

ERECTION NOTES

1. All bracing shown and provided by the Metal Building Provider (MBP) for this building is required and shall be installed by the erector as a permanent part of the structure ("Code of Standard Practice for Steel Buildings" in the ANSI/AISC 303–16; Section 7.10).
2. Temporary supports, such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined and furnished by the erector ("Code of Standard Practice for Steel Buildings and Bridges " in the ANSI/AISC 303–16; Section 7.10.3).
3. Normal erection operations include the correction of minor misfits by moderate amounts of reaming, grinding, welding or cutting, and the drawing of elements into line through use of drift pins. Errors which require major changes in the member configuration are to be reported immediately to the Metal Building Provider by the customer to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others ("Code of Standard Practice for Steel Buildings and Bridges "in the ANSI/AISC 303–16; Section 7.14).
4. Erection tolerances are set forth in the "Code of Standard Practice for Steel Buildings and Bridges "in the ANSI/AISC 303–16; Section 7.13 note that individual members are considered plump, level and aligned if the deviation does not exceed 1:500. Variations in finished overall dimensions of structure steel framing are deemed within the limits of good practice when they do not exceed the cumulative effect of rolling, fabricating, and erection tolerances.
- 4.1. When crane support systems are part of the metal building system erection tolerances Section 6.8, Erection Tolerances, 2018 MBMA Metal Building Systems manual shall apply. To achieve the required tolerances grouting of the columns and shimming of the runway beams may be required. The customer shall provide grout if required. The contractor erecting the runway beams is responsible for shimming, plumbing, and leveling of the runway system. When aligning the runway beams the alignment shall be with respect to the beam webs so that the center of the aligned rail is over the runway web.
5. As a general rule field welding is not used to assemble a metal building system. In cases where the drawings indicate field welding and in cases where approved corrections are to be made by field welding the following requirements shall be met;
- 5.1. welders must be qualified by an independent testing agency, with suitable documentation to AWS D1.1 Structural Welding Code – Steel or AWS D1.3 Structural Welding Code – Sheet as applicable, for the processes, positions, and materials involved.
- 5.2. All welds must be made in conformance to a documented and approved Welding Procedure Specification (WPS). All joints which are not prequalified must be supported by a certified Procedure Qualification Record (PQR) by an independent testing agency.
6. All documentation and records shall be the responsibility of the customer.
7. Any claims or shortages by buyer must be made to the Metal Building Provider within seven (7) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed. All claims should be directed to the Metal Building Provider's Customer Service Department.
8. Claims for correction of alleged misfits will be disallowed unless the Metal Building Provider shall have received prior notice thereof and allowed reasonable inspection of such misfits. Ordinary inaccuracies of shop work shall not be construed as misfits. No part of the building may be returned or charges assessed for alleged misfits without prior approval from the Metal Building Provider.
9. Neither the Metal Building Provider nor the customer will cut, drill or otherwise alter their work, or the work of other trades to accommodate other trades unless such work is clearly specified in the contract documents. Whenever such work is specified the customer is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop drawings ("Code of Standard Practice for Steel Buildings and Bridges "in the ANSI/AISC 303–16, Section 7.15).
10. The Metal Building Provider Field Modifications Policy:
- 10.1. The Metal Building Provider will only be responsible for the field–modified parts designed and approved by the Metal Building Provider's Customer Service Department.
- 10.2. Any field modifications designed by third parties may not be approved by the Metal Building Provider and may limit the Metal Building Provider's warranty and liability.
- 10.3. The Metal Building Provider makes no warranty and hereby disclaims any responsibility with respect to the design, engineering, or construction of any field–modified parts performed by third parties.
11. WARNING – SOME PANELS AND TRIM PARTS ARE FURNISHED WITH A PROTECTIVE PEEL–OFF FILM. PARTS PROVIDED WITH THIS FILM CANNOT BE EXPOSED TO SUNLIGHT WITHOUT FIRST REMOVING THE FILM. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION. FILM MUST ALSO BE REMOVED FROM ALL NON EXPOSED PARTS WITHIN SIX MONTHS FROM FILM APPLICATION OR IRREPARABLE DAMAGE WILL OCCUR TO THE SURFACE CLAIMS WILL NOT BE ACCEPTED FOR THIS ISSUE.

RESPONSIBILITIES

1. The Metal Building Provider Customer, hereafter referred to as the "customer, " obtains and pays for all building permits, licenses, public assessments, paving or utility pro rata, utility connections, occupancy fees and other fees required by any governmental authority or utility in connection with the work provided for in the Contract Documents. The customer provides at his expense all plans and specifications required to obtain a building permit. it is the customer's responsibility to ensure that all plans and specifications comply with the applicable requirements of any governing building authorities.
2. The customer is responsible for identifying all applicable building codes, zoning codes, or other regulations applicable to the Construction Project, including the Metal Building system.
3. It is the responsibility of the customer to interpret all aspects of the End User's specifications and incorporate the appropriate specifications, design criteria, and design loads into the Order Documents submitted to the Metal Building Provider.
4. It is the responsibility of the Metal Building Provider to furnish the metal building system to meet the specifications including the design criteria and design loads incorporated by the Contractor into the Order Documents. The Metal Building Provider is not responsible for making an independent determination of any local codes or any other requirements not part of the Order Document.
5. The Metal Building Provider's standard specifications apply unless stipulated otherwise in the Contract Documents. The Metal Building Provider design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work any other interpretations to the contrary not with standing. it is understood by both parties that the customer is responsible for clarifications of inclusions or exclusions from the Architectural plans.
6. In case of discrepancies between the Metal Building Provider's structural steel plans and plans for other trades, the Metal Building Provider's shall govern ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC 303–16; Section 3.3).
7. The customer is responsible for overall project coordination. All interface, compatibility and design considerations concerning any materials not furnished by the Metal Building Provider and the Metal Building Provider's steel system are to be considered and coordinated by the customer. Specific design criteria concerning this interface between materials must be furnished by the customer before release for fabrication or the Metal Building Provider's assumptions will govern.
8. Foundations, anchor rods, and anchor rod embedment are designed, furnished, and set by the customer in accordance with an approved drawing. Dimensional accuracy shall satisfy the requirements of Section 7.5 1 of "Code of Standard Practice for Steel Buildings and Bridges" in the AISC 303–16.
9. All other embedded items or connection materials between the structural steel and the work of other trades are located and set by the customer in accordance with approved location on erection drawings. Accuracy of these items must satisfy the erection tolerance requirements.
10. The Metal Building Provider does not investigate the influence of the metal building system on existing buildings or structures. The End Customer assures that such buildings and structures are adequate to resist snow drifts, wind loads, or other conditions as a result of the presence of the metal building system.

GENERAL SPECIFICATIONS

1. Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels or cutting panels for framed openings not shown is prohibited.
2. Oil–canning, a perceived waviness inherent to light gauge metal, may exist. This condition does not affect the structural integrity or the finish of the panel, and therefore is not a cause for rejection.
3. The Metal Building Provider's red–oxide and gray–oxide primer are designed for short term field protection from exposure to ordinary atmospheric conditions. Primed steel which is stored in the field pending erection should be kept free of the ground, and so positioned as to minimize water–holding pockets, dust, mud, and other contamination of the primer film. Repairs of damage to primed surfaces and/or removal of foreign material due to transportation (e.g. road salt, de–icing chemicals and other substances encountered during transportation that may accelerate deterioration of the primer or corrosion of the underlying steel), improper field storage, or site conditions are not the responsibility of the Metal Building Provider. (MBMA, 2018 MBSM, Section 4.2.4)
4. All bolts are 1/2" x 1–1/4" A307 unless noted. Refer to the erection drawings for specific framing connections and the cross–section(s) for main frame connections.
5. Unless noted otherwise on the frame cross section(s), all bolted joints with ASTM F3125 Grade A325 bolts are specified as snug–tightened joints in accordance with the specification for Structural Joints Using High–Strength Bolts, June 11, 2020. Installation inspection requirements for Snug–Tight Bolts (Specification for Structural joints, Section 9.1) is suggested.
6. Unless noted otherwise, all bolted connections are designed as bearing type connections with bolt threads not excluded from the shear plane.
7. Any type of suspended or load inducing system(s) is prohibited if zero collateral and zero sprinkler loads are designated on the contract. This would include lights, duct work, piping, and insulation types other than 3" standard duty fiberglass blanket insulation, etc.

BUILDING DESIGN CODES

Building Code: IBC 18  
Hot–rolled version: AISC 360–16  
Cold–formed version: AISI S100–16

GENERAL LOADS

Dead Load: 3.10 psf  
Roof Collateral Load: 1.00 psf (Misc.)  
Sprinkler Load: 0.00 psf  
Roof Live Load: 20.00 psf  
Tributary Live Load Reduction: NO  
Rainfall Intensity: 4.00 in/hr (5–minute duration 5–year recurrence)

WIND LOAD

Wind Load (3–sec gust) Vult: 115 mph  
Vasd: 89 mph  
V service: 77 mph

Exposure Factor: C  
Wind Condition: Enclosed  
Internal Pressure Coefficient : +/- 0.18  
Edge Zone Width: 6.50 Ft

SNOW LOAD

Ground Snow Load : 80.00 psf  
Roof Snow Load : 60.00 psf  
Importance Factor: 1.00  
Exposure Factor: 1.00  
Thermal Factor: 1.00  
Slope Factor: 1.00

DEFLECTION CRITERIA

Main Frames Horizontal: H/60 Roof Panels: L/60  
Main Frames Vertical: L/180 Purlins: L/180  
Bearing Frame Rafter: L/180 Wall Panels: L/60  
Endwall Columns: L/120 Girts: L/90  
Wind Frame Horizontal : H/60

For components,claddings and MWFRS, deflections involving wind are based on 10 year serviceability wind pressures.

SEISMIC LOAD

Risk Category: II – Normal  
Seismic Importance Factor : 1.0000  
Structural Response Acceleration (Ss): 0.4190  
Structural Response Acceleration(S1): 0.0862  
Site Class: D  
Design Spectral Response (Sds): 0.4092  
Design Spectral Response (Sd1): 0.1376  
Seismic Design Category: C

Framing Direction: Lateral Longitudinal  
Structural Syst: 'Structural Steel Systems Not Specifically Detailed for Seismic Resistance'

Response Modification Factor(s) : 3.0 3.0  
Deflection Amplification: 3.0 3.0  
Sesimic Response Coefficient(s) (Cs): 0.1365 0.1365  
Design Base Shear V : 14.14 (kips) 14.12 (kips)  
Analysis Procedure: Equivalent Lateral Force

ROOF PANEL

Profile: Super Span X Gauge: 26 Color: SMP Royal Blue  
UL580 Class 90: Yes  
Clip Type if Standing Seam: NO

WALL PANEL

Profile: Super Span X Gauge: 26 Color: SMP Steel Gray

SOFFIT PANEL

Profile: Reverse Rolled Super Span X Gauge: 26 Color: SMP Steel Gray

PARTITION PANEL

Profile: Super Span X Gauge: 26 Color: SMP Steel Gray

PRIMARY FRAMING

Built–Up & Hot–Rolled: Gray Oxide Primer

SECONDARY FRAMING

Purlins, Eave Struts: Pre–Galvanized  
Girts, Light Gage Columns: Pre–Galvanized  
Light Gage Jambs & Headers: Pre–Galvanized  
Base Angle Finish: Pre–Galvanized

Hot–Dip Galvanizing conforms to the ASTM A123 specification.  
Pre–Galvanized members conform to the ASTM A653, Grade 50,  
Coating G–90 specification.

APPROVAL SPECIFICATIONS

1. Approval of the Metal Building Provider drawings and/or calculations indicate that the Metal Building Provider has correctly interpreted the contact requirements. This approval constitutes the customer acceptance of the Metal Building Provider design, concepts, assumptions, and loadings.
2. Failure to respond to clouded areas and areas to verify may result in additional costs and/or schedule delays for which the Metal Building Provider will not be responsible.
3. Any changes made after the Metal Building Provider's customer has signed and returned the Metal Building Provider drawings and/or calculations and the project is released for fabrication shall be billed to the Metal Building Provider customer including material, engineering, and other costs. An additional fee may be charged if the project must be moved in the fabrication and/or the shipping schedule.
4. It is the responsibility of the customer to field verify all existing conditions prior to fabrication.
5. It is imperative that any changes to these drawings:
- 5.1. Be made in contrasting ink.
- 5.2. Be legible and unambiguous.
- 5.3. Have all instances of changes clearly indicated.
6. A dated signature, in the designated areas, is required on all pages. The signature must be from the person authorized on the contract or a person authorized, in writing, by the Metal Building Provider customer.
7. The Metal Building Provider reserves the right to resubmit drawings with extensive or complex changes required to avoid misfabrication. This may impact the delivery schedule.
8. Any changes noted on the drawings not in conformance with the terms and requirements of the contract between the Metal Building Provider and its customer are not binding on the Metal Building Provider unless subsequently acknowledged and agreed to in writing by change order or separate documentation.
9. Waiving the approval process by designating the order "For Production" supercedes notes 1,2,5,6, and 8 in this section, and constitutes the customer acceptance of the Metal Building Provider's design, concepts, assumptions, and loadings.

DRAWING SCHEDULE

DWG NO.	ISSUE	DATE	DESCRIPTION
C1	0	08.02.23	COVER SHEET
F1	1	07.20.23	ANCHOR BOLT PLAN
F2	1	07.20.23	ANCHOR BOLT DETAILS
F3	1	07.20.23	ANCHOR BOLT REACTIONS
F4	1	07.20.23	ANCHOR BOLT REACTIONS
P1	0	08.02.23	RIGID FRAME ELEVATION
E1	0	08.02.23	ROOF FRAMING PLAN
E2	0	08.02.23	ROOF SHEETING PLAN
E3	0	08.02.23	ENDWALL FRAME & SHEETING ELEVATION
E4	0	08.02.23	ENDWALL FRAME & SHEETING ELEVATION
E5	0	08.02.23	SIDEWALL FRAME & SHEETING ELEVATION
E6	0	08.02.23	SIDEWALL FRAME & SHEETING ELEVATION
E7	0	08.02.23	PARTITION FRAME & SHEETING ELEVATION
E8	0	08.02.23	BUILDING SECTIONS
E9	0	08.02.23	BUILDING SECTIONS
D1	0	08.02.23	STANDARD DETAILS PAGE
D2	0	08.02.23	STANDARD DETAILS PAGE
D3	0	08.02.23	STANDARD DETAILS PAGE
D4	0	08.02.23	STANDARD DETAILS PAGE

TRIM COLOR:			
Shadow Rake:	SMP Royal Blue	GAUGE:	26
Shadow Eave:	SMP Royal Blue	GAUGE:	26
CORNER:	SMP Royal Blue	GAUGE:	26
ACCESSORY:	SMP Royal Blue	GAUGE:	26
SOFFIT TRIM:	SMP Royal Blue	GAUGE:	26
PARTITION TRIM:	SMP Royal Blue	GAUGE:	26
BASE Trim:	SMP Royal Blue	GAUGE:	26

☐ FOR APPROVAL:  
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☐ FOR CONSTRUCTION PERMIT:  
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☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.

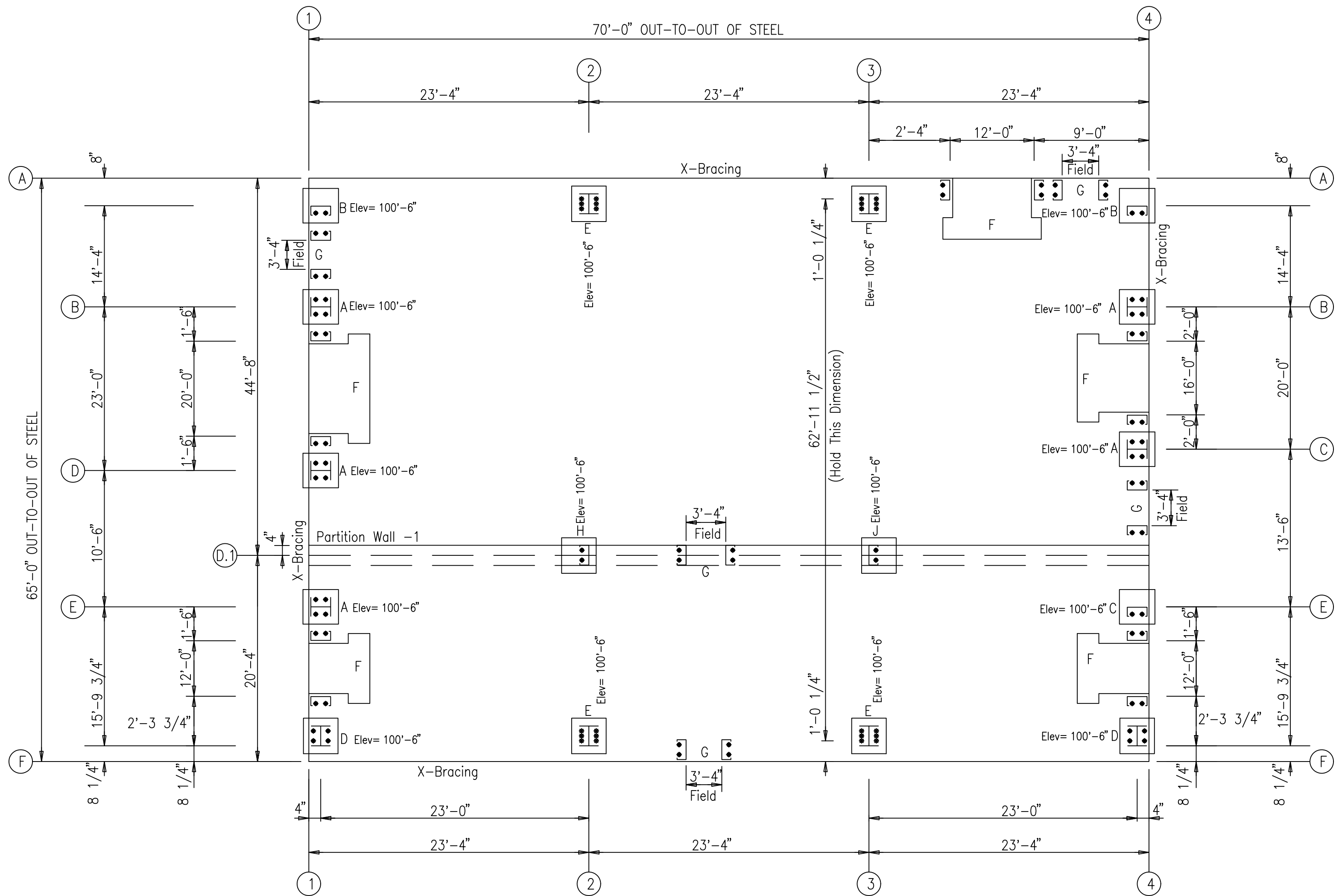


ISSUE	DATE	DESCRIPTION	BY	CHK	PNC	SHEET DESCRIPTION:	BLDG SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC		COVER SHEET	65'-0" x 70'-0" x 18'-0"/14'-3"
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC		CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS	CUSTOMER LOCATION: HAYDEN, CO 81639
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC		PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS	
						JOB SITE LOCATION: HAYDEN, CO 81639	JOB SITE COUNTY: ROUTT
						DWN: PND	CHK: PNC
						DATE: 08.02.23	ENG: KMO
						JOB NO: 11217–32005	DWG NO: C1
							ISSUE: 0

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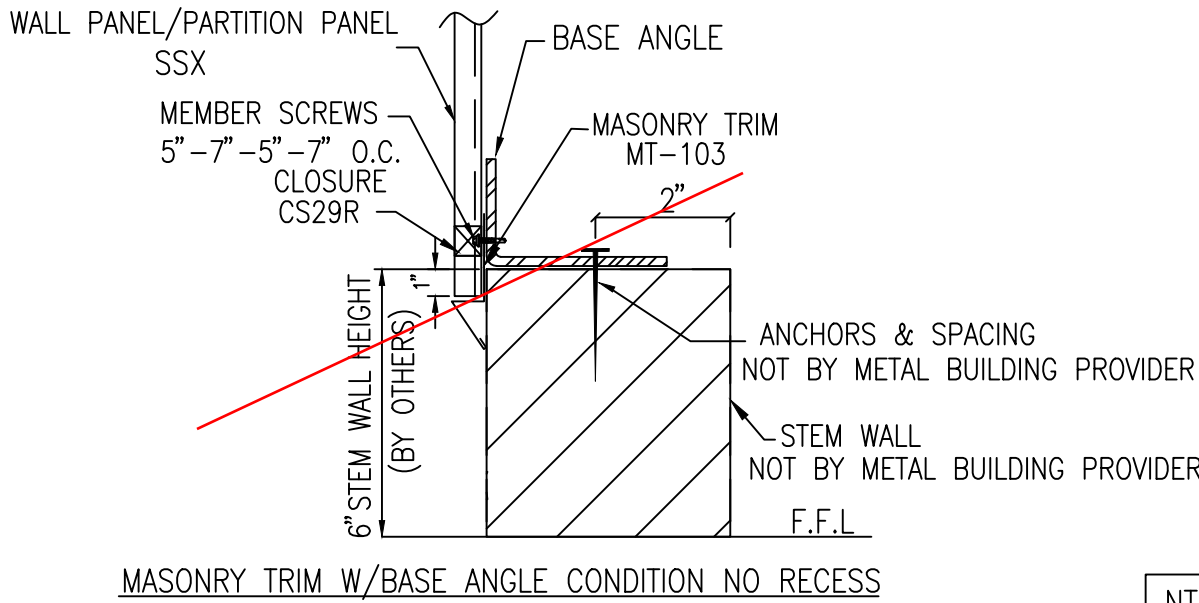
● Dia= 5/8"

⊗ Dia=1"



ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)



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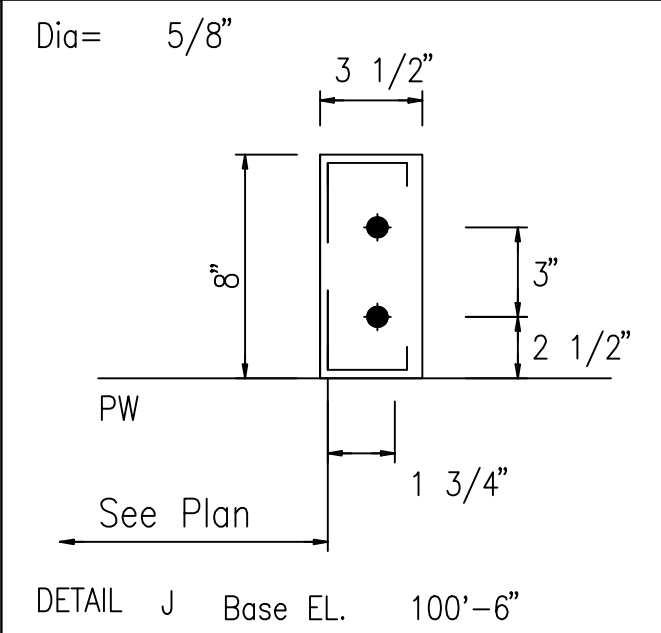
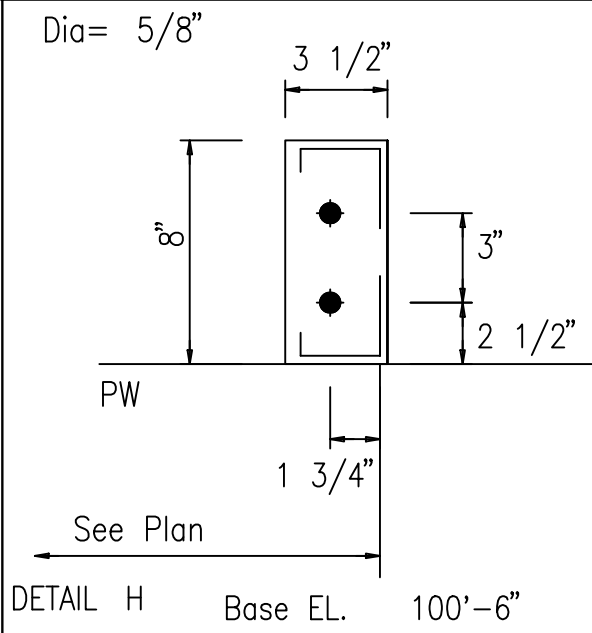
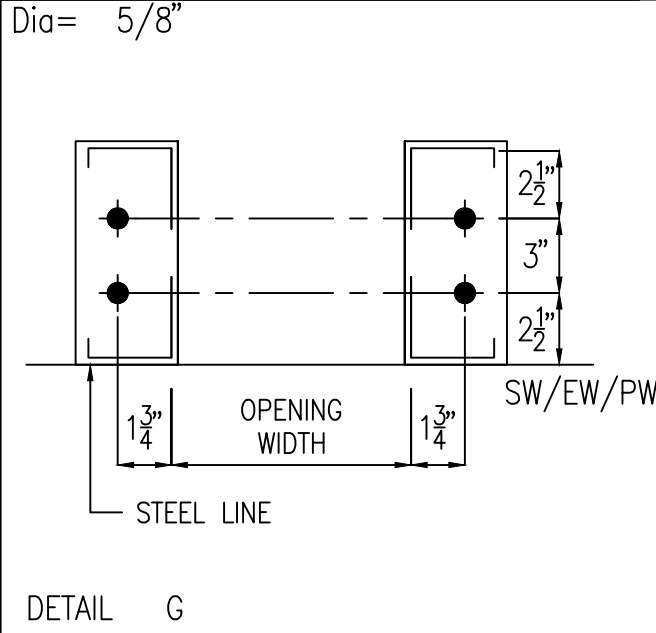
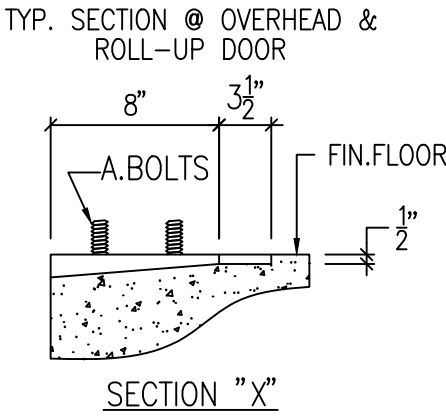
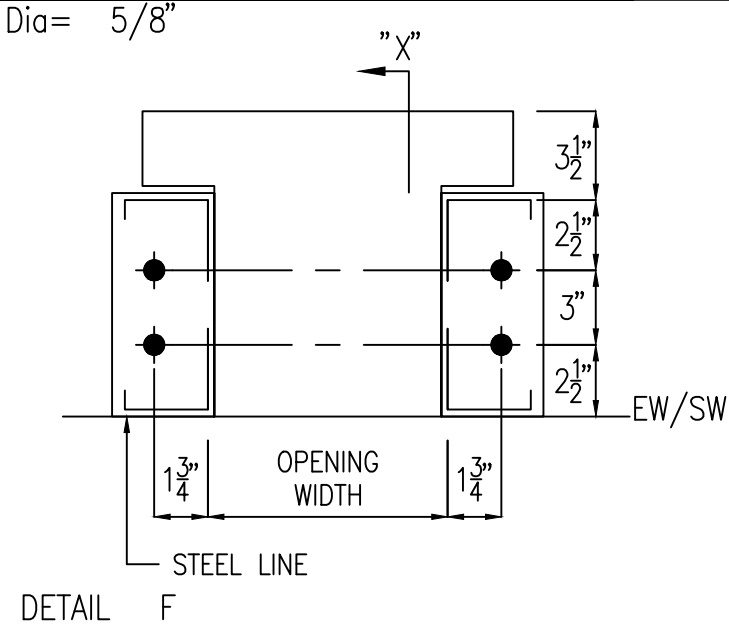
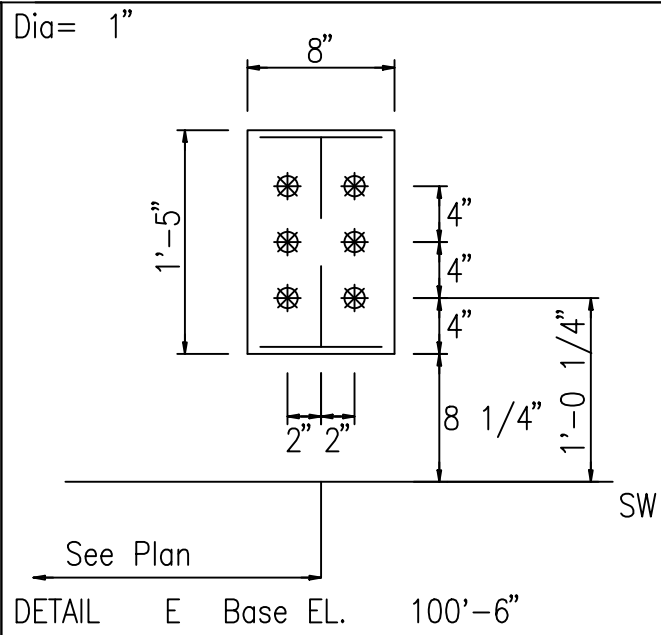
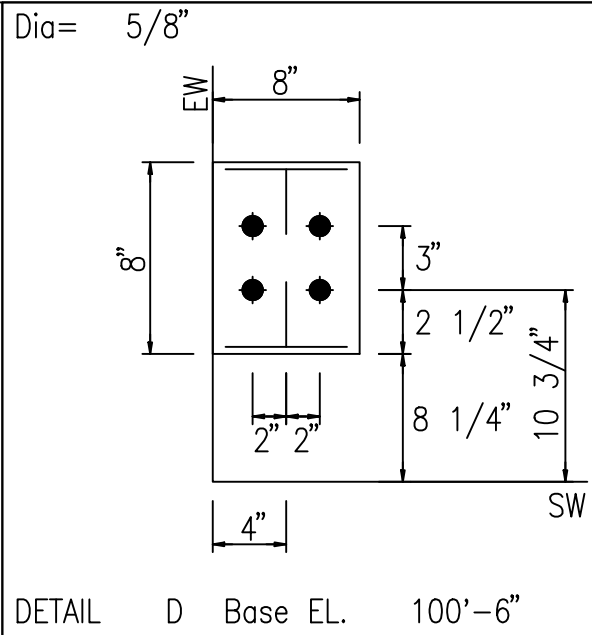
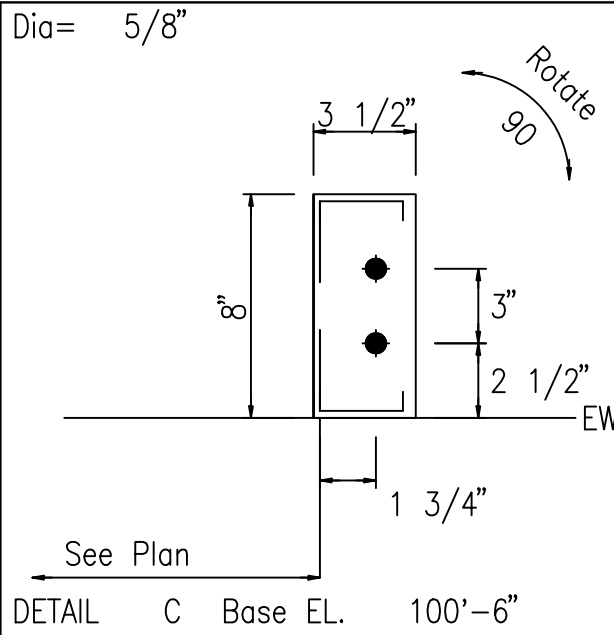
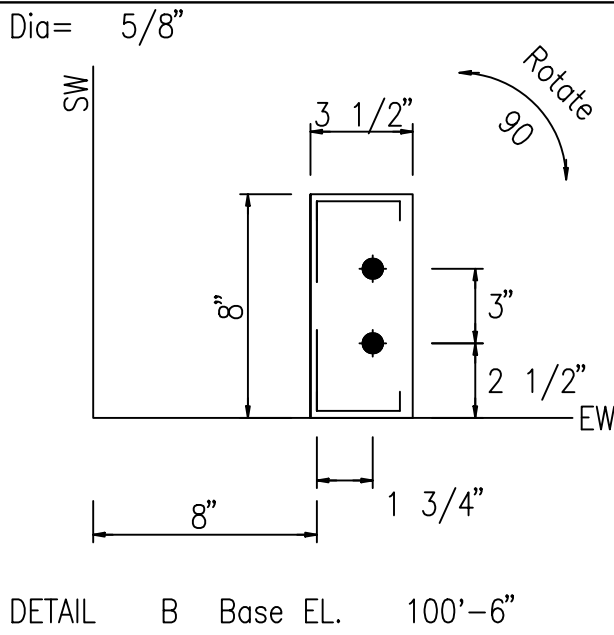
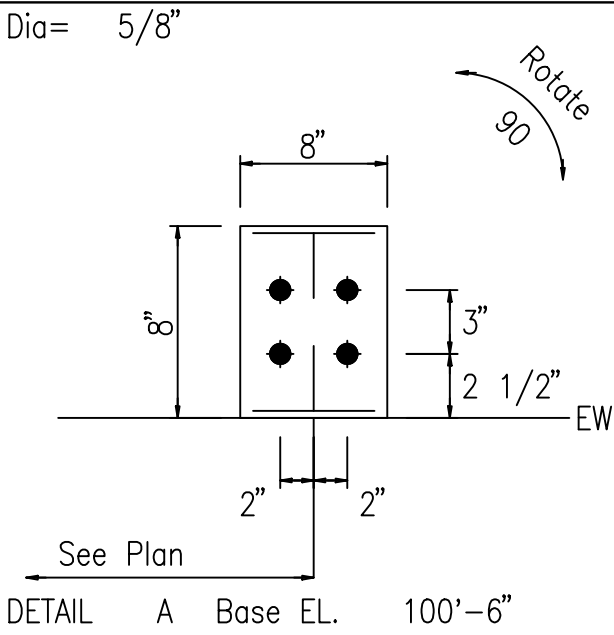
☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
0	06.19.23	FOR ERECTOR INSTALLATION	PND	PNC	ANCHOR BOLT PLAN	65'-0" x 70'-0" x 18'-0"/14'-3"
1	07.20.23	REV.FOR ERECTOR INSTALLATION	PND	PNC		
CUSTOMER:						CUSTOMER LOCATION:
THUNDERSTRUCK / C&B HOLDINGS						HAYDEN, CO 81639
PROJECT REFERENCE:						
THUNDERSTRUCK / C&B HOLDINGS						
JOBSITE LOCATION:						JOBSITE COUNTY:
HAYDEN, CO 81639						ROUTT
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	07.20.23	KMO	11217-32005	F1	1

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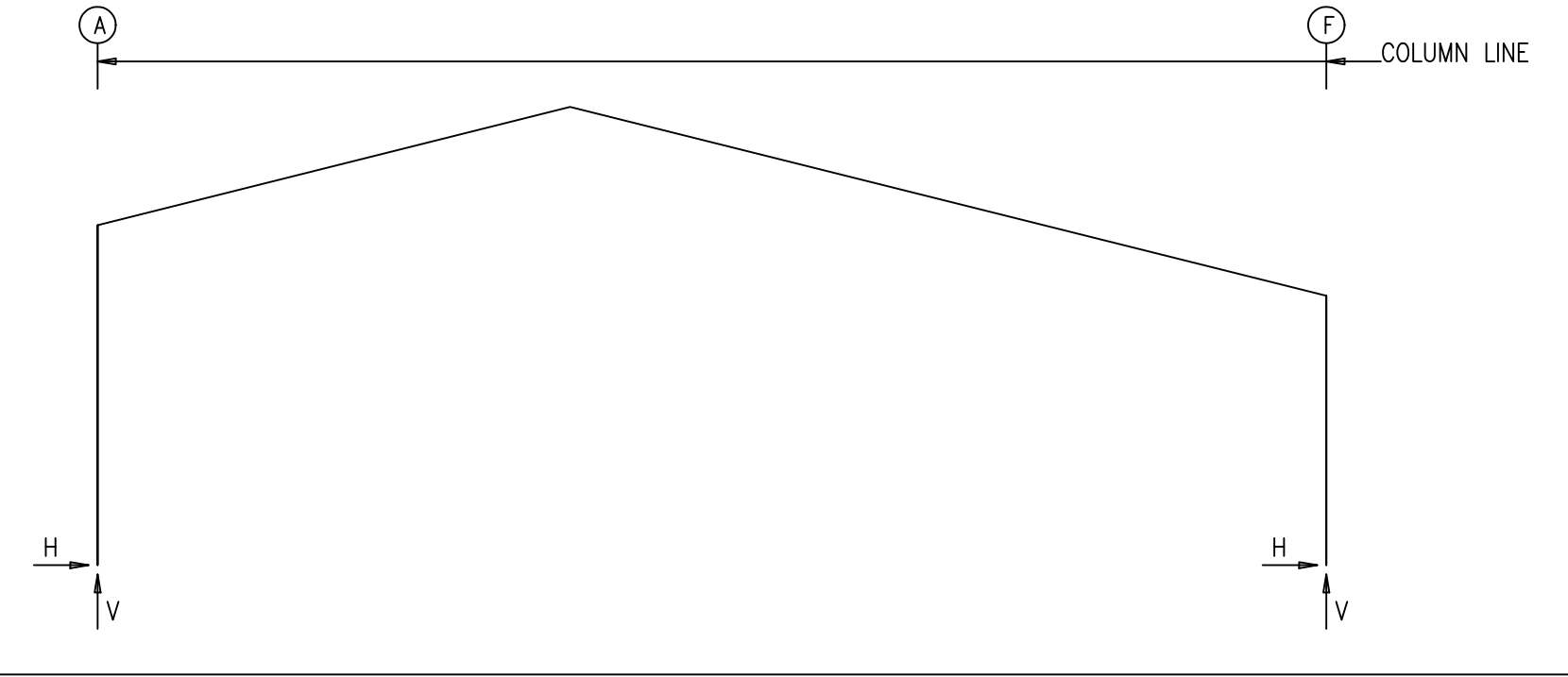
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					JOB NO:	DWG NO:
					11217-32005	F2
					ISSUE:	
					1	

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FRAME LINES: 2 3



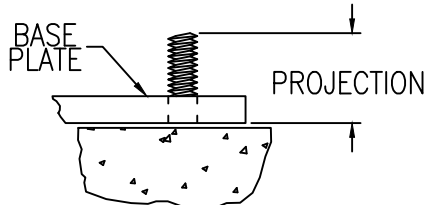
RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES															
Frm Line	Col Line	Column_Reactions(k )						Bolt(in)		Base_Plate(in)			Elev. (in)		
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick			
2*	A	1	30.3	53.7	2	-5.7	-8.5	6	1.000	8.000	17.00	0.500	6.0		
					4	-1.1	-9.2								
2*	F	3	5.6	-8.9	1	-30.3	53.1	6	1.000	8.000	17.00	0.500	6.0		
		7	-28.3	53.6	5	1.6	-9.3								
2*	Frame lines:		2	3											

RIGID FRAME: BASIC COLUMN REACTIONS (k )																	
Frame Line	Column Line	Dead		Collateral		Live		Snow		Wind_Left1		Wind_Right1					
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	2.1	4.4	0.5	0.8	9.2	16.2	27.7	48.5	-11.7	-18.6	-4.7	-14.0				
2*	F	-2.1	4.2	-0.5	0.8	-9.2	16.0	-27.7	48.1	3.4	-12.8	11.5	-19.1				
Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right					
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	-9.4	-11.5	-2.7	-7.0	-4.0	-19.7	-6.7	-19.0	-1.8	-0.9	1.8	0.9				
2*	F	1.1	-5.7	9.5	-12.0	5.4	-15.8	4.8	-19.6	-2.5	0.9	2.5	-0.9				
Frame Line	Column Line	Seismic_Long		MIN_SNOW		F1UNB_SLL		F1UNB_SLR									
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert								
2*	A	0.0	-4.7	9.2	16.1	20.0	48.0	25.7	31.3								
2*	F	0.0	-3.5	-9.2	16.0	-20.0	22.6	-25.7	48.6								
2*	Frame lines:	2 3															

GENERAL NOTES

- All anchor bolts (by others) to have nuts and flat washers.
- All anchor bolts are designed to full S.A.E. diameters with cut threads. No substitutions are allowed.
- The Metal Building Provider is not responsible for the design, materials and workmanship of the foundation. Anchor bolt plans prepared by the Metal Building Provider are intended to show only location, diameter, and projection of anchor bolts required to attach the Metal Building System to the foundation. The Metal Building Provider is responsible for providing to the Builder the loads imposed by the Metal Building System on the foundation. It is the responsibility of the End Customer to ensure that adequate provisions are made for specifying bolt embedment, bearing angles, tie rods, and/or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. This is typically the responsibility of the Design Professional or Engineer of Record, which is another reason that their involvement in the Construction Project from the outset is highly recommended. (2012 MBMA Metal Building Systems Manual, Section 3.2.2)
- The projection is based from the bottom of the base plate. Adjustments must be made for grout and/or leveling plates.

THREADED ANCHOR BOLT



NOTE: PROJECTION BASED FROM BOTTOM OF BASE PLATE. ADJUSTMENTS SHOULD BE MADE FOR GROUT AND/OR LEVELING PLATES.

ENDWALL COLUMN:

BASIC COLUMN REACTIONS (k )																	
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2					
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert				
1	A	0.5	0.1	2.0	5.9	0.0	-3.6	0.0	-2.9	0.0	-2.5	0.0	-1.7				
1	B	1.5	0.3	6.1	18.2	0.0	-8.6	0.0	-5.0	0.0	-6.2	0.0	-2.8				
1	D	1.3	0.3	5.1	15.4	-2.8	-10.2	0.0	-2.9	-2.5	-7.8	0.0	-1.0				
1	E	0.9	0.2	3.4	10.3	0.0	1.9	1.9	-10.0	0.0	3.3	2.0	-8.0				
1	F	0.7	0.1	2.7	8.0	-10.88	-3.0	2.12	-4.3	-10.88	-1.9	2.12	-3.0				

Frm Line	Col Line	Wind_Press		Wind_Suct		Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		Seis_Long			
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert		
1	A	0.0	0.0	0.0	0.0	0.0	-3.1	0.0	-1.7	0.0	0.1	0.0	-0.1	0.0	0.0		
1	B	-4.4	0.0	4.9	0.0	0.0	-7.7	0.0	-5.4	0.0	-0.2	0.0	0.2	0.1	0.0		
1	D	-3.8	0.0	4.2	0.0	0.0	-2.7	-2.4	-11.0	-2.8	-5.5	0.0	4.8	0.1	0.0		
1	E	-2.6	0.0	2.9	0.0	0.6	-4.8	0.0	-1.6	0.0	5.6	2.8	-4.9	0.0	0.0		
1	F	-6.4	-3.2	0.0	3.2	0.0	-2.2	0.0	-3.6	0.0	-0.1	0.0	0.1	-7.0	-3.5		

Frm Line	Col Line	MIN_SNOW		E1UNB_SLL		E1UNB_SLR											
		Horz	Vert	Horz	Vert	Horz	Vert										
1	A	0.0	2.0	0.0	6.8	0.0	0.8										
1	B	0.0	6.1	0.0	23.5	0.0	9.7										
1	D	0.0	5.1	0.0	7.4	0.0	19.5										
1	E	0.0	3.4	0.0	1.9	0.0	9.3										
1	F	0.0	2.7	0.0	2.5	0.0	8.4										

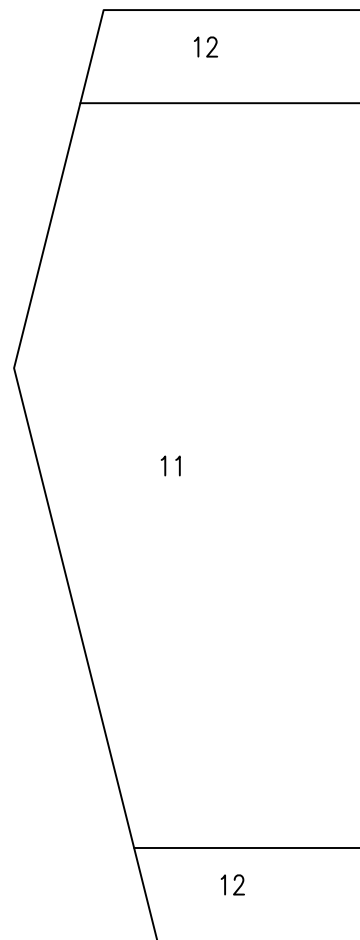
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind Press			
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz			
4	F	0.7	0.1	2.6	7.8	-1.83	-4.2	2.12	-2.9	-1.83	-3.0	2.12	-1.8	0.0			
4	E	1.0	0.2	4.3	12.8	0.0	-7.5	0.0	-4.9	0.0	-5.1	0.0	-2.5	-2.9			
4	C	1.2	0.2	4.8	14.3	0.0	-5.8	0.0	-3.8	0.0	-4.3	0.0	-2.2	-4.0			
4	B	1.4	0.3	5.5	16.5	-1.9	-7.6	0.0	-4.1	-2.0	-5.7	0.0	-2.2	-4.1			
4	A	0.5	0.1	2.1	6.3	0.0	0.1	2.8	-7.7	0.0	1.5	2.5	-6.2	0.0			

Frm Line	Col Line	Wind Suct	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		Seis Long	MIN_SNOW					
		Horz	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Horz	Vert				
4	F	0.0	0.0	-3.5	0.0	-2.2	0.0	0.1	0.0	-0.1	0.0	0.0	2.6				
4	E	3.2	0.0	-7.9	0.0	-4.3	0.0	0.3	0.0	-0.3	0.0	0.0	4.3				
4	C	4.4	0.0	-5.4	0.0	-3.5	0.0	-0.4	0.0	0.4	0.1	0.0	4.8				
4	B	4.5	0.0	-1.4	-0.6	-8.3	-2.8	-4.5	0.0	3.8	0.1	0.0	5.5				
4	A	0.0	2.4	-5.3	0.0	-2.2	0.0	4.5	2.8	-3.8	0.0	0.0	2.1				

Frm Line	Col Line	E2UNB_SLL		E2UNB_SLR													
		Horz	Vert	Horz	Vert												
4	F	0.0	8.2	0.0	2.4												
4	E	0.0	12.6	0.0	3.0												
4	C	0.0	18.1	0.0	7.1												
4	B	0.0	7.6	0.0	22.6												
4	A	0.0	1.4	0.0	7.0												

ENDWALL COLUMN:

Frm Line	Col Line	Column_Reactions(k )						Bolt(in) Qty Dia		Base_Plate(in)			Elev. (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
1	A	2 8	0.0 0.0	-1.8 7.4	2	0.0	-1.8	2	0.625	3.500	8.000	0.250	6.0
1	B	9 8	2.9 0.0	-4.3 25.3	10 9	-2.7 2.9	-3.7 -4.3	4	0.625	8.000	8.000	0.375	6.0
1	D	11 13	2.5 0.0	-5.9 21.0	12 11	-2.3 2.5	-5.9 -5.9	4	0.625	8.000	8.000	0.375	6.0
1	E	14 1	1.7 0.0	-5.5 11.3	10 14	-1.6 1.7	-2.4 -5.5	4	0.625	8.000	8.000	0.375	6.0
1	F	3 13	0.0 0.0	-2.1 9.3	6 12	-4.9 -3.9	-2.1 -3.7	4	0.625	8.000	8.000	0.375	6.0
4	F	2 15	0.0 0.0	-2.1 9.0	2	0.0	-2.1	4	0.625	8.000	8.000	0.375	6.0
4	E	16 1	1.9 0.0	-4.1 14.0	10 16	-1.7 1.9	-4.1 -4.1	2	0.625	3.500	8.000	0.250	6.0
4	C	9 15	2.6 0.0	-2.8 19.5	10 9	-2.4 2.6	-2.5 -2.8	4	0.625	8.000	8.000	0.375	6.0
4	B	11 17	2.7 0.0	-4.2 24.2	12 11	-2.5 2.7	-4.2 -4.2	4	0.625	8.000	8.000	0.375	6.0
4	A	3 17	0.0 0.0	-4.3 7.7	3	0.0	-4.3	2	0.625	3.500	8.000	0.250	6.0



- (+) wind towards surface
- (-) wind away from surface

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

5. Loading conditions are:

```
1 Dead+Collateral+Snow+Slide_Snow
2 0.6Dead+0.6Wind_Left1
3 0.6Dead+0.6Wind_Right1
4 0.6Dead+0.6Wind_Long1L
5 0.6Dead+0.6Wind_Long2L
6 0.54Dead+0.7Seismic_LongL
7 Dead+Collateral+f1UNB_SL_R
8 Dead+Collateral+f1UNB_SL_L
9 0.6Dead+0.6Wind_Left1+0.6Wind_Suction
10 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
11 0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
12 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
13 Dead+Collateral+E1UNB_SL_R
14 0.6Dead+0.6Wind_Right1+0.6Wind_Suction
15 Dead+Collateral+E2UNB_SL_L
16 0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
17 Dead+Collateral+E2UNB_SL_R
```

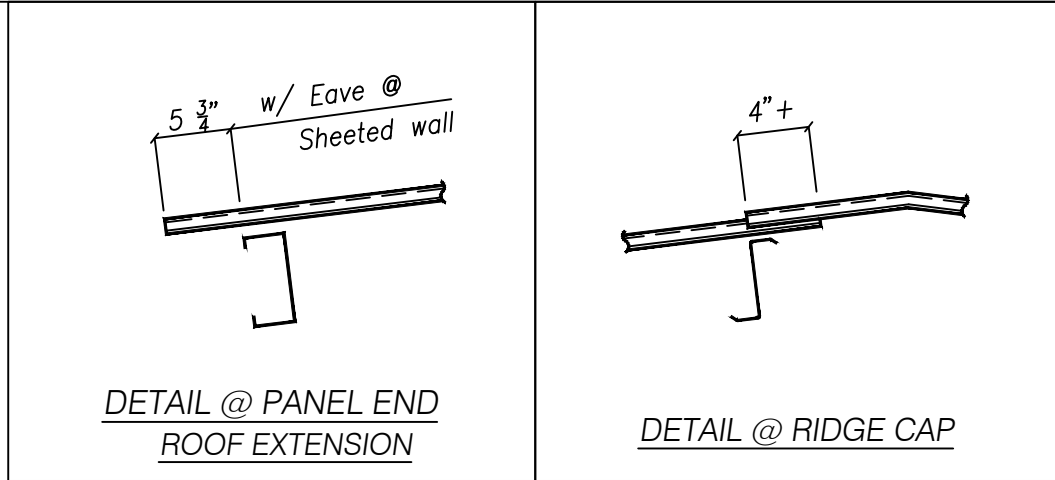
ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
0	06.19.23	FOR ERECTOR INSTALLATION	PND	PNC	ANCHOR BOLT REACTIONS	65'-0" x 70'-0" x 18'-0"/14'-3"
1	07.20.23	REV.FOR ERECTOR INSTALLATION	PND	PNC	CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS	CUSTOMER LOGO: HAYDEN, CO 81639
					PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS	
					JOBSITE LOCATION: HAYDEN, CO 81639	JOBSITE COUNTY: ROUTT
					DWN: PND CHK: 07.20.23 ENG: KMO JOB NO: 11217-32005 DWC NO: F4	ISSUE: 1

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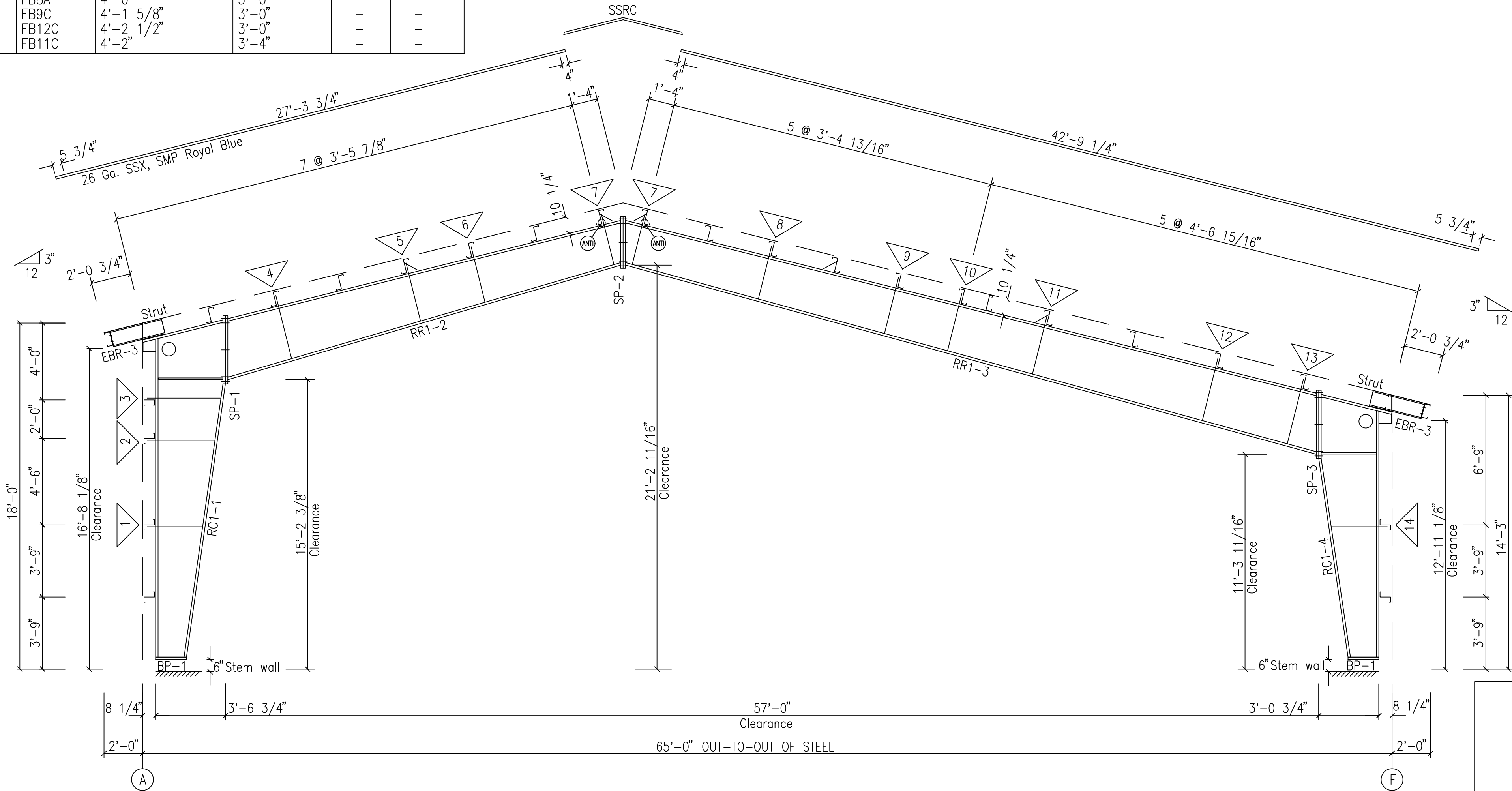
SPlice Plate & Bolt Table									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	2	A325	1"	3' 1/4"	8"	1"	3'-8 1/4"
SP-2	4	4	2	A325	3/4"	2"	8"	1/2"	2'-9 3/4"
SP-3	4	4	2	A325	1"	2' 1/2"	8"	5/8"	3'-8 1/4"

FLANGE BRACE TABLE						
FRAME LINE		2 3				
▽ ID	# Sides	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	1	FB15C	4'-8 1/8"	4'-0"	-	-
2	2	FB13C	4'-4 1/8"	3'-0"	-	-
3	2	FB14C	4'-6 7/8"	3'-0"	-	-
4	1	FB10C	4'-1 3/4"	3'-0"	-	-
5	1	FB7C	3'-5 7/8"	2'-4"	-	-
6	1	FB4A	3'-4 5/8"	2'-4"	-	-
7	1	FB2A	3'-2 1/4"	2'-4"	-	-
8	1	FB3A	3'-3 5/8"	2'-4"	-	-
9	1	FB5A	3'-5"	2'-4"	-	-
10	1	FB6A	3'-5 5/8"	2'-4"	-	-
11	1	FB8A	4'-0"	3'-0"	-	-
12	1	FB9C	4'-1 5/8"	3'-0"	-	-
13	1	FB12C	4'-2 1/2"	3'-0"	-	-
14	1	FB11C	4'-2"	3'-4"	-	-



MEMBER TABLE				
Mark	Web Depth		Web Plate	
	Start/End	Thick	W x Thk	Inside Flange W x Thk
RC1-1	16.0/34.2	0.164	8 x 1/4"	8 x 1/2"
	34.2/42.0	0.250	8 x 5/8"	
RR1-2	34.0/30.8	0.188	8 x 5/16"	8 x 1/2"
	30.8/24.0	0.164	8 x 1/4"	8 x 3/8"
RR1-3	24.0/26.7	0.164	8 x 3/8"	8 x 1/4"
	26.7/32.0	0.164	8 x 3/8"	8 x 1/4"
RC1-4	32.0/34.0	0.188	8 x 5/16"	8 x 1/2"
			8 x 1/4"	
EBR-3	36.0/36.0	0.250	8 x 1/2"	8 x 1/2"
	36.0/16.0	0.188	8 x 1/4"	
W10X12				

BASE PLATE TABLE			
Col Mark	Plate Size		
	Width	Thick	Length
BP-1	8"	1/2"	1'-5"



BOLT TIGHTENING (Snug-Tight)

All bolted joints with ASTM F3125 Grade A325 bolts are specified as Snug-Tightened Joints in accordance with the Specification of Structural Joints Using High-Strength Bolts, June 11, 2020, installation as given in Section 7.1 Washers are not required for Snug-Tightened Joints using standard standard size holes per Section 6.1 of the Specification

Pretensioning methods, including Turn-of-Nut, calibrated wrench, twist-off tension control bolts or direct tension indicator are not required. Installation inspection requirements for Snug-Tight Bolt is found in Section 9.1 of the Specification.

RIGID FRAME ELEVATION: FRAME LINE 2 3

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☒ FOR ERECTOR INSTALLATION: Final drawings for construction.



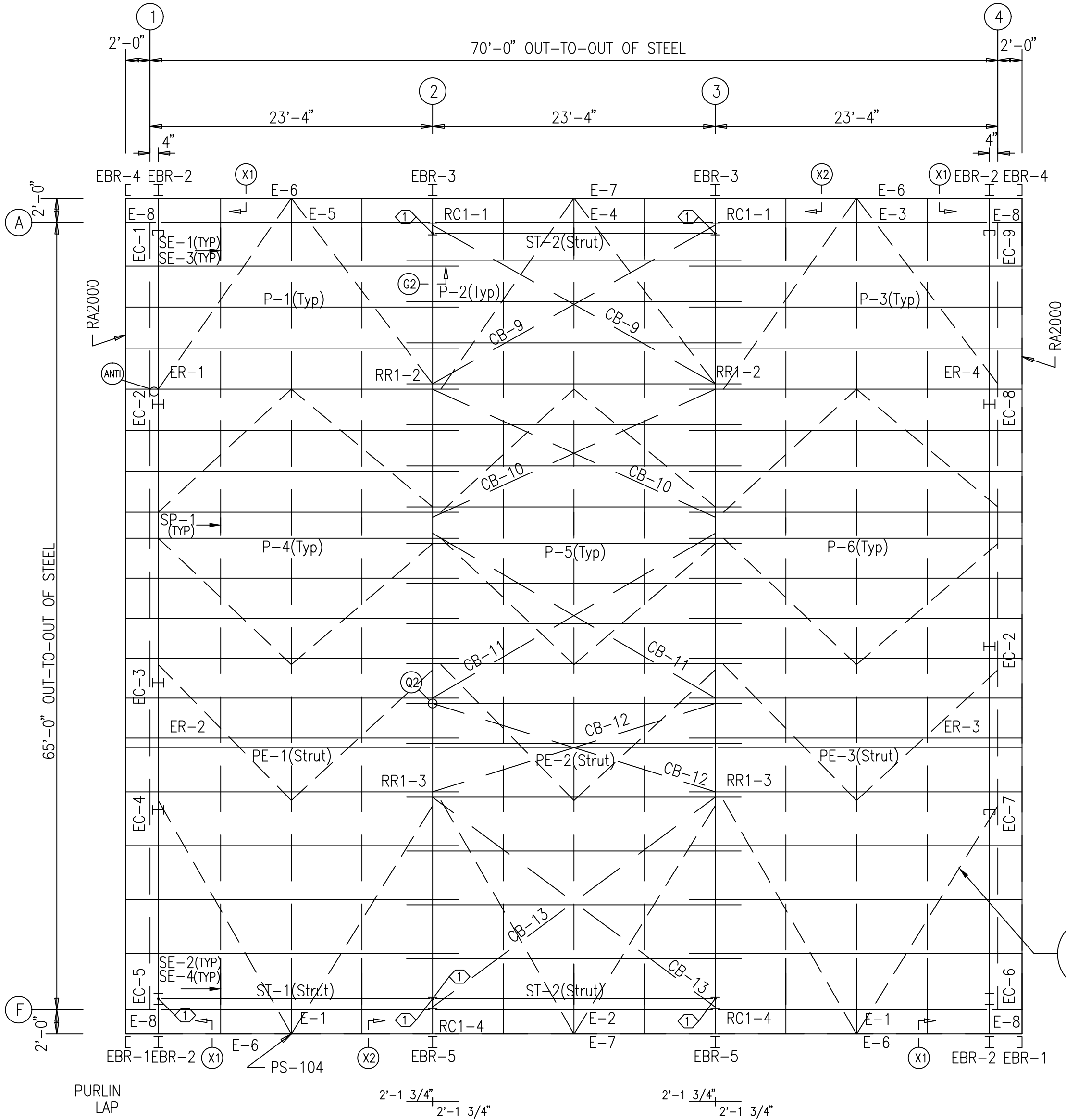
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

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SHEET DESCRIPTION: RIGID FRAME ELEVATION	
BLDG SIZE: 65'-0" x 70'-0" x 18'-0"/14'-3"	
CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS	
CUSTOMER LOCATION: HAYDEN, CO 81639	
PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS	
JOB SITE LOCATION: HAYDEN, CO 81639	
JOB SITE COUNTY: ROUTT	
DWN: PND	CHK: PNC
DATE: 08.02.23	ENG: KMO
JOB NO: 11217-32005	DWG NO: P1
ISSUE: 0	

EXTENSION/CANOPY BOLTS					
ROOF PLAN					
MARK	QUAN	TYPE	DIA	LENGTH	
EBR-2	8	A325	1/2"	1 3/4"	
EBR-3/EBR-5	8	A325	5/8"	2 1/4"	

SPECIAL BOLTS					
ROOF PLAN					
◇ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	5/8"	1 3/4"	0

MEMBER TABLE	
ROOF PLAN	
MARK	PART
EBR-1	10X2CH16
EBR-2	W10X12
EBR-3	W10X12
EBR-4	10X2CH16
EBR-5	W10X12
PE-1	10HES143
PE-2	10HES143
PE-3	10HES143
P-1	10X35Z12
P-2	10X35Z12
P-3	10X35Z12
P-4	10X25Z12
P-5	10X25Z12
P-6	10X25Z12
E-1	10ES143
E-2	10ES143
E-3	10ES143
E-4	10ES143
E-5	10ES143
E-6	10X35C12
E-7	10X35C12
E-8	10ES143
ST-1	P0450337
ST-2	P0450237
CB-9	0.31_CBL
CB-10	0.25_CBL
CB-11	0.25_CBL
CB-12	0.25_CBL
CB-13	0.31_CBL
SP-1	10X25C16
SE-1	M-1-1
SE-2	M-1-1
SE-3	M-1-1
SE-4	M-1-1



ROOF FRAMING PLAN

UL580, CLASS 90 CONST. NUMBER 167

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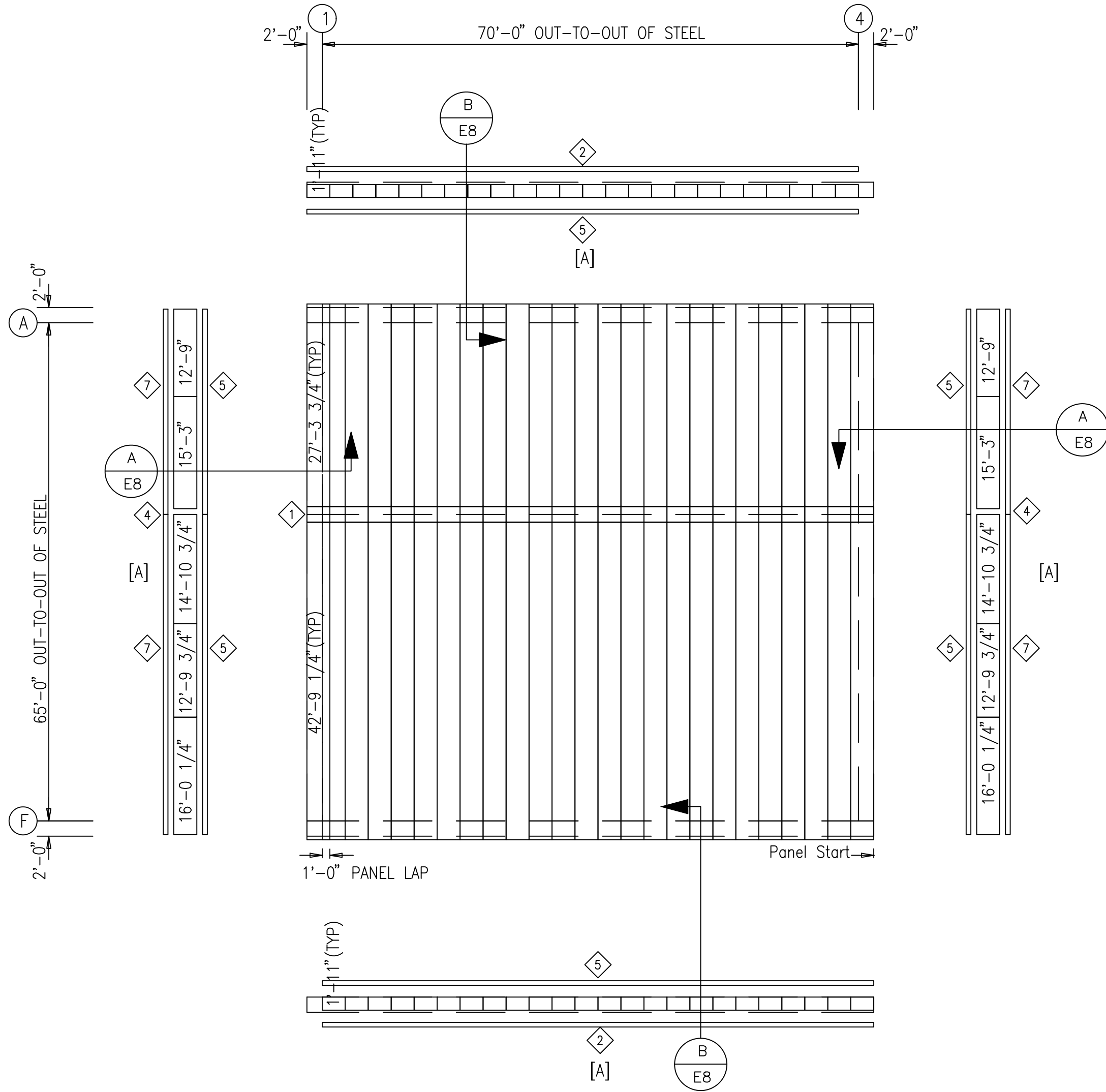
☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC	ROOF FRAMING PLAN	65'-0" x 70'-0" x 18'-0"/14'-3"
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC	CUSTOMER:	CUSTOMER LOCATION:
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC	THUNDERSTRUCK / C&B HOLDINGS	HAYDEN, CO 81639
PROJECT REFERENCE:						THUNDERSTRUCK / C&B HOLDINGS
JOBSITE LOCATION:						HAYDEN, CO 81639
JOBITE COUNTY:						ROUTT
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	08.02.23	KMO	11217-32005	E1	0

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ROOF SHEETING TRIM TABLE		
◇ID	PART	LENGTH
1	SSRC30	3'-0"
2	SF-12	15'-3"
4	CF-110	10'-3"
5	CF-116	15'-3"
7	SF-11	15'-3"



### ROOF SHEETING PLAN

PANELS: 26 Ga. SSX – SMP Royal Blue  
[A] SOFFIT PANELS: 26 Ga. Reverse Rolled SSX – SMP Steel Gray

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☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.

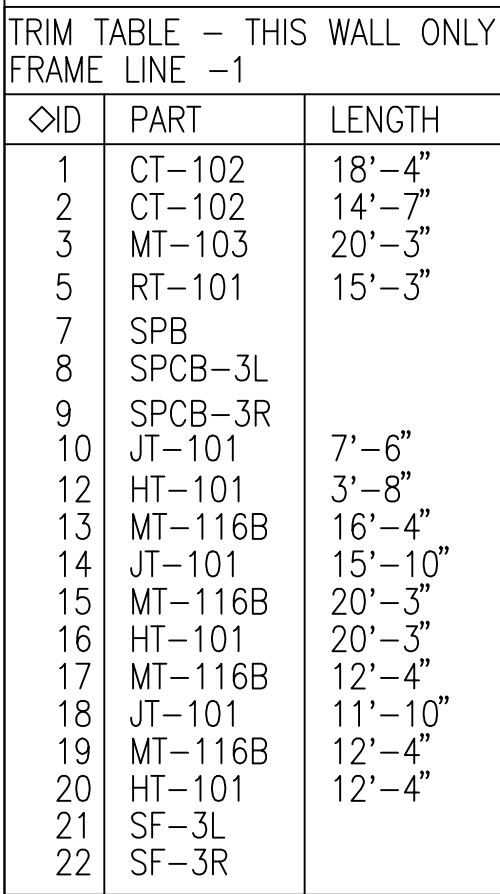


ISSUE	DATE	DESCRIPTION	BY	CHK
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

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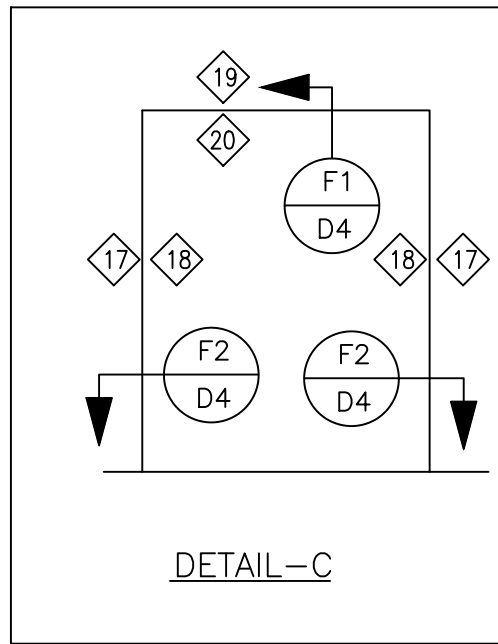
SHEET DESCRIPTION:				BLDG SIZE:			
ROOF SHEETING PLAN				65'-0" x 70'-0" x 18'-0"/14'-3"			
CUSTOMER:				CUSTOMER LOCATION:			
THUNDERSTRUCK / C&B HOLDINGS				HAYDEN, CO 81639			
PROJECT REFERENCE:							
THUNDERSTRUCK / C&B HOLDINGS							
JOBSITE LOCATION:				JOBSITE COUNTY:			
HAYDEN, CO 81639				ROUIT			
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:	
PND	PNC	08.02.23	KMO	11217-32005	E2	0	

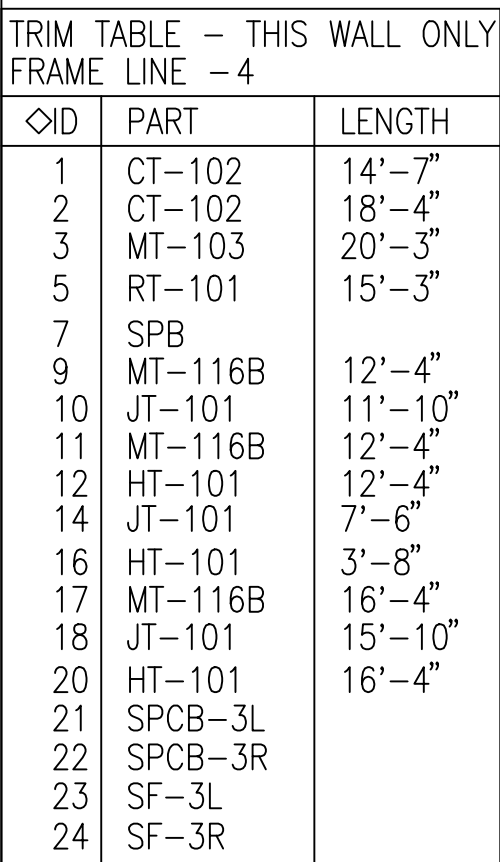




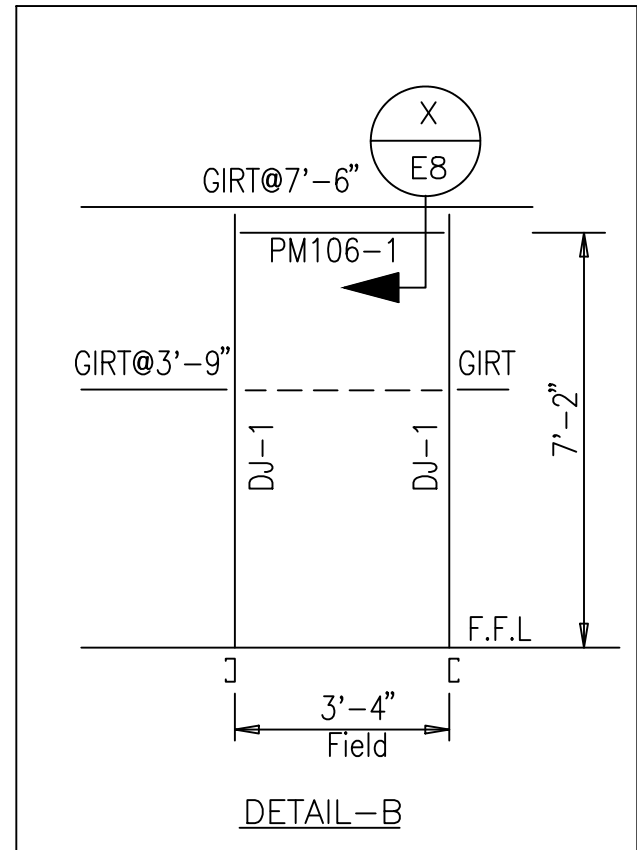
SHEET DESCRIPTION: ENDWALL FRAME & SHEETING ELEVATION				BLDG SIZE: 65'-0" x 70'-0" x 18'-0"/14'-3"			
CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS				CUSTOMER LOCATION: HAYDEN, CO 81639			
PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS							
JOBSITE LOCATION: HAYDEN, CO 81639				JOBSITE COUNTY: ROUIT			
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:	
PMD	PNC	08.02.23	KMO	11217-32005	E3	0	

MEMBER TABLE FRAME LINE 1	
MARK	PART
EBR-2	W10X12
EC-1	8M35C14
EC-2	W8X10
EC-3	W8X10
EC-4	W8X10
EC-5	W8X10
ER-1	W12X14
ER-2	W12X14
DJ-1	8M25C14
DJ-2	8M35C12
DJ-3	8M35C14
JB-2	8M35C14
JB-3	8M35C14
PM106-1	PM106
DH-2	8M25C14
G-1	8X25Z16
G-2	8X25Z16
G-3	8X25Z12
G-4	8X25Z16
G-5	8X25Z12
G-6	8X25C14
G-7	8X25Z16
CB-1	0.50_CBL
CB-2	0.38_CBL
CB-3	0.38_CBL





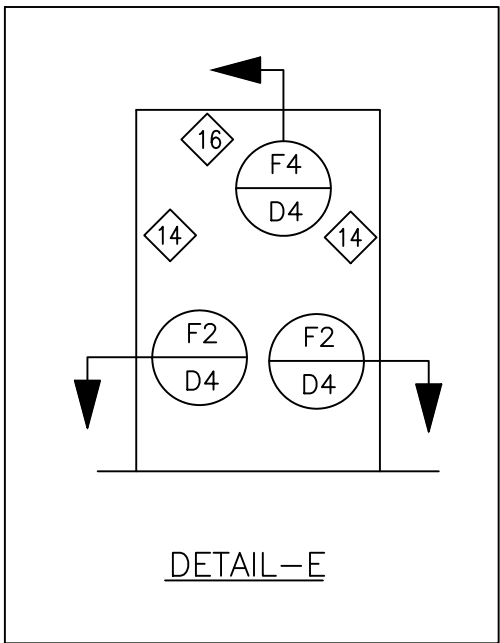
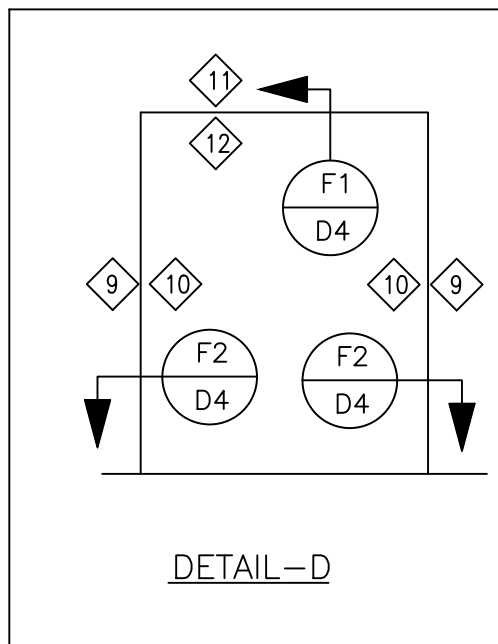
PANELS: 26 Ga. SSX – SMP Steel Gray



FLANGE BRACE TABLE		
FRAME LINE 4		
▽ID	MARK	LENGTH
1	FB1A	2'-6 3/4"

CONNECTION PLATES	
FRAME LINE 4	
□ ID	MARK/PART
1	SC-5
2	Z-1

MEMBER TABLE	
FRAME LINE 4	
MARK	PART
EBR-2	W10X12
EC-2	W8X10
EC-6	W8X10
EC-7	8M35C12
EC-8	W8X10
EC-9	8M35C14
ER-3	W12X14
ER-4	W12X14
DJ-1	8M25C14
DJ-3	8M35C14
DJ-4	8M35C14
PM106-1	PM106
DH-4	8M25C14
JB-2	8M35C14
JB-3	8M35C14
G-1	8X25Z16
G-2	8X25Z16
G-6	8X25C14
G-7	8X25Z16
G-8	8X25Z16
G-9	8X25Z16
G-10	8X25Z12
CB-4	0.50_CBL
CB-5	0.50_CBL



## GENERAL SHEETING & TRIM NOTES

1. Refer to erection drawings for rake angle locations.
2. Roof member screws are at 12" o.c. Eave end lap and peak screws are as shown.
3. Wall member screws are at 6" o.c. at the base member and 12" o.c. at all remaining members.
4. Roof stitch screws are located at each member with two between members (20" max. spacing).
5. Wall stitch screws are located at each member with one between members (20" max. spacing).
6. Skylight stitch screws are at 6" o.c.
7. Start endwall panels at centerline of bldg. unless noted.
8. Gutter, rake, & eave trim lap 2". All other trims lap 1".
9. Field cut or lap panels as required to fit.
10. Field cut panels at all openings.
11. Pop rivet gutter counterflashing to wall panel on 3'-0" centers and caulk all laps.
12. Gutter support post spacing: Super Seam 4'-0", Super Seam 4'-0", Weather Lok-16 2'-8".
13. Corner and/or peak screws not furnished with special rake or girth profiles. Field miters as req'd.
14. Downspout straps are located 6" from base and at every girth location.
15. Hot-rolled or built-up members must be pre-drilled before attaching members screws.
16. Metal shavings must be swept from the roof each day to avoid surface rusting.
17. Windows and louvers must be installed before sheeting the walls.
18. For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

## GENERAL FRAMING NOTES

1. Angles are marked by their length in feet and inches.
2. Field cut or lap angles as required to fit.
3. Flange braces are marked by their length in decimal inches.
4. Outside flange of girt turns down unless noted.
5. Endwall girts and eave struts do not lap.
6. Field cut and self-top girts at walk doors.
7. Field slot girts for brace rods or cables.
8. Field locate windows and walk doors.
9. Field weld all splices at 14 gauge valley gutters.
10. Field bolt AK400 base clip to endwall columns:
  - (1)  $5/8"$  x  $1-1/2"$  A325 bolts if (1) AK400 req'd
  - (2)  $5/8"$  x  $1-3/4"$  A325 bolts if (2) AK400 req'd
11. Locate top roof framed openings flush with the pan of the roof panel.
12. Some field drilling at framed openings may be required. Field drill  $9/16"$  diameter holes.
13. For clarity, tie sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.
14. Sub-jombs for overhead doors, if required, is not furnished by Metal Building Provider

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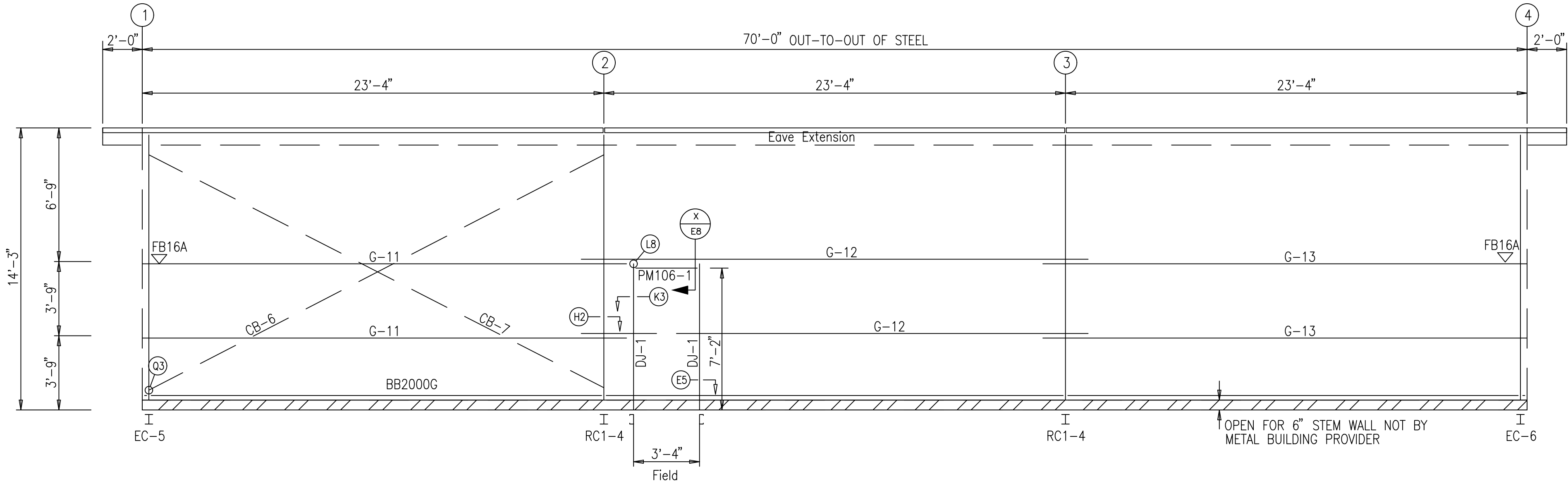
☒ **FOR ERECTOR INSTALLATION:**  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC	ENDWALL FRAME & SHEETING ELEVATION	65'-0" x 70'-0" x 18'-0"/14'-3"
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC	CUSTOMER: THUNDERSTRUCK / CAB HOLDINGS	CUSTOMER LOCATION: HAYDEN, CO 81639
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC	PROJECT REFERENCE: THUNDERSTRUCK / CAB HOLDINGS	
					JOBSITE LOCATION:	JOBSITE COUNTY:
					HAYDEN, CO 81639	ROUTI
					DWN:	ISSUE:
					PND	0
					CHK:	
					DATE:	
					ENG:	
					JOB NO:	
					11217-32005	
					DWG NO:	
					E4	

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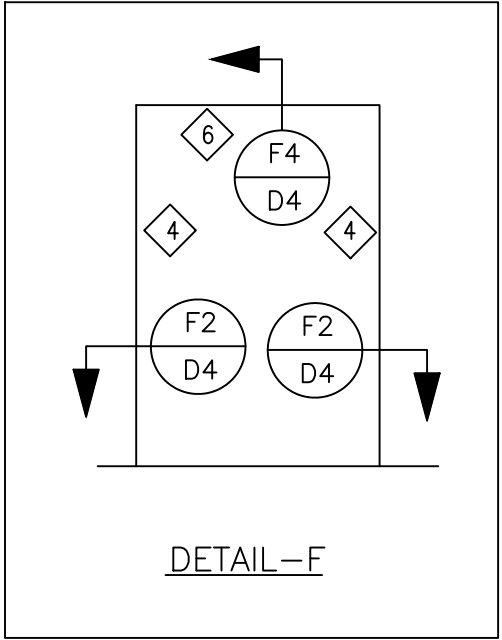
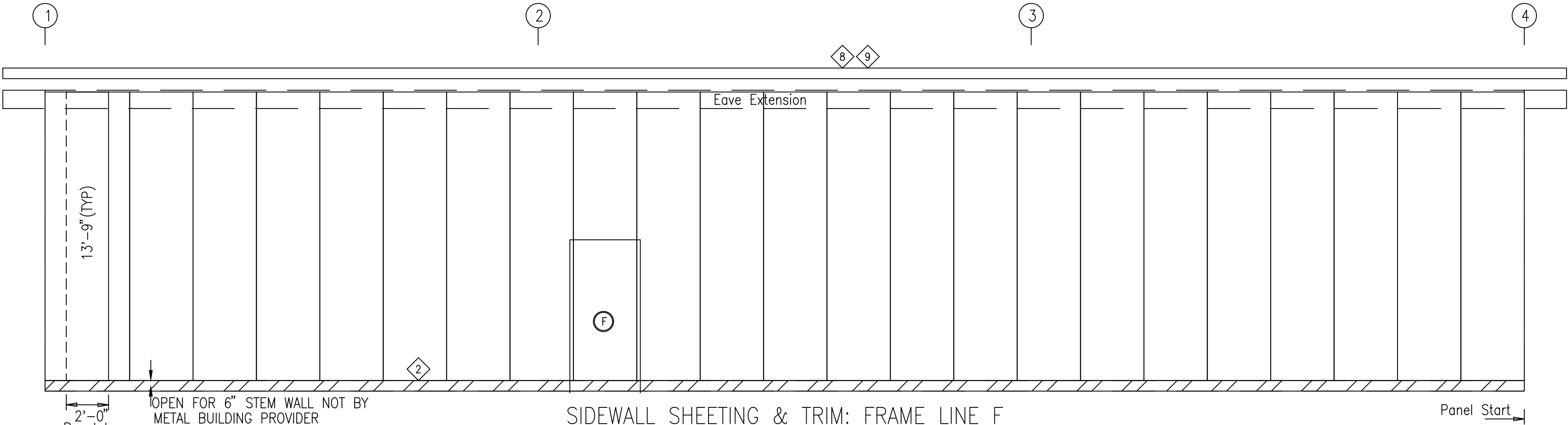
TRIM TABLE - THIS WALL ONLY		
FRAME LINE - F		
◇ID	PART	LENGTH
2	MT-103	20'-3"
4	JT-101	7'-6"
6	HT-101	3'-8"
8	ET-103	20'-3"
9	ET-103	15'-3"

MEMBER TABLE	
FRAME LINE F	
MARK	PART
DJ-1	8M25C14
PM106-1	PM106
G-11	8X25Z16
G-12	8X25Z16
G-13	8X25Z16
CB-6	1.00_ROD
CB-7	1.00_ROD

FLANGE BRACE TABLE		
FRAME LINE F		
▽ID	MARK	LENGTH
1	FB16A	2'-5"

GIRT  
LAPS

SIDEWALL FRAMING: FRAME LINE F



GENERAL SHEETING & TRIM NOTES

1. Refer to erection drawings for rake angle locations.
2. Roof member screws are at 12" o.c. Eave end lap and peak screws are as shown.
3. Wall member screws are at 6" o.c. at the base member and 12" o.c. at all remaining members.
4. Roof stitch screws are located at each member with two between members (20" max. spacing).
5. Wall stitch screws are located at each member with one between members (20" max. spacing).
6. Skylight stitch screws are at 6" o.c.
7. Start endwall panels at centerline of bldg. unless noted.
8. Gutter, rake, & eave trim lap 2". All other trims lap 1".
9. Field cut or lap panels as required to fit.
10. Field cut panels for all openings.
11. Pop rivet gutter counterflashing to wall panel on 3'-0 centers and caulk all laps.
12. Gutter support strap spacing: Super Span 3'-0, Super Seam 4'-0, Weather Lok-16 2'-8".
13. Corner and/or peak boxes are not furnished with special rake or gutter profiles. Field miter as req'd.
14. Downspout straps are located 6" from base and at every girt location.
15. Hot-rolled or built-up members must be pre-drilled before attaching members screws.
16. Metal shavings must be swept from the roof each day to avoid surface rusting.
17. Windows and louvers must be installed before sheeting the walls.
18. For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.

GENERAL FRAMING NOTES

1. Angles are marked by their length in feet and inches.
2. Field cut or lap angles as required to fit.
3. Flange braces are marked by their length in decimal inches.
4. Outside flange of girt turns down unless noted.
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6. Field cut and self-top girts at walk doors.
7. Field slot girts for brace rods or cables.
8. Field locate windows and walk doors.
9. Field weld all splices at 14 gauge valley gutters.
10. Field bolt AK400 base clip to endwall columns:  
(2) 5/8" x 1-1/2" A325 bolts if (1) AK400 req'd  
(2) 5/8" x 1-3/4" A325 bolts if (2) AK400 req'd
11. Locate top of roof framed openings flush with the pan of the roof panel.
12. Some field drilling at framed openings may be required. Field drill 9/16" diameter holes.
13. For clarity, tape sealant, closures, etc. may not be shown. Refer to the standing seam erection manual or standard pull out for screw-down type roof for additional installation instructions.
14. Sub-jams for overhead doors, if required, is not furnished by Metal Building Provider

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☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC	SIDEWALL FRAME & SHEETING ELEVATION	65'-0" x 70'-0" x 18'-0"/14'-3"
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC	CUSTOMER:	CUSTOMER LOCATION:
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC	THUNDERSTRUCK / C&B HOLDINGS	HAYDEN, CO 81639
PROJECT REFERENCE:						THUNDERSTRUCK / C&B HOLDINGS
JOBSITE LOCATION:						HAYDEN, CO 81639
JOBSITE COUNTY:						ROUTT
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	08.02.23	KMO	11217-32005	E5	0

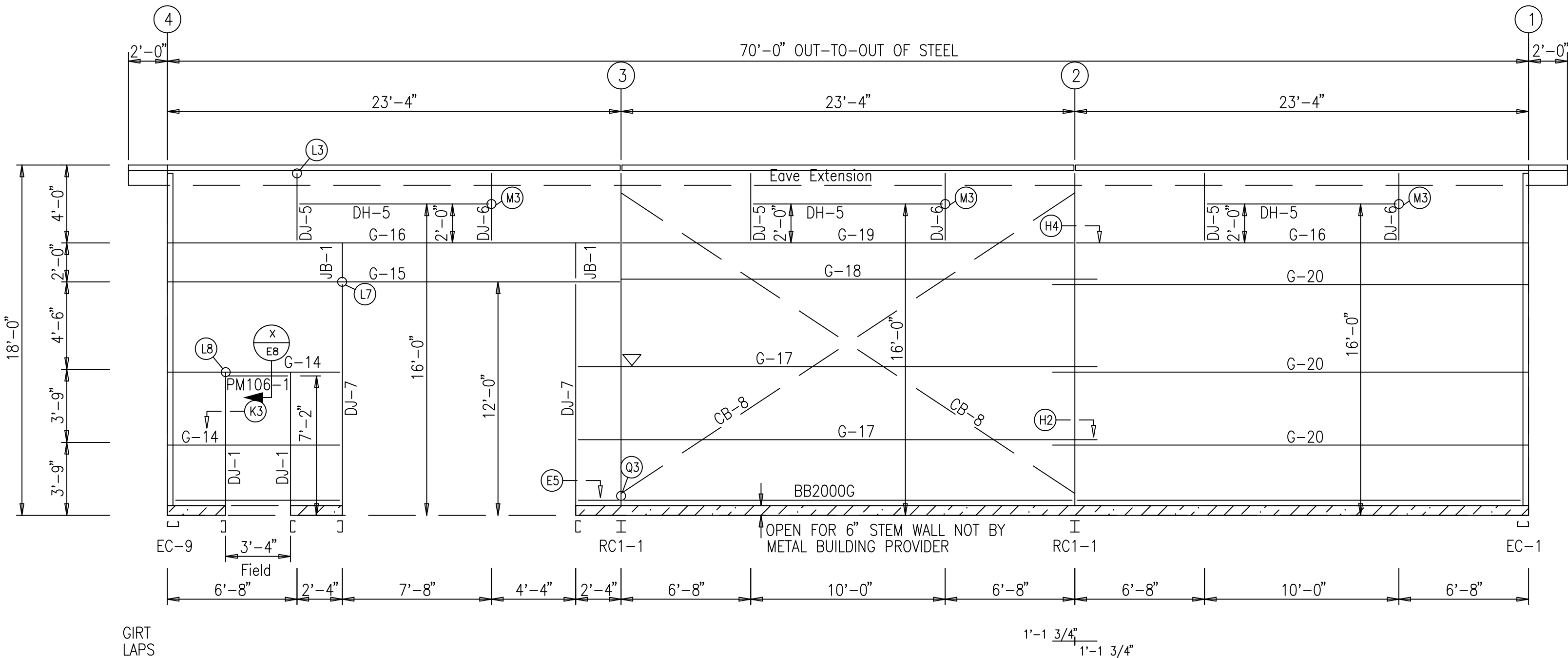
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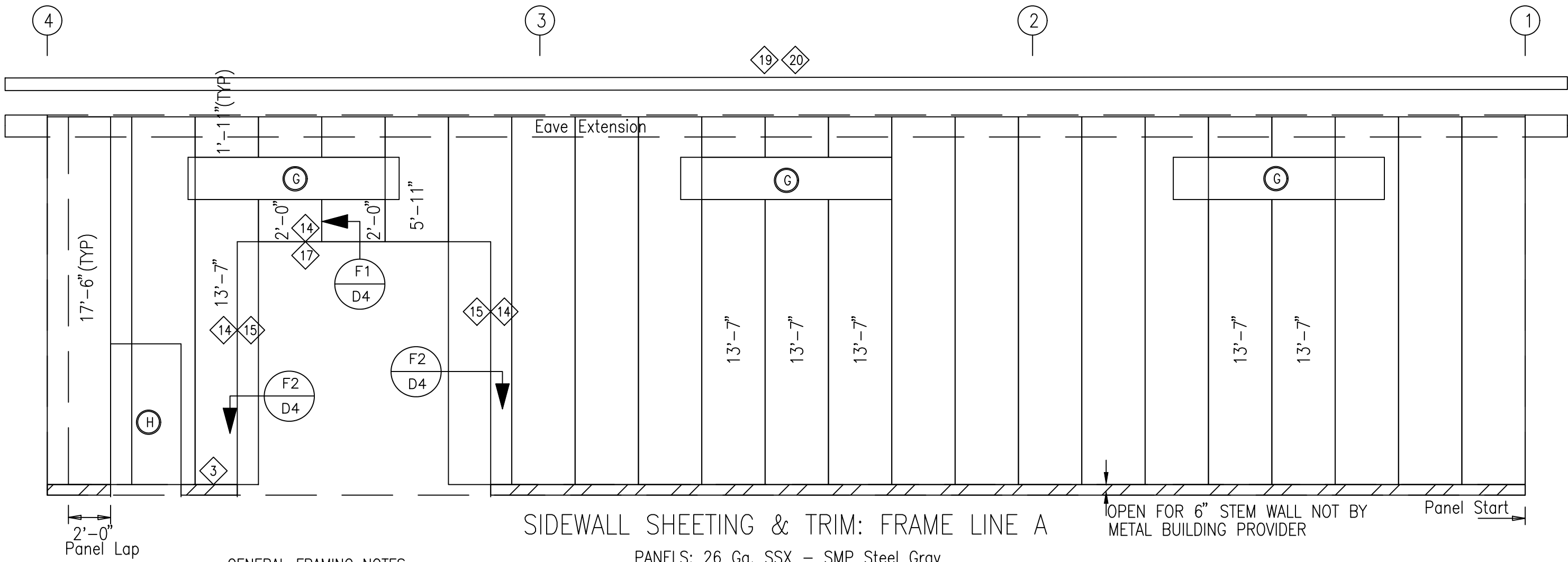
TRIM TABLE - THIS WALL ONLY		
FRAME LINE -A		
◊ID	PART	LENGTH
3	MT-103	20'-3"
5	JT-101	7'-6"
7	HT-101	3'-8"
9	JT-101	2'-4"
11	HT-101	10'-4"
13	MT-114	10'-4"
14	MT-116B	12'-4"
15	JT-101	11'-10"
17	HT-101	12'-4"
19	ET-103	20'-3"
20	ET-103	15'-3"

MEMBER TABLE  
FRAME LINE A

MARK	PART
DJ-1	8M25C14
DJ-5	8M25C14
DJ-6	8M25C14
DJ-7	8M35C14
JB-1	8M35C14
PM106-1	PM106
DH-5	8M25C14
G-14	8X25Z16
G-15	8X25C12
G-16	8X25C14
G-17	8X25Z16
G-18	8X25Z16
G-19	8X25C14
G-20	8X25Z16
CB-8	1.00_ROD



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A  
PANELS: 26 Ga. SSX - SMP Steel Gray

GENERAL SHEETING & TRIM NOTES

- Refer to erection drawings for rake angle locations.
- Roof member screws are at 12" o.c. Eave end lap and peak screws are as shown.
- Wall member screws are at 6" o.c. at the base member and 12" o.c. at all remaining members.
- Roof stitch screws are located at each member with two between members (20" max. spacing).
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- Skylight stitch screws are at 6" o.c.
- Start endwall panels at centerline of bldg. unless noted.
- Gutter, rake, & eave trim lap 2". All other trims lap 1".
- Field cut or lap panels as required to fit.
- Field cut panels for all openings.
- Pop rivet gutter counterflashing to wall panel on 3'-0 centers and caulk all laps.
- Gutter support strap spacing: Super Span 3'-0, Super Seam 4'-0, Weather Lok-16 2'-8".
- Corner and/or peak boxes are not furnished with special rake or gutter profiles. Field miter as req'd.
- Downspout straps are located 6" from base and at every girt location.
- Hot-rolled or built-up members must be pre-drilled before attaching members screws.
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GENERAL FRAMING NOTES

- Angles are marked by their length in feet and inches.
- Field cut or lap angles as required to fit.
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- Outside flange of girt turns down unless noted.
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(2) 5/8" x 1-1/2" A325 bolts if (1) AK400 req'd  
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☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

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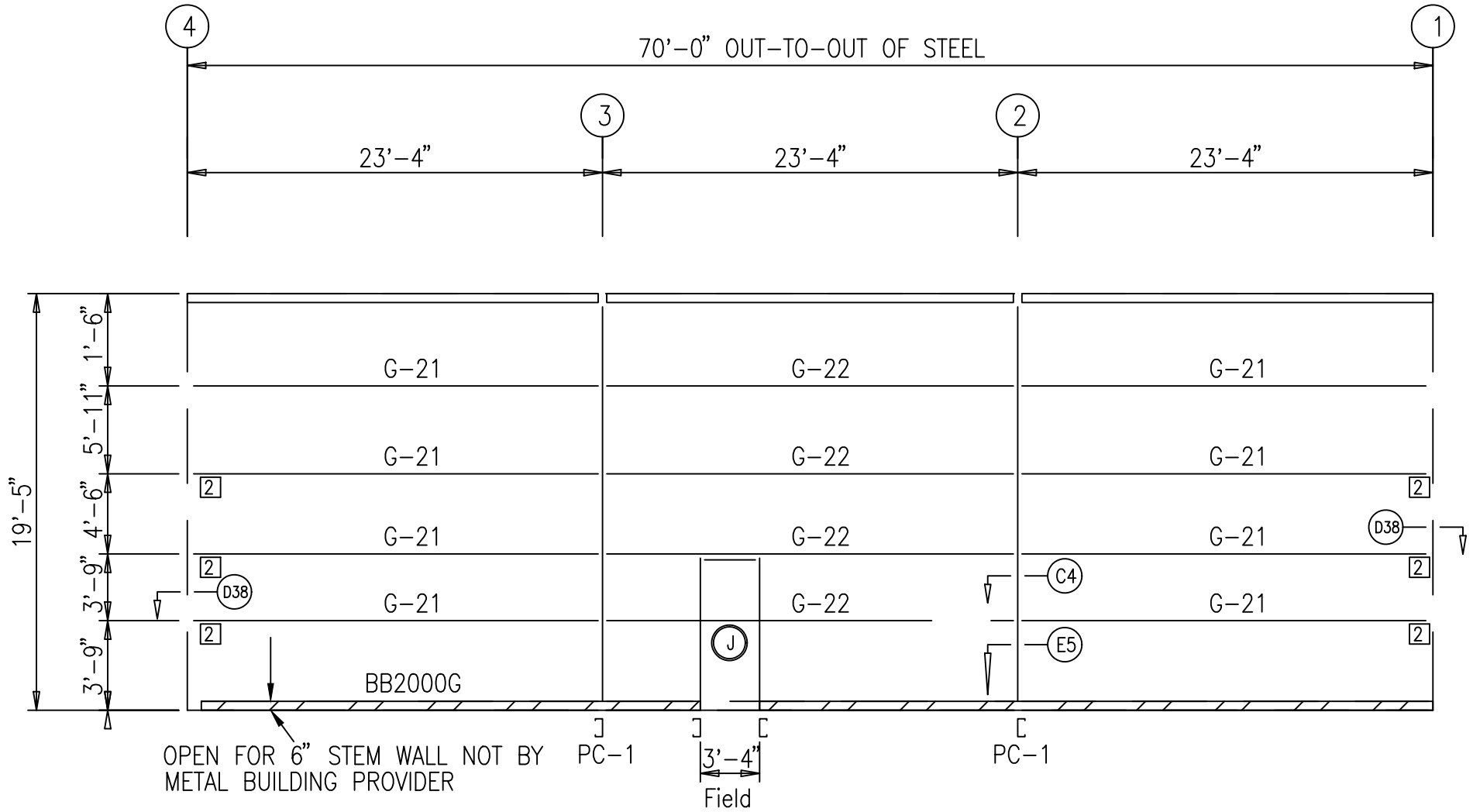
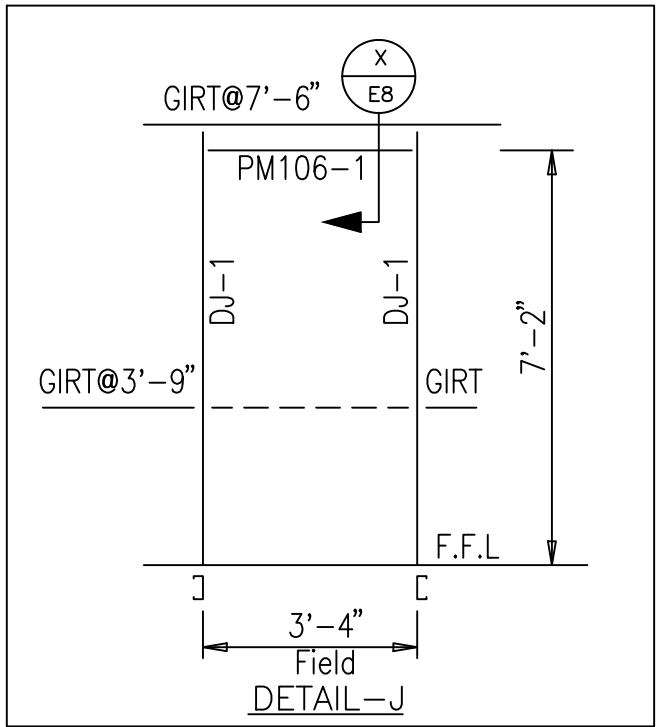
SHEET DESCRIPTION: SIDEWALL FRAME & SHEETING ELEVATION		BLDG SIZE: 65'-0" x 70'-0" x 18'-0"/14'-3"	
CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS		CUSTOMER LOCATION: HAYDEN, CO 81639	
PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS		JOB SITE COUNTY: ROUTT	
JOB SITE LOCATION: HAYDEN, CO 81639		JOB SITE COUNTY: ROUTT	
DWN: PND	CHK: PNC	DATE: 08.02.23	ENG: KMO
JOB NO: 11217-32005	DWG NO: E6	ISSUE: 0	

BOLT TABLE PARTITION 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
PC-1/RAFTER	2	A325	5/8"	1 1/2"

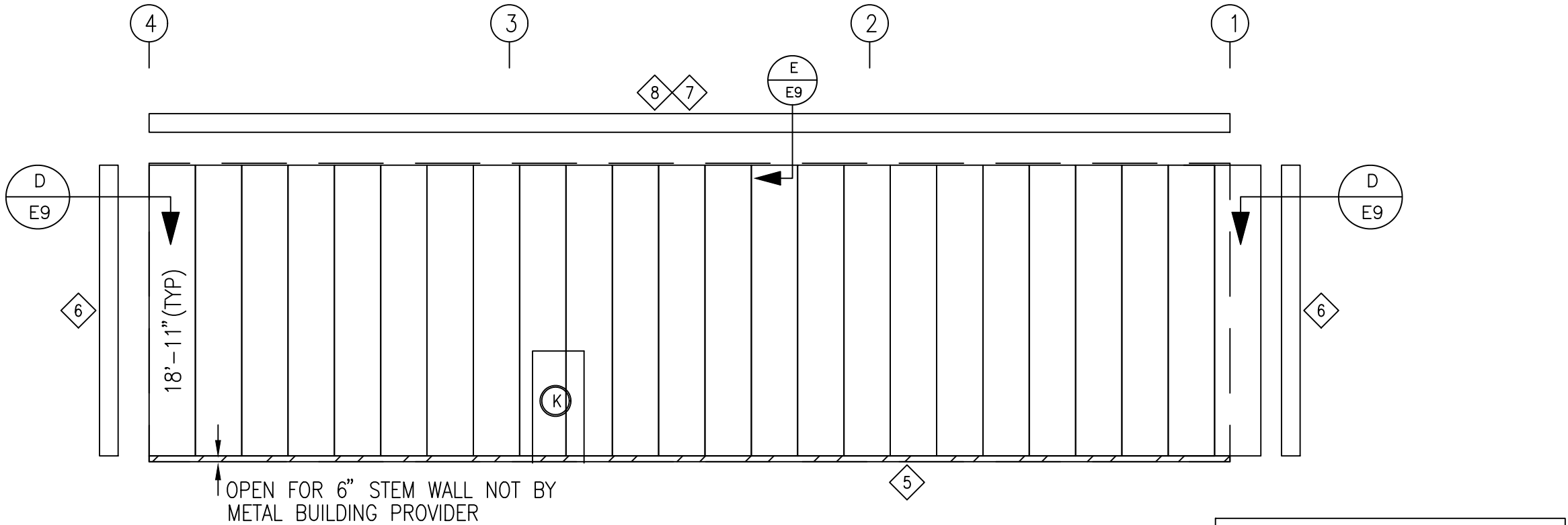
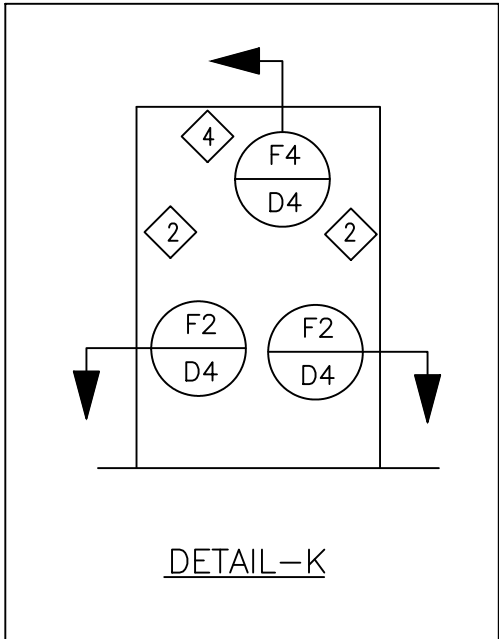
MEMBER TABLE PARTITION 1	
MARK	PART
PC-1	8M35C12
DJ-1	8M25C14
PM106-1	PM106
G-21	8X25Z16
G-22	8X25Z16

TRIM TABLE - THIS WALL ONLY PARTITION 1		
◇ID	PART	LENGTH
2	JT-101	7'-6"
4	HT-101	3'-8"
5	MT-103	20'-3"
6	SF-10	20'-3"
7	MT-106C	15'-3"
8	MT-106C	20'-3"

CONNECTION PLATES PARTITION 1	
□ID	MARK/PART
2	AK244



PARTITION 1 FRAMING



PARTITION 1 FRONT SHEETING & TRIMS  
PANELS: 26 Ga. SSX - SMP Steel Gray

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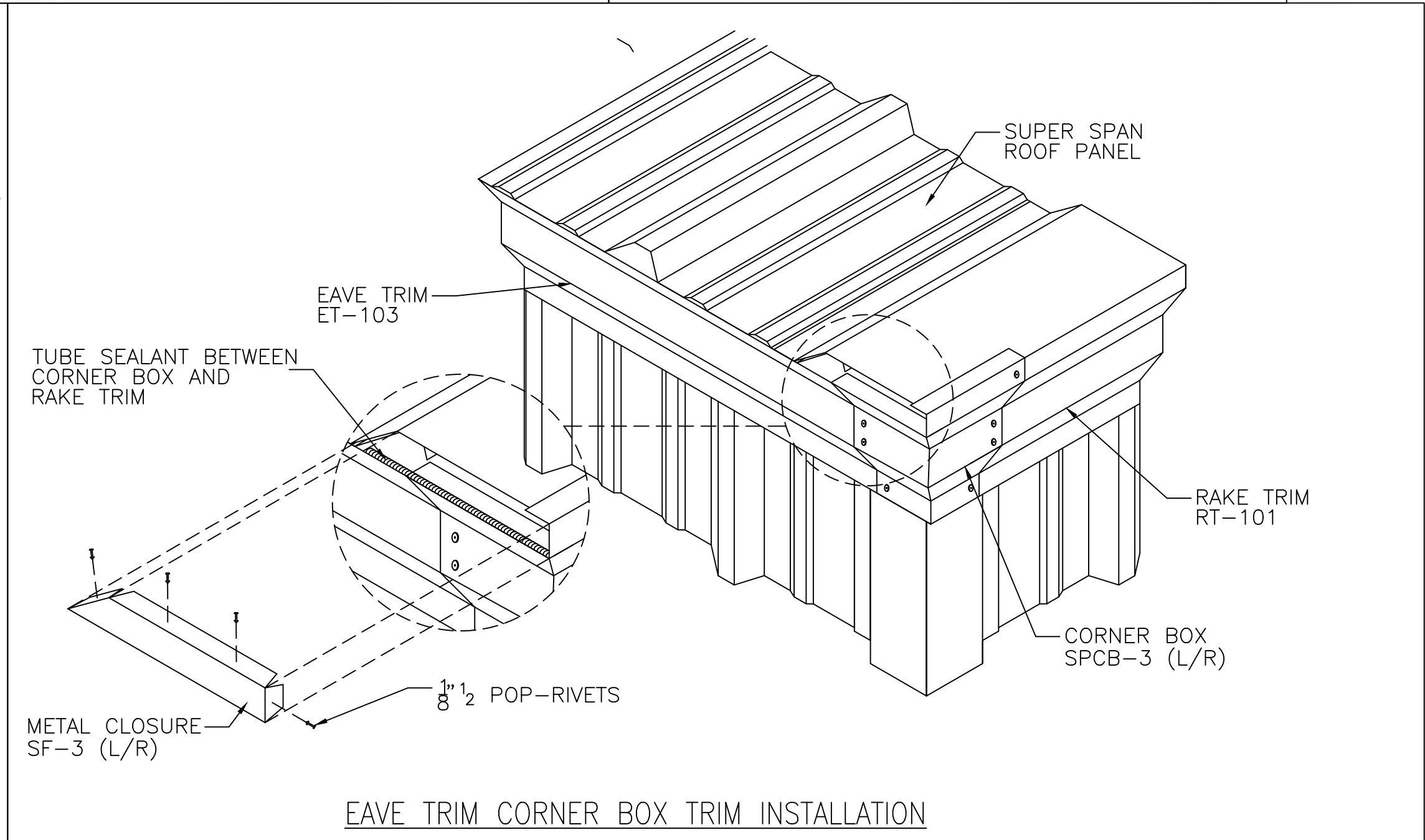
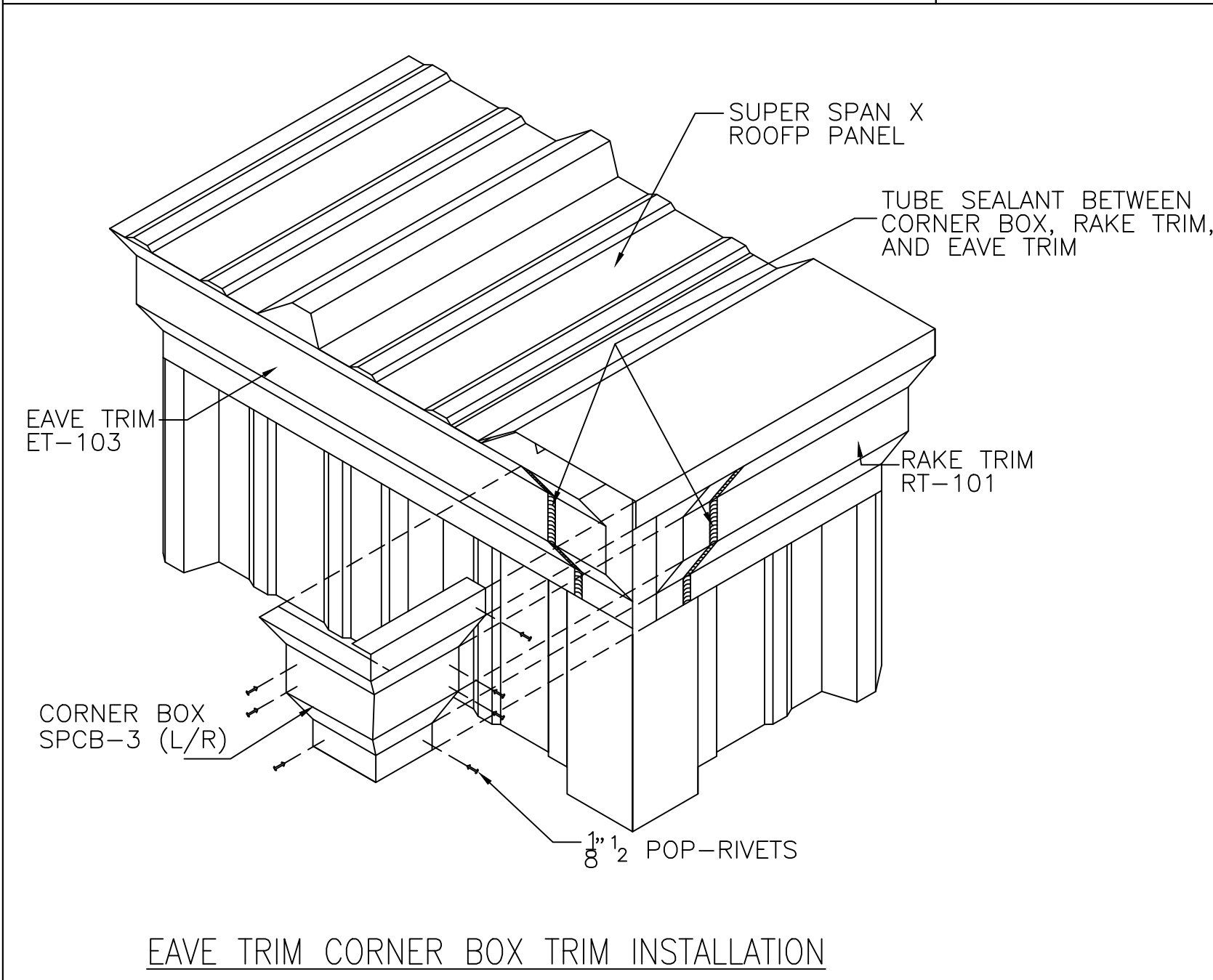
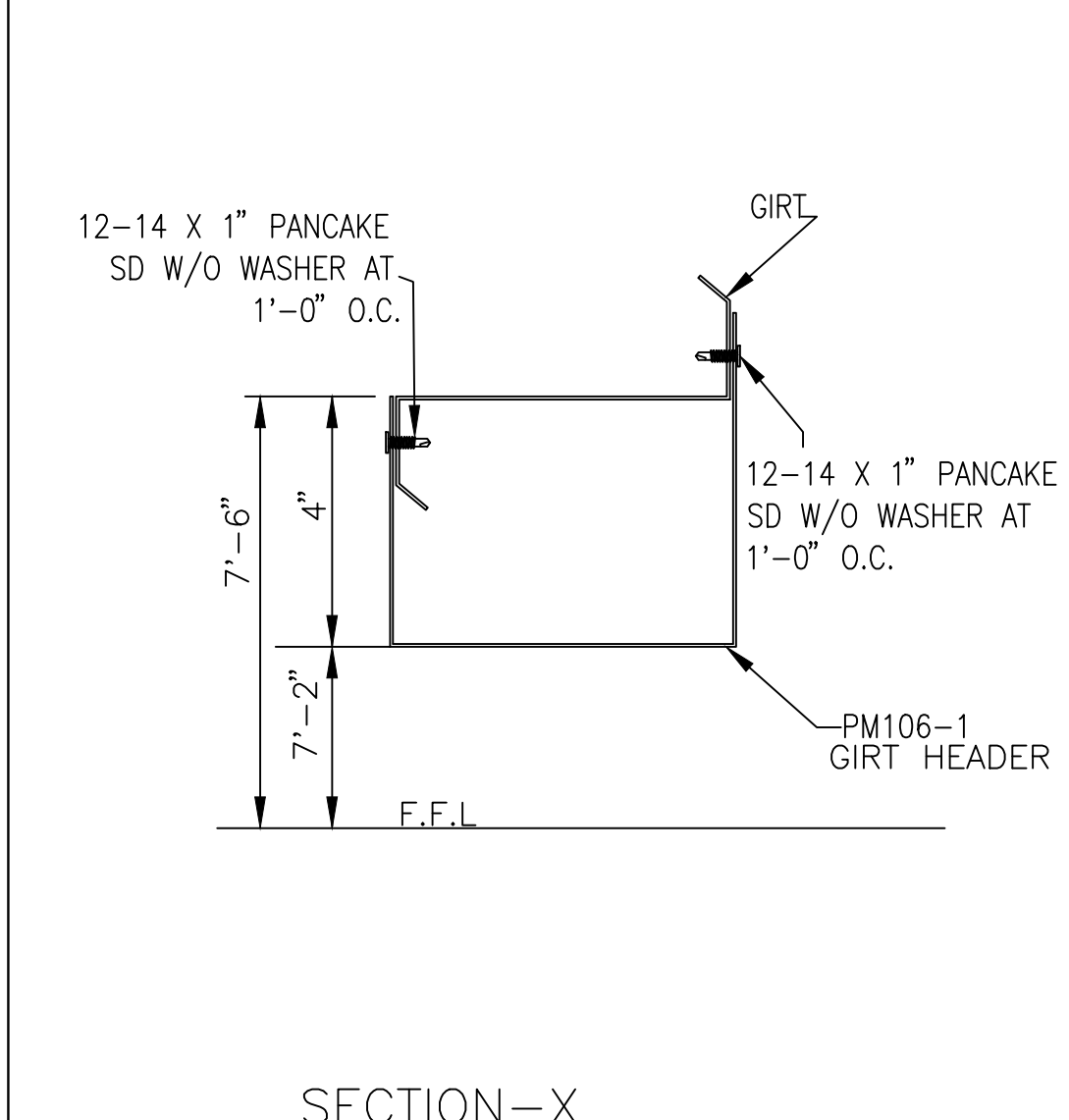
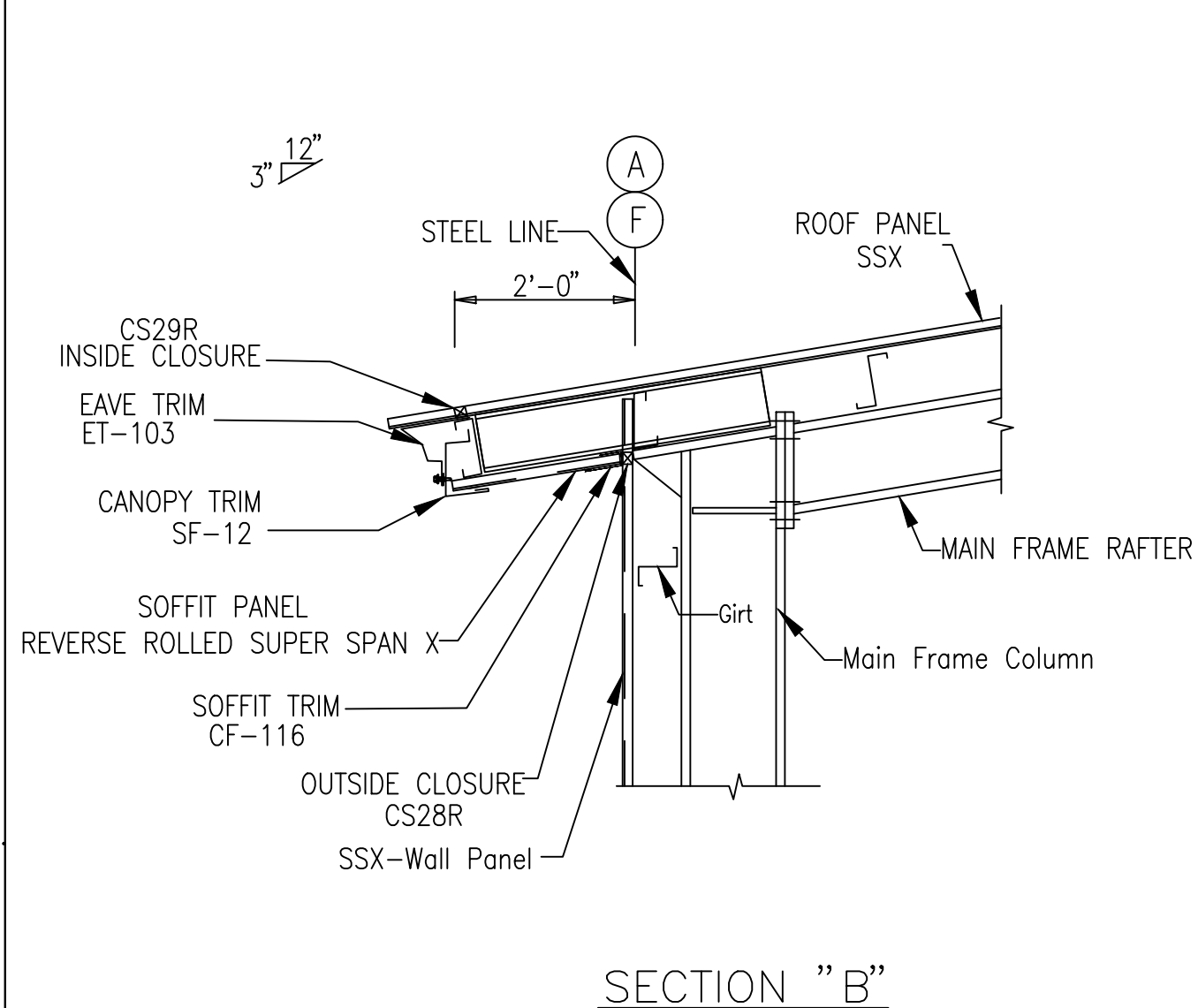
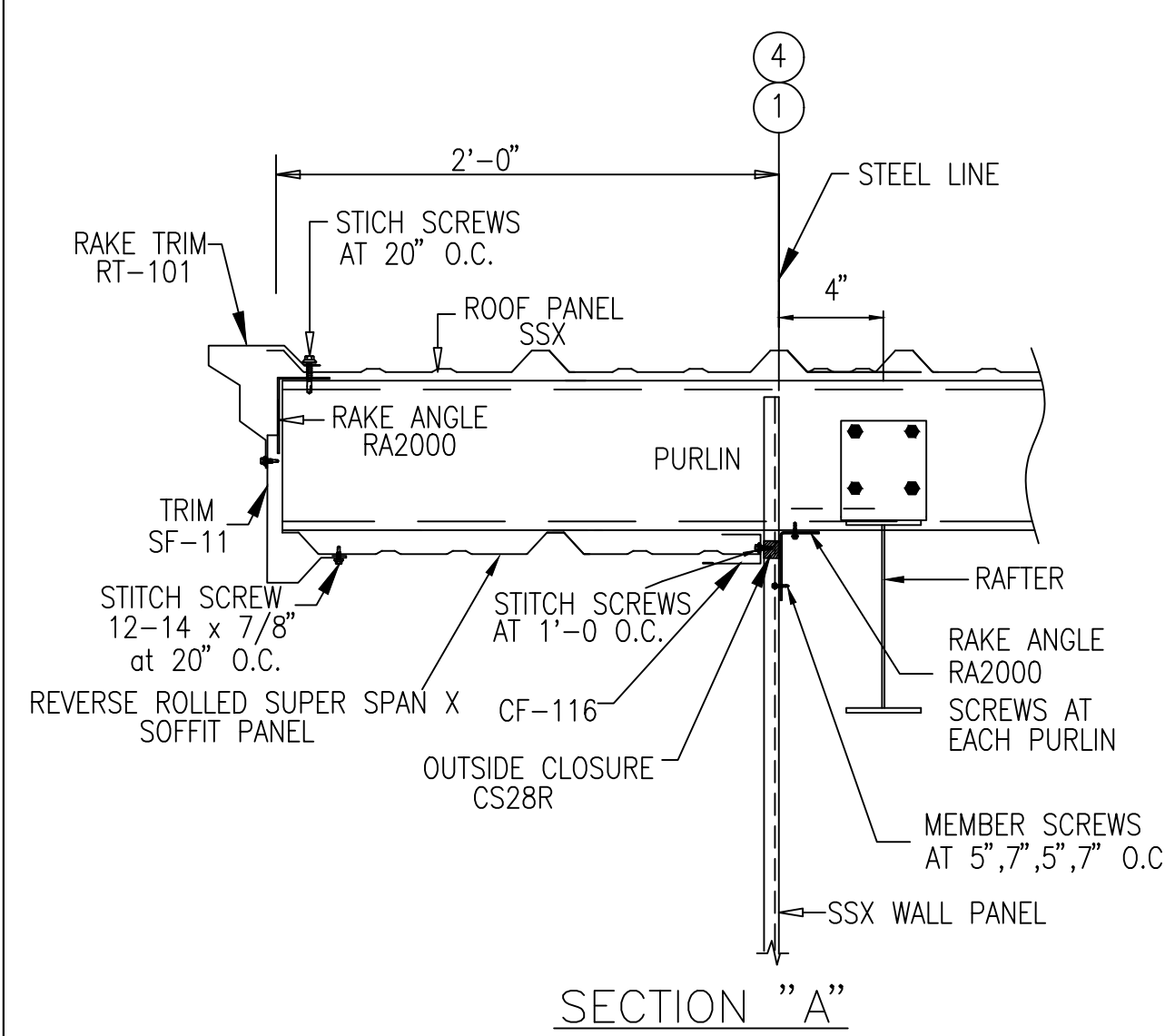
☒ FOR ERECTOR INSTALLATION:  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC
P2	07.20.23	REV FOR CONSTRUCTION PERMIT	PND	PNC
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

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SHEET DESCRIPTION: PARTITION FRAME & SHEETING ELEVATION			BLDG SIZE: 65'-0" x 70'-0" x 18'-0"/14'-3"			
CUSTOMER: THUNDERSTRUCK / C&B HOLDINGS			CUSTOMER LOCATION: HAYDEN, CO 81639			
PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS						
JOBSITE LOCATION: HAYDEN, CO 81639			JOBSITE COUNTY: ROUTT			
DWN: PND	CHK: PNC	DATE: 08.02.23	ENG: KMO	JOB NO: 11217-32005	DWG NO: E7	ISSUE: 0



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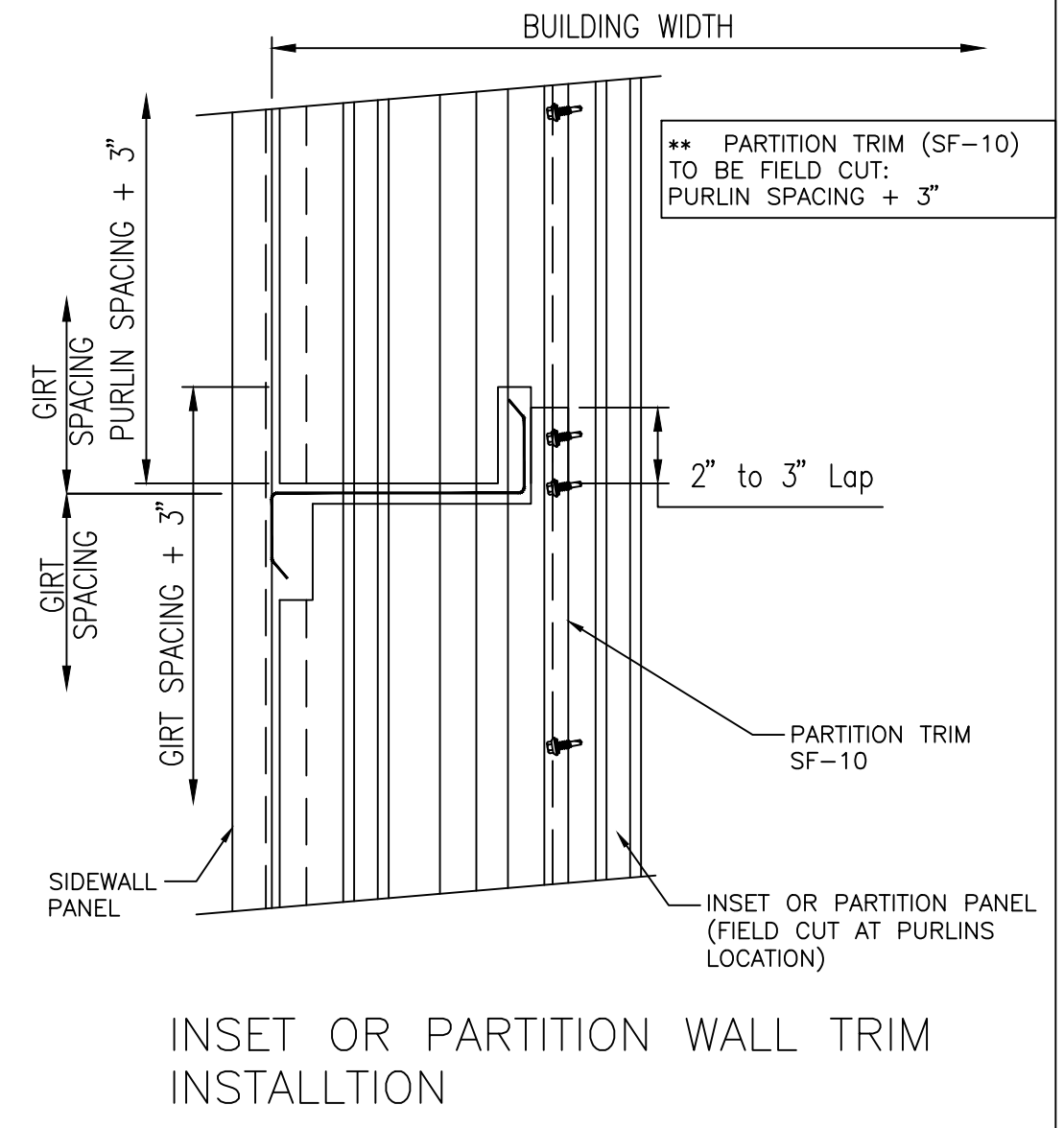
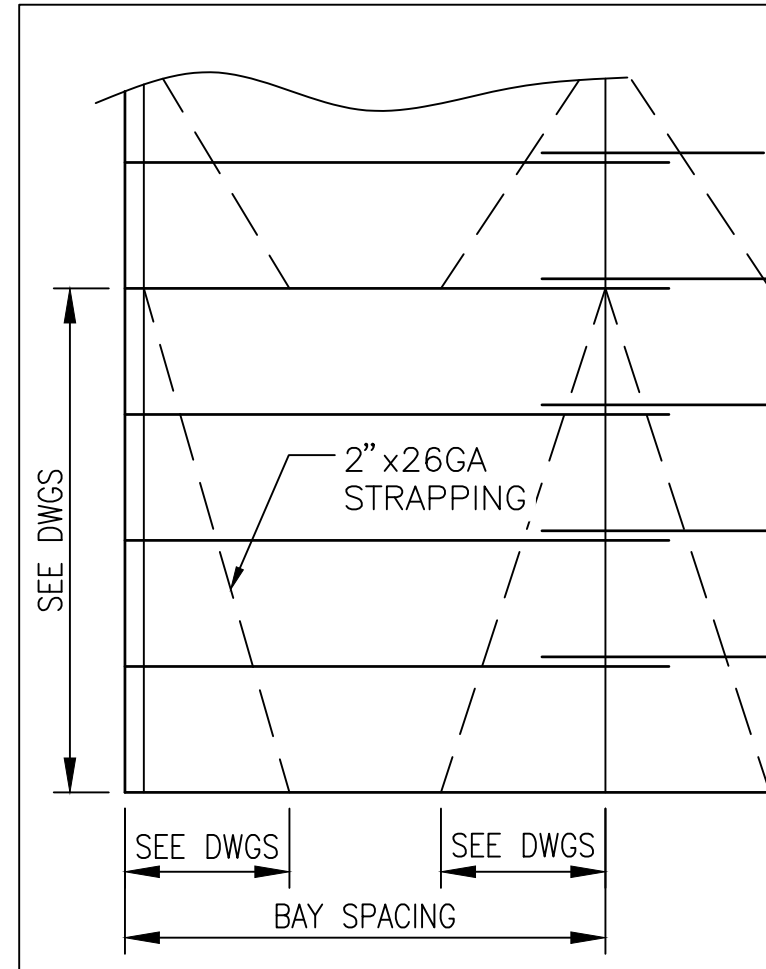
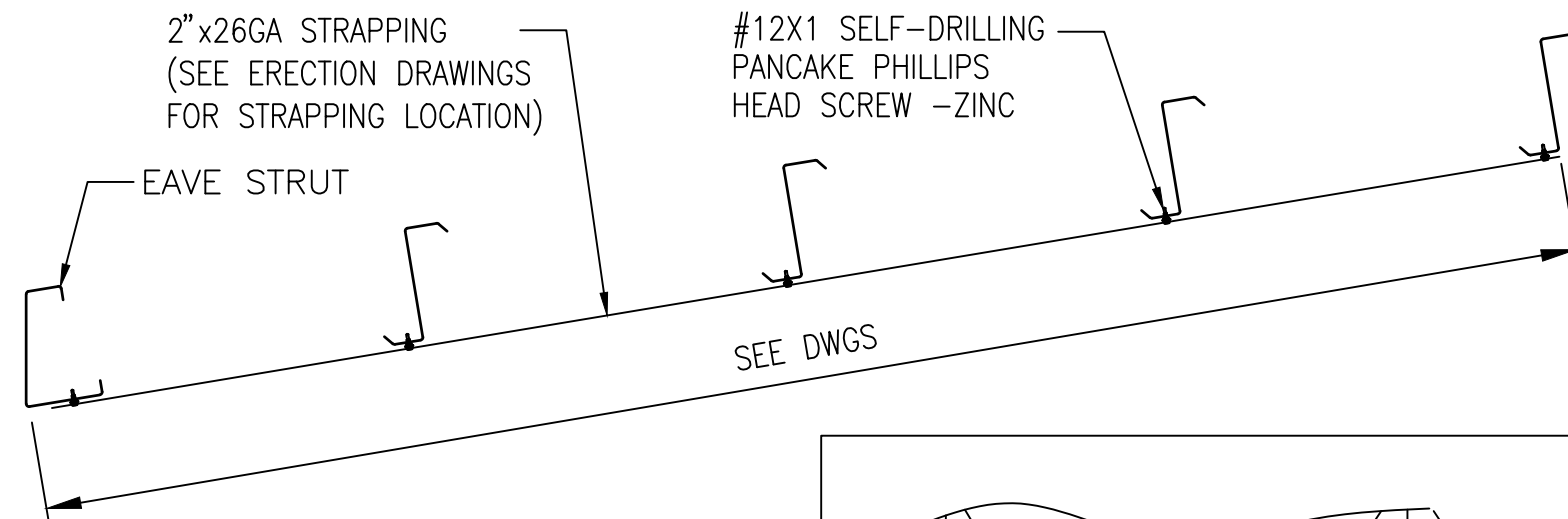
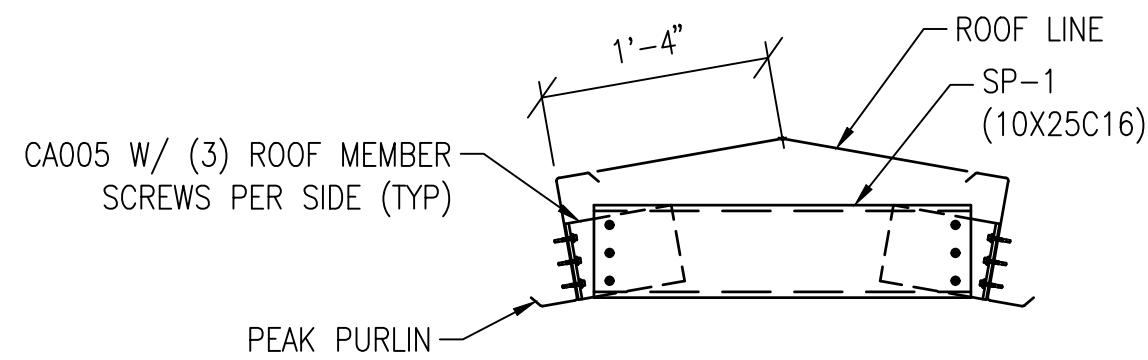
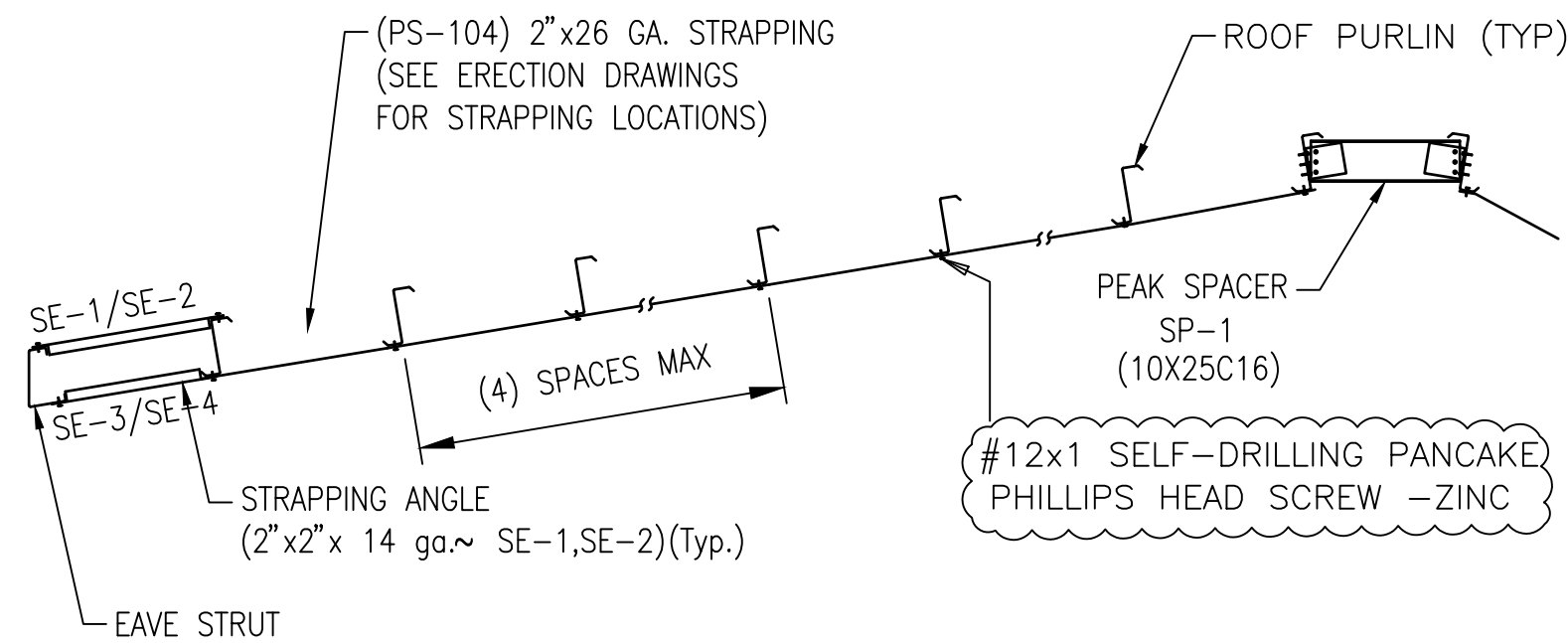
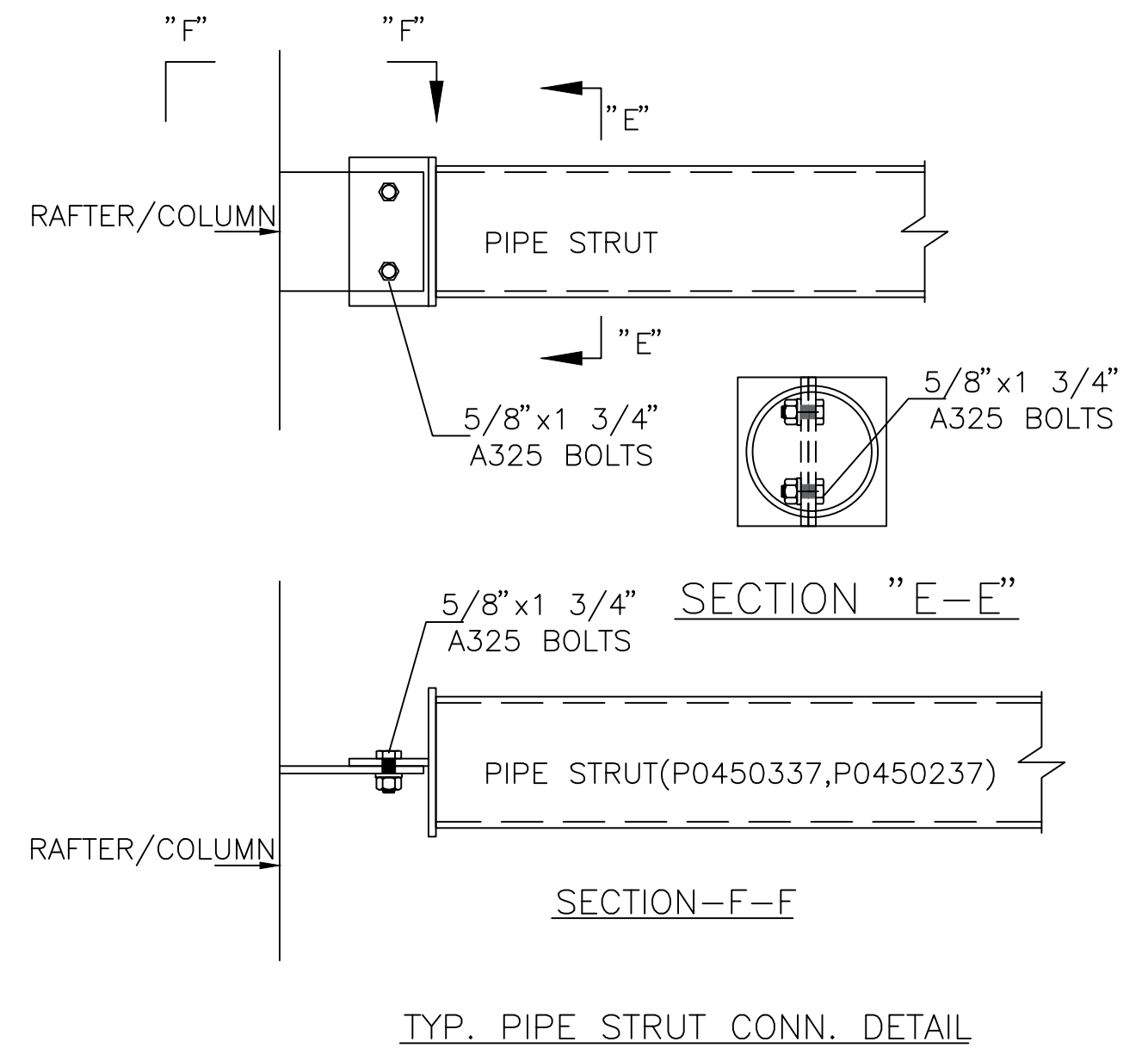
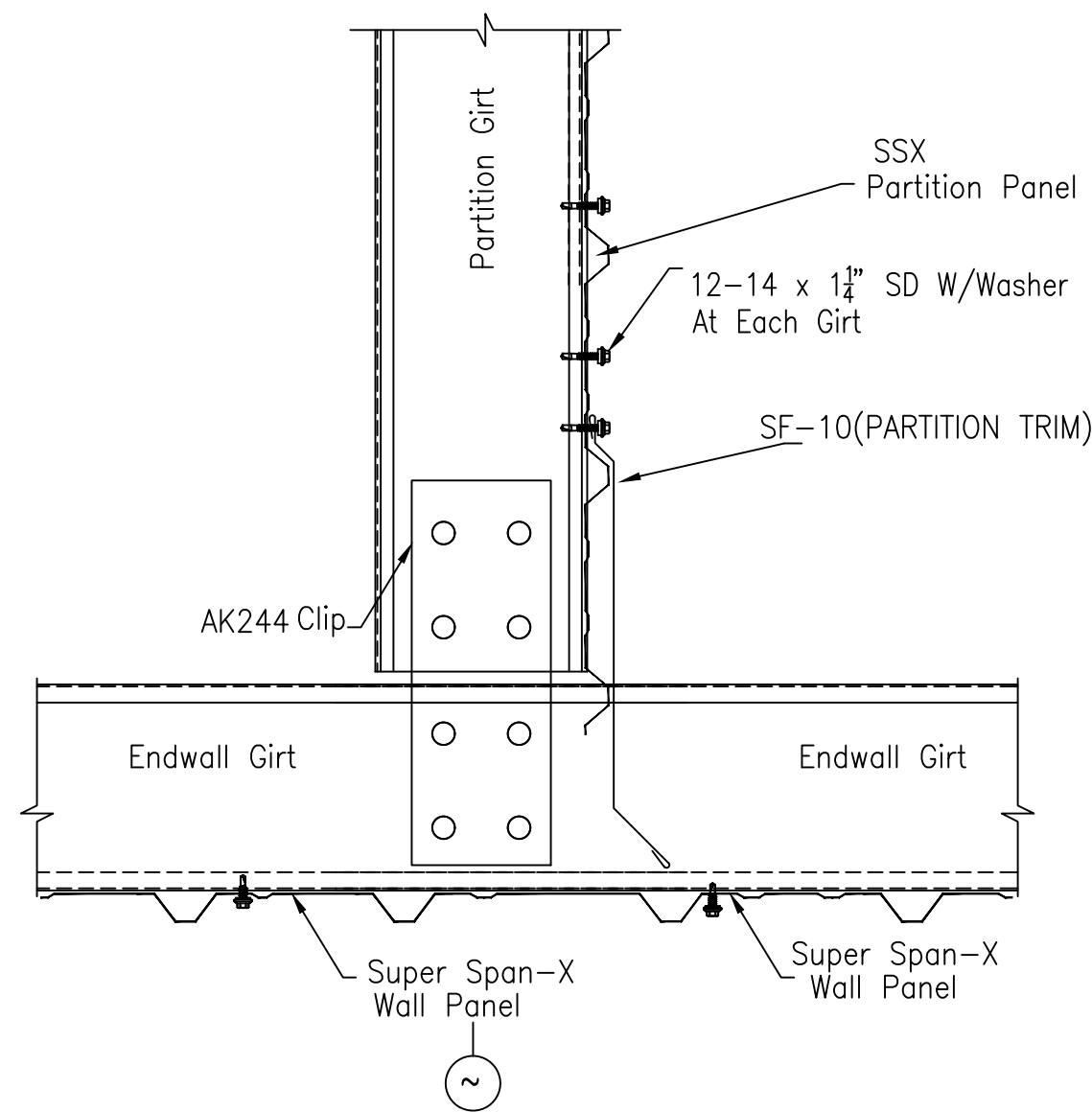
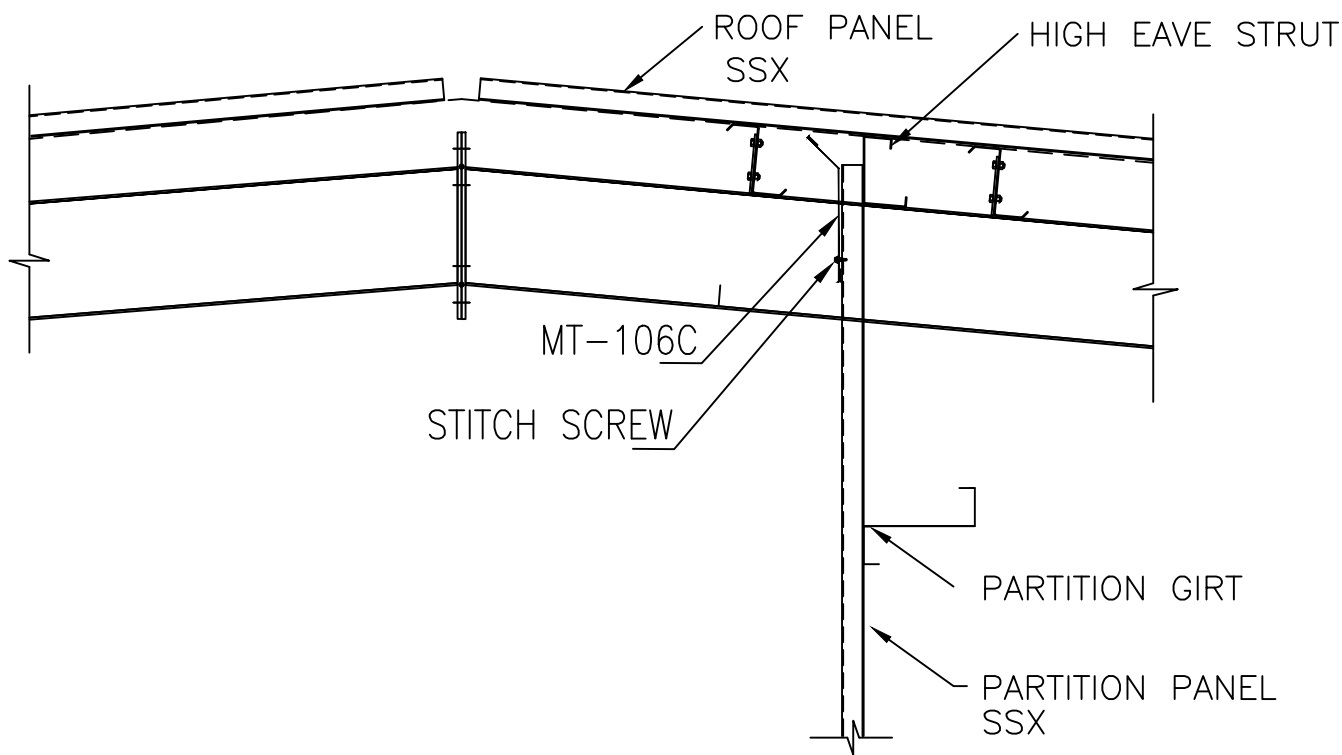
☒ **FOR ERECTOR INSTALLATION:**  
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BUILDING SECTIONS	BUILDING SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC	CUSTOMER:	THUNDERSTRUCK / C&B HOLDINGS	65'-0" x 70'-0" x 18'-0"/14'-3"
P2	07.20.23	REV.FOR CONSTRUCTION PERMIT	PND	PNC	PROJECT REFERENCE:	THUNDERSTRUCK / C&B HOLDINGS	CUSTOMER LOCATION:
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC	JOB SITE LOCATION:	HAYDEN, CO 81639	HAYDEN, CO 81639
					DWN:	CHK:	DATE:
					PND	PNC	08.02.23
							ENG:
							KMO
							JOB NO:
							11217-32005
							DWG NO:
							EB
							ISSUE:
							0

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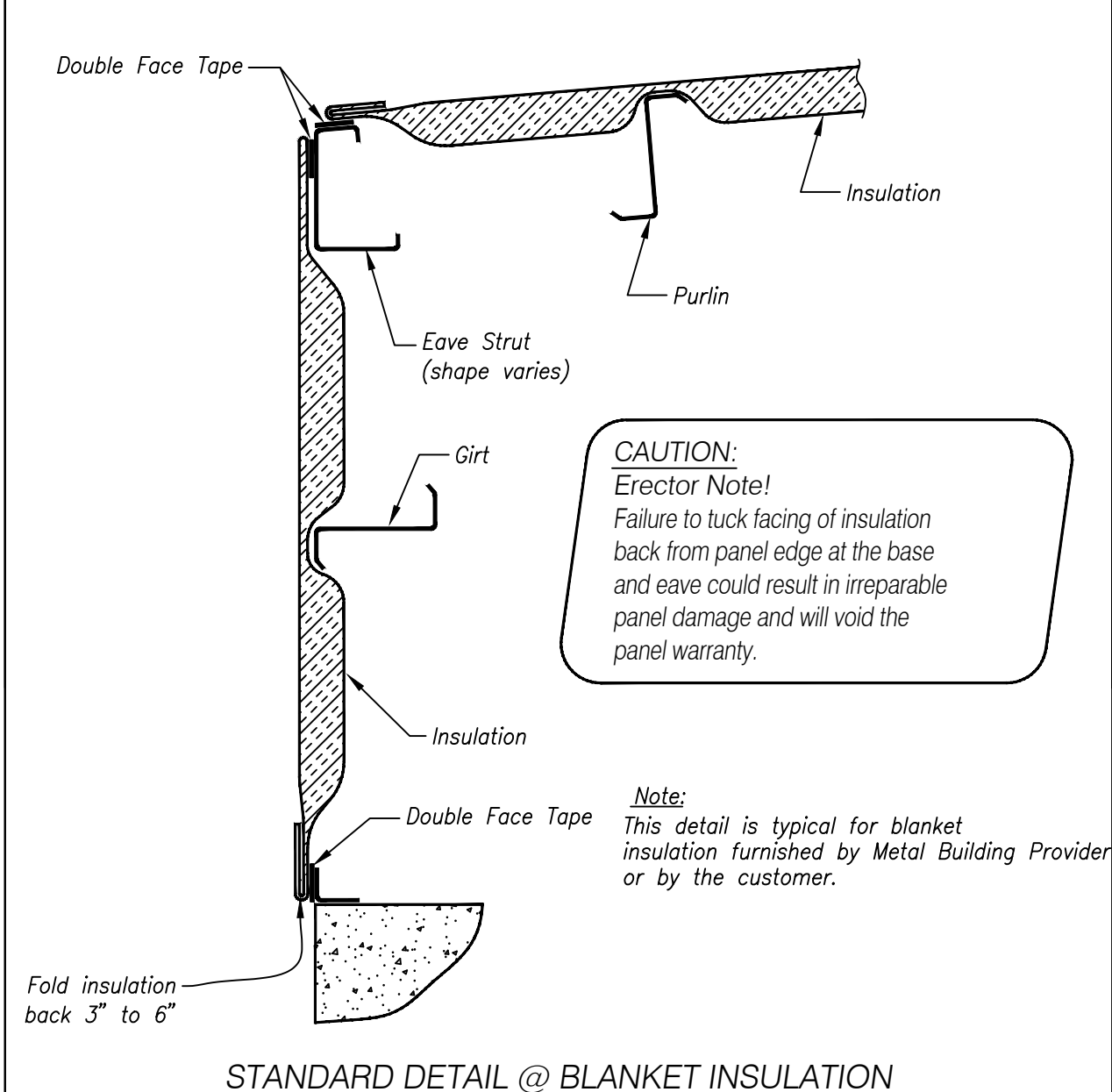
☒ FOR ERECTOR INSTALLATION: Final drawings for construction.



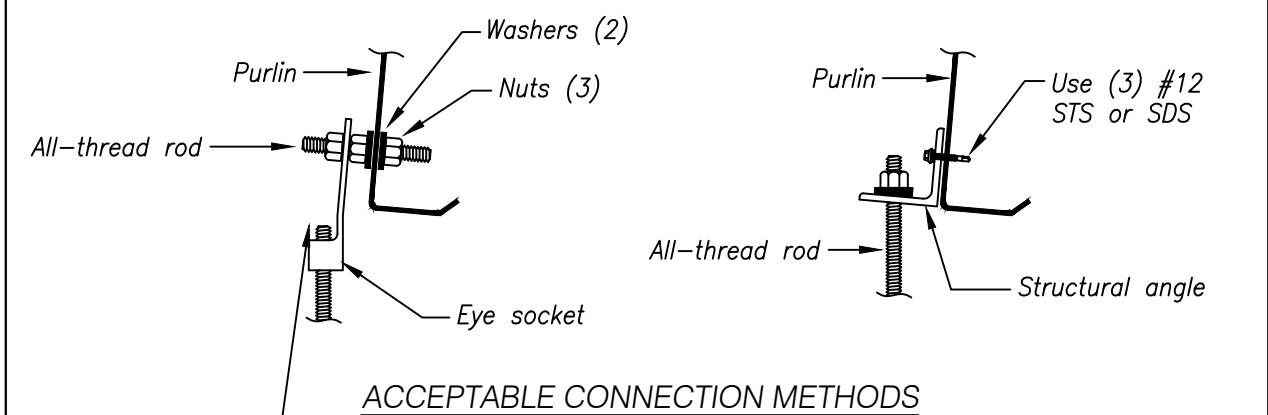
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P2	07.20.23	REV FOR CONSTRUCTION PERMIT	PND	PNC
0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

SHEET DESCRIPTION:		BUILDING SIZE:	
BUILDING SECTIONS		65'-0" x 70'-0" x 18'-0"/14'-3"	
CUSTOMER:		CUSTOMER LOCATION:	
THUNDERSTRUCK / C&B HOLDINGS		HAYDEN, CO 81639	
PROJECT REFERENCE:		THUNDERSTRUCK / C&B HOLDINGS	
JOBSITE LOCATION:		JOBSITE COUNTY:	
HAYDEN, CO 81639		ROUTT	
DWN:	CHK:	DATE:	ENG:
PND	PNC	08.02.23	KMO
JOB NO:		DWG NO:	
11217-32005		E9	
ISSUE:		0	

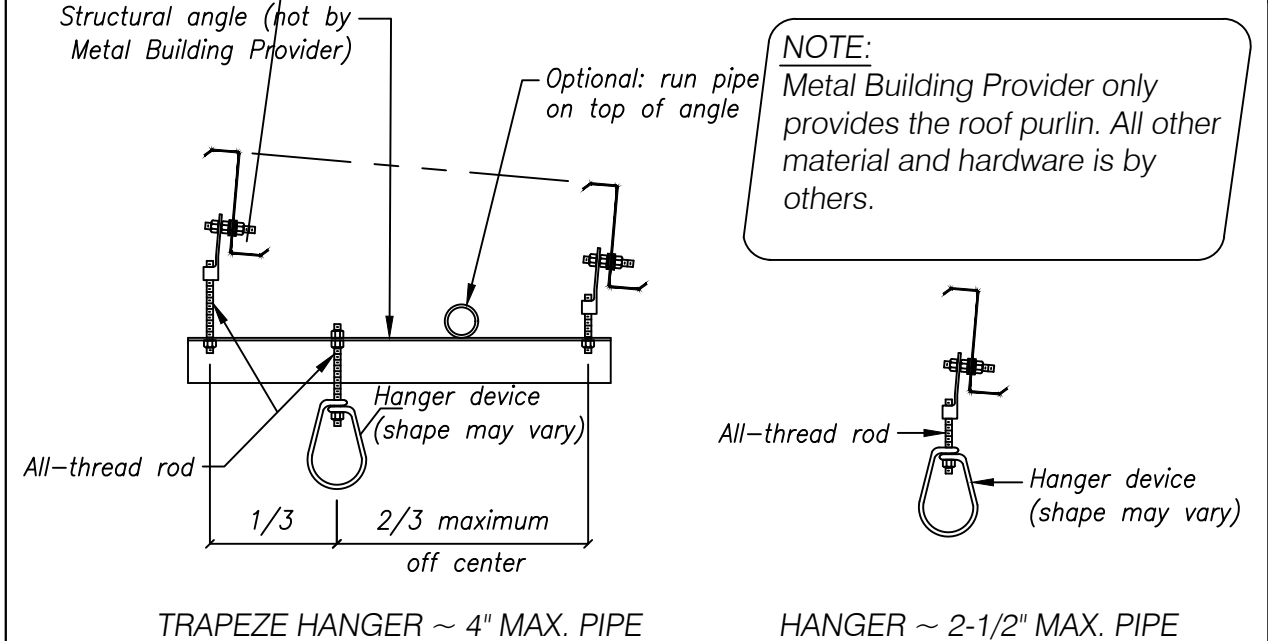
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STANDARD DETAIL @ BLANKET INSULATION

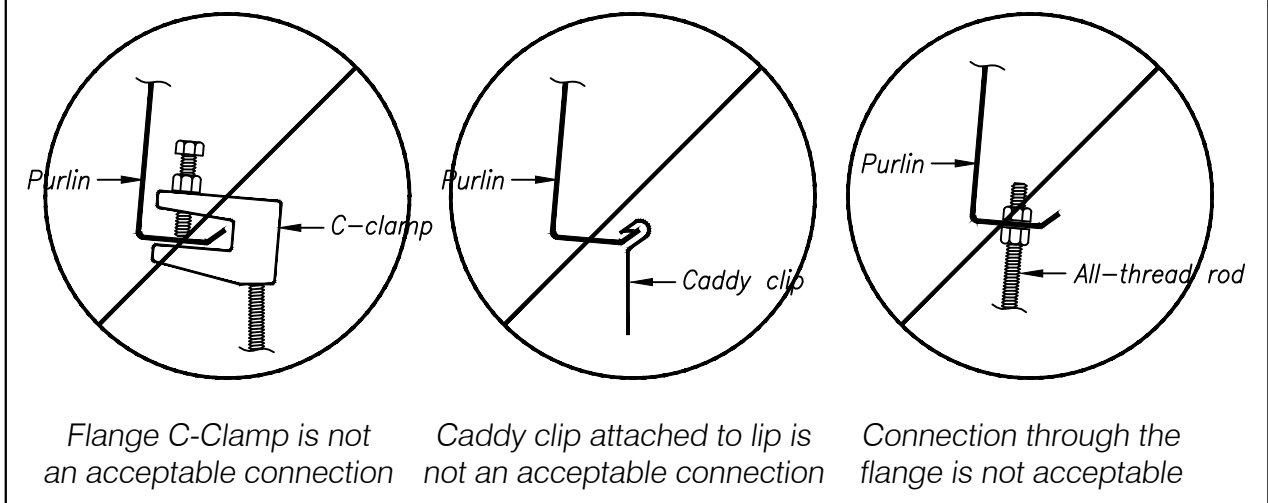


ACCEPTABLE CONNECTION METHODS

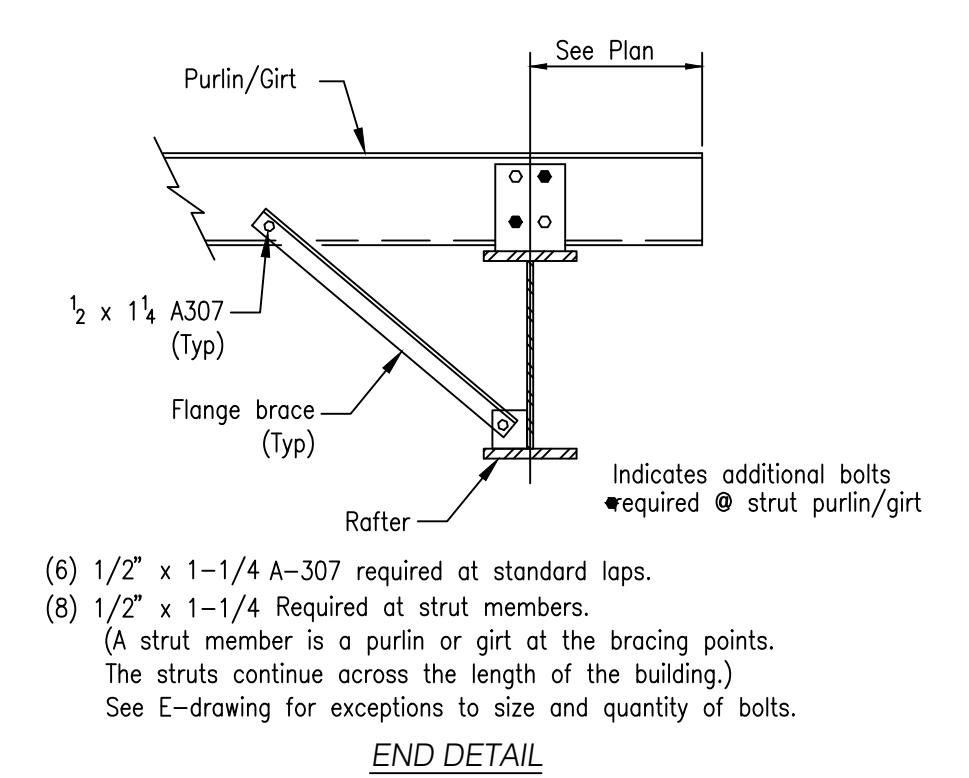


TRAPEZE HANGER ~ 4" MAX. PIPE

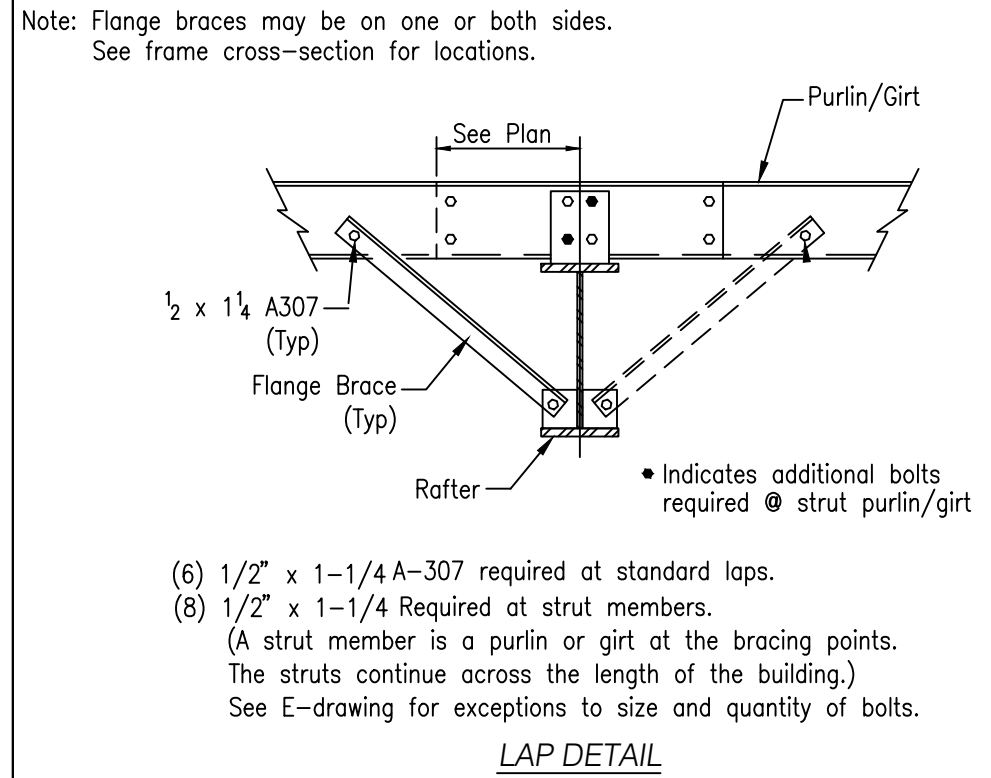
HANGER ~ 2-1/2" MAX. PIPE



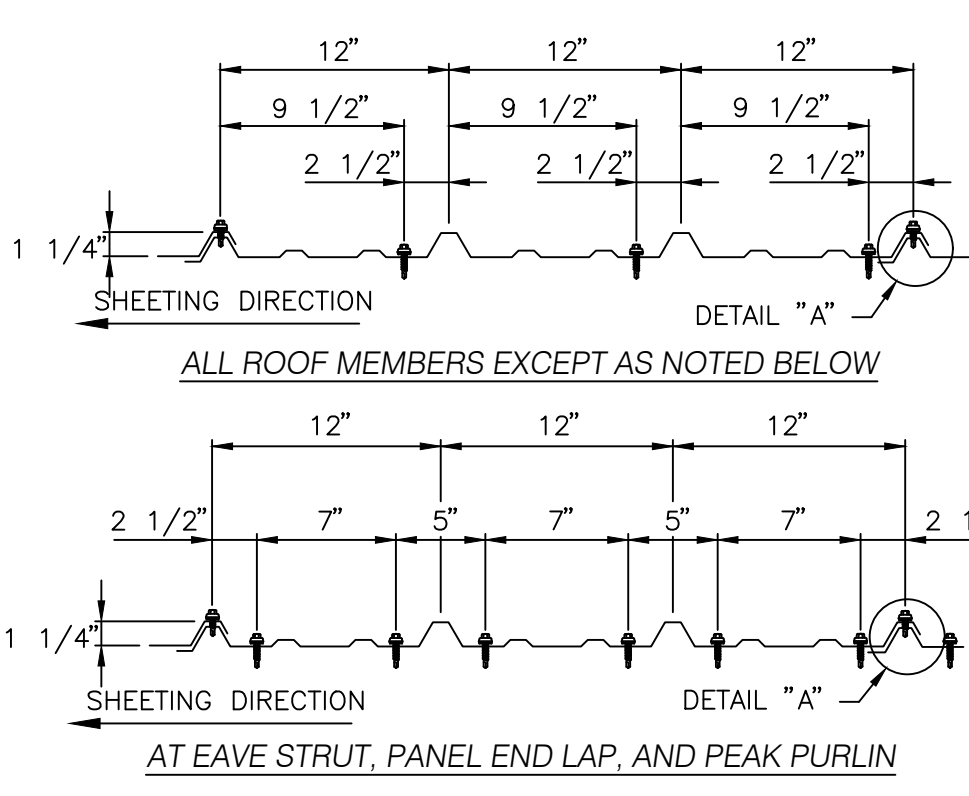
ACCEPTABLE CONNECTIONS FOR ALL COLLATERAL LOADS FOR HANGER ATTACHMENT



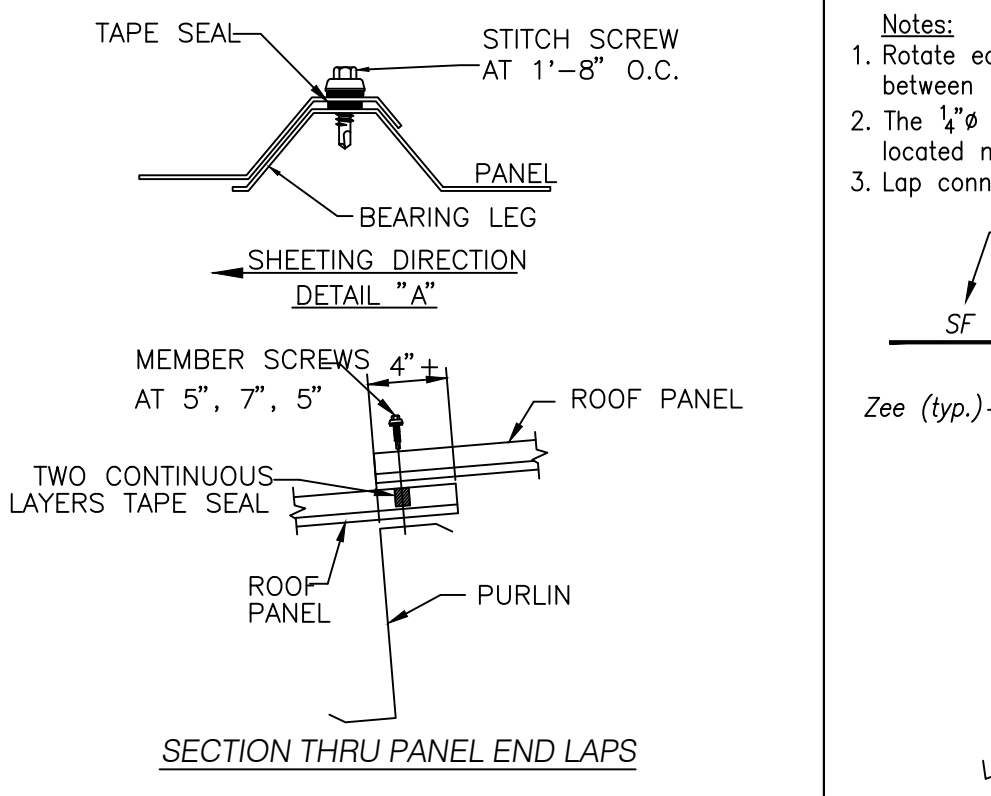
END DETAIL



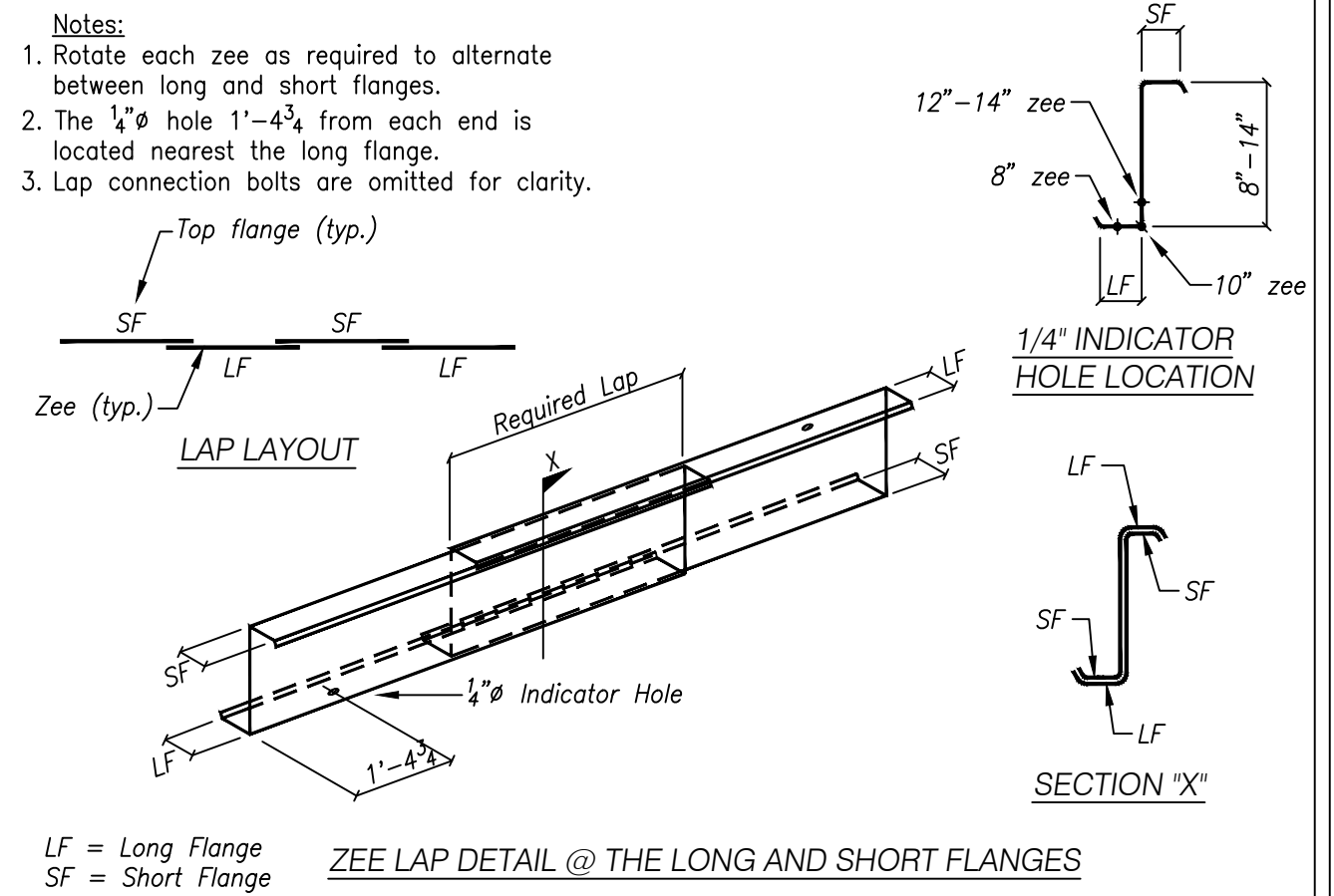
LAP DETAIL



FASTENER LOCATION FOR "SUPER SPAN X" ROOF PANEL

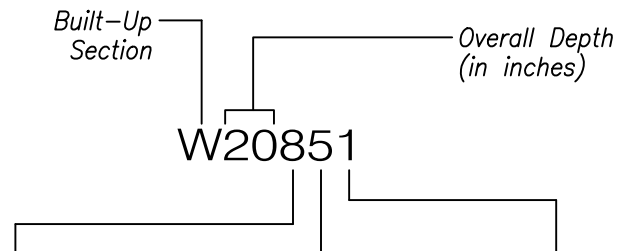


SECTION THRU PANEL END LAPS

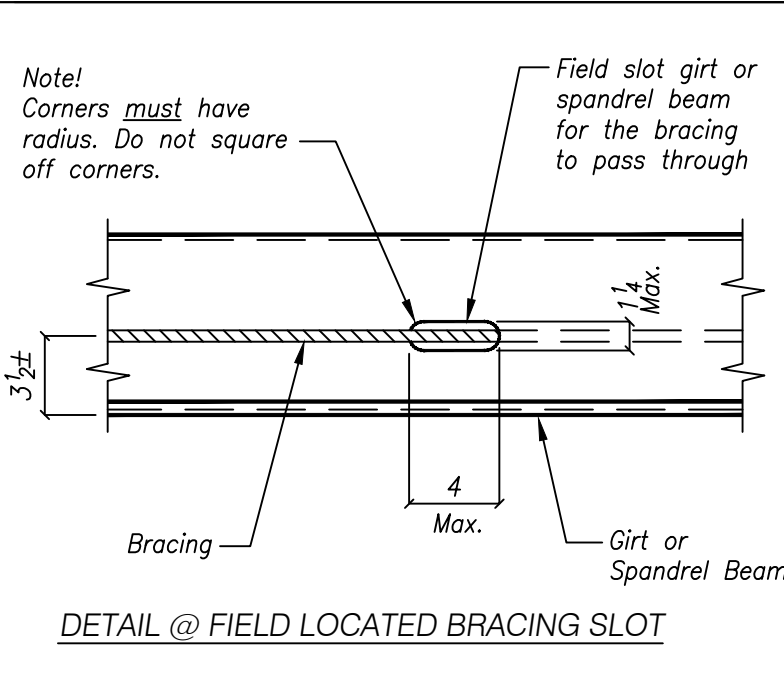


ZEE LAP DETAIL @ THE LONG AND SHORT FLANGES

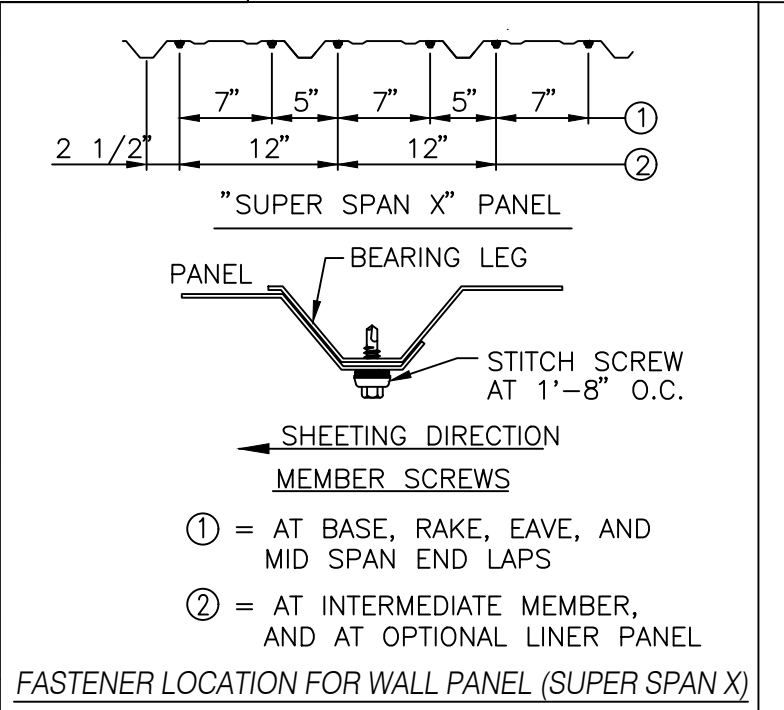
BUILT-UP SECTION LEGEND

	
<b>W20851</b>	
<b>Flange Width</b> (in inches)	<b>Flange Thickness</b> (in inches)
5 = 5	3 = $\frac{3}{8}$
6 = 6	4 = $\frac{1}{4}$
8 = 8	5 = $\frac{5}{8}$
0 = 10	6 = $\frac{3}{8}$
2 = 12	

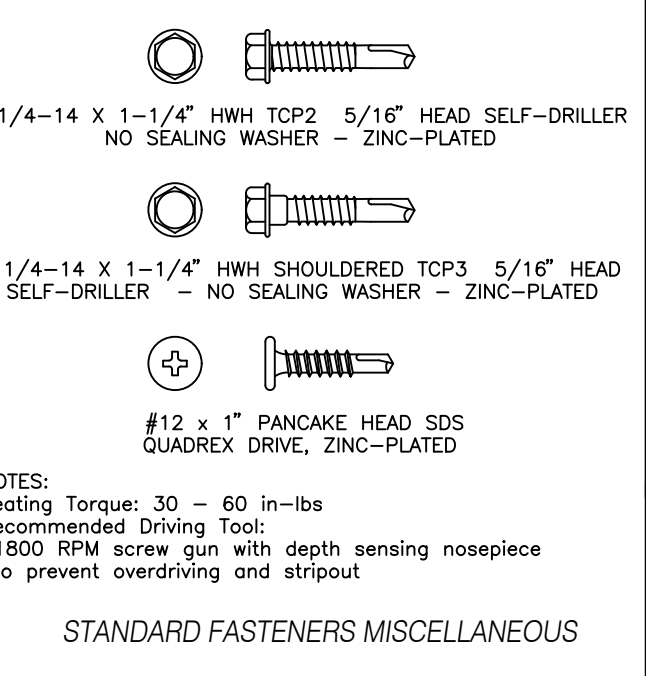
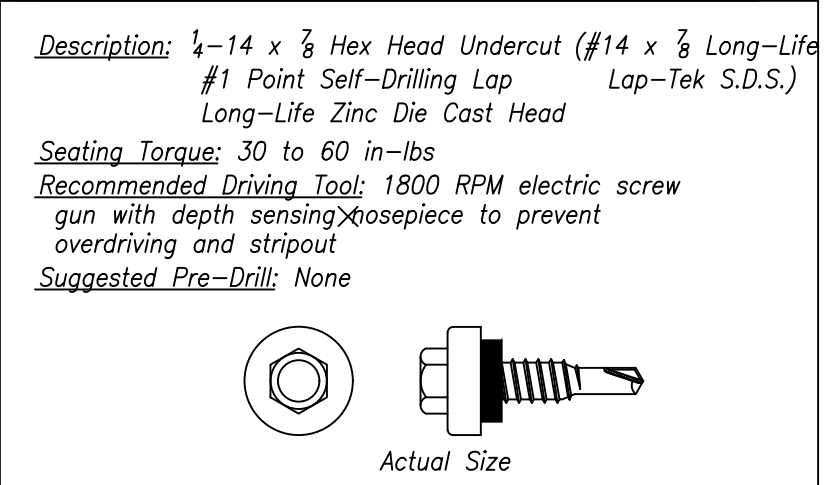
<b>Web Thickness</b> (in inches)	
1 = 10ga.	
2 = 8ga.	
3 = $\frac{3}{8}$	
4 = $\frac{1}{4}$	
6 = $\frac{3}{8}$	



DETAIL @ FIELD LOCATED BRACING SLOT



FASTENER LOCATION FOR WALL PANEL (SUPER SPAN X)



STANDARD FASTENERS MISCELLANEOUS



ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	06.19.23	FOR CONSTRUCTION PERMIT	PND	PNC	STANDARD DETAIL PAGE	65'-0" x 70'-0" x 18'-0"/14'-3"
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0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC	PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS	
					JOB SITE LOCATION: HAYDEN, CO 81639	JOB SITE COUNTY: ROUTT
					OWN: PND	CHK: PNC
					DATE: 08.02.23	ENG: KMO
					JOB NO: 11217-32005	DWG NO: D1
						ISSUE: 0

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**A7** ROOF PURLIN CONNECTION AT I-SHAPE ENDWALL RAFTER

**ANTI** DETAIL AT ANTI-ROLL CLIP

**B4** ENDWALL RAFTER TO COLUMN

**B6** ENDWALL RAFTER TO COLUMN

**B16** CORNER COLUMN TO ENDWALL RAFTER

**C4** GIRT TO COLUMN

**C6** ENDWALL GIRT TO COLUMN

**C13** GIRT/HEADER TO CEE COLUMN

**C15** GIRT/HEADER TO COLUMN

**D4** GIRT TO CEE CORNER COLUMN

**D17** CORNER COLUMN TO WALL GIRT

**E3** BASE PLATE FOR ENDWALL COLUMN

**E5** BASE PLATE FOR DOOR JAMB

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☐ **FOR CONSTRUCTION PERMIT:**  
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☒ **FOR ERECTOR INSTALLATION:**  
Final drawings for construction.

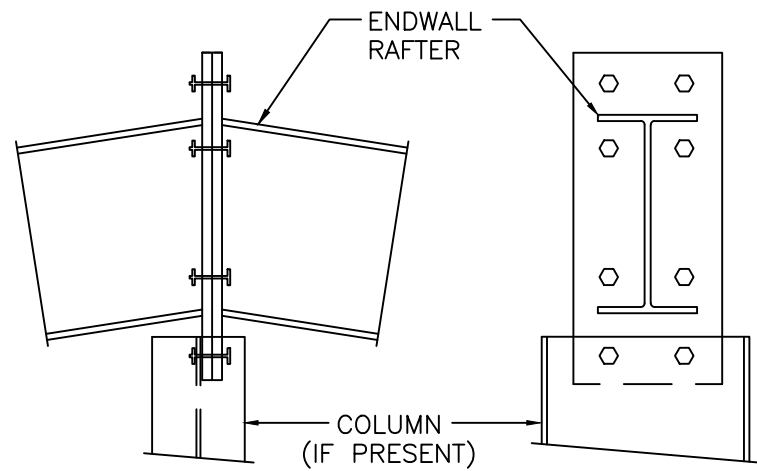
**METALBUILDING**  
OUTLET CORP.  
7651 SHAFFER PARKWAY LITTLETON, CO 80127

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0	08.02.23	FOR ERECTOR INSTALLATION	PND	PNC

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THUNDERSTRUCK / C&B HOLDINGS		HAYDEN, CO 81639	
PROJECT REFERENCE:			
THUNDERSTRUCK / C&B HOLDINGS			
JOBSITE LOCATION:		JOBSITE COUNTY:	
HAYDEN, CO 81639		ROUIT	
DWN:	CHK:	DATE:	ENG:
PND	PNC	08.02.23	KMO
JOB NO:		DWG NO:	
11217-32005		02	
ISSUE:			
		0	

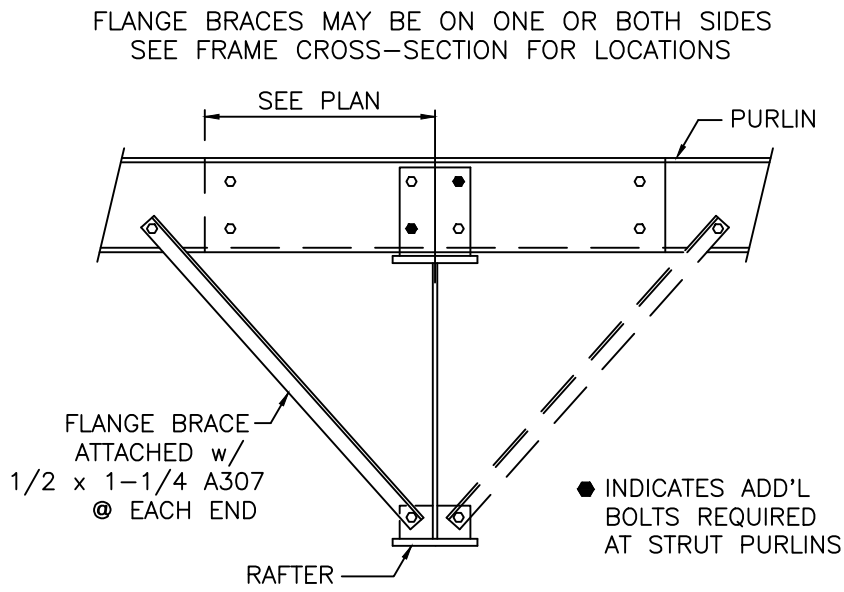
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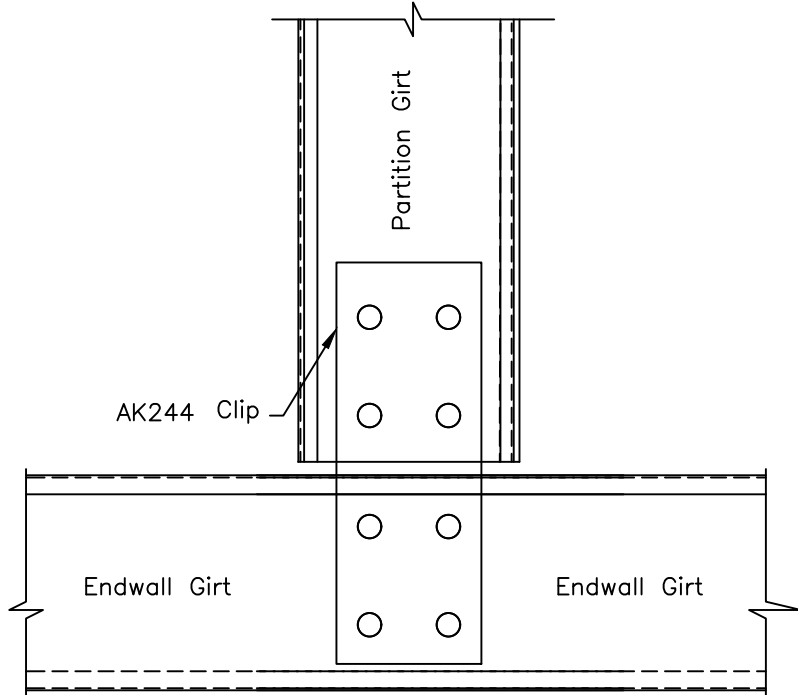
SEE ENDWALL DRAWING FOR BOLT SIZE AND TYPE

F12 RAFTER SPLICE AT SURFACE CHANGE

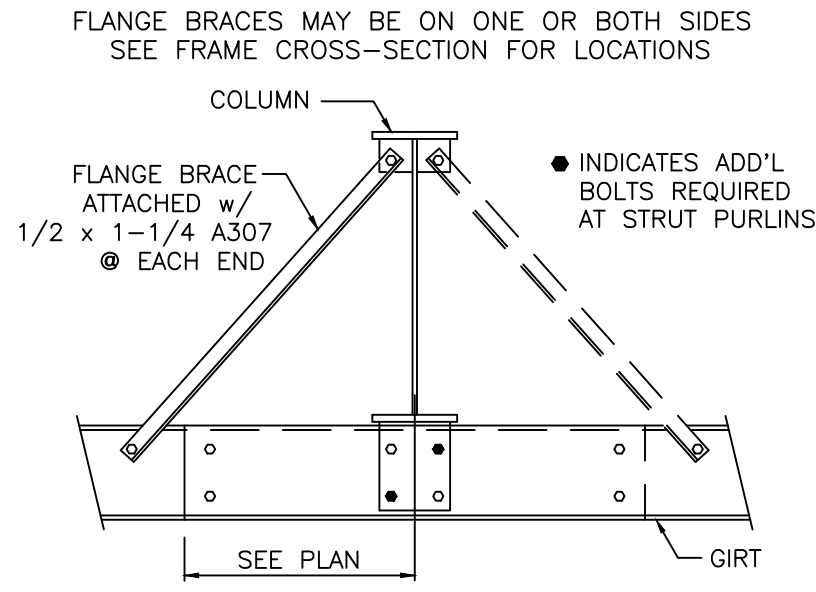


(6) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS  
(8) 1/2 x 1-1/4 REQUIRED AT STRUT MEMBERS  
A STRUT MEMBER IS A PURLIN LOCATED AT THE BRACE POINTS.  
SEE PLANS FOR EXCEPTIONS TO SIZE & QTY OF BOLTS.

G2 ROOF PURLIN TO INTERIOR FRAME RAFTER

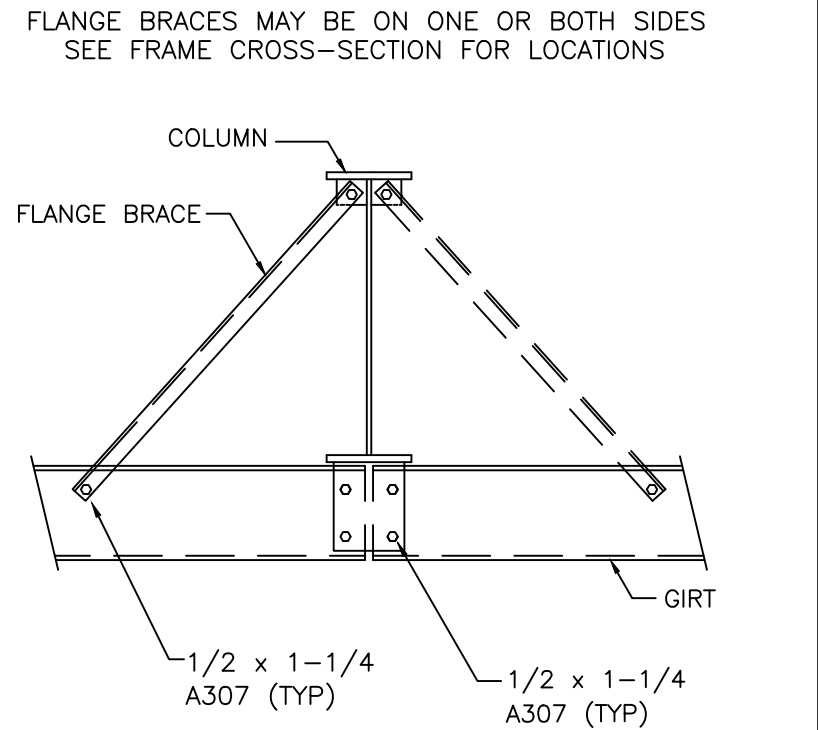


D38 CORNER COLUMN TO WALL GIRT

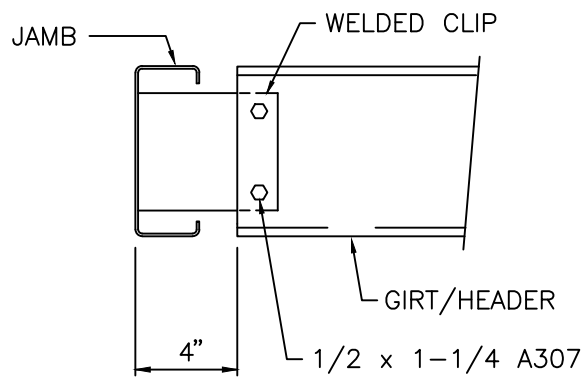


(6) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS  
(8) 1/2 x 1-1/4 A307 REQUIRED AT STRUT MEMBERS  
A STRUT MEMBER IS A PURLIN LOCATED AT THE BRACE POINTS.  
SEE PLANS FOR EXCEPTION TO SIZE & QTY OF BOLTS.

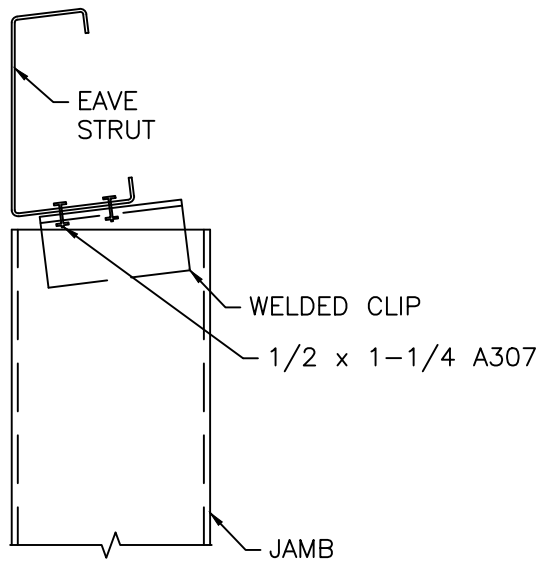
H2 WALL GIRT TO FRAME COLUMN



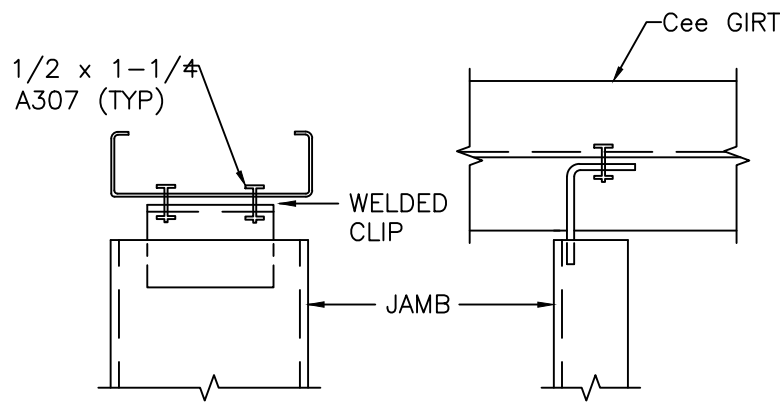
H4 WALL GIRT TO INTERIOR FRAME COLUMN



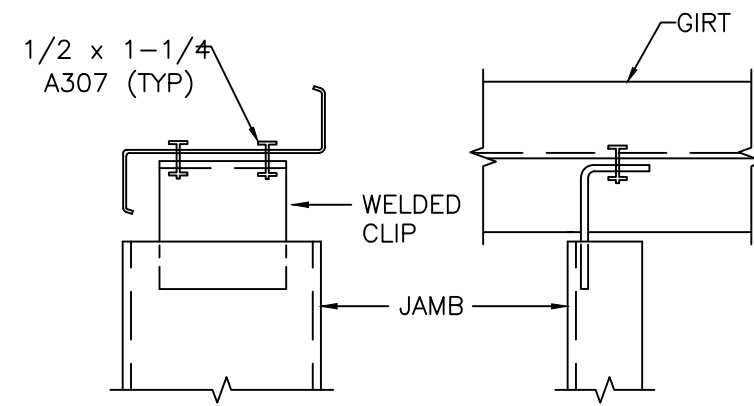
K3 WALL GIRT TO DOOR JAMB



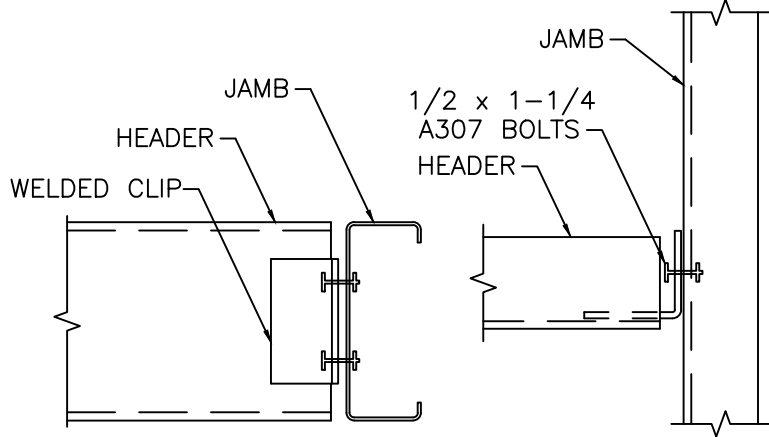
L3 DOOR JAMB TO EAVE STRUT



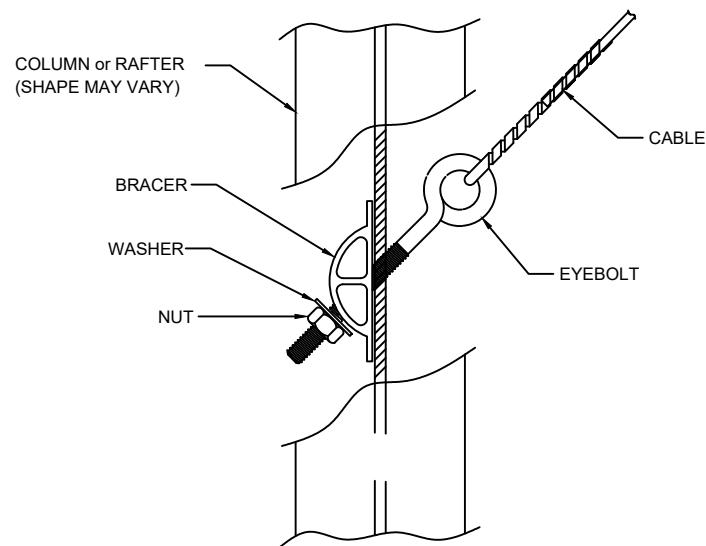
L7 DOOR JAMB TO WALL GIRT



L8 DOOR JAMB TO WALL GIRT

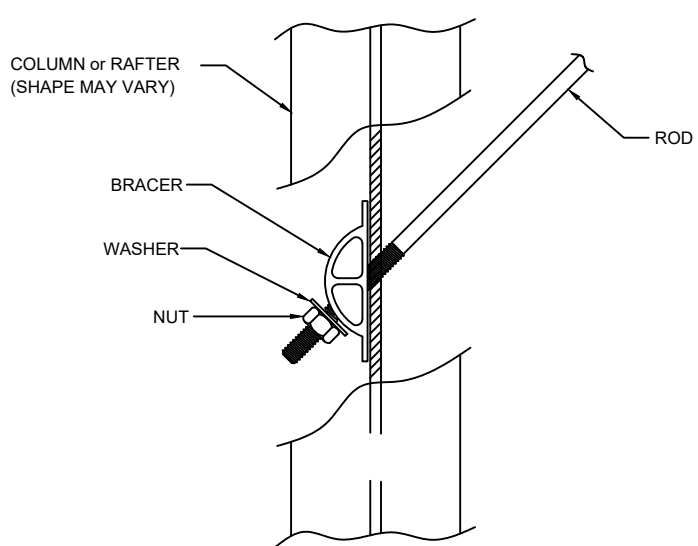


M3 HEADER TO CEE JAMB



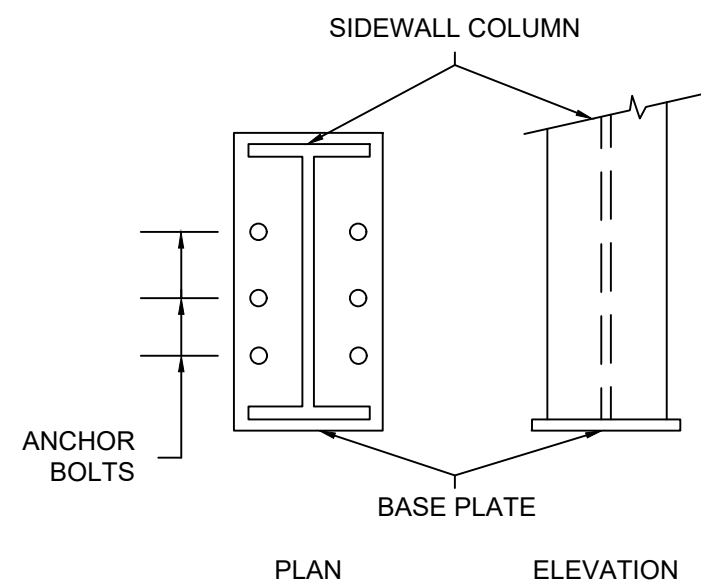
Q2 DIAGONAL CABLE BRACING INSTALLATION

CABLE SIZE	BRACER	WASHER	NUT
1/4"	BRACER #1	F844 1/2"	A563 1/2"
5/16"	BRACER #1	F844 5/8"	A563 5/8"
3/8"	BRACER #2	F844 3/4"	A563 3/4"
1/2"	BRACER #2	F844 7/8"	A563 7/8"



Q3 DIAGONAL ROD BRACING INSTALLATION

ROD SIZE	BRACER	WASHER	NUT
1/2"	BRACER #1	F844 1/2"	A563 1/2"
5/8"	BRACER #1	F844 5/8"	A563 5/8"
3/4"	BRACER #2	F844 3/4"	A563 3/4"
1"	BRACER #3	F844 1"	A563 1"
1 1/4"	BRACER #4	F844 1 1/4"	A563 1 1/4"



R3 ANCHOR BOLTS AT SIDEWALL COLUMN

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☒ FOR ERECTOR INSTALLATION: Final drawings for construction.



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PROJECT REFERENCE: THUNDERSTRUCK / C&B HOLDINGS		JOB SITE LOCATION: HAYDEN, CO 81639	
JOB SITE LOCATION: HAYDEN, CO 81639		JOB SITE COUNTY: ROUTT	
DWN: PND	CHK: PNC	DATE: 08.02.23	ENG: KMO
JOB NO: 11217-32005		DWG NO: 03	ISSUE: 0

TRIM\_40

SOFFIT PANEL INSTALLATION  
SUPER SPAN X

U2

BOLTED END PLATE CONNECTION  
AT BUILDING PEAK

U3

BOLTS FOR RAFTER TO  
COLUMN CONNECTION

C1

CORNER TRIM INSTALLATION  
(SUPER SPAN X)

F1

HEAD TRIM  
INSTALLATION (SUPER SPAN X)

F2

JAMB TRIM  
INSTALLATION (SUPER SPAN X)

F3

SILL TRIM  
INSTALLATION (SUPER SPAN X)

F4

HEAD TRIM  
INSTALLATION (SUPER SPAN X PANEL)

MEMBER SCREWS  
(SHORT, MEDIUM, & LONG)

STITCH SCREW

SCREW\_4

STANDARD FASTENERS  
LONG-LIFE SELF-DRILLING

X1

X2

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