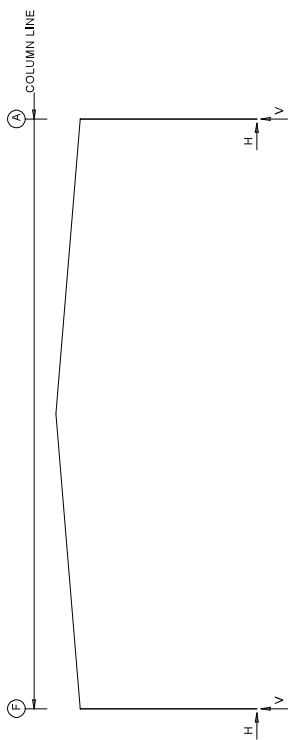




FRAME LINES: 1 2 3



**RIGID FRAME: ANCHOR BOLTS & BASE PLATES**

Frm Line	Col Line	Anc. Qty	Anc. Dia	Base Width	Base Length	Thick	AFF/BFF
1	F	4	0.750	8.000	11.50	0.500	0.0
1	A	4	0.750	8.000	11.50	0.500	0.0

**RIGID FRAME: ANCHOR BOLTS & BASE PLATES**

Frm Line	Col Line	Anc. Qty	Anc. Dia	Base Width	Base Length	Thick	AFF/BFF
2*	F	4	0.750	8.000	15.50	0.500	0.0
2*	A	4	0.750	8.000	15.50	0.500	0.0

2\* Frame lines: 2 3

**RIGID FRAME: BASIC COLUMN REACTIONS (k)**

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_Left---		---Wind_Right---	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	F	1.9	4.8	0.1	0.3	2.5	6.7	2.6	7.0	-4.0	-7.7	-0.3	-4.9
1	A	-1.9	4.8	-0.1	0.3	-2.5	6.7	-2.6	7.0	4.0	-7.7	0.3	-4.9
1	F	-3.7	-5.3	0.0	-2.4	-1.2	-7.4	-1.5	-8.8	-0.2	-0.1	0.2	0.1
1	A	0.0	-2.4	3.7	-5.3	1.5	-5.8	1.2	-7.4	-0.2	-0.1	0.2	0.1
1	F	2.5	6.7	2.2	7.0	2.2	4.0	7.5	12.9	-8.1	-11.5	-1.8	-7.3
1	A	-2.5	6.7	-2.2	7.0	-2.2	4.0	-7.5	12.9	8.1	-11.5	1.8	-7.3
2*	F	1.1	2.3	0.4	0.6	7.2	12.3	7.5	12.9	-8.1	-11.5	-1.8	-7.3
2*	A	-1.1	2.3	-0.4	0.6	-7.2	12.3	-7.5	12.9	8.1	-11.5	1.8	-7.3
2*	F	-7.1	-7.0	-0.8	-2.9	-4.3	-17.3	-4.3	-17.3	-0.1	-0.1	0.1	-0.1
2*	A	0.8	-2.9	7.1	-7.0	4.9	-14.2	4.3	-17.3	-0.1	-0.1	0.1	-0.1
2*	F	0.0	-0.4	7.2	12.3	6.3	13.0	6.3	7.3	-6.3	-6.3	6.3	7.3
2*	A	0.0	-0.4	-7.2	12.3	-6.3	13.0	-6.3	7.3	6.3	-6.3	-6.3	13.0

2\* Frame lines: 2 3

F.O.41194-1-1

REV.	DESCRIPTION	DATE
	DRAWING STATUS	
	REVISION HISTORY	

**Armuster Waukesha Hangar**

DATE: 5/28/24  
 REVISION: 0  
 APPD: APPD:  
 60'-0" x 60'-0" x 18'-0"  
 Armuster Waukesha Hangar

THESE DRAWINGS HAVE BEEN GENERATED FOR VISUALIZATION PURPOSES ONLY. THEY ARE PRELIMINARY AND SHOULD NOT BE CONSIDERED FINAL. FINAL DRAWINGS WILL BE ISSUED ONLY AFTER AN ORDER HAS BEEN PLACED AND DESIGNATED FOR FABRICATION.

**ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)**

Frm Line	Col Line	Dead	Wind Press	Wind Horiz	Wind Vert	Seis Horiz	Seis Vert	Collat	Live	Snow	Wind_Left1	Wind_Right1	Wind_Left2	Wind_Right2	Wind_Press Horiz	Wind_Press Vert
1	E	-0.6	0.9	-4.1	4.5	0.0	0.0									
4	A	0.4	0.7	4.7	4.8	0.0	0.0									
4	C	0.4	0.7	4.7	4.8	0.0	0.0									
4	D	0.9	0.2	4.4	4.6	0.0	0.0									
4	F	0.4	0.1	1.7	1.8	0.0	0.0									

Frm Line	Col Line	Wind Long1	Wind Long2	Seis_Left	Seis_Right	Seis_Long	Wind_SNOW- Horiz	Wind_SNOW- Vert
4	A	1.7	0.0	-2.2	0.0	0.0	0.0	1.7
4	C	3.5	0.0	-3.9	0.0	0.0	0.0	4.4
4	D	3.5	0.0	-3.9	0.0	0.0	0.0	4.4
4	F	1.7	0.0	-1.3	0.0	0.0	0.0	1.7

Frm Line	Col Line	Wind Long1	Wind Long2	Seis_Left	Seis_Right	Seis_Long	Wind_SNOW- Horiz	Wind_SNOW- Vert
4	A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	F	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**ANCHOR BOLT SUMMARY**

QTY	Locate	Dia (in)	Type
24	Endwall	3/4"	
24	Frame	3/4"	

**BUILDING BRACING REACTIONS**

Reactions in plane of wall

Loc	Wall	Col	Reactions (k)	Panel Shear (lb/ft)	Note			
Line	Line	Line	Horz	Vert	Wind	Seis	Wind	Seis
LEW	1	2.3	4.6	0.5	*			
FSW	A	C/D	Bracing, see EV reactions					
REW	4	C/D	Bracing, see EV reactions					
BSW	F	3.2	4.6	0.5	*			

(h) Rigid frame at endwall

\*See BR reactions table for vertical and horizontal reactions in plane of the rigid frame.

Reactions for seismic represent shear force. Eh Reaction values shown are unfactored

**ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES**

Frm Line	Col Line	Anc. Bolt Qty	Base Dia (in)	Base Width (in)	Base Length (in)	Thick (in)	AFF/BFF (in)
1	E	4	0.750	6.000	9.94	0.375	0.0
4	A	4	0.750	6.000	9.94	0.375	0.0
4	C	4	0.750	6.000	7.875	0.375	0.0
4	D	4	0.750	6.000	7.875	0.375	0.0
4	F	4	0.750	6.000	7.875	0.375	0.0

**DESIGN INFORMATION**

- All loading conditions are examined and only the maximum / minimum H or V and the corresponding H or V are reported.
- Positive reactions are shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data.

DESIGN CRITERIA	SEISMIC CRITERIA	DEFLECTION LIMITS
Width (ft) = 60	Seismic Importance = II - Normal	ENDWALL COLUMN L / 120
Length (ft) = 60	Risk Category = B	ENDWALL RAFTER (Live) L / 180
Eave Height (ft) = 18	Mapped Spectral Response Accelerations S <sub>s</sub> = 0.0890	ENDWALL RAFTER (Wind) L / 180
Roof Slope (rise/run) = 1:0.12	S <sub>1</sub> = 0.0470	WALL GIRTS L / 60
Building Code = IBC 15	---Spectral Response Coefficients--- S <sub>ds</sub> = 0.0949	PURLIN (LIVE) L / 150
Local Code (State/Prov) = WBC 18	S <sub>d1</sub> = 0.0752	PURLIN (WIND) L / 150
Dead Load (psf) = 2.05	Site Class = D	WALL PANEL 50
Roof Live Load (psf) = 20.00	Seismic Design Category = B	ROOF PANEL (Live) L / 90
Frame Live Load (psf) = 20.00	-----Base Shear----- = 0.667H <sup>1.25</sup> S <sub>m</sub> S <sub>w</sub> /R	ROOF PANEL (Wind) L / 120
Snow: Ground Snow Load (psf) = 30.00	Longitudinal Base Shear (k) = 1.05	Main Frame Horiz L / 120
Roof Snow Load (psf) = 21.00	Transverse Base Shear (k) = 1.11	Main Frame Vert L / 180
Slippery Roof	Ultimate Wind Speed (mph) = 115 mph	WIND BRACING L / 60
Thermal Coefficient = 1.00	Risk Category = II - Normal	H / 60
Snow Exposure Factor = 1.00000	Importance - Wind = 1.00	Main Frame (Clare) H / 60
Seismic Design Category = B	Wind Exposure = B	Main Frame (Seismic) H / 60
-----Base Shear----- = 0.667H <sup>1.25</sup> S <sub>m</sub> S <sub>w</sub> /R	Enclosure Classification = C - Enclosed	SEISMIC BRACING H / 60
Longitudinal Base Shear (k) = 1.05	Internal Pressure Coefficients-- Pressure = 0.18	PARTITION COLUMN H / 60
Transverse Base Shear (k) = 1.11	Suction = -0.18	PARTITION GIRT L / 90
Ultimate Wind Speed (mph) = 115 mph	Pressure = 0.18	PARTITION PANEL L / 90
Risk Category = II - Normal	---Components & Cladding--- Pressure (psf) = 21.76	
Importance - Wind = 1.00	Suction (psf) = -25.95	
Wind Exposure = B	Equivalent Lateral Force Procedure.	

Steel systems not specifically detailed for seismic resistance.

**REVISION HISTORY**

REV.	DESCRIPTION	DATE

**DRAWING STATUS**

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**BOLT TABLE**

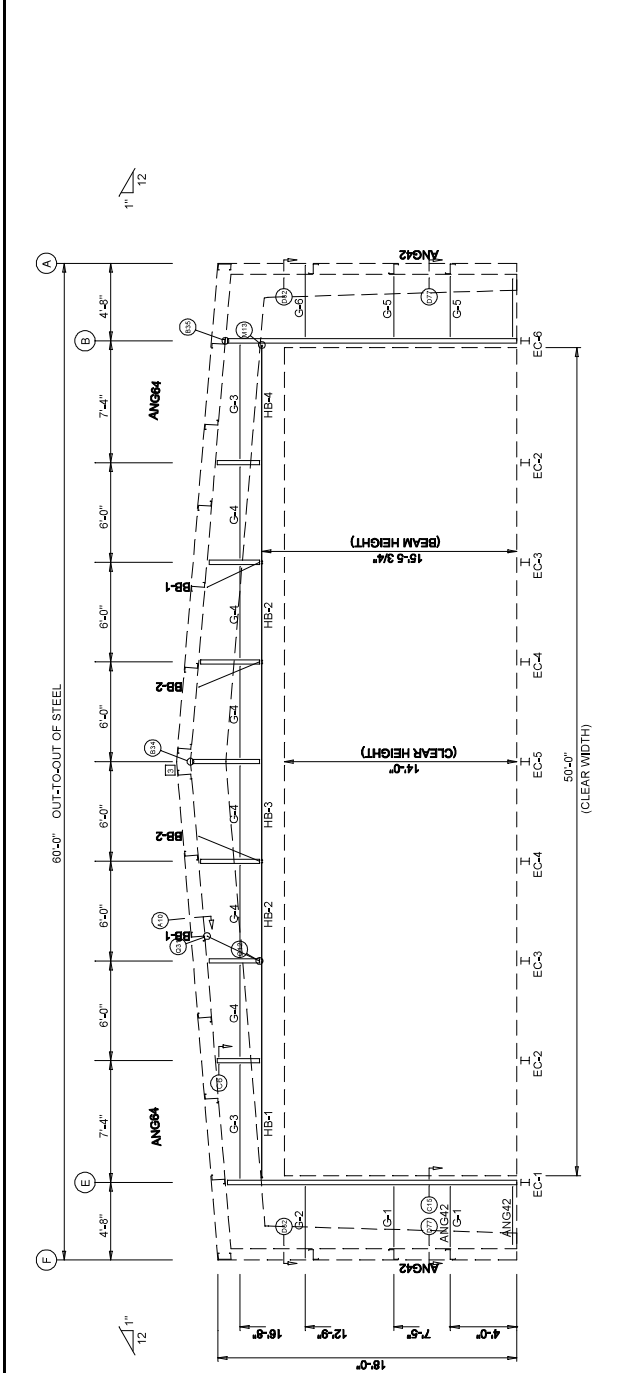
FRAME LINE 1	LOCATION	QUAN	TYPE	DIA	LENGTH
EC-1/FRAME		2	A325	3/4"	1 3/4"
EC-2/FRAME		2	A325	3/4"	1 3/4"
EC-3/FRAME		2	A325	3/4"	1 3/4"
EC-4/FRAME		2	A325	3/4"	1 3/4"
EC-5/FRAME		2	A325	3/4"	1 3/4"
EC-6/FRAME		2	A325	3/4"	1 3/4"
Back Braces		1	A325	1/2"	1 1/4"

**MEMBER TABLE**

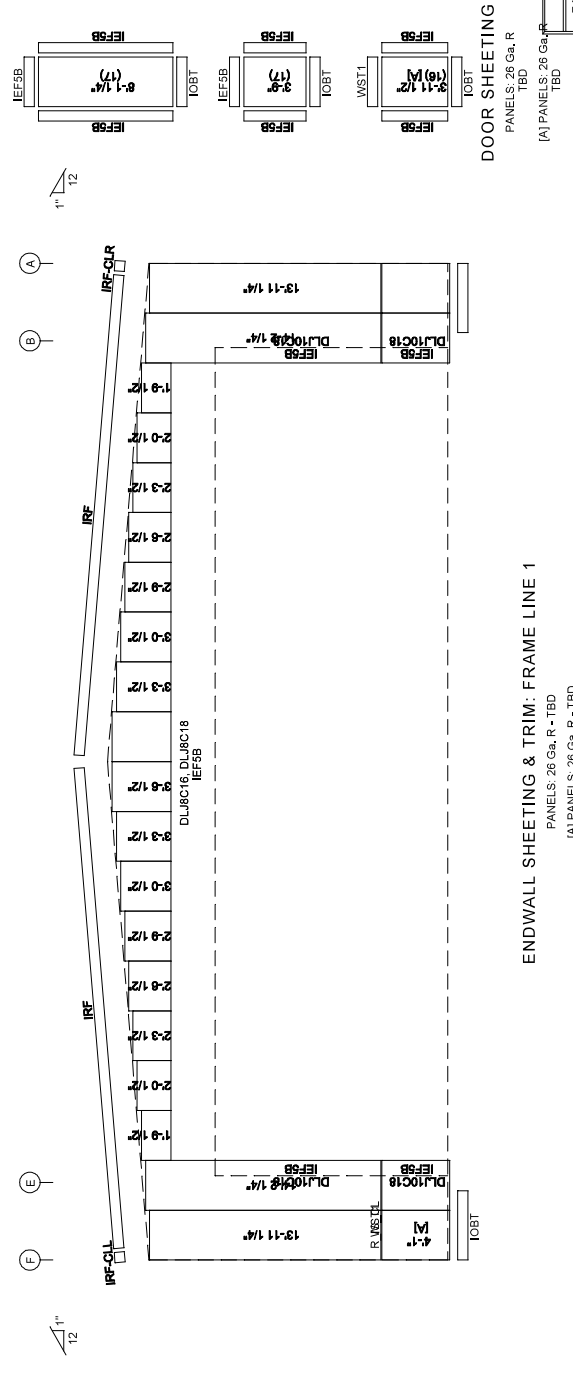
FRAME LINE 1	QUAN	MARK	PART	LENGTH
1	1	HB-1	W8X10	12'-11 1/2"
2	1	HB-2	W8X10	5'-11 1/2"
3	1	HB-3	W8X10	11'-11 1/2"
4	1	HB-4	W8X10	12'-11 1/2"
5	2	BB-1	P35X9	19'-3 5/16"
6	2	BB-2	W10X39	17'-0 5/8"
7	1	EC-1	W8X10	2'-1 15/16"
8	2	EC-2	W8X10	2'-7 15/16"
9	2	EC-3	W8X10	3'-1 15/16"
10	2	EC-4	W8X10	3'-7 15/16"
11	1	EC-5	W10X39	17'-0 5/8"
12	2	G-1	08X25Z16	3'-7 1/2"
13	2	G-2	08X25Z16	4'-3 1/2"
14	2	G-3	W8X10	6'-9 1/2"
15	6	G-4	W8X10	5'-7 1/2"
16	2	G-5	08X25Z16	3'-7 1/2"
17	1	G-6	08X25Z16	4'-3 1/2"

**CONNECTION PLATES**

FRAME LINE 1	MARK	PART
1	1	IP1
2	3	



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1



DOOR SHEETING

**Armuster Waukeshu Hangar**

**DRAWING STATUS**

**REVISION HISTORY**

REV.	DESCRIPTION	DATE
1		

**F.O. 41194-1-1**

DATE: 5/28/24 REVISION: 0

APPD: DWN: ENG:

**Armuster Waukeshu Hangar**

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**DRAWING IS NOT TO SCALE**

**TRIM COLORS**

EAVE TRIM = TBD CORNER TRIM = TBD  
 BASE TRIM = TBD GUTTER = TBD  
 DOOR TRIM = TBD DOWNSPOTS = TBD  
 RAKE TRIM = TBD  
 \* LINER TRIM = Liner panel color  
 \* SOFFIT TRIM = Soffit panel color  
 \* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.

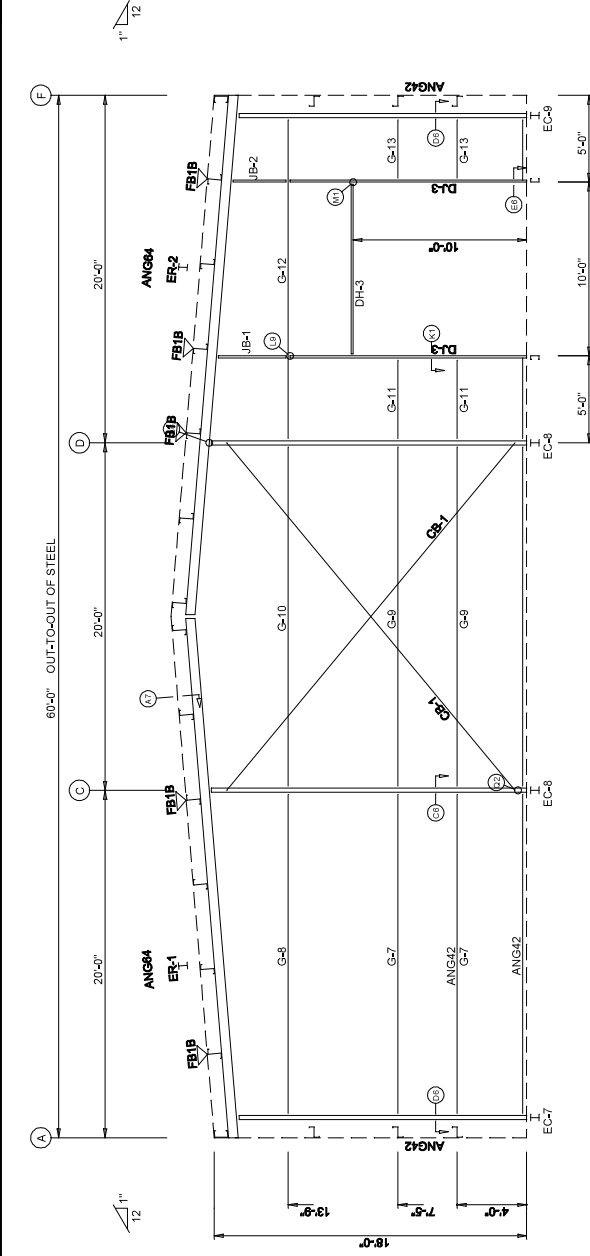
**GENERAL NOTES:**

1. Use TEK55W screws in place of SD150 panel screws at all 10 gage members.
2. See detail C7A for field coping of coldform endwall column flange braces.
3. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (#= Girt Depth).

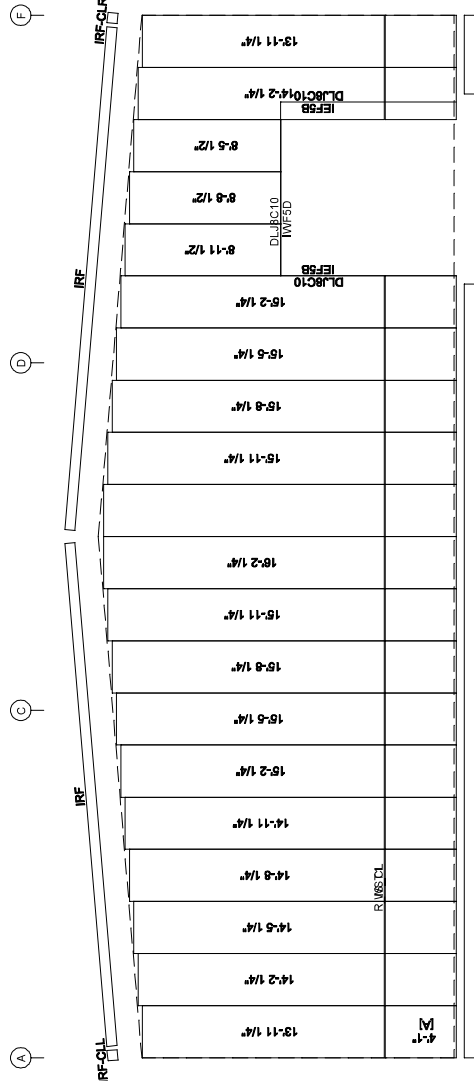
BOLT TABLE				
FRAME LINE 4	QUAN	TYPE	DIA	LENGTH
LOCATION	8	A325	1/2"	1 1/2"
ER-1/ER-2	2	A325	3/4"	1 3/4"
Columns/Raft				

MEMBER TABLE				
FRAME LINE 4	QUAN	MARK	PART	LENGTH
1	EC-7	W8X10	16'-6 7/16"	
2	EC-8	W8X10	18'-1 5/16"	
1	EC-9	W8X10	16'-6 7/16"	
1	ER-1	W8X10	30'-1 1/4"	
1	ER-2	W8X10	30'-1 1/4"	
2	DJ-3	08X35C16	13'-8 3/4"	
1	DH-3	08X35C16	10'-0"	
2	G-7	08X25Z16	18'-5 1/2"	
1	G-8	08X25Z14	18'-5 1/2"	
2	G-9	08X25Z16	19'-7 1/2"	
1	G-10	08X25Z13	19'-7 1/2"	
2	G-11	08X25Z16	4'-6"	
1	G-12	08X25Z12	18'-5 1/2"	
2	G-13	08X25Z16	3'-4"	
2	CB-1	CABLE500	23'-7 3/8"	
1	JB-1	08X35C16	3'-7 13/16"	
1	JB-2	08X35C16	2'-9 13/16"	

FLANGE BRACE TABLE			
FRAME LINE 4	VID	MARK	LENGTH
1	1	FB1B	1'-3"



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. R - TBD  
 (A) PANELS: 26 Ga. R - TBD

GENERAL NOTES:

1. Use TEK5WW screws in place of SD150 panel screws at all 10 gage members.
2. See detail C7A for field coping of coldform endwall column flange braces.
3. All connections to door or window jambs where the clip is not designated in the clip table / drawing are made with JC# clips (# = Girt Depth).

DRAWING IS NOT TO SCALE

TRIM COLORS	
EAVE TRIM = TBD	CORNER TRIM = TBD
BASE TRIM = TBD	GUTTER = TBD
DOOR TRIM = TBD	DOWNSPOUTS = TBD
RAKE TRIM = TBD	
* LINER TRIM = TBD	* Liner panel color
* SOFFIT TRIM = TBD	* Soffit panel color
* ONLY APPLICABLE IF LINER TRIM OR SOFFIT PANEL IS INDICATED ON BUILDING ORDER.	

DATE: 5/28/24  
 REVISION: 0  
 APPD:  
 Ambuster Waukesha Hangar  
 F.O. 41194-1-1

REV.	DESCRIPTION	DATE
	DRAWING STATUS	
	REVISION HISTORY	

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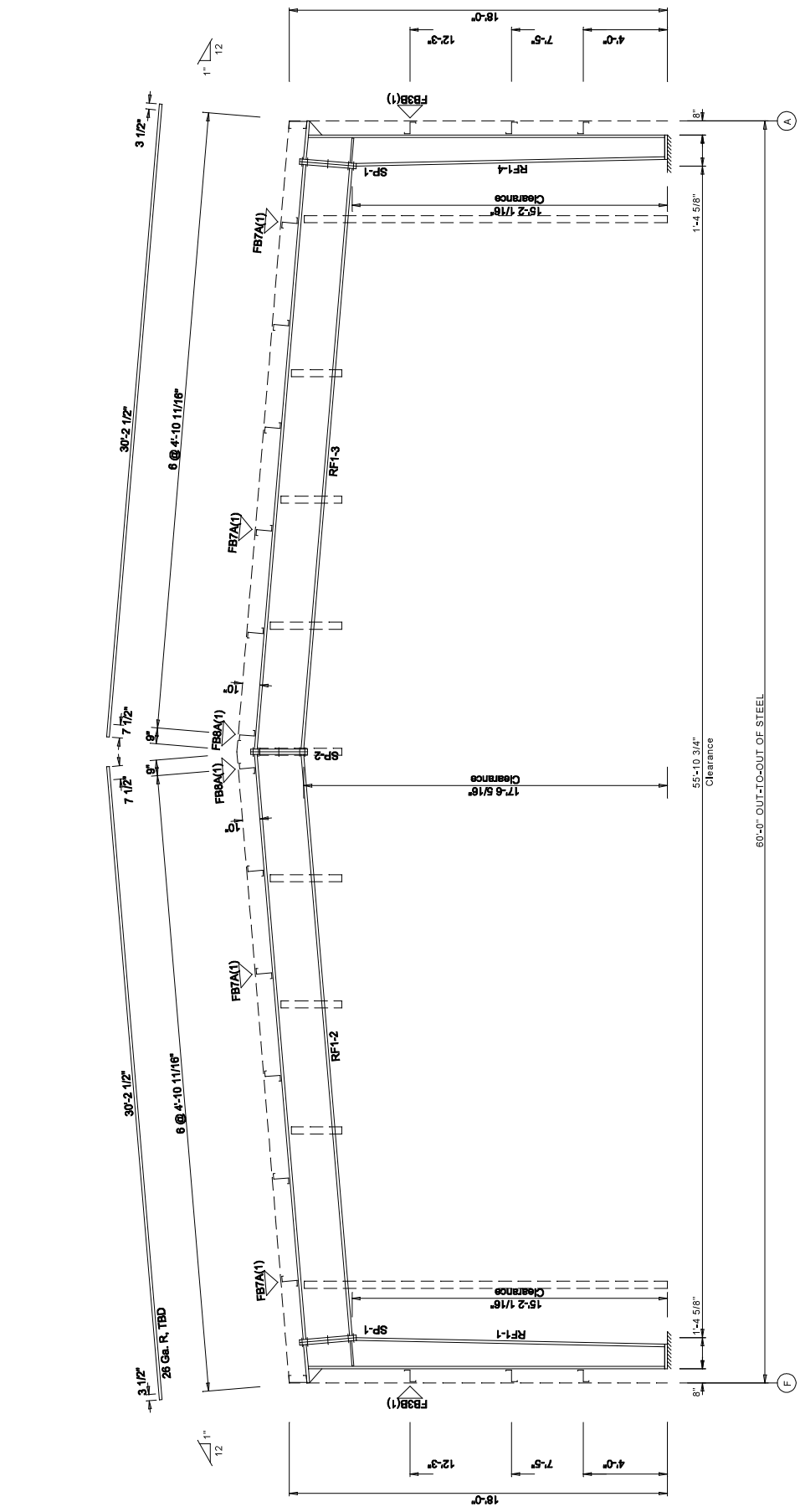
SPLICE BOLT TABLE

Mark	Qty	Top		Bot		Int	Type	Dia	Length
		Top	Bot	Top	Bot				
SP-1	4	4	2	4	2	A325	0.500	1.75	
SP-2	4	4	2	4	2	A325	0.750	2.00	

FLANGE BRACES: Both Sides(U.N.)  
 FBxB(1)  
 B - L20X1/4  
 A - L15X1/8

MEMBER TABLE

Mark	Web Depth		Web Plate		Outside Flange		Inside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length	W x Thk x Length		
RF1-1	11.0/16.0	0.149	207.0	6 x 1/4" x 205.9	6 x 1/4" x 120.0			
RF1-2	25.0/25.0	0.188	270.0	6 x 1/4" x 22.0	6 x 3/8" x 59.3			
RF1-3	25.0/25.0	0.188	67.7	6 x 5/16" x 120.0	6 x 3/8" x 120.0			
RF1-4	25.0/25.0	0.188	270.0	6 x 1/4" x 217.7	6 x 1/4" x 117.9			
RF1-4	16.0/11.0	0.149	207.0	6 x 1/4" x 22.0	6 x 5/8" x 97.7			
RF1-4	16.0/11.0	0.149	207.0	6 x 1/4" x 205.9	6 x 1/4" x 120.0			



BUILDING CROSS SECTION: FRAME LINE 1

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

DRAWING IS NOT TO SCALE

REV.	DESCRIPTION	DATE
DRAWING STATUS		
REVISION HISTORY		

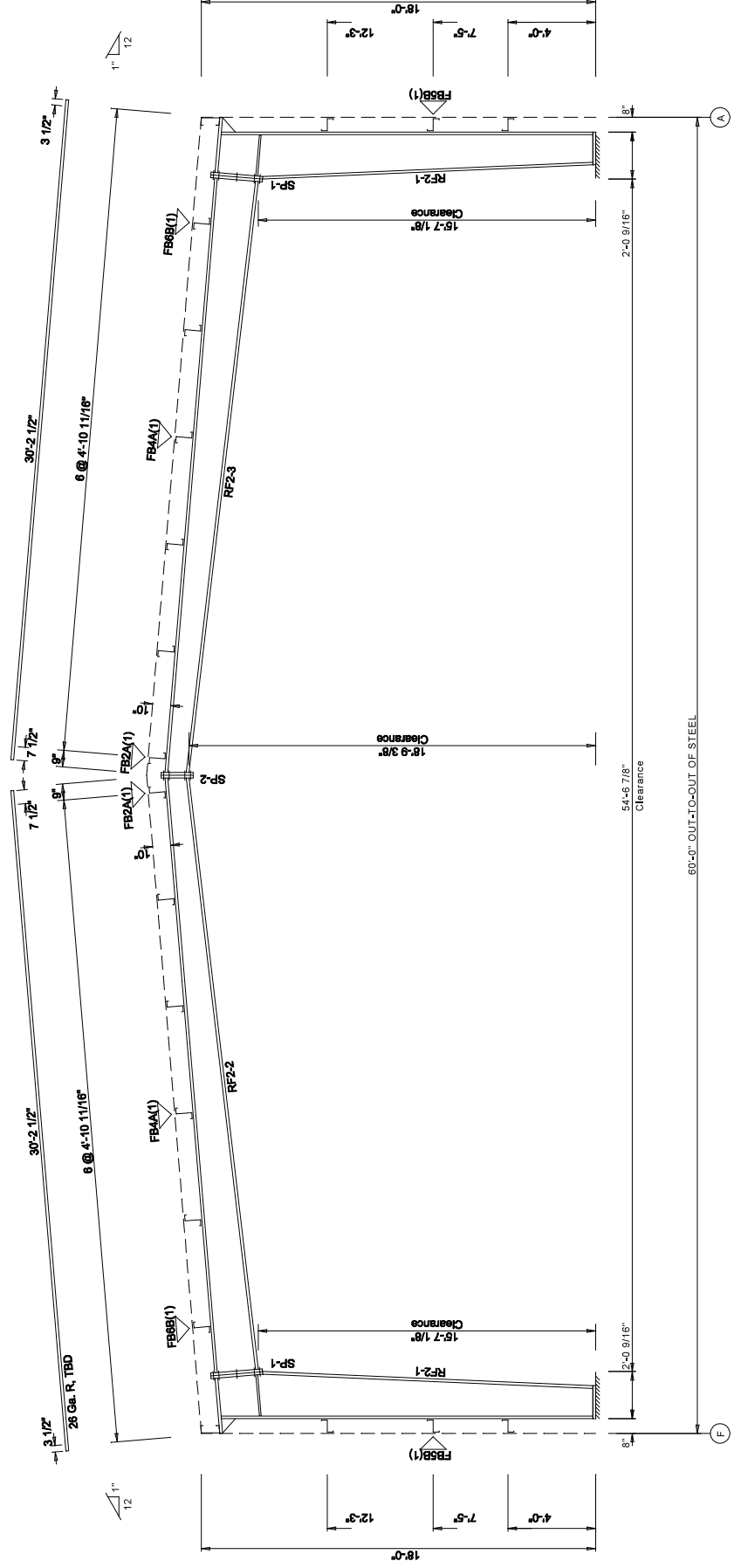
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SPICE BOLT TABLE							
Mark	Qty	Top	Bot	Int	Type	Dia	Length
SP-1	4	4	2	0	A325	0.750	2.50
SP-2	4	4	0	0	A325	0.750	2.00

FLANGE BRACES: Both Sides(U.N.)

FBxxB(1)  
B - L20X1/4  
A - L15X1/8

Mark	Web Depth		Web Plate		Outside Flange		Inside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length	W x Thk x Length		
RF2-1	15.0/22.2	0.149	147.7	6 x 1/4" x 205.9	6 x 1/4" x 120.1			
RF2-2	22.2/24.0	0.219	60.0	6 x 1/4" x 30.3	6 x 5/16" x 83.5			
RF2-3	21.0/18.0	0.188	86.9	6 x 1/4" x 328.9	6 x 5/16" x 89.0			
	18.0/10.0	0.149	240.0	6 x 1/4" x 239.3	6 x 1/4" x 239.3			
	10.0/18.0	0.149	240.0	6 x 1/4" x 239.3	6 x 1/4" x 239.3			
	18.0/21.0	0.188	86.9	6 x 1/4" x 328.9	6 x 5/16" x 89.0			



BUILDING CROSS SECTION: FRAME LINE 2 3

GENERAL NOTES:

1. See Detail Sheets for Connection Information.
2. See Shipping List for Flange Brace Lengths.

DRAWING IS NOT TO SCALE

**Armuster Waukesha Hangar**

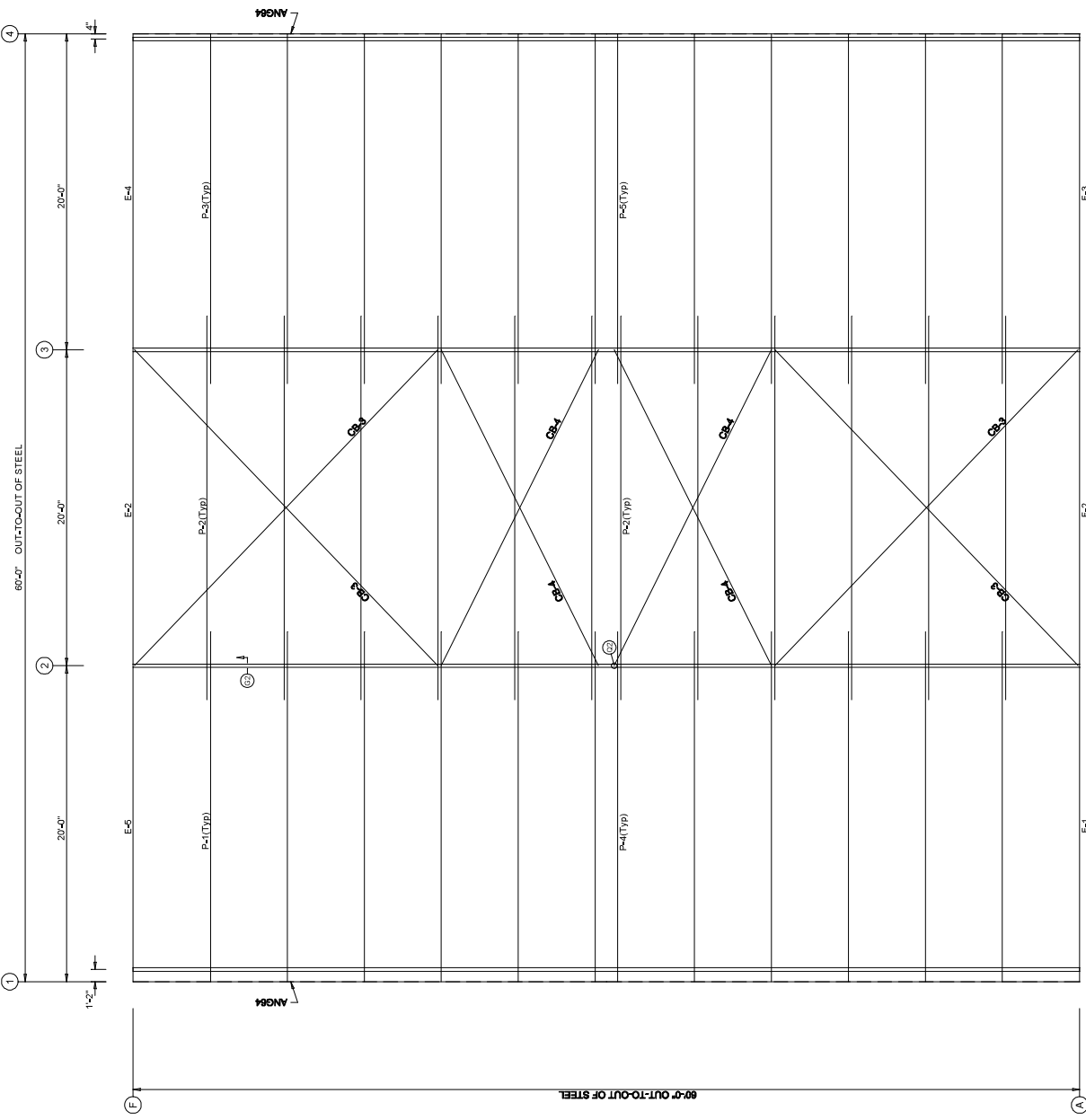
DATE: 5/28/24 REVISION: 0

APPD: DWN: F.O.41194-1-1

REV.	DESCRIPTION	DATE
	DRAWING STATUS	
	REVISION HISTORY	

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MEMBER TABLE		
ROOF PLAN	MARK	LENGTH
6	P-1	10X25Z16
12	P-2	22'-3 1/2"
6	P-3	24'-3 1/2"
6	P-4	22'-1 1/2"
6	P-5	22'-1 1/2"
1	E-1	10X35E16
2	E-2	19'-11 1/2"
1	E-3	19'-11 1/2"
1	E-4	19'-11 1/2"
1	E-5	19'-11 1/2"
4	CB-3	CABLE300
4	CB-4	19'-8 7/8"



**GENERAL NOTES:**

- Screw Down Roof. Use TEK500 screws in place of SD150 panel screws at all 10 gage purlins, eave struts, or roof joists.
- Standing Seam Roof. Use FST#6 in place of FST#1 clip to purlin screws at all 10 gage purlins, eave struts, or at roof joists.

ROOF FRAMING PLAN

DRAWING IS NOT TO SCALE

Armuster Waukesha Hangar  
 DATE: 5/28/24 REVISION: 0  
 APPD: DWN: F.O.41194-1-1

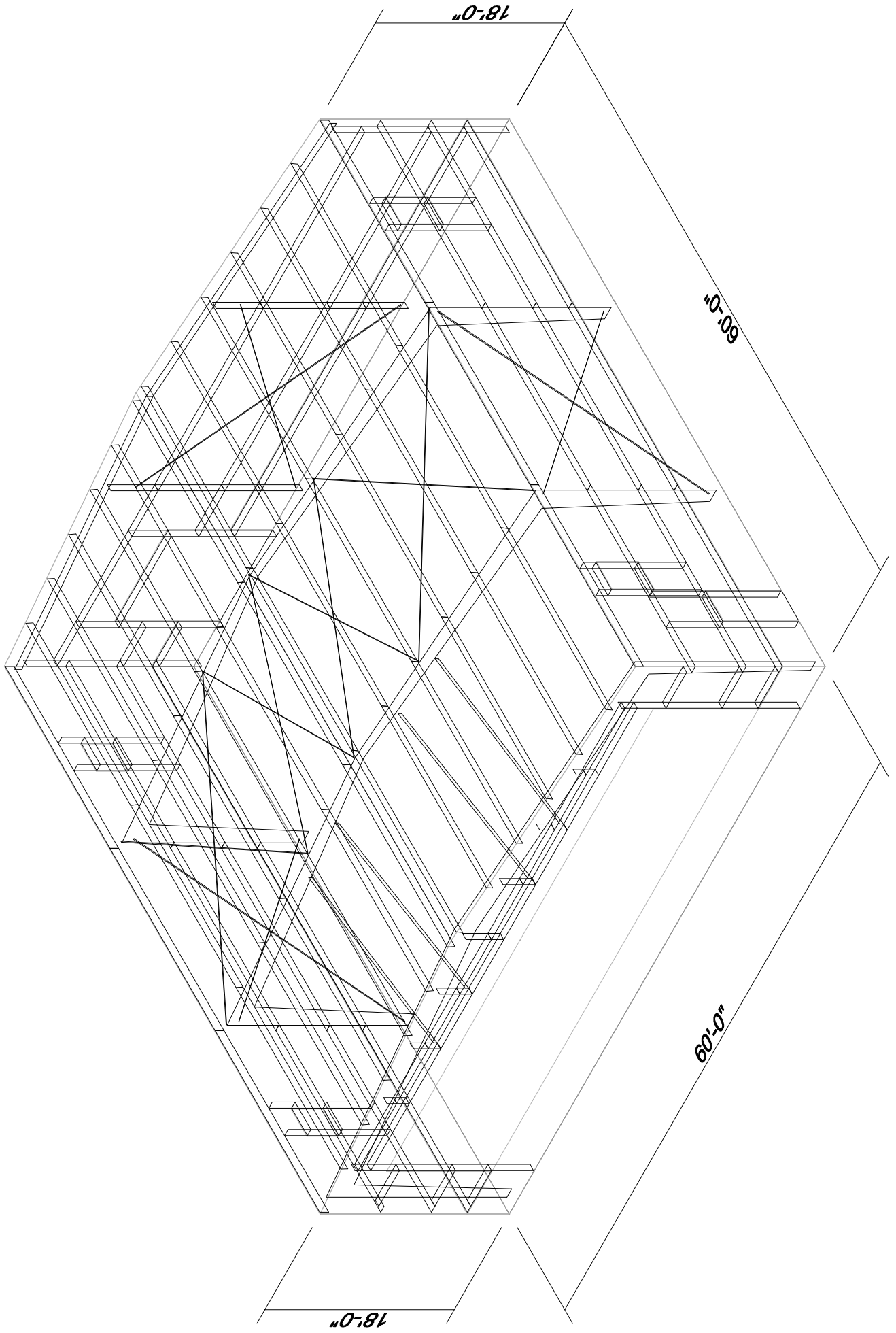
REV.	DESCRIPTION	DATE
DRAWING STATUS		
REVISION HISTORY		

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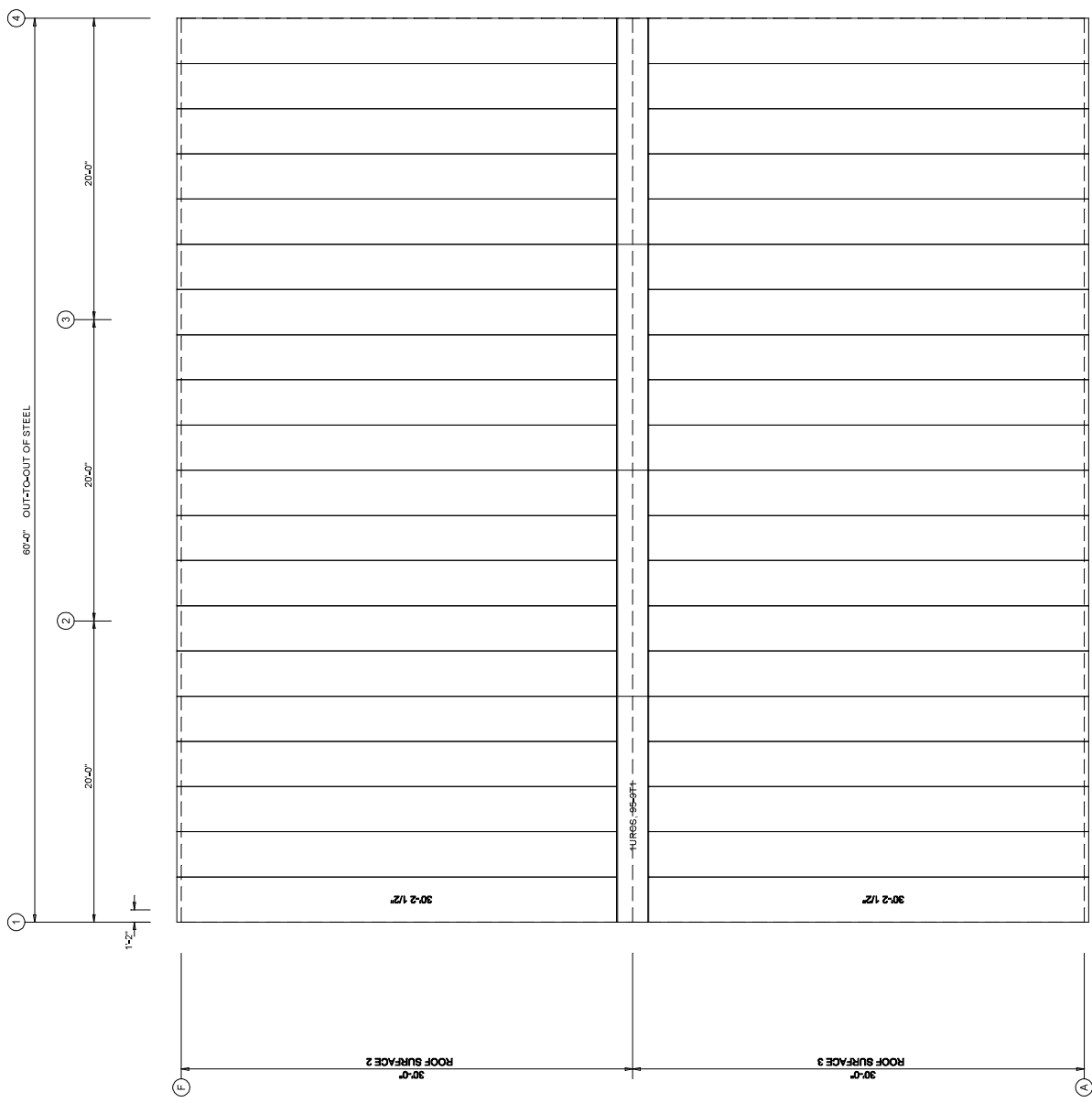
DRAWING IS NOT TO SCALE

ROOF SHEETING PLAN

PANELS: 26 Ga. R - T80

GENERAL NOTES:

Panel "Start" and "End" dimensions must be followed for the proper installation of the gable trim(s) provided.



# Armbuster Waukesha Hangar

REV.	DESCRIPTION	DATE

F.O.41194-1-1

ENG: DWN: APPD:  
 DATE: 5/28/24 REVISION: 0  
 60'-0" x 60'-0" x 18'-0"  
 Armbuster Waukesha Hangar

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