACK WALL AND AWNING DETAILS

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PROJECT NUMBER 2031
S 06

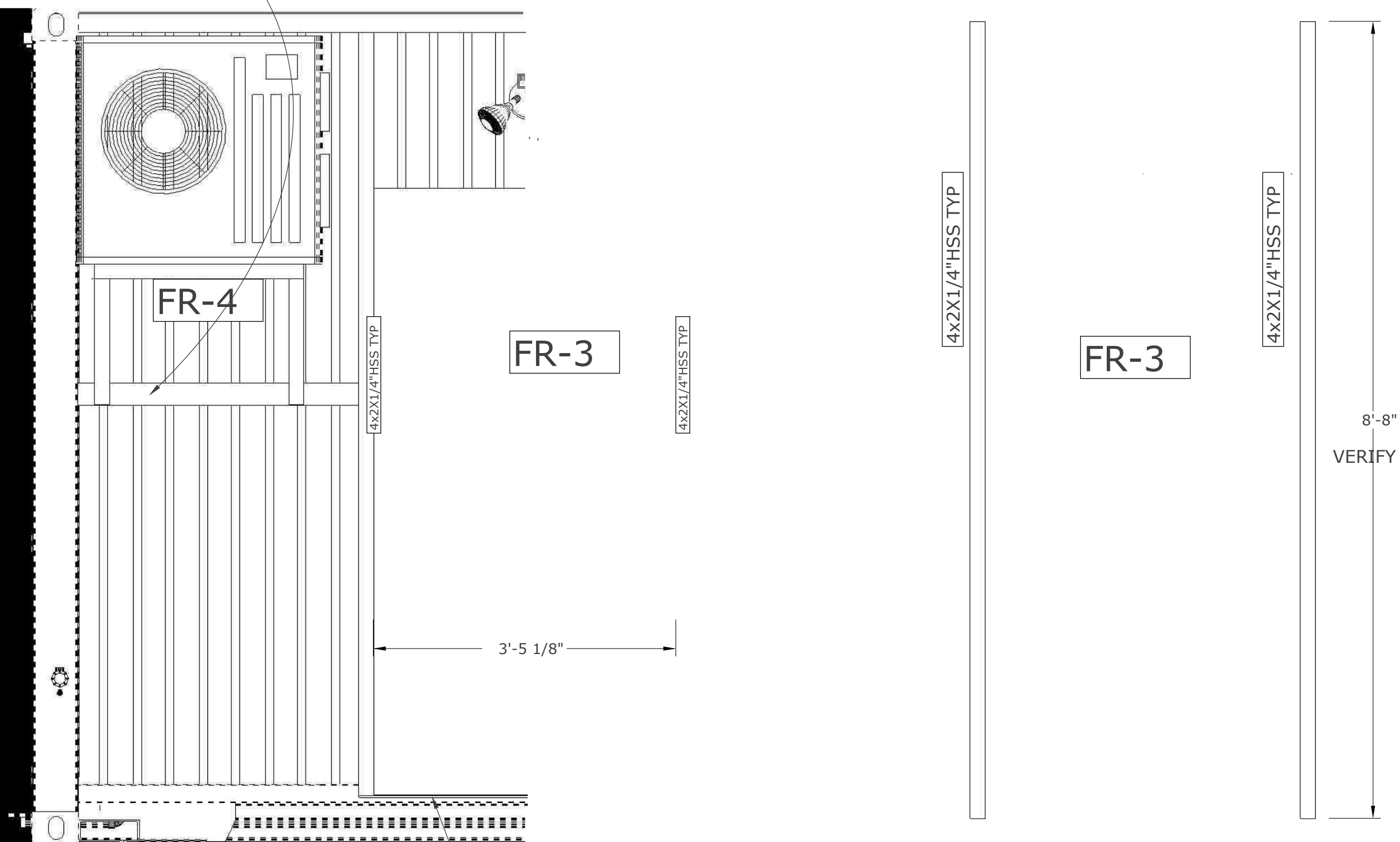
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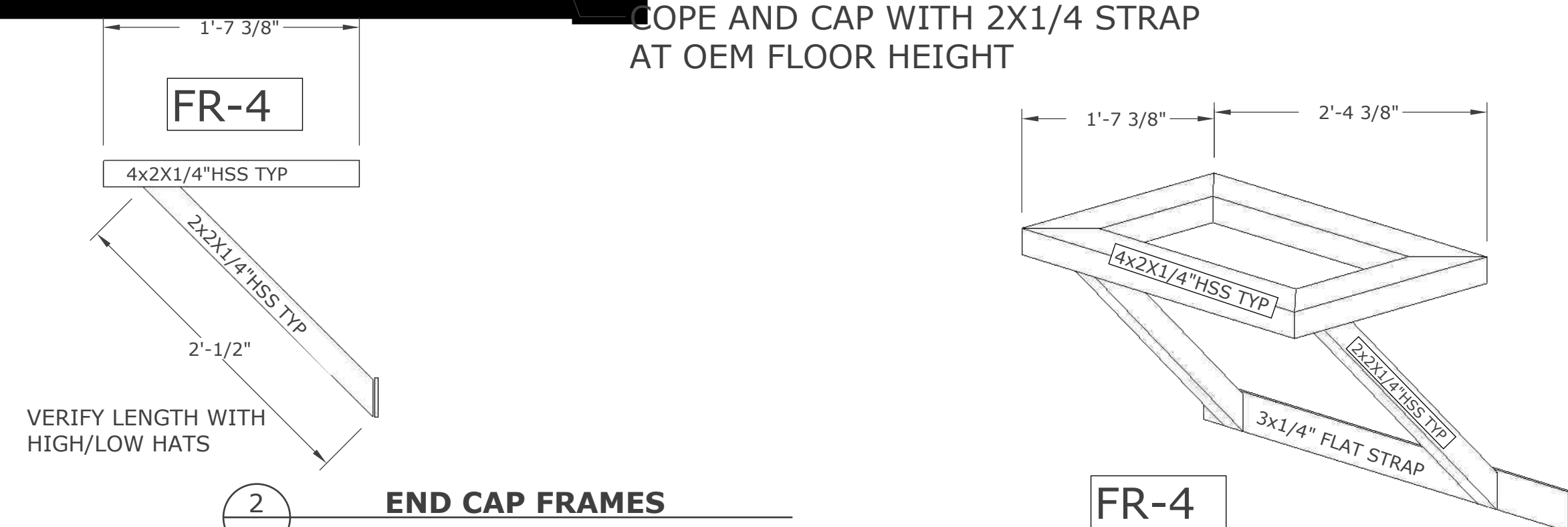
1 FRONT WALL FRAMES- EXTERIOR

QNTY 6 K.D. BRACKETS FOR COUNTERTOPS

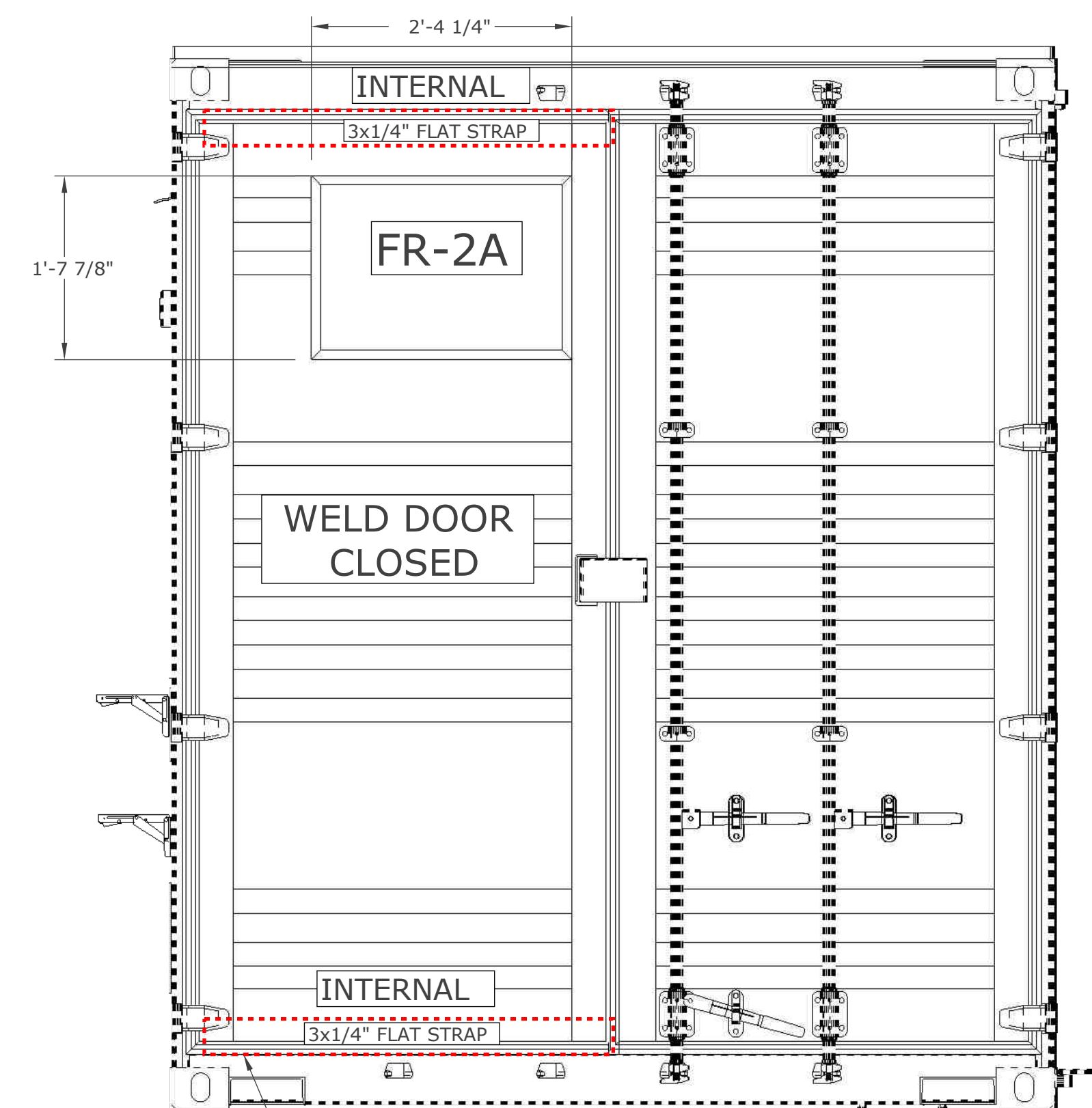
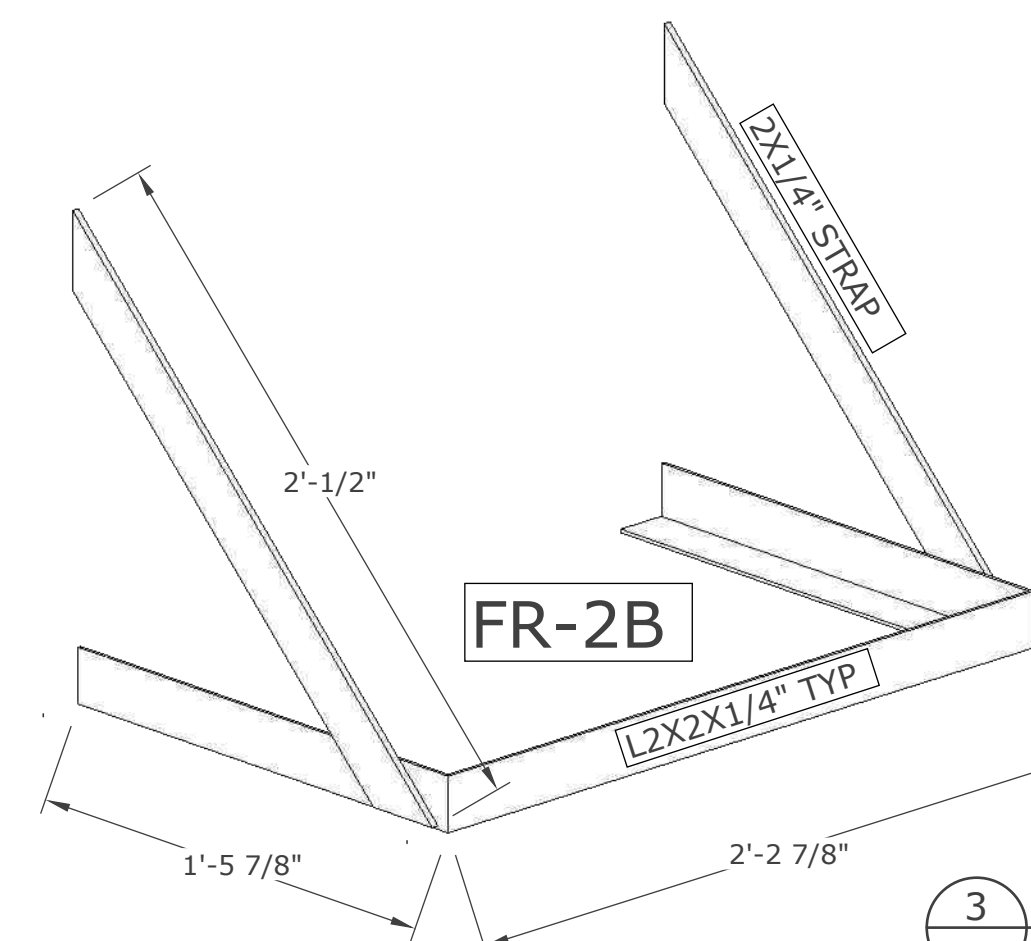
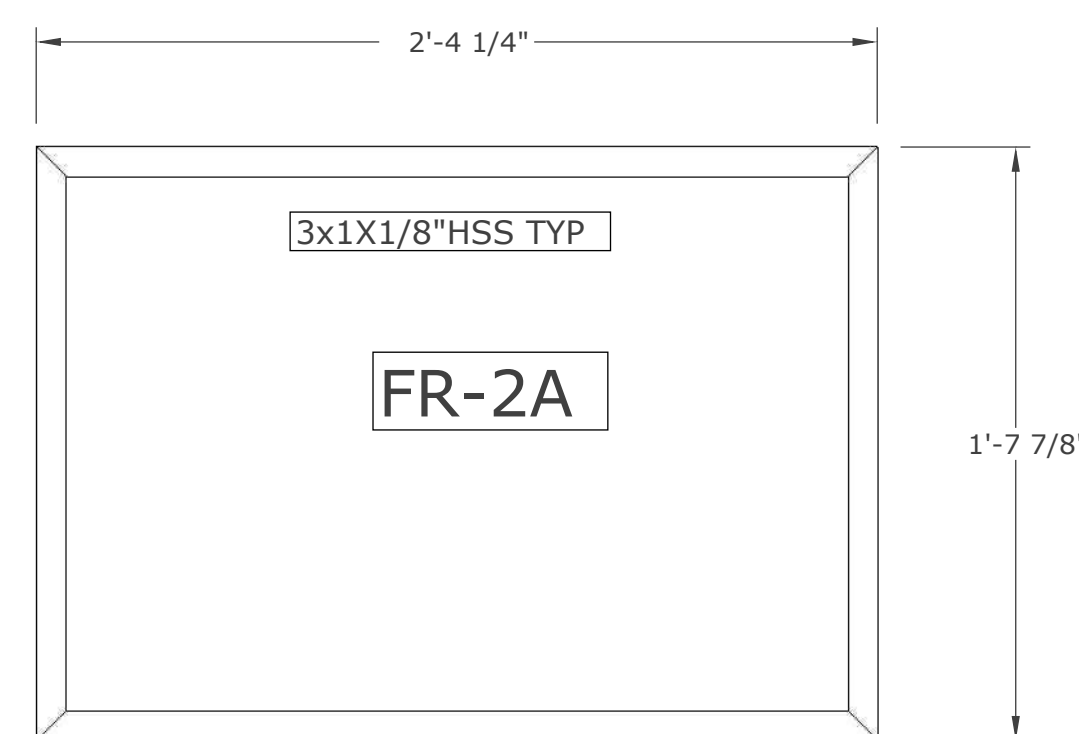
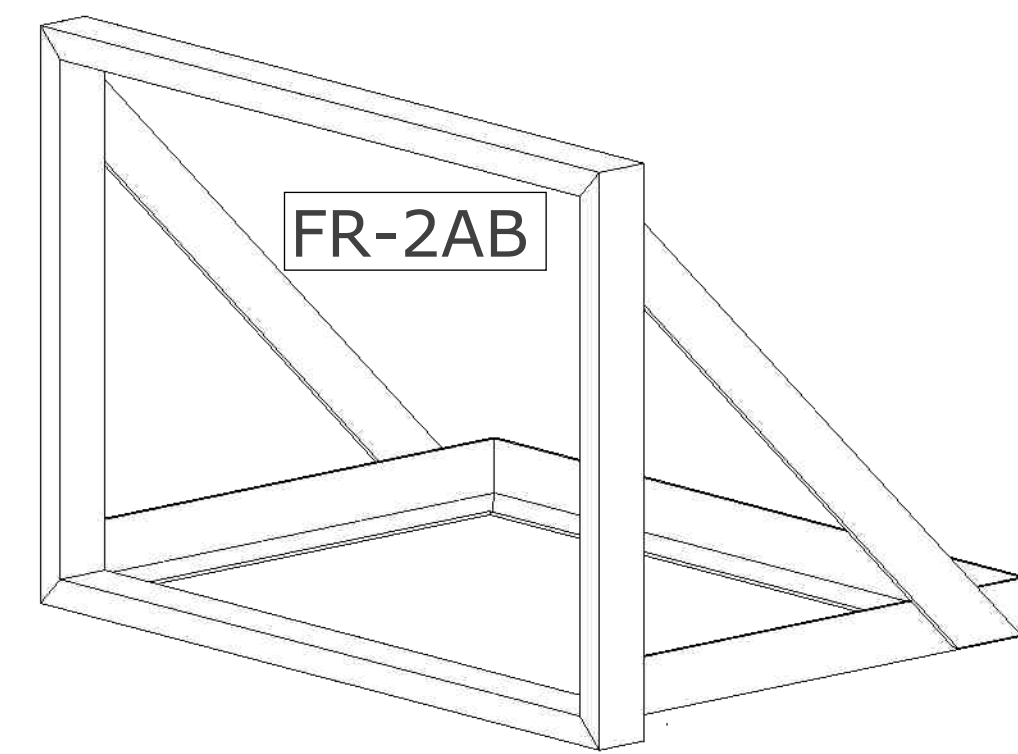
3X1/4" FLAT STRAP



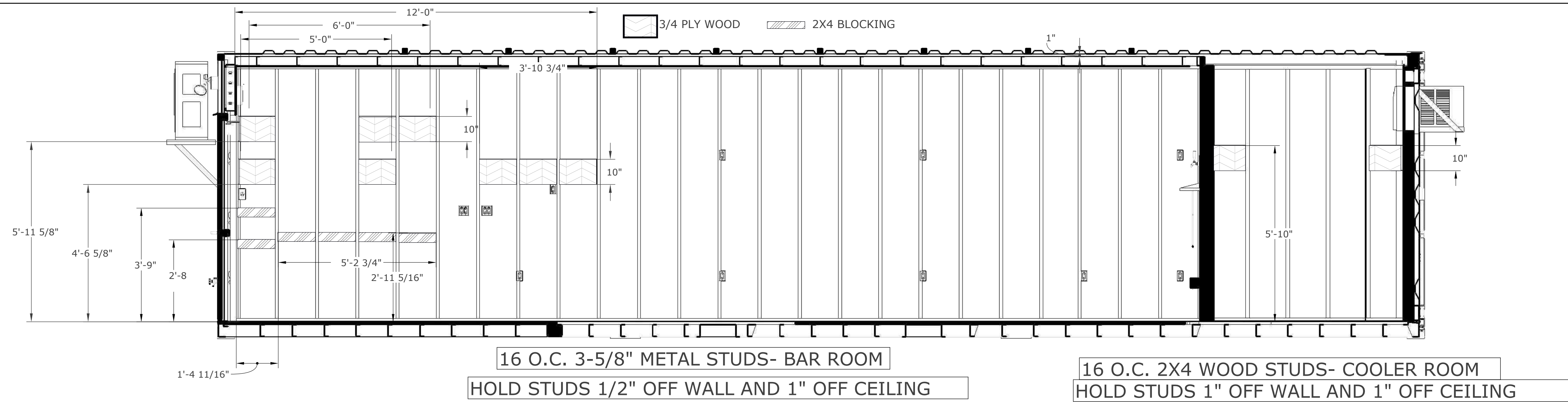
COPE AND CAP WITH 2X1/4 STRAP AT OEM FLOOR HEIGHT



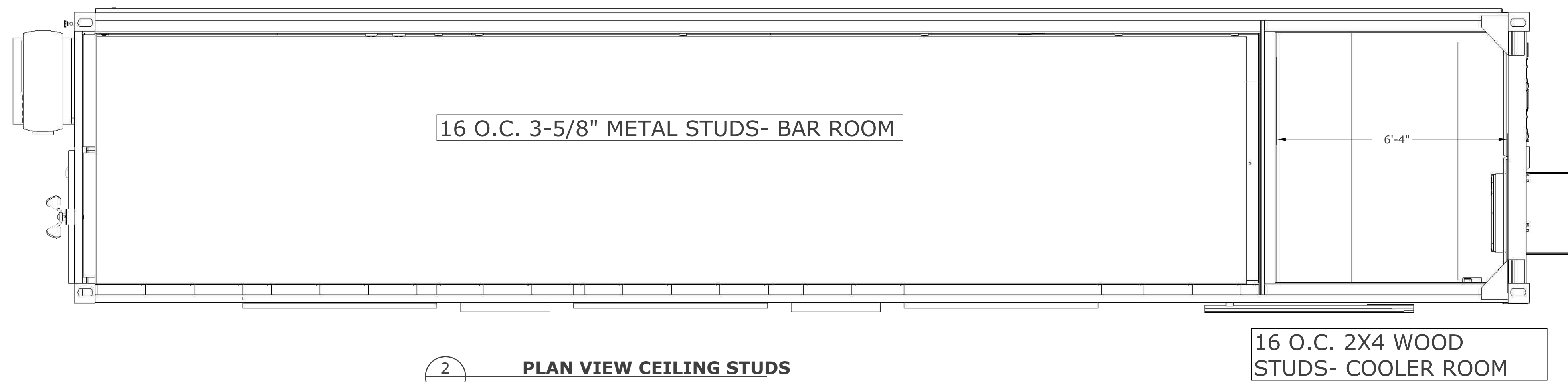
2 END CAP FRAMES



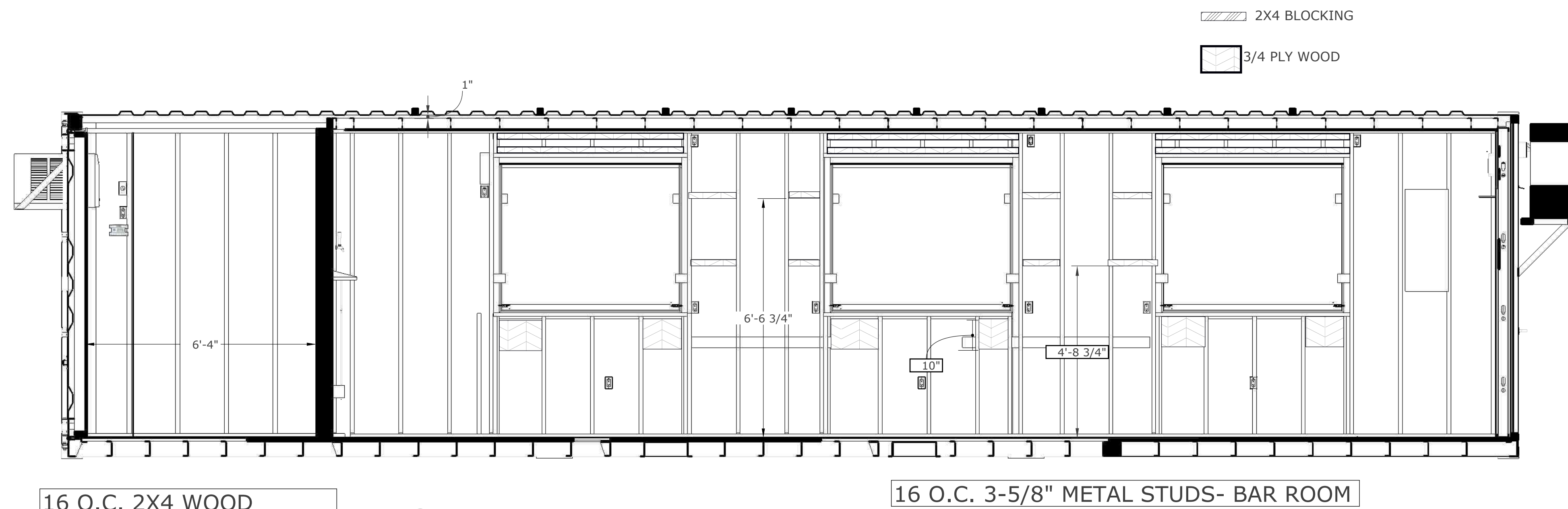
3 CARGO END FRAMES



1 BACK WALL STUDS AND BLOCKING



2 PLAN VIEW CEILING STUDS



3 FRONT WALL STUDS AND BLOCKING



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STUDS AND BLOCKING

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SB

DATE:
3-29-2023

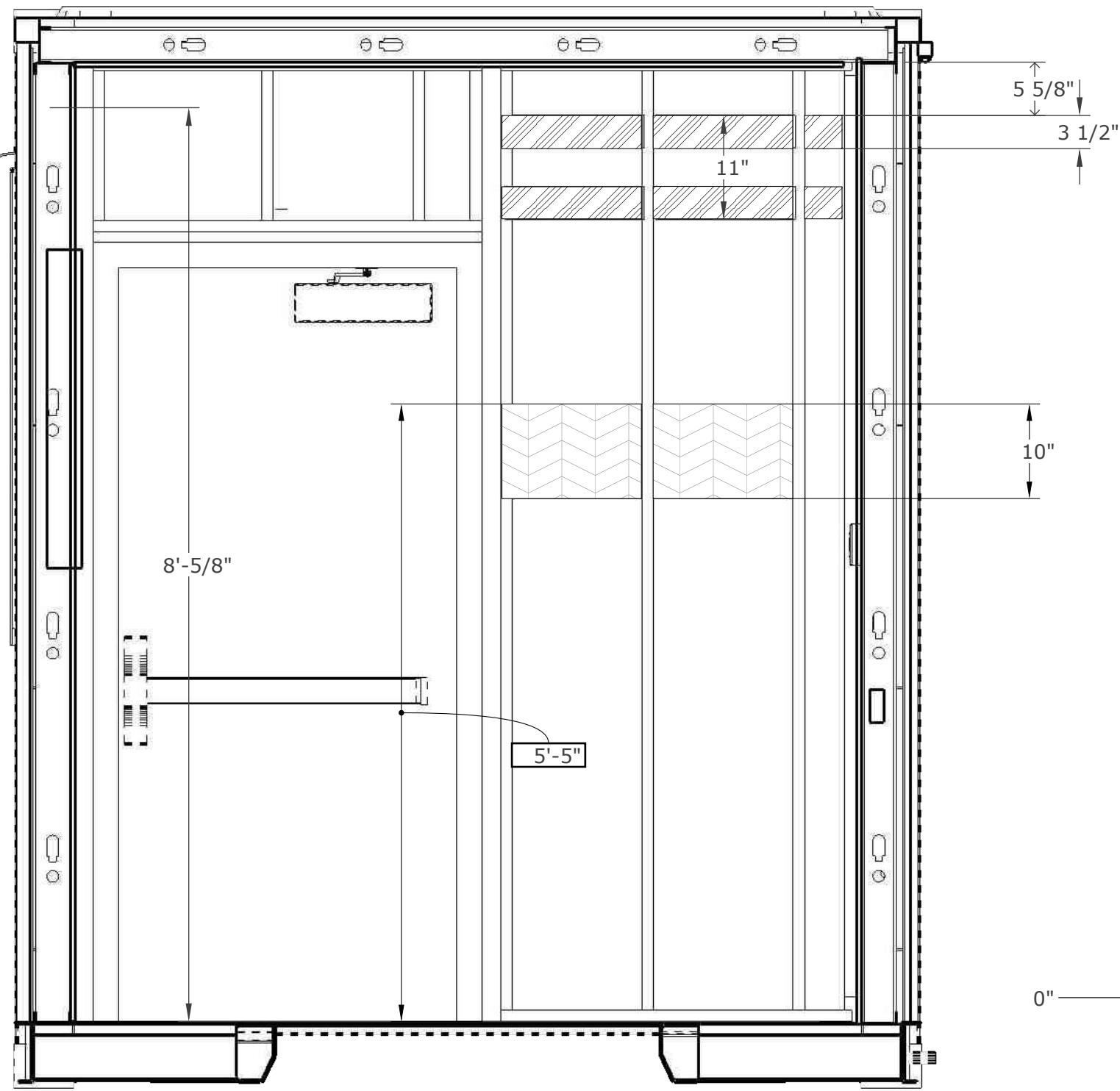
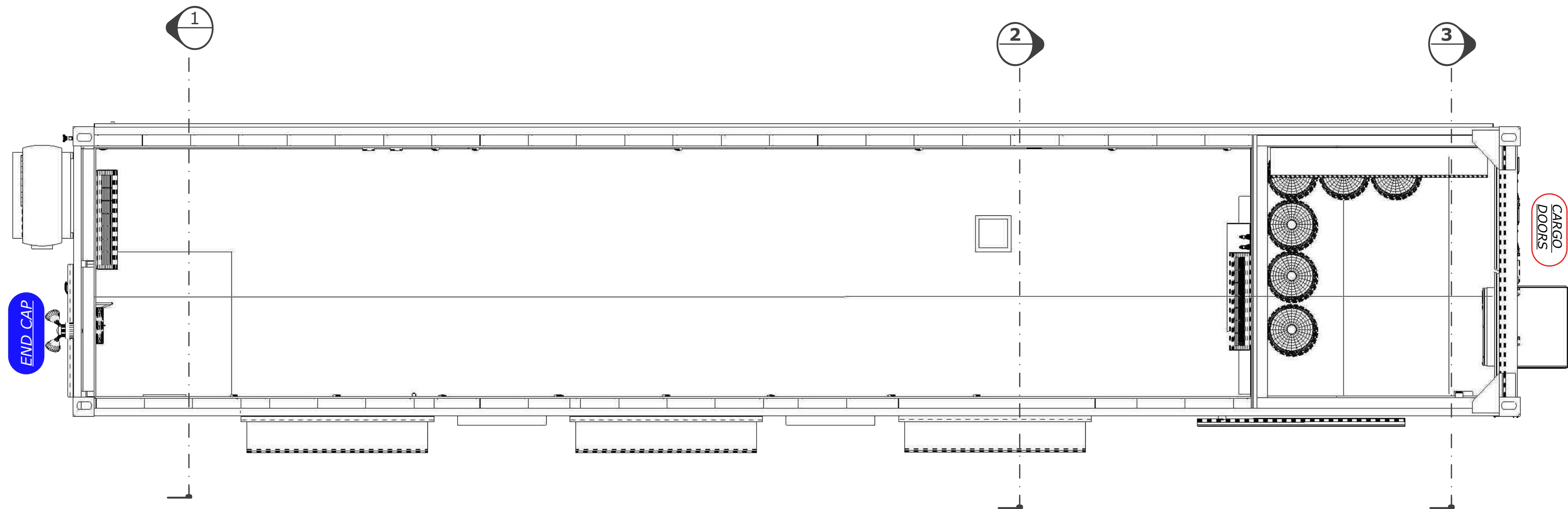
REVISIONS

REV.
2.5

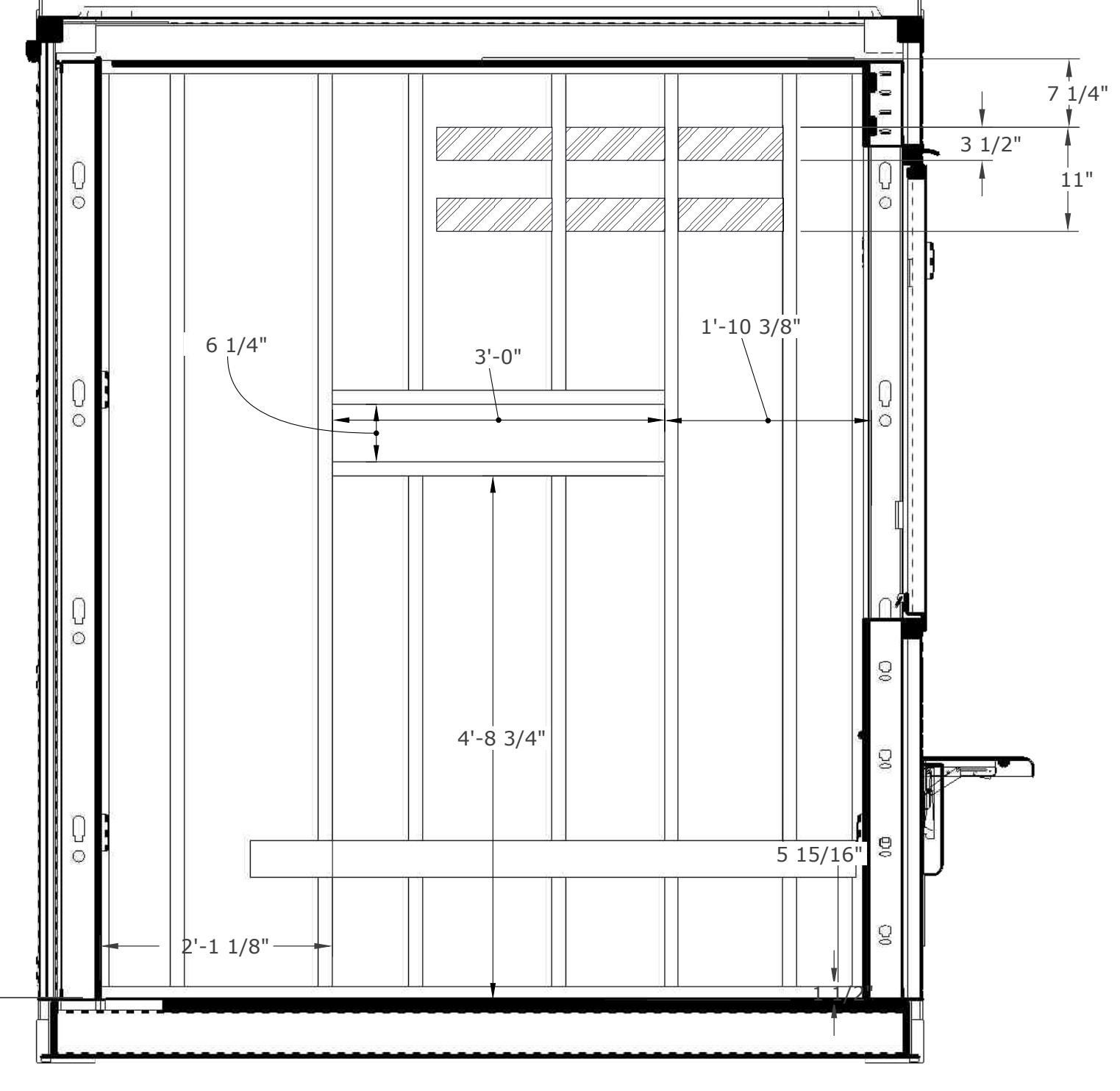
PROJECT NUMBER
2031

08

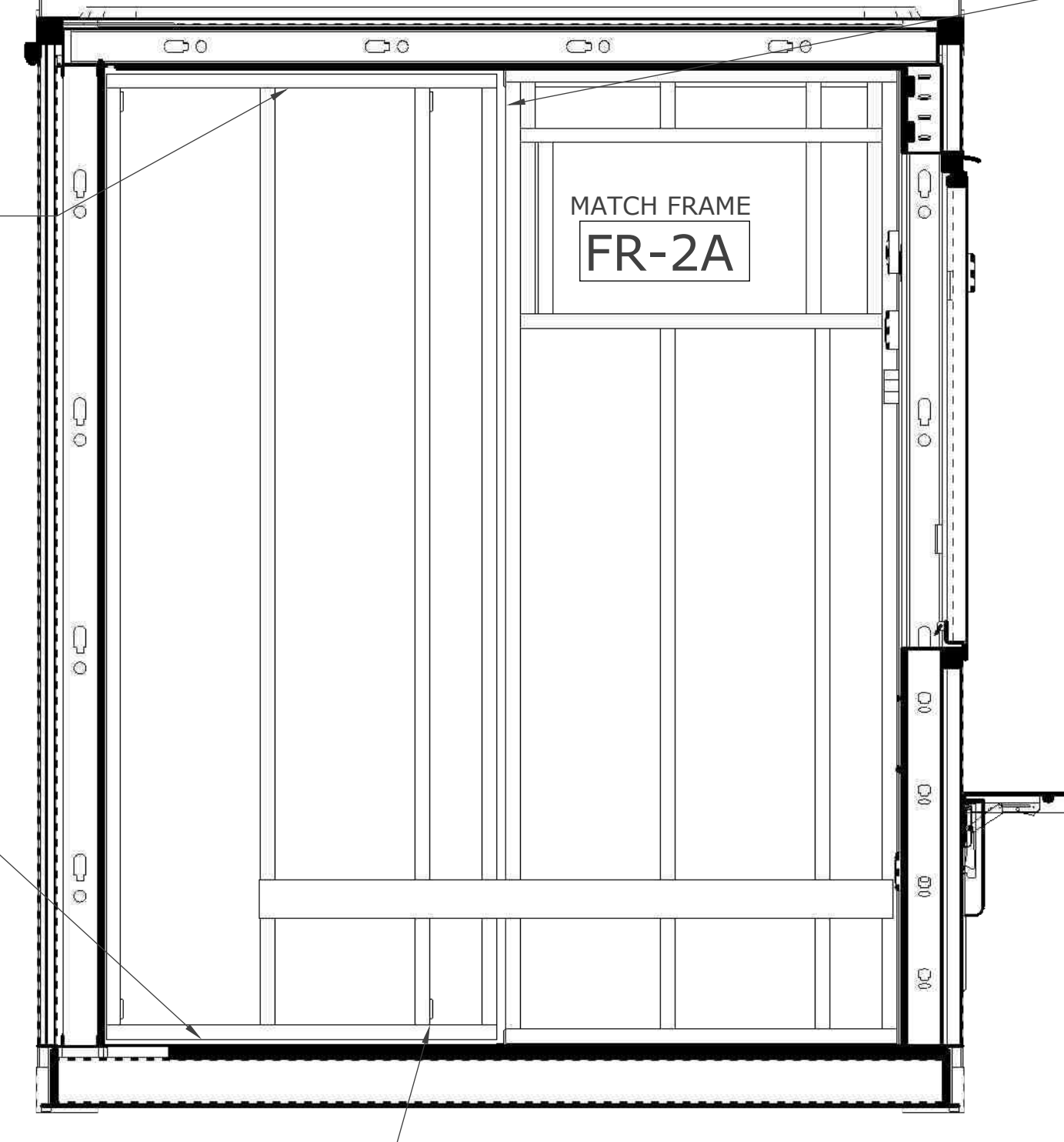
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1 END CAP WALL STUDS- INTERNAL VIEW



2 DEMISING WALL STUDS- INTERNAL BAR VIEW

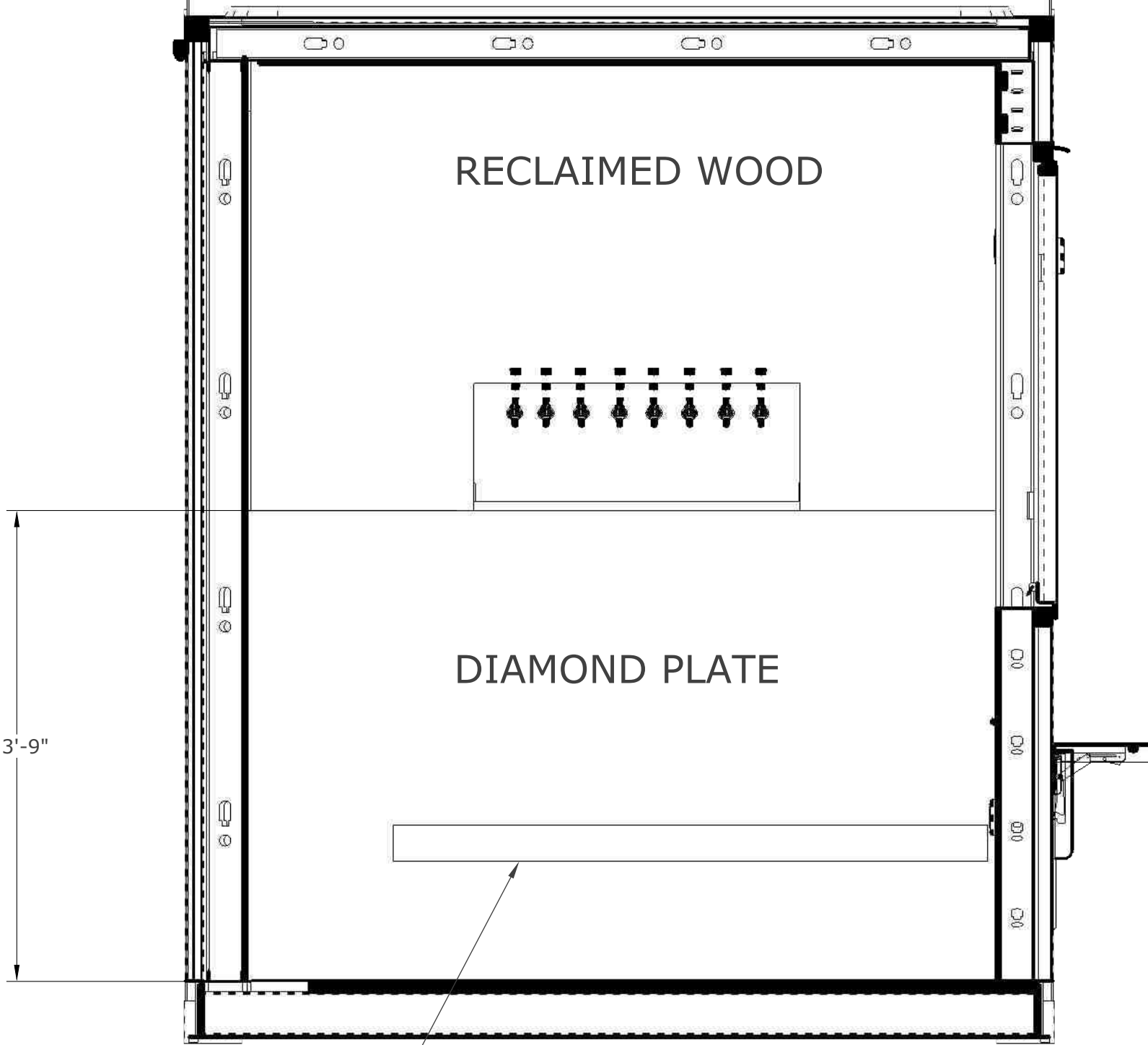


3 COOLER DOOR WALLS STUDS

HOLD STUDS OFF CEILING FRAMING 1" (TRUSS CORE TAKES 1/2 OF TOLERANCE LEAVING 1/2" GAP)

HOLD DOOR STUDS OFF FLOOR 1" (TRUSS CORE TAKES 1/2 OF TOLERANCE LEAVING 1/2" GAP)

SWEEPS REQUIRED ON COOLER DOOR, 3 SIDES



DIAMOND PLATE TRUNK LINE COVER

- 3/4 PLY WOOD
- 2X4 BLOCKING

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STUDS AND BLOCKING

DRAWN BY: SB
DESIGNED BY: SB
DATE: 3-29-2023

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PROJECT NUMBER 2031
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ALL EQUIPMENT IS AS SPEC'D OR SIMILAR

NUMBER	QTY	ITEM	MANUFACTUER	MODEL #	VOLTS	WATTS	AMPS	PHASE	HERTZ	RPW/H P	PLUG	NEMA	NOTES
1	1	3 COMP SINK	ADVANCE TABCO	FC-3-1515									50L, 21W, 43H
2	1	HAND SINK	ADVANCE TABCO	CR-HS-12									12L, 16W, 12H. FAUCET INCLUDED
3	1	COFFEE MAKER	BUNN	38700.0010	120	1425	12	1	60		X	5-15P	23.6H, 9W, 18.5D
4	2	AIR POTS	BUNN	32125.0000									
5	1	SLUSH MACHINE	BUNN	34000.0501	120	1440	12	1	50/60		X	5-15P	16W, 25D, 42H. 4 GAL CAP
6	8	STAINLESS CUP DISPENSER	SAN JAMAR	C3400P									23.5L, 12-24OZ CUP
7	2	REFRIGERATED GLASS DOOR MERCHANDISER	BEVERAGE-AIR	MMR66HC-1-B	115		6.2	1	60	1/2	X	5-15P	75W, 32.12D, 78H. BLACK, SLIDING DOORS
8	1	ICE MACHINE	RENTAL										SUPPLIED BY CLIENT
9	1	HOT WATER HEATER	RHEEM	RTEX-18	240	18 KW	75						7 GAL GPM. (2) 40 AMP BREAKER. 18.25H, 14.5W, 3.5D. 3/4" INPT
10	1	6'X12" STAINLESS STEEL SHELF	ADVANCE TABCO	WS-12-60-16									REMOVE CENTER LEG ABOVE SERVICE WINDOW. SCREW BACKSLASH INTO BLOCKING
11	1	AC WINDOW UNIT	LG	LW2516ER	230/208	2330/230	11.8/10.9	1			X		26W, 17-11/16"H, 28-1/8"D
12	1	COOLBOT PRO	COOLBOT	CC-S0HV-MOUT	120		1	1			X	5-15	6.5W, 3.5H 1.5D
13	1	SODA BAG RACK	RENTAL										SUPPLIED BY SODA VENDOR
14	1	CO2 TANK	RENTAL										SUPPLIED BY CLIENT
15	1	85" TV	SUPPLIED BY CLIENT		110						X	5-15	
16	1	MINI SPLIT HEAD 7K	LG	LMN079HVT									33W, 12H, 8.25D. POWERED FROM CONDENSER
17	2	5'X10" STAINLESS STEEL COUNTER (INTERNAL)	ADVANCE TABCO	WS-10-60									60LX12D
18	2	SODA GUN	SUPPLIED BY CLIENT										SUPPLIED BY SODA VENDOR
19	2	ICE WELL	ADVANCE TABCO	SLI-12-48									48W, 18D, 33H. 161LB CAP.
20	1	UNDER COUNTER COOLER	TURBO AIR	JUR-36S-N6	110		1.7	1	60	3/8	X	NEMA 5-15	35W, 24D, 33.75H
21	2	TV MENU BOARDS	SUPPLIED BY CLIENT		110						X	NEMA 5-15	52-58" TV
22	1	HEATED AIR CURTAIN	BERNER	CLC08-1072E	208	707@208V, 816@240V	1.7A PER CIRCUIT	1	60	1/5	X		2010 CFM. 2 CIRCUITS, 2 15A BREAKERS
23	1	DUMP SINK	ADVANCE TABCO	CR-HS-12									36W,10D
24	1	MINI SPLIT CONDENSER	LG	LMU183HV	208/230		20	1	60				18k BTU. 20A FUSE
25	1	MINI SPLIT HEAD 9K	LG	LSN090HSV5				1	60				33W, 12H, 8.25D. POWERED FROM CONDENSER
26	3	5' STAINLESS STEEL COUNTERTOPS	TEXAS METAL CONNECTION	CUSTOM									51" L D, 1.5"H, custom 16 GA 304 Stainless #4 Brushed finish with 1 1/2" side profile, corners welded and ground smooth
27	2	3' ADJUSTABLE SHELVING RACK	TBD										
28	2	5'X 1' STAINLESS STEEL SHELF	ADVANCE TABCO	WS-12-60									
29	1	10 FAUCET BEER TAP HOUSE	FOXX EQUIPMENT	11Q09210									36L, 14H, 6.5"D. 10 FAUCET
30	3	POS	MINT/ TOAST		110						X		SUPPLIED BY CLIENT
31	1	UNDER BAR REFRIGERATOR	CONTINENTAL	BB50NGD	115		3.7	1	60	1/4 HP	X	5-15	50W, 24.5D, 34.75H. GLASS FRONT
32	1	HOSE BIB	WOODFORD	17CP-10-MH									
33	1	6' x 12" STAINLESS STEEL SHELF (ABOVE SINK)	ADVANCE TABCO	WS-12-72									72L, 12D
34	1	PAPER TOWEL DISPENSER	LAVEX	712PTD200									11W, 10H, 4D
35	1	MOP SINK	ADVANCE TABCO	9-OP-20-EC									21W, 25D, 10H
NUMBER	QTY	ITEM	MANUFACTUER	MODEL #	VOLTS	WATTS	AMPS	PHASE	HERTZ	RPW/H P	PLUG	NEMA	NOTES



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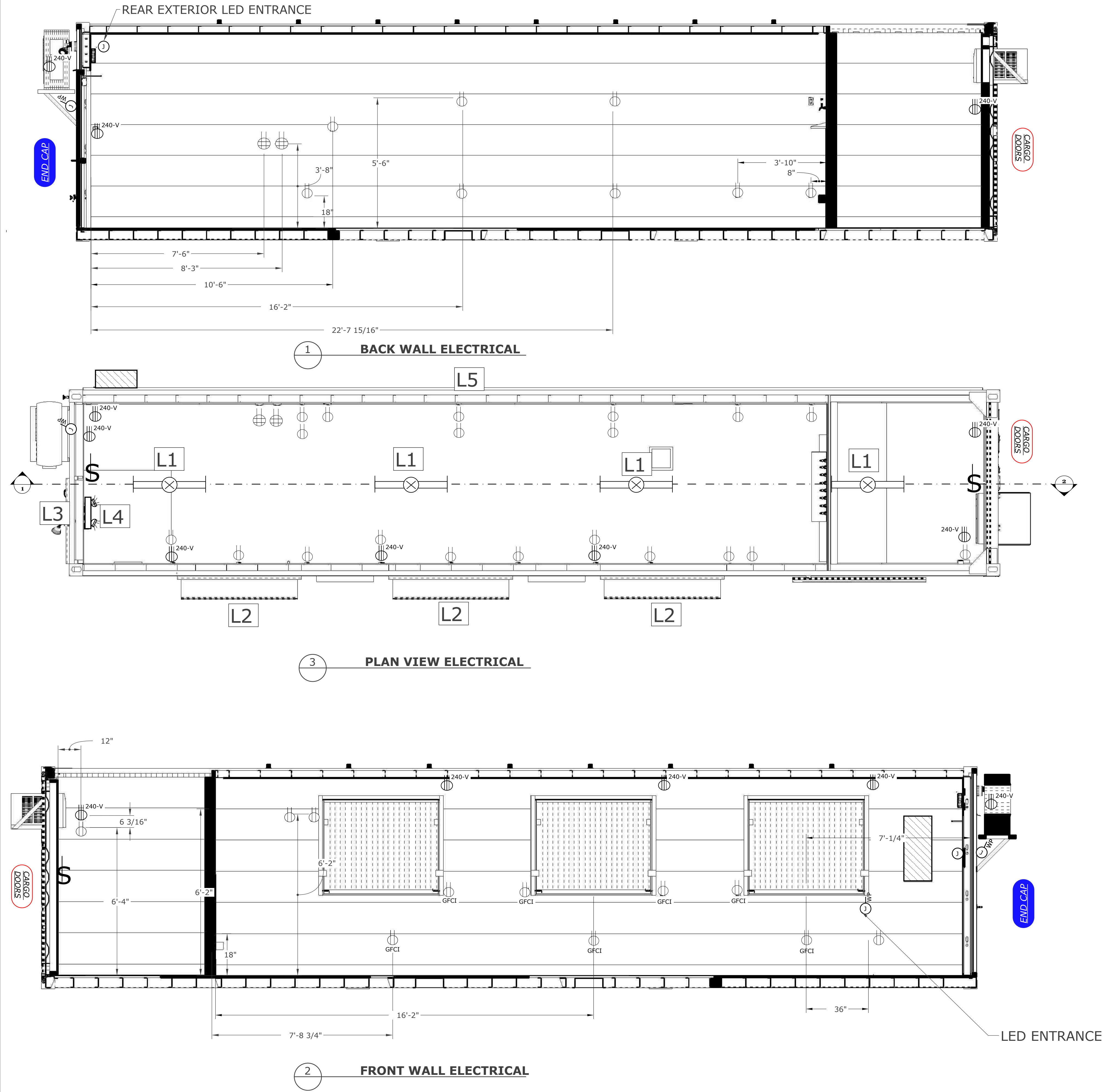
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ELECTRICAL PLAN

LIGHT SWITCH

CEILING MOUNTED CAGE LIGHT

LED TUBE VAPOR LIGHT

STANDARD 120V/15A ELECTRICAL RECEPTICAL

STANDARD 120V/ 20A GFCI RECEPTICAL

WEATHER PROOF 120v- OUTLET

120v- 4PLEX OUTLET

240-v OUTLET

WEATHER PROOF 240v JUNCTION BOX

CAT-5/6 DATA OUTLET

EXIT SIGN WITH EMERGENCY LIGHTS

200 AMP DISTRIBUTION BOX

NUMBER	QNTY	LIGHT	SPECS	LENGTH
L1	1	VAPOR TIGHT LIGHT	120V	49.5
L2	3	UNDERCOUNTER LED	120V	6' PER
L3	1	FLOOD LIGHT	120V	
L4	1	EMERGENCY EXIT LIGHT		
L5	1	LED LIGHT STRIP		38'-6"

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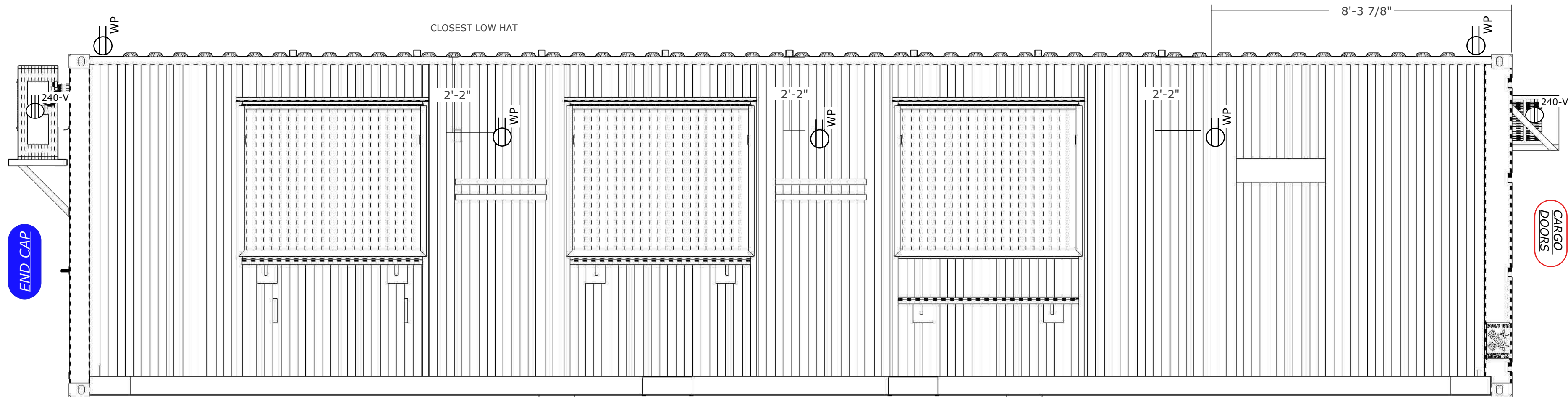
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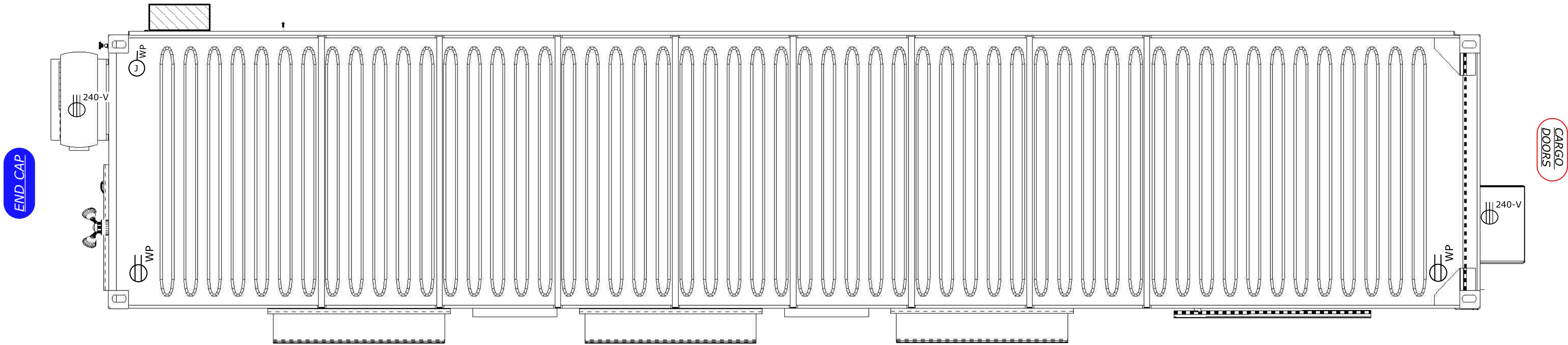
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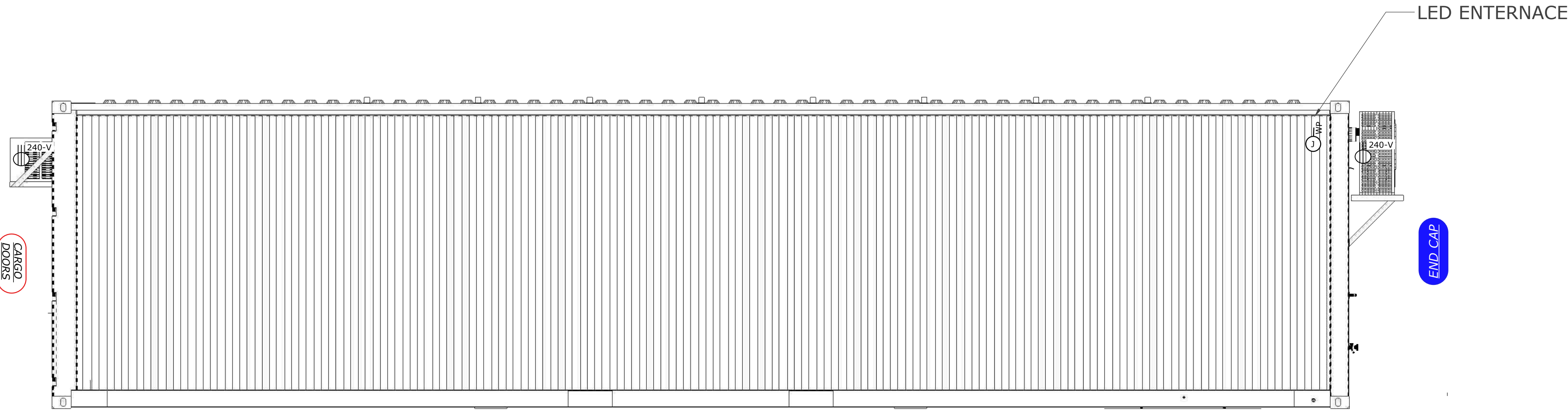
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1 FRONT WALL EXTERIOR ELECTRICAL



2 PLAN VIEW- ROOF ELECTRICAL



3 BACK WALL - EXTERIOR ELECTRICAL

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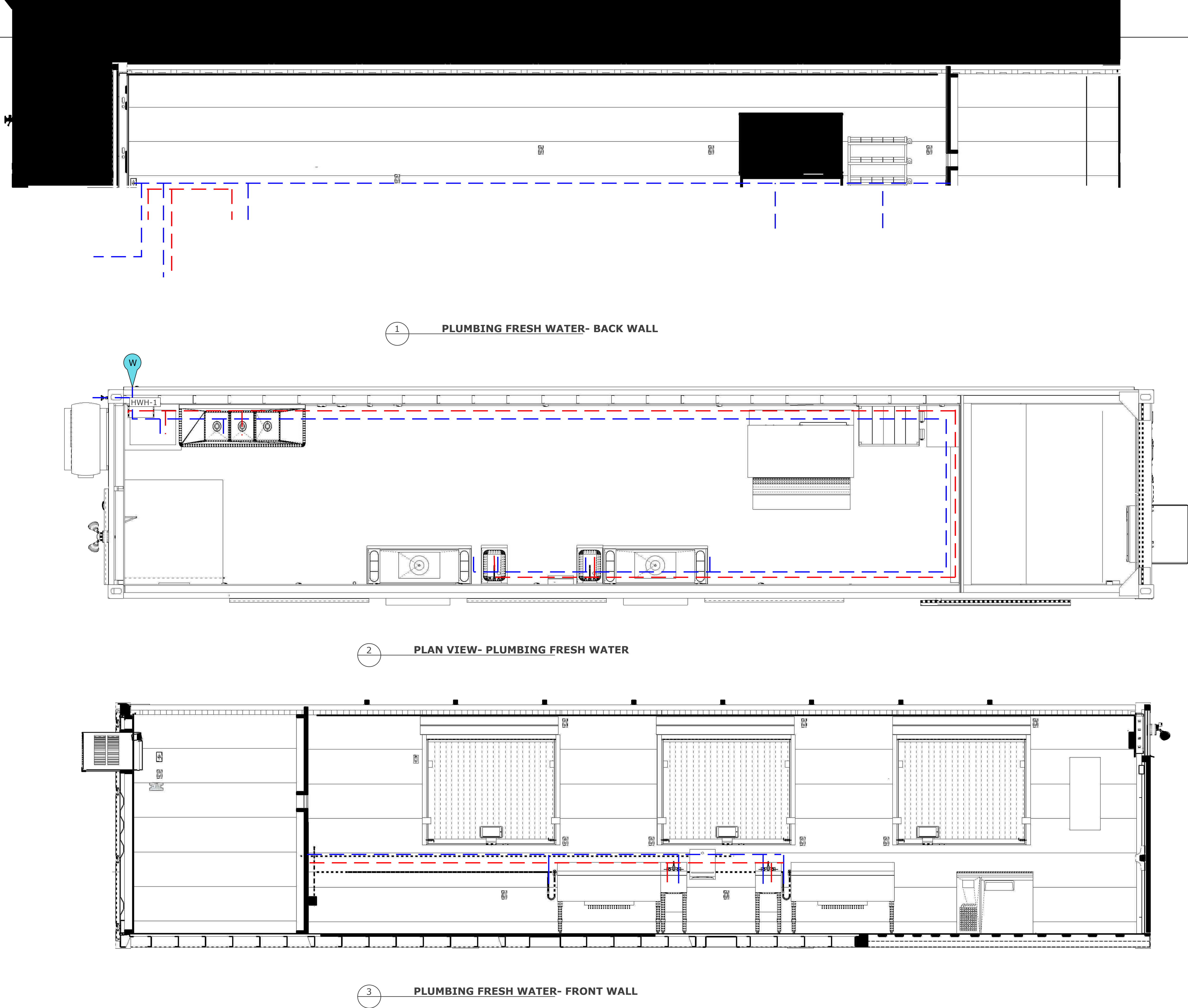
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1 PLUMBING FRESH WATER- BACK WALL

2 PLAN VIEW- PLUMBING FRESH WATER

3 PLUMBING FRESH WATER- FRONT WALL



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PLUMBING- FRESH WATER

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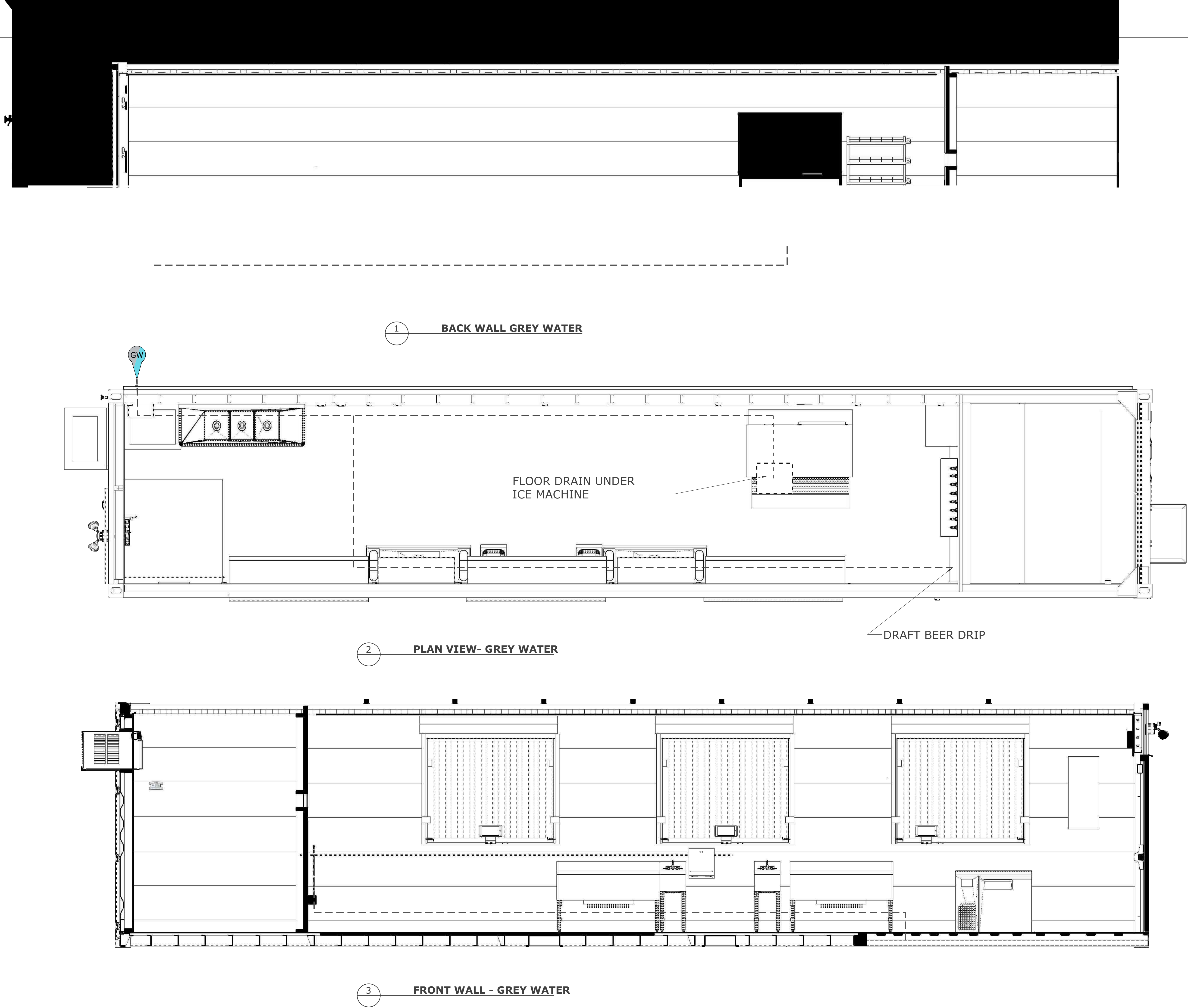
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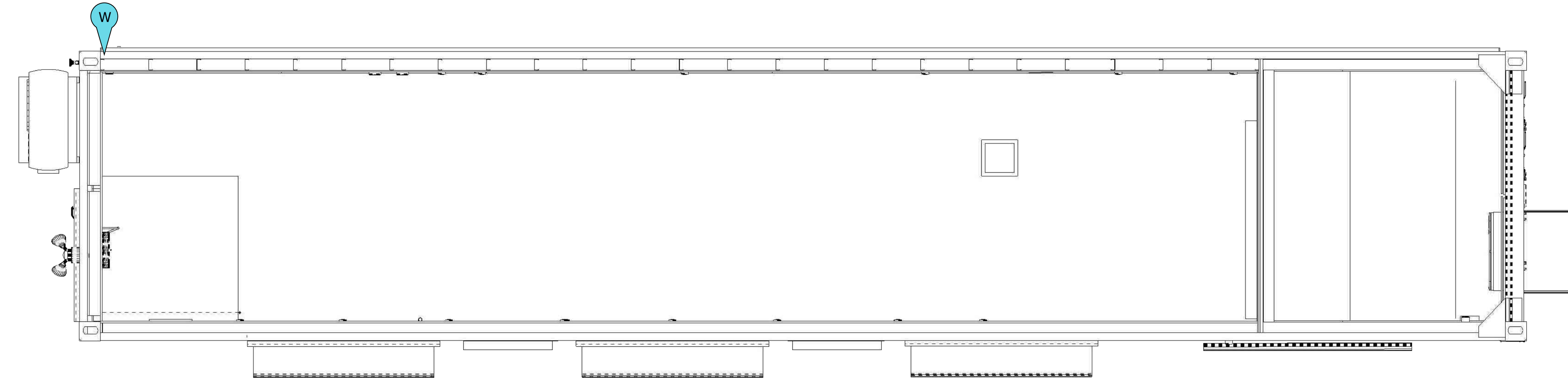
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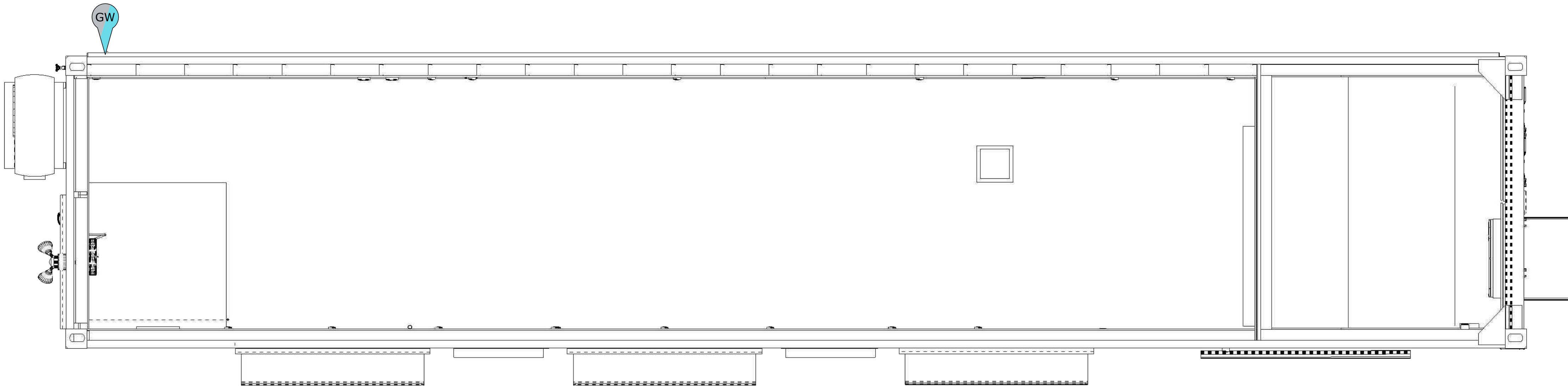


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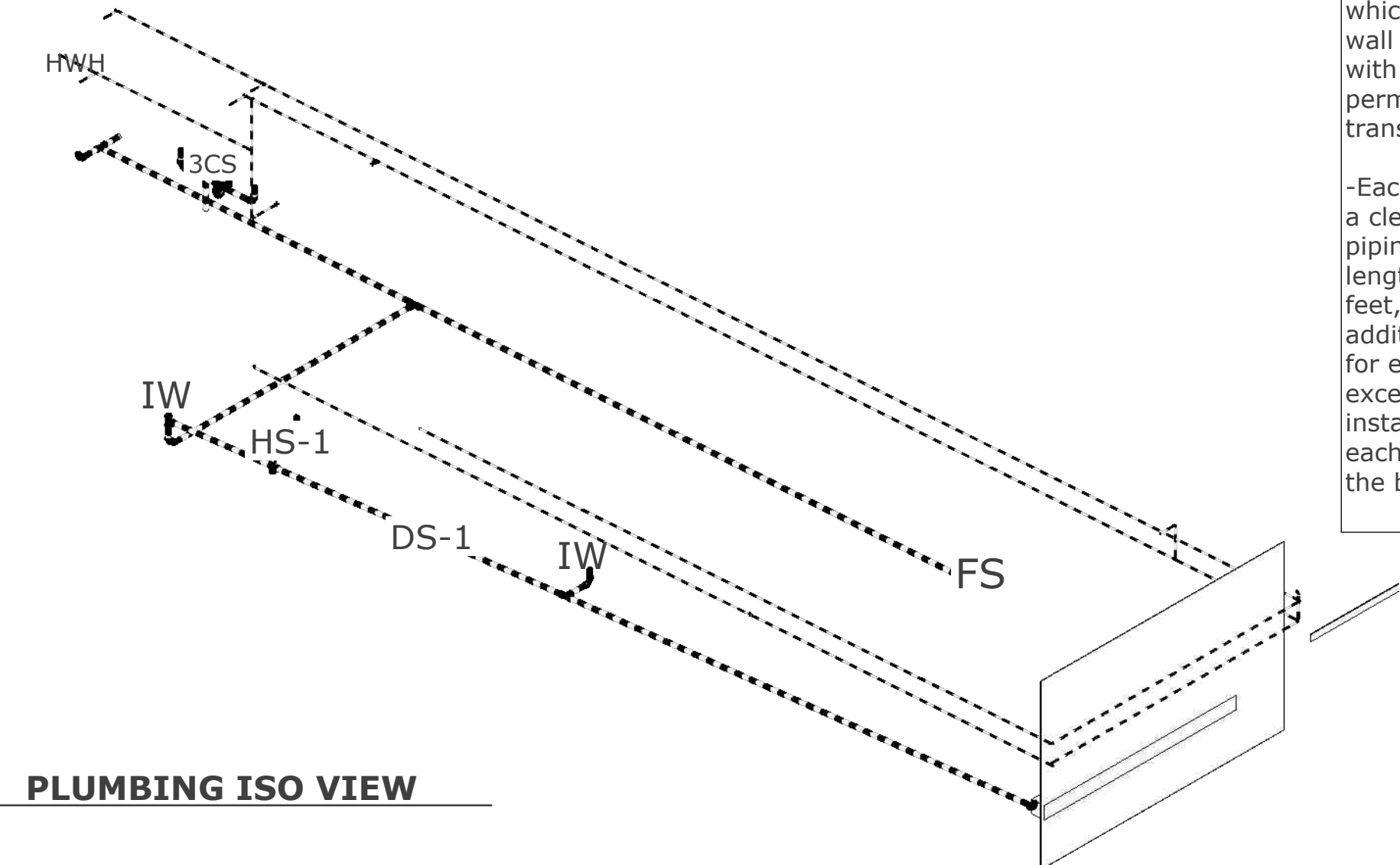
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1 PLUMBING FRESH WATER PLAN



2 PLUMBING WASTE PLAN



3 PLUMBING ISO VIEW

PLUMBING NOTES

ABBREVIATION KEY

HW	HOT WATER
CW	COLD WATER
HWH	HOT WATER HEATER
GW	GREASE WASTE
W	FRESH WATER INLET
IW	ICE WELL
MAU	MAKE-UP AIR UNIT
HS-1	HAND SINK
DS-1	DUMP SINK
3CS	3 COMP SINK
FS	FLOOR SINK
VTR	VENT TO ROOF
CM	COMMERCIAL MODULAR
DAA	DESIGN APPROVAL AGENCY (APPROVED BY THE HCD)
QAA	QUALITY ASSURANCE AGENCY (APPROVED BY THE HCD)
LEA	LOCAL ENFORCEMENT AGENCY

NOTE:
-UNIT IS **NOT** EQUIPPED WITH A WASTE HOLDING TANK. UNIT WILL BE CONNECTED TO EXISTING WASTE LINES

-UNIT IS **NOT** EQUIPPED WITH A FRESH WATER HOLDING TANK. UNIT WILL BE CONNECTED TO EXISTING FRESH WATER LINES

- HEAT PRODUCING APPLIANCES SHALL NOT BE CONVERTED FROM ONE FUEL TO ANOTHER UNLESS COVERED IN ACCORANCE WITH THE TERMS OF ITS LISTING.

-EVERY APPLIANCE SHALL BE SECURED IN PLACE TO AVOID DISPLACEMENT AND MOVEMENT FROM VIBRATION AND ROAD SHOCK.

-AFTER APPLIANCES ARE CONNECTED, THE PIPING SYSTEM SALL BE PRESSURIZED TO NOT LESS THAN 10 INCHES OR MORE THAN 14 INCHES WATER COLUMN AND THE APPLIANE CONNECTIONS TESTED FOR LEAKAGE WITH SOAPY WATER OR BUBBLE SOLUTION.

-ALL EXTERIOR OPENINGS AROUND PIPING, TUBING, DUCTS, PLENUMS, CHIMNEYS AND VENTS SHALL BE SEALED TO RESIST THE ENTRANCE OF RODENTS.

-ALL ELECTRICAL EQUIPMENT INSTALLED IN COMBINATION WITH GAS EQUIPMENT SHALL BE LISTED FOR THE PURPOSE INTENDED. GAS PIPING SHALL NOT BE UNSED FOR AN ELECTRICAL GROUND.

-A commercial modular equipped with a water distribution system designed for connection to an outside source shall have a water-supply connection which shall terminate within 18 inches of the outside wall of the commercial modular and shall be equipped with a watertight cap or plug, which shall be permanently attached to the unit for use during transportation or movement.

-Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal, and each run of piping, that is more than 100 feet in total developed length, shall be provided with a cleanout for each 100 feet, or fraction thereof, in length of such piping. An additional cleanout shall be provided in a drainage line for each aggregate horizontal change in direction exceeding 135 degrees (2.36 rad). A cleanout shall be installed above the fixture connection fitting, serving each urinal, regardless of the location of the urinal in the building.

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PLUMBING- PLAN

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FOUNDATION LOADS

1

EMBED PLATE LOCATION

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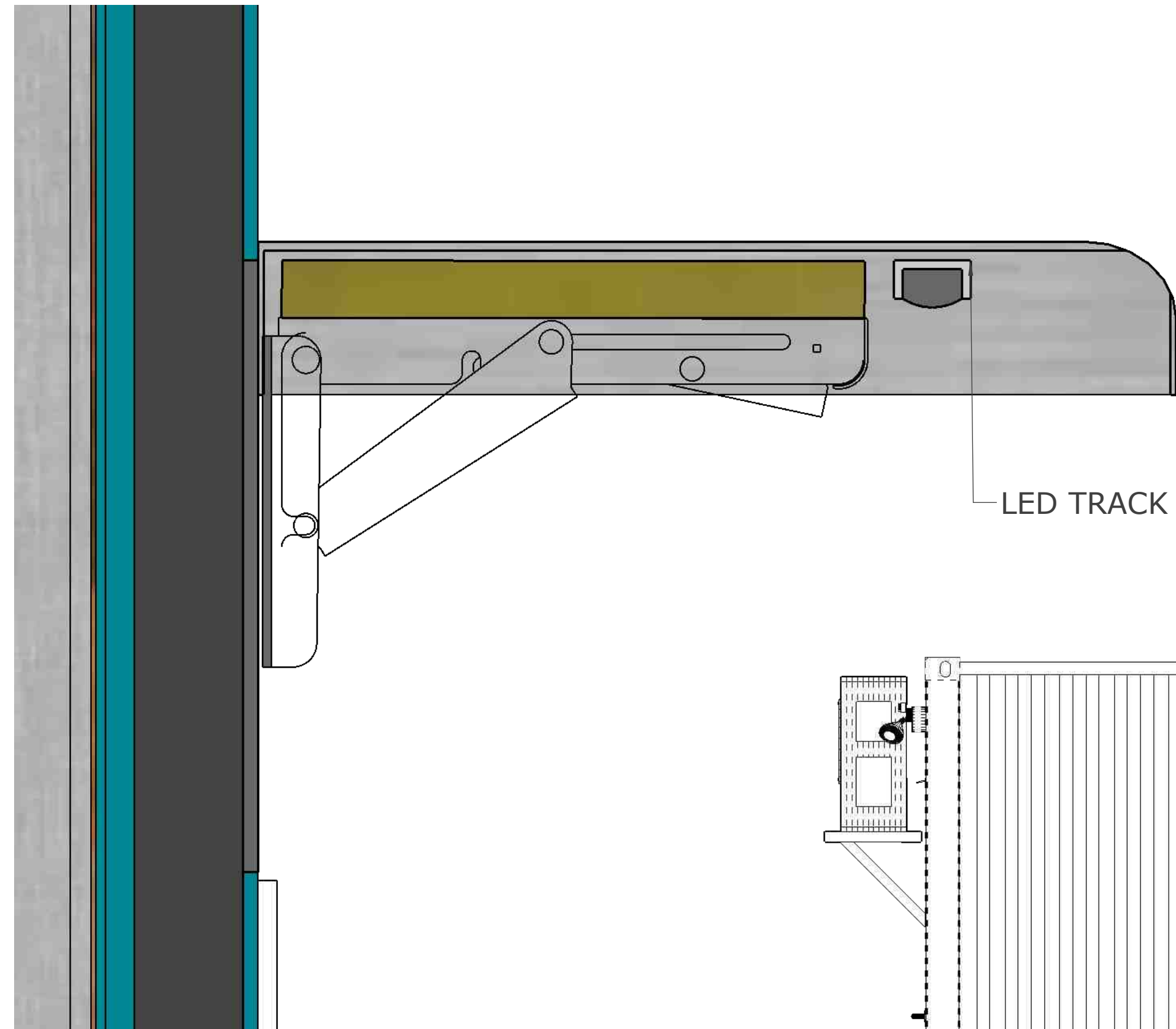
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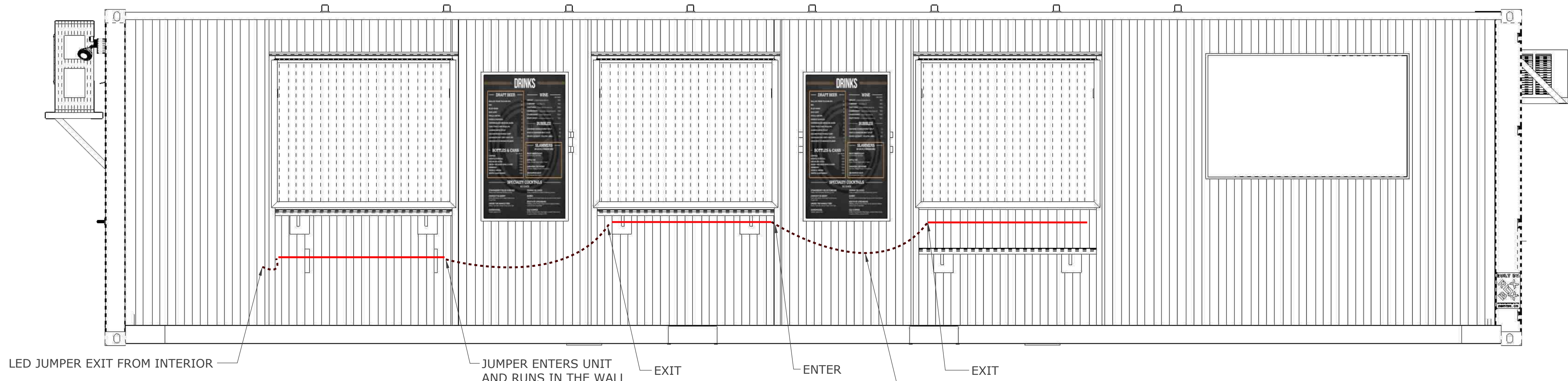


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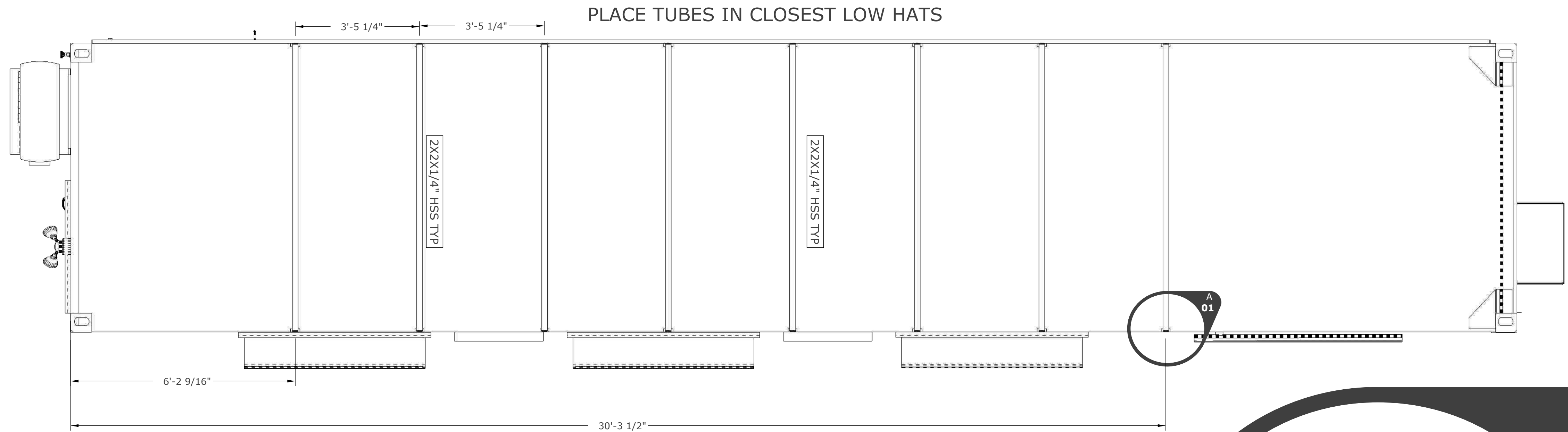
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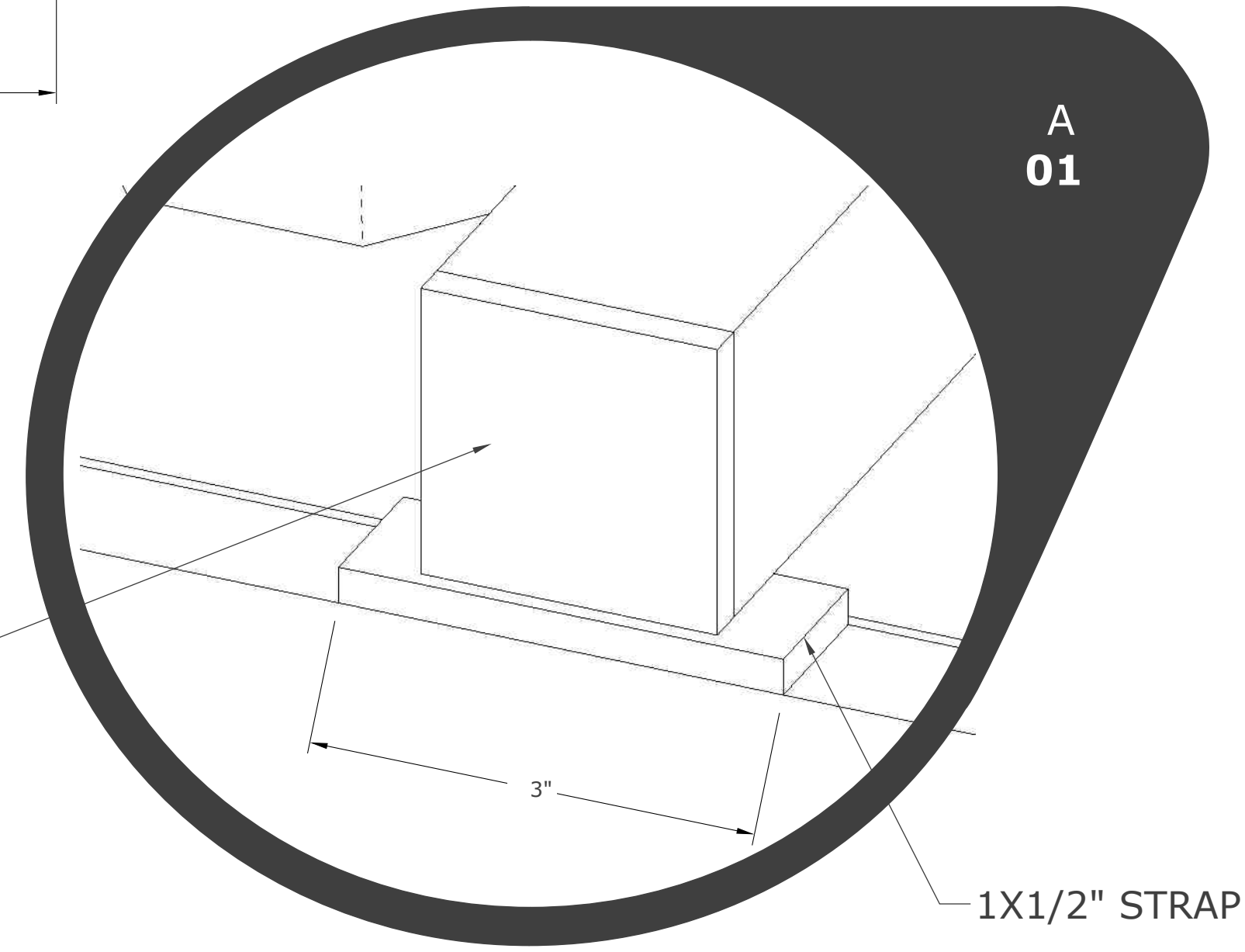
LED TRACK AND DIFFUSER UNDER EACH EXTERIOR COUNTERTOP



2 EXTERIOR LED WIRE PATH



1 ROOFTOP SIGN COORDINATION



 ROXBOX 5690 Logan St. Unit A Denver, CO 80216		NOT APPROVED FOR CONSTRUCTION		 ROOF TOP SIGN		DRAWN BY: SB		DESIGNED BY: SB		DATE: 3-29-2023	
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