

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 15
Hot-rolled version: AISC 360-10
Cold-formed version: AISI S100-12

GENERAL LOADS

Dead Load: 2.00 psf
Roof Collateral Load: 1.00 psf (Misc.)
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: 76 mph
Exposure Factor: C
Wind Condition: Enclosed
Internal Pressure Coefficient : +/- 0.18
Edge Zone Width: 6.00 Ft

SNOW LOAD

Ground Snow Load : 35.00 psf (Case Study ground snow load provided by
Roof Snow Load : 35.00 psf end user)
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): 0.1540
Structural Response Acceleration(S1): 0.0530
Site Class: D
Design Spectral Response (Sds): 0.1643
Design Spectral Response (Sd1): 0.0848
Seismic Design Category: B

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): 0.0548 0.0548
Design Base Shear V : 3.65 Kips 3.51 Kips
Analysis Procedure: Equivalent Lateral Force

Other Loads:

1. Loads due to 60"X22'-2" Hifold Door applied at LEW between lines B-F
(Door furnished by Others) Hifold Door Weight 5212 Lbs

ROOF PANEL

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

WALL PANEL

Profile: Super Span X Gauge: 26 Color: SMP Need Color

HI-FOLD DOOR PANEL

Profile: Super Span X Gauge: 26 Color: SMP Need Color

PRIMARY FRAMING

Built-Up & Hot-Rolled: Gray Oxide Primer

SECONDARY FRAMING

Purlins, Eave Struts: Pre-Galvanized
Girts, Light Gage Columns: Pre-Galvanized
Light Gage Jamb's & 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	P1	05.21.24	COVER SHEET
F1	0	05.21.24	ANCHOR BOLT PLAN & DETAILS
F2	0	05.21.24	ANCHOR BOLT REACTIONS
P1	P1	05.21.24	RIGID FRAME ELEVATION
P2	P1	05.21.24	RIGID FRAME ELEVATION
E1	P1	05.21.24	ROOF FRAMING PLAN
E2	P1	05.21.24	ROOF SHEETING PLAN
E3	P1	05.21.24	ENDWALL FRAME & SHEETING ELEVATION
E4	P1	05.21.24	ENDWALL FRAME & SHEETING ELEVATION
E5	P1	05.21.24	SIDEWALL FRAME & SHEETING ELEVATION
E6	P1	05.21.24	SIDEWALL FRAME & SHEETING ELEVATION
E7	P1	05.21.24	BUILDING SECTIONS
E8	P1	05.21.24	BUILDING SECTIONS
D1	P1	05.21.24	STANDARD DETAILS PAGE
D2	P1	05.21.24	STANDARD DETAILS PAGE
D3	P1	05.21.24	STANDARD DETAILS PAGE
D4	P1	05.21.24	STANDARD DETAILS PAGE

TRIM COLOR:
SHADOW EAVE: SMP NEED COLOR GAUGE: 26
SHADOW RAKE: SMP NEED COLOR GAUGE: 26
CORNER: SMP NEED COLOR GAUGE: 26
ACCESSORY: SMP NEED COLOR GAUGE: 26
DOWNSPOUT: SMP NEED COLOR GAUGE: 26
BASE TRIM: SMP NEED COLOR GAUGE: 26
HI FOLD DOOR TRIM: SMP NEED COLOR GAUGE: 26

Drawings listed under Drawing Schedule are submitted for permit only. These drawings represent the Metal Building Providers (MBP) scope of work. You are reviewing these drawing to confirm the MBP scope prior to releasing for fabrication. All dimensions, sections, details and notes require your review. All "clouded areas" must be reviewed and addressed/answered before your project is placed within the schedule. Please complete all field verifications prior to returning your permit drawings. The MBP is not responsible for checking the material and/or design compatibility of components not supplied by the MBP. MBP drawings may not match architectural/structural drawings and specifications.

Please sign and return marked either:

"Approved as Submitted" (no changes and project is released for fabrication)

"Approved as Noted" (with changes clearly noted and project is released for fabrication)

"Revise and Resubmit" (with changes clearly noted and revised drawings will be resubmitted)

<input type="checkbox"/> Approved As Submitted	Approval Signature:	Date:
<input type="checkbox"/> Approved As Noted		
<input type="checkbox"/> Revised & Resubmit	Print Name:	
	Desired Delivery Date:	

The rigid frame at line 1 is designed as a non-expandable rigid frame.
Corresponding frame reactions are calculated based upon actual tributary area.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

The Engineer whose seal and signature appear on these documents represents Whirlwind Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Whirlwind Steel Buildings, Inc., and excludes part such as doors, windows, foundation design, and erection of the building.



5/22/2024

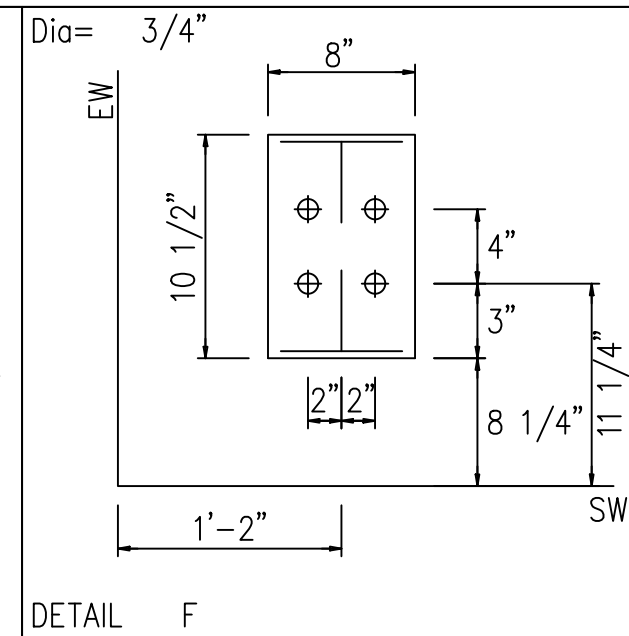
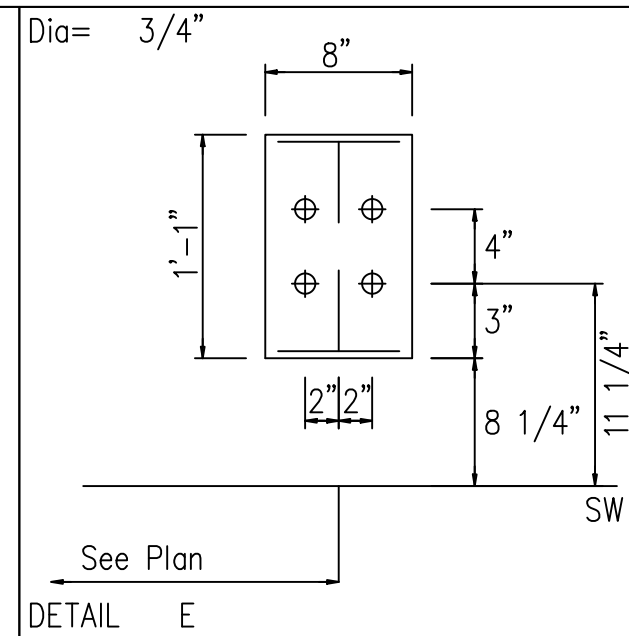
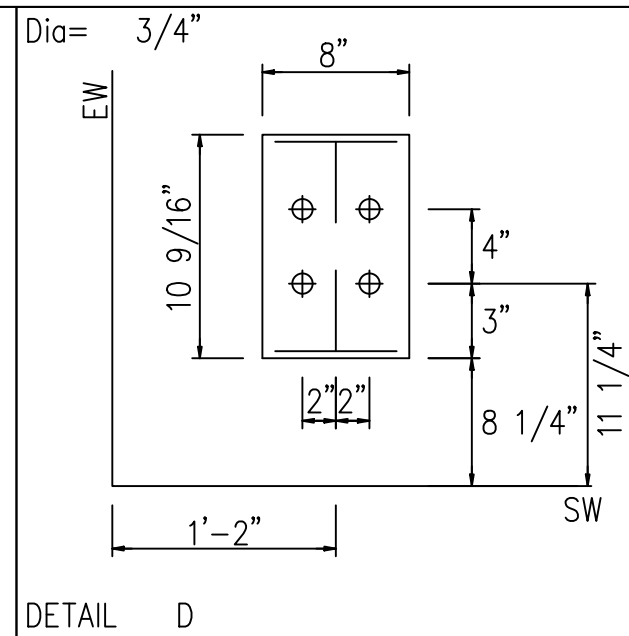
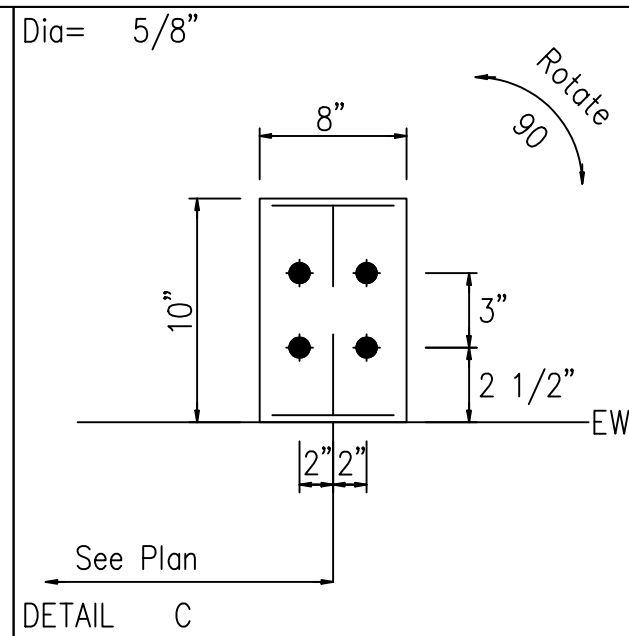
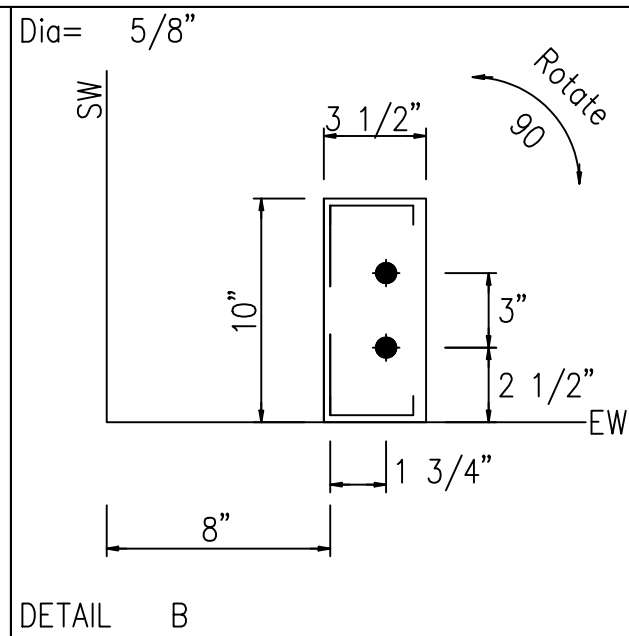
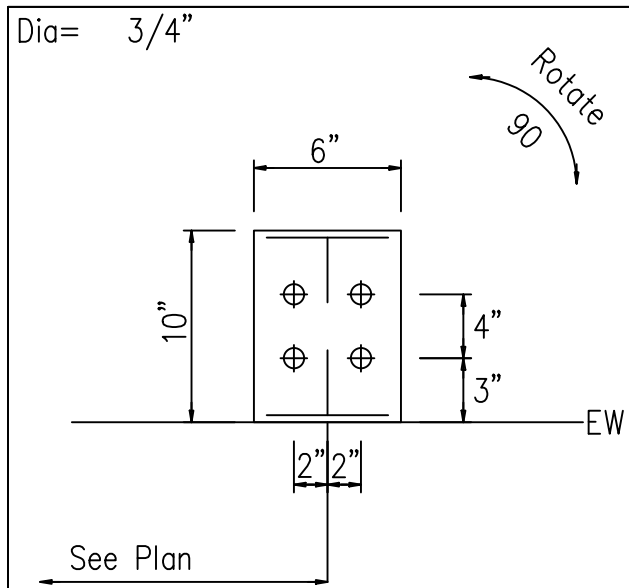
☐ FOR APPROVAL: These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered complete.

☒ FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered complete.

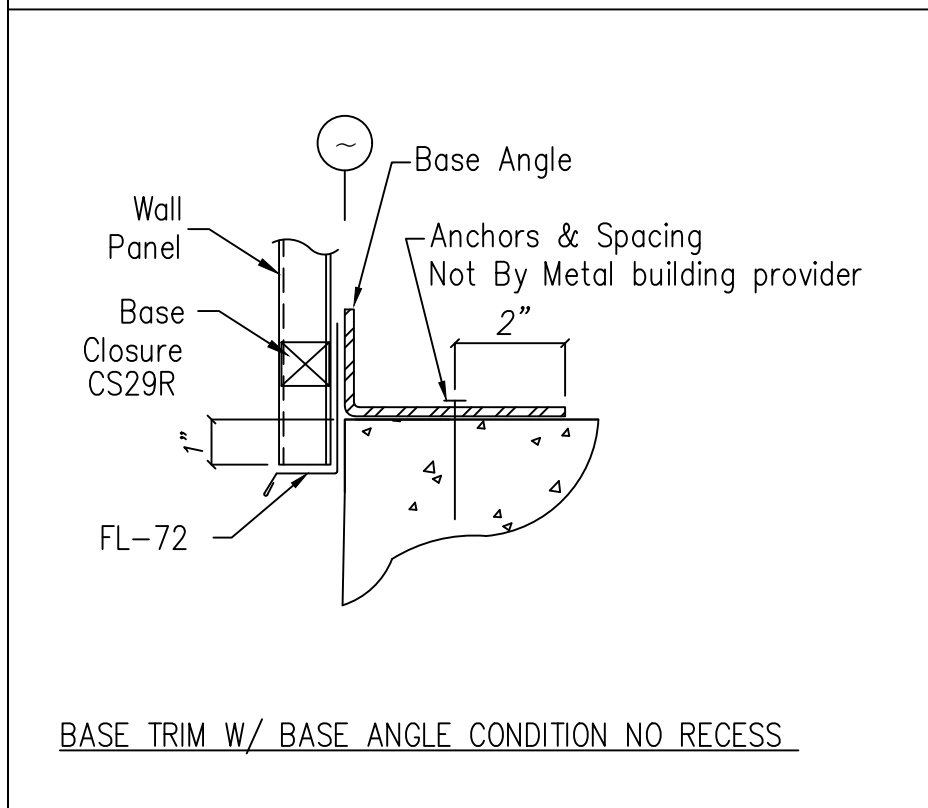
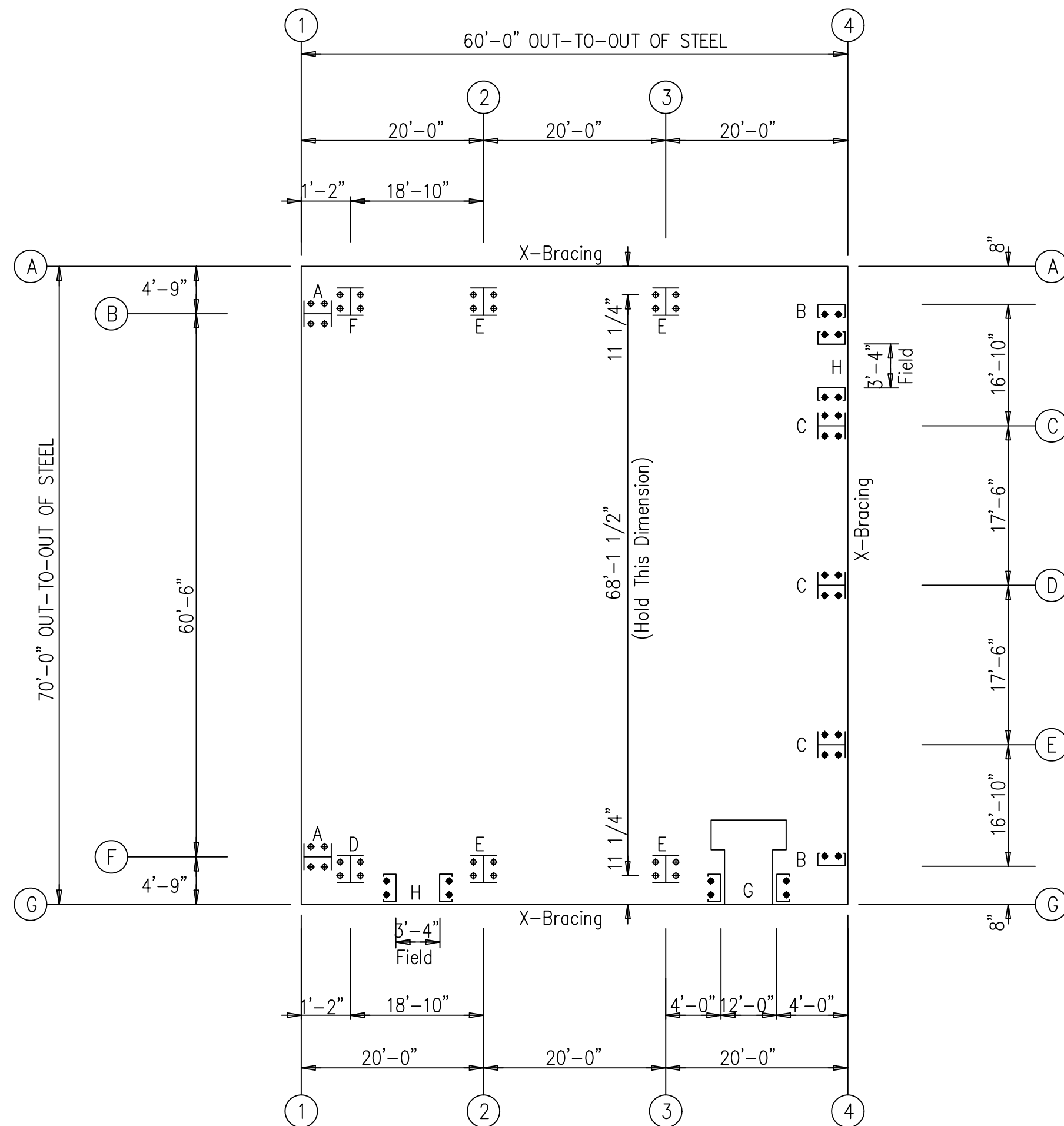
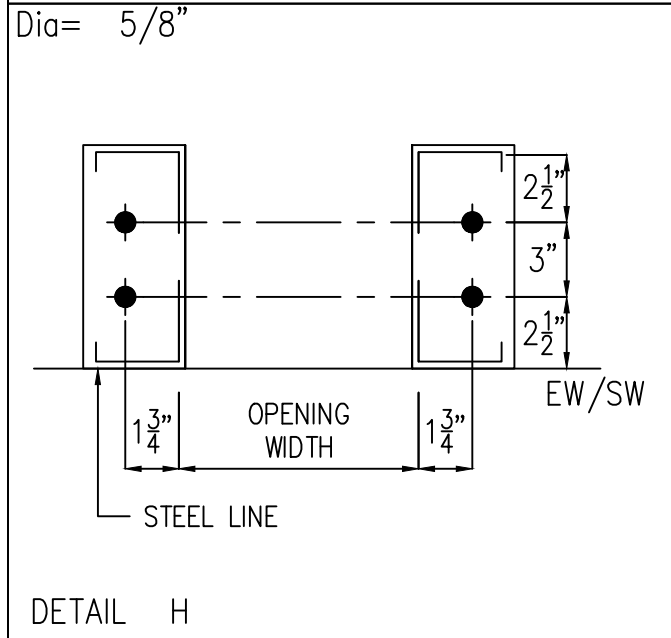
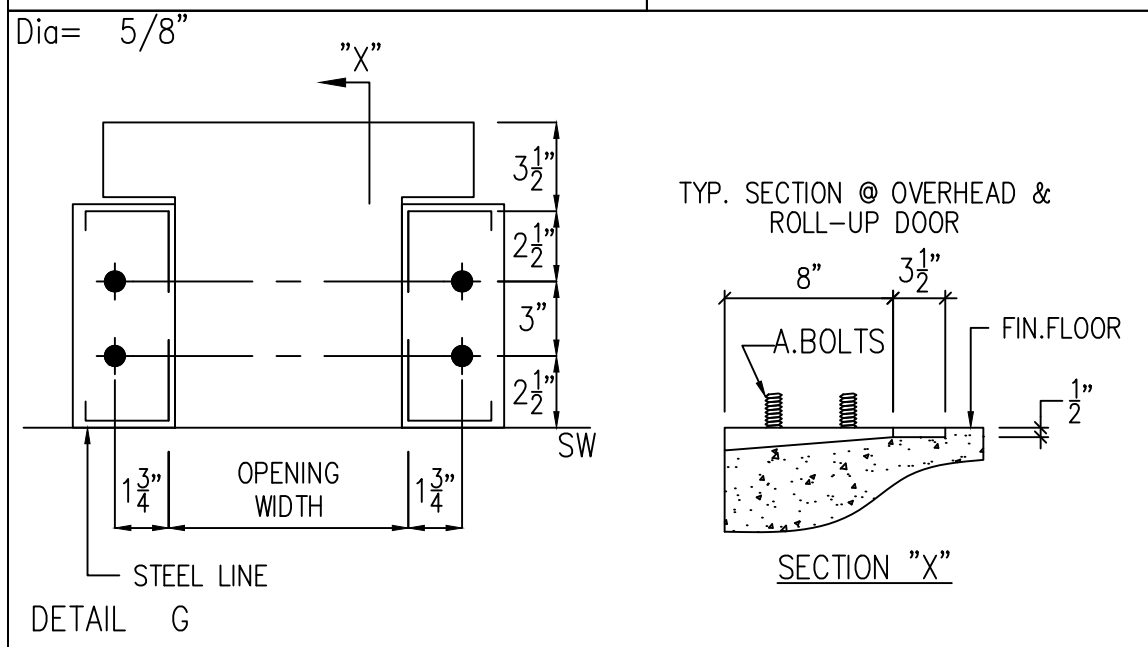
☐ FOR ERECTOR INSTALLATION: Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC		COVER SHEET	70'-0" x 60'-0" x 26'-0"
						CUSTOMER:	CUSTOMER LOCATION:
						ELI TOMAC	CORTEZ, CO 81321
						PROJECT REFERENCE:	
						ELI TOMAC	
						JOB SITE LOCATION:	JOB SITE COUNTY:
						CORTEZ, CO 81321	MONTEZUMA
						DWN:	ENG:
						PND	SJD
						CHK:	JOB NO:
						PNC	12630-34529
						DATE:	DWG NO:
						05.21.24	C1
						ISSUE:	P1



● Dia= 5/8"
⊕ Dia= 3/4"



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☐ FOR CONSTRUCTION PERMIT: These drawings, being for permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered complete.

☒ FOR ERECTOR INSTALLATION: Final drawings for construction.

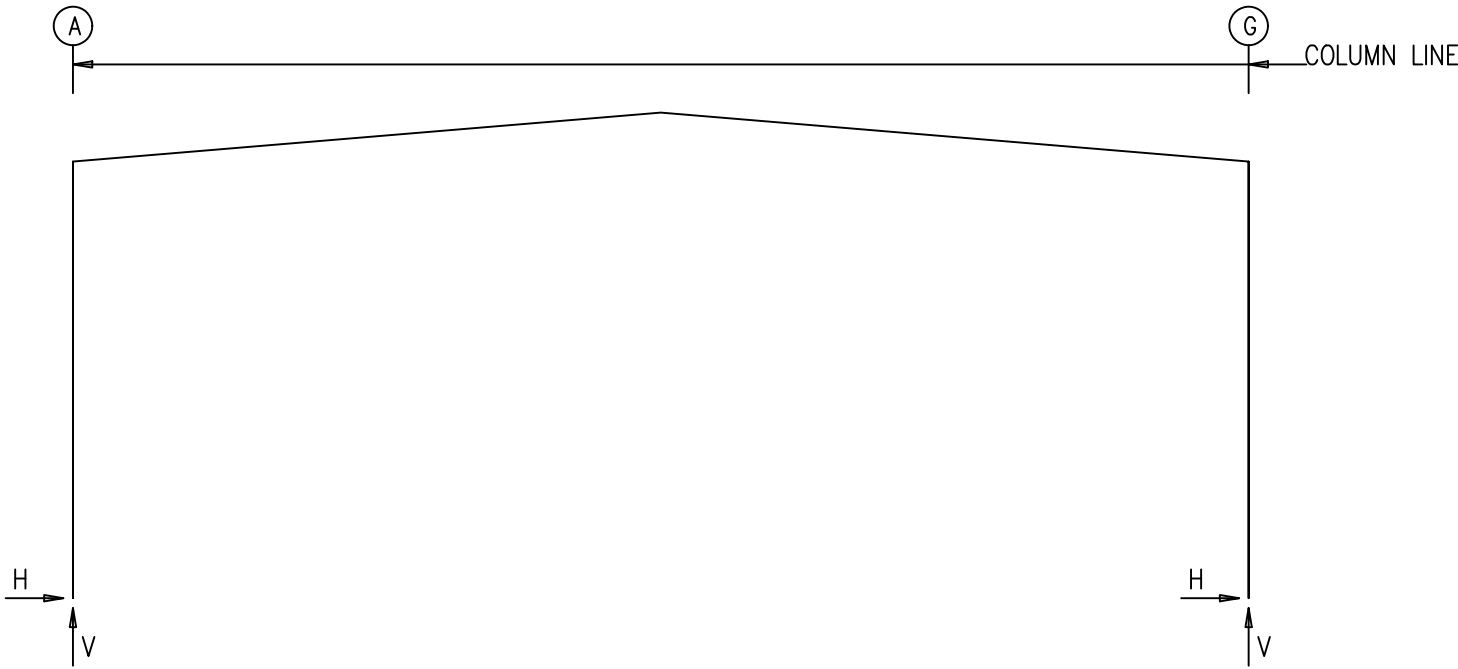
METALBUILDING
OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
0	05.21.24	FOR ERECTOR INSTALLATION	PND	PNC	ANCHOR BOLT PLAN AND DETAILS	70'-0" x 60'-0" x 26'-0"
CUSTOMER:						CUSTOMER LOCATION:
ELI TOMAC						CORTEZ, CO 81321
PROJECT REFERENCE:						
ELI TOMAC						
JOBSITE LOCATION:						JOBSITE COUNTY:
CORTEZ, CO 81321						MONTEZUMA
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	05.21.24	SJD	12630-34529	F1	0



5/22/2024

FRAME LINES: 1 2 3



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k)				Hmin H	V		Bolt(in)		Base_Plate(in)		Elev. (in)
		Load Id	Hmax H	V Vmax	Load Id		Vmin		Qty	Dia	Width	Length	
1	A	1	5.5	18.8	4	-2.6	-1.8		4	0.750	8.000	10.50	0.0
					2	-2.6	-4.0						
1	G	5	2.7	-1.7	1	-5.5	18.8		4	0.750	8.000	10.56	0.0
		1	-5.5	18.8	3	2.7	-3.9						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k)				Hmin H	V		Bolt(in)		Base_Plate(in)		Elev. (in)
		Load Id	Hmax H	V Vmax	Load Id		Vmin		Qty	Dia	Width	Length	
2*	A	1	11.3	28.2	2	-5.6	-9.1		4	0.750	8.000	13.00	0.0
					6	-0.2	-14.9						
2*	G	3	5.6	-9.1	1	-11.3	28.2		4	0.750	8.000	13.00	0.0
		1	-11.3	28.2	7	0.2	-14.9						
2*	Frame lines: 2 3												

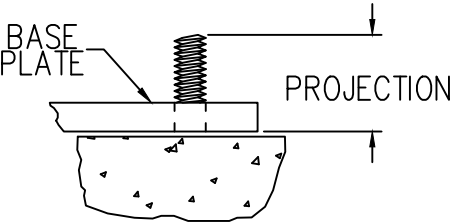
RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	-----Dead-----		-----Collateral-----		-----Live-----		-----Snow-----		-----Wind_Left1-----		-----Wind_Right1-----	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	1.6	5.4	0.1	0.4	2.2	7.4	3.8	13.0	-5.9	-12.0	1.0	-6.8
1	G	-1.6	5.5	-0.1	0.4	-2.2	7.4	-3.8	13.0	-1.1	-6.9	6.0	-12.0
Frame Line	Column Line	--Wind_Left2--		--Wind_Right2--		--Wind_Long1--		--Wind_Long2--		-Seismic_Left		Seismic_Right	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
1	A	-6.0	-8.4	0.9	-3.2	-0.5	-10.6	-0.9	-8.3	-0.5	-0.4	0.5	0.4
1	G	-1.0	-3.2	6.1	-8.4	0.9	-8.3	0.4	-10.6	-0.5	0.4	0.5	-0.4
Frame Line	Column Line	-MIN_SNOW--		F1UNB_SL_L-		F1UNB_SL_R-							
		Horz	Vert	Horz	Vert	Horz	Vert						
1	A	2.2	7.4	3.0	12.3	3.0	7.0						
1	G	-2.2	7.4	-3.0	7.0	-3.0	12.3						
Frame Line	Column Line	-----Dead-----		-----Collateral-----		-----Live-----		-----Snow-----		-----Wind_Left1-----		-----Wind_Right1-----	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	0.9	3.0	0.3	0.7	5.8	14.0	10.1	24.5	-10.2	-18.1	0.0	-10.9
2*	G	-0.9	3.0	-0.3	0.7	-5.8	14.0	-10.1	24.5	0.0	-10.9	10.2	-18.1
Frame Line	Column Line	--Wind_Left2--		--Wind_Right2--		--Wind_Long1--		--Wind_Long2--		-Seismic_Left		Seismic_Right	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	-9.9	-11.3	0.3	-4.0	-1.3	-27.8	-1.9	-24.7	-0.5	-0.4	0.5	0.4
2*	G	-0.3	-4.0	9.9	-11.3	1.9	-24.7	1.3	-27.8	-0.5	0.4	0.5	-0.4
Frame Line	Column Line	-Seismic_Long		-MIN_SNOW--		F2UNB_SL_L-		F2UNB_SL_R-					
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert				
2*	A	0.0	-2.1	5.8	14.0	7.9	23.3	7.9	13.1				
2*	G	0.0	-2.1	-5.8	14.0	-7.9	13.1	-7.9	23.3				
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---		Wind Press Horz	Wind Suct Horz	Seis Long Vert										
		Horz	Vert													
1	B	-0.6	6.5	-1.7	18.4	0.0										
1	F	-0.6	6.5	-1.7	18.4	0.0										
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1		Wind_Right1		Wind_Left2		Wind_Right2		Wind Press Horz		
						Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert			
4	G	0.4	0.1	1.5	2.6	0.0	-2.3	0.0	-1.6	0.0	-1.4	0.0	-0.7	-2.7		
4	E	1.0	0.2	4.0	6.9	0.0	-6.6	0.0	-3.6	0.0	-4.7	0.0	-1.6	-5.3		
4	D	0.9	0.2	3.4	5.9	-3.2	-9.4	0.0	0.8	-3.2	-8.0	0.0	2.2	-5.7		
4	C	1.0	0.2	4.0	6.9	0.0	1.7	3.2	-11.6	0.0	3.6	3.2	-9.6	-5.3		
4	A	0.4	0.1	1.5	2.6	0.0	-1.6	0.0	-2.3	0.0	-0.7	0.0	-1.4	-2.7		
Frm Line	Col Line	Wind Suct Horz	Wind_Long1		Wind_Long2		Seis_Left		Seis_Right		Seis Long Vert	-MIN_SNOW--				
			Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert		Horz	Vert			
4	G	3.1	0.0	-2.6	0.0	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5			
4	E	5.9	0.0	-6.6	0.0	-3.6	0.0	0.0	0.0	0.0	0.0	0.0	4.0			
4	D	6.3	0.0	-3.2	-0.4	-4.5	-0.7	-1.1	0.0	1.1	0.0	0.0	3.4			
4	C	5.9	0.4	-4.2	0.0	-5.9	0.0	1.1	0.7	-1.0	0.0	0.0	4.0			
4	A	3.1	0.0	-1.6	0.0	-2.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5			
Frm Line	Col Line	E2UNB_SL_L-		E2UNB_SL_R-												
		Horz	Vert	Horz	Vert											
4	G	0.0	2.4	0.0	0.8											
4	E	0.0	8.6	0.0	1.7											
4	D	0.0	5.0	0.0	5.0											
4	C	0.0	1.7	0.0	8.5											
4	A	0.0	0.8	0.0	2.4											

ENDWALL COLUMN:

MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k)				Hmin H	V		Bolt(in)		Base_Plate(in)		Elev. (in)
		Load Id	Hmax H	V Vmax	Load Id		Vmin		Qty	Dia	Width	Length	
1	B	8	11.1	3.9	9	-1.0	3.9		4	0.750	6.000	10.00	0.0
		10	-0.6	6.7									
1	F	8	11.1	3.9	9	-1.0	3.9		4	0.750	6.000	10.00	0.0
		10	-0.6	6.7									
4	G	11	1.9	-1.3	12	-1.6	-1.3		2	0.625	3.500	10.00	0.0
		1	0.0	3.0	11	1.9	-1.3						
4	E	13	3.5	-3.4	12	-3.2	-3.4		4	0.625	8.000	10.00	0.0
		14	0.0	9.7	13	3.5	-3.4						
4	D	13	3.8	-5.1	9	-3.4	-2.2		4	0.625	8.000	10.00	0.0
		1	0.0	7.0	13	3.8	-5.1						
4	C	15	3.5	-6.4	9	-3.2	-3.0		4	0.625	8.000	10.00	0.0
		16	0.0	9.7	15	3.5	-6.4						
4	A	17	1.9	-1.3	9	-1.6	-1.3		2	0.625	3.500	10.00	0.0
		1	0.0	3.0	17	1.9	-1.3						

				Components & Cladding			
Zone	Width (ft)	Length (ft)	Pressure(psf) Member	Suction(psf)		Panel	Panel
				Member	Member		
1			16.00	16.00	-29.46	-32.19	
2			16.00	16.00	-34.76	-54.08	
3	6.00		16.00	16.00	-34.76	-54.08	
4	6.00	6.00	16.00	16.00	-34.76	-81.44	
5	6.00		23.84	29.46	-26.30	-31.92	
6			23.84	29.46	-28.14	-39.26	
7			23.80	29.50	-26.30	-31.90	
8	6.00		23.80	29.50	-28.14	-39.24	
(+) wind towards surface							
(-) wind away from surface							

NOTES FOR REACTIONS

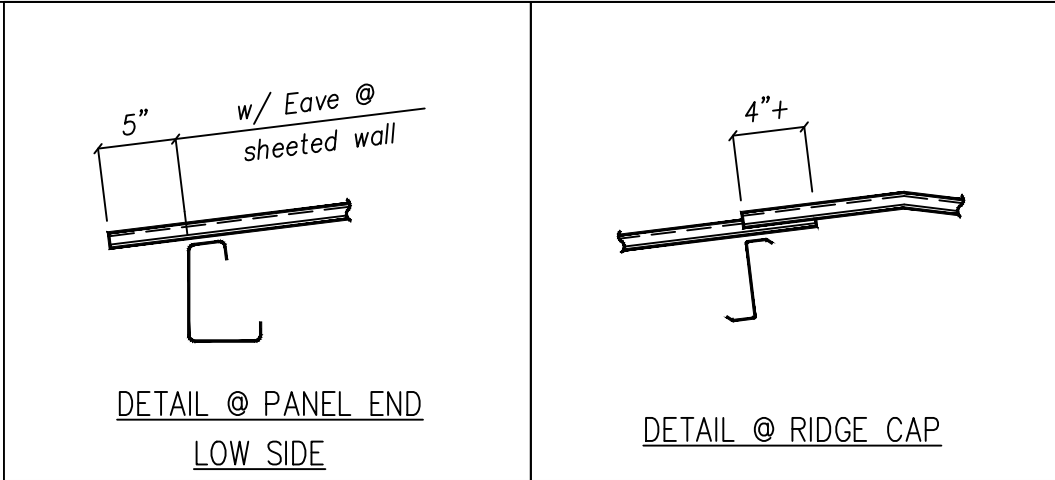
- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Loading conditions are:
 - Dead+Collateral+Snow+Slide_Snow
 - 0.6Dead+0.6Wind_Left1
 - 0.6Dead+0.6Wind_Right1
 - 0.6Dead+0.6Wind_Left2

SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	8"	1/2"	3'-1"
SP-2	4	4	2	A325	3/4"	2 1/4"	8"	5/8"	3'-1"

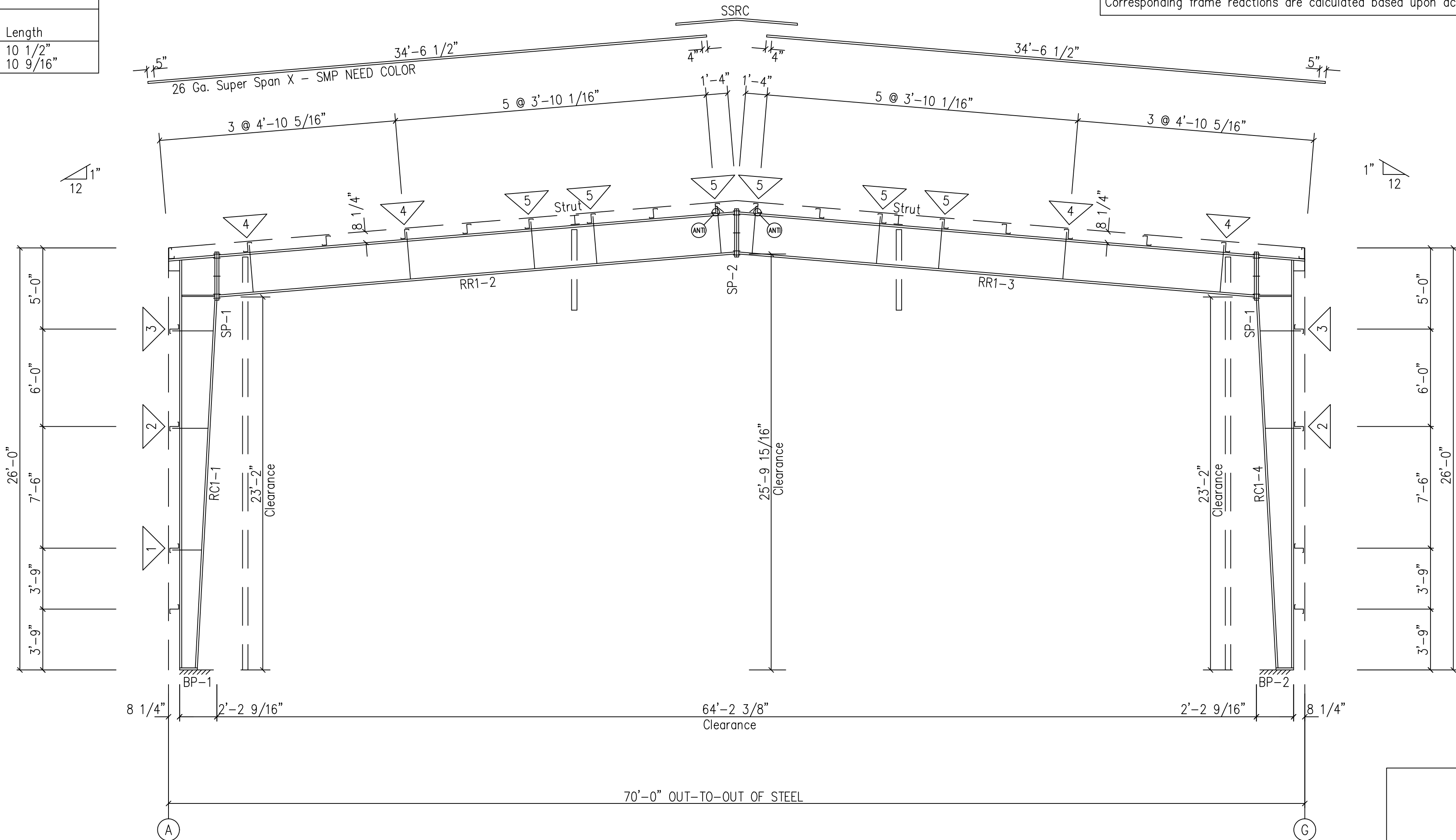
FLANGE BRACE TABLE						
A=L2x2x14GA B=L2x2x12GA C=L2x2x1/8 D=L3x3x3/16						
FRAME LINE: 1						
▽ ID	#	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	1	FB2A	2'-8 1/8"	2'-4"		
2	1	FB6A	2'-11 1/8"	2'-4"		
3	1	FB8A	3'-1 7/8"	2'-4"		
4	1	FB10A	3'-4 1/4"	2'-4"		
5	1	FB11A	3'-4 3/8"	2'-4"		

BASE PLATE TABLE			
Col Mark	Plate Size		
	Width	Thick	Length
BP-1	8"	3/8"	10 1/2"
BP-2	8"	3/8"	10 9/16"

MEMBER TABLE				
Mark	Web Depth	Web Plate	Outside Flange	Inside Flange
	Start/End	Thick	W x Thk	W x Thk
RC1-1	10.0/24.0	0.133	6 x 1/4"	6 x 1/4"
	24.0/26.0	0.161	6 x 1/4"	6 x 5/16"
	26.0/26.0	0.250	6 x 1/4"	
	28.0/28.0	0.184	8 x 1/4"	8 x 5/16"
RR1-2	28.0/28.0	0.161	8 x 5/16"	8 x 5/16"
			8 x 3/8"	8 x 3/8"
			8 x 3/8"	8 x 3/8"
			8 x 5/16"	8 x 5/16"
RR1-3	28.0/28.0	0.161	8 x 3/8"	8 x 3/8"
	28.0/28.0	0.184	8 x 5/16"	8 x 5/16"
			8 x 1/4"	
			6 x 1/4"	6 x 5/16"
RC1-4	26.0/26.0	0.250	6 x 1/4"	6 x 5/16"
	26.0/24.0	0.161	6 x 1/4"	6 x 1/2"
	24.0/10.0	0.133	6 x 1/4"	6 x 5/16"



The rigid frame at line 1 is designed as a non-expandable rigid frame. Corresponding frame reactions are calculated based upon actual tributary area.



RIGID FRAME ELEVATION: FRAME LINE 1

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.

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☐ FOR ERECTOR INSTALLATION:
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC
SHEET DESCRIPTION: RIGID FRAME ELEVATION				
BLDG SIZE: 70'-0" x 60'-0" x 26'-0"				
CUSTOMER: ELI TOMAC				
PROJECT REFERENCE: ELI TOMAC				
JOBSITE LOCATION: CORTEZ, CO 81321				
JOBSITE COUNTY: MONTEZUMA				
DWN:	CHK:	DATE:	ENG:	JOB NO:
PND	PNC	05.21.24	SJD	12630-34529
DWG NO: P1				
ISSUE: P1				

The Engineer whose seal and signature appear on these documents represents Whirlwind Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Whirlwind Steel Buildings, Inc., and excludes part such as doors, windows, foundation design, and erection of the building.

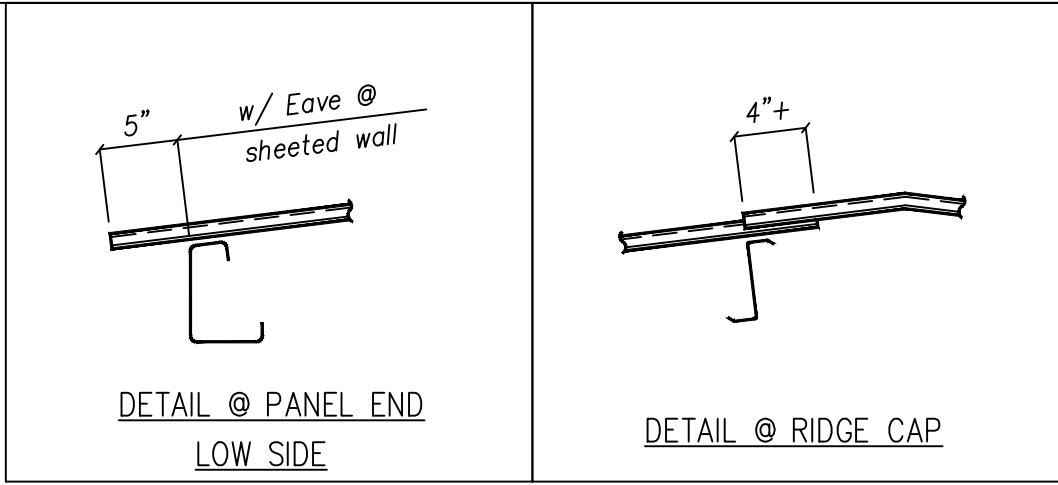


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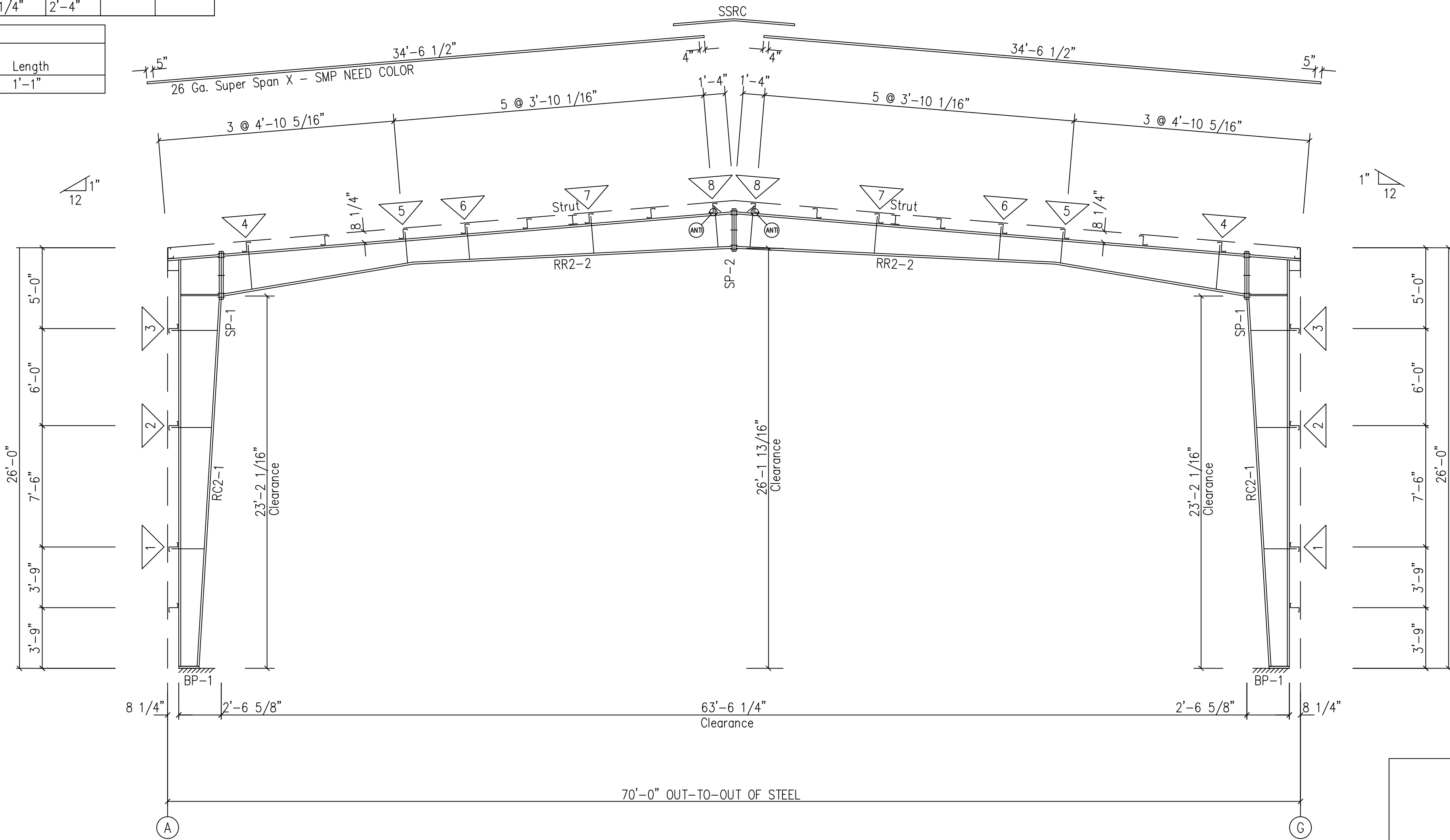
SPlice PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	1"	2 1/2"	8"	5/8"	3'-1 1/4"
SP-2	4	4	2	A325	3/4"	2 1/4"	6"	5/8"	2'-9"

FLANGE BRACE TABLE						
A=L2x2x14GA B=L2x2x12GA C=L2x2x1/8 D=L3x3x3/16						
FRAME LINE: 2 3						
▽ ID	#	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	1	FB5A	2'-9 1/2"	2'-4"		
2	1	FB12C	3'-7 1/2"	3'-0"		
3	1	FB13C	3'-10 3/8"	3'-0"		
4	1	FB9C	3'-2 7/8"	2'-4"		
5	1	FB3A	2'-8 5/8"	2'-4"		
6	1	FB4A	2'-9 1/4"	2'-4"		
7	1	FB6A	2'-11 1/8"	2'-4"		
8	1	FB7A	3'-1 1/4"	2'-4"		

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



MEMBER TABLE				
Mark	Web Depth	Web Plate	Outside Flange	Inside Flange
RC2-1	Start/End	Thick	W x Thk	W x Thk
	12.0/19.9	0.161	6 x 1/4"	6 x 3/8"
	19.9/27.8	0.184	6 x 1/4"	6 x 1/2"
	27.8/30.0	0.250	6 x 1/2"	6 x 3/8"
RR2-2	30.0/30.0	0.250		
	28.0/16.0	0.250	6 x 1/4"	6 x 3/8"
	16.0/24.0	0.161	6 x 3/8"	6 x 1/4"



RIGID FRAME ELEVATION: FRAME LINE 2 3

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

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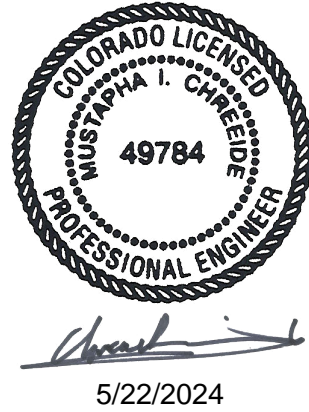
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☐ FOR ERECTOR INSTALLATION:
Final drawings for construction.



ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION:		BLDG SIZE:	
RIGID FRAME ELEVATION		70'-0" x 60'-0" x 26'-0"	
CUSTOMER:		CUSTOMER LOCATION:	
ELI TOMAC		CORTEZ, CO 81321	
PROJECT REFERENCE:		JOBSITE LOCATION:	
ELI TOMAC		CORTEZ, CO 81321	
JOBSITE COUNTY:		DWN:	
MONTEZUMA		CHK:	
PND		PNC	
DATE:		ENG:	
05.21.24		SJD	
JOB NO:		DWG NO:	
12630-34529		P2	
ISSUE:		P1	

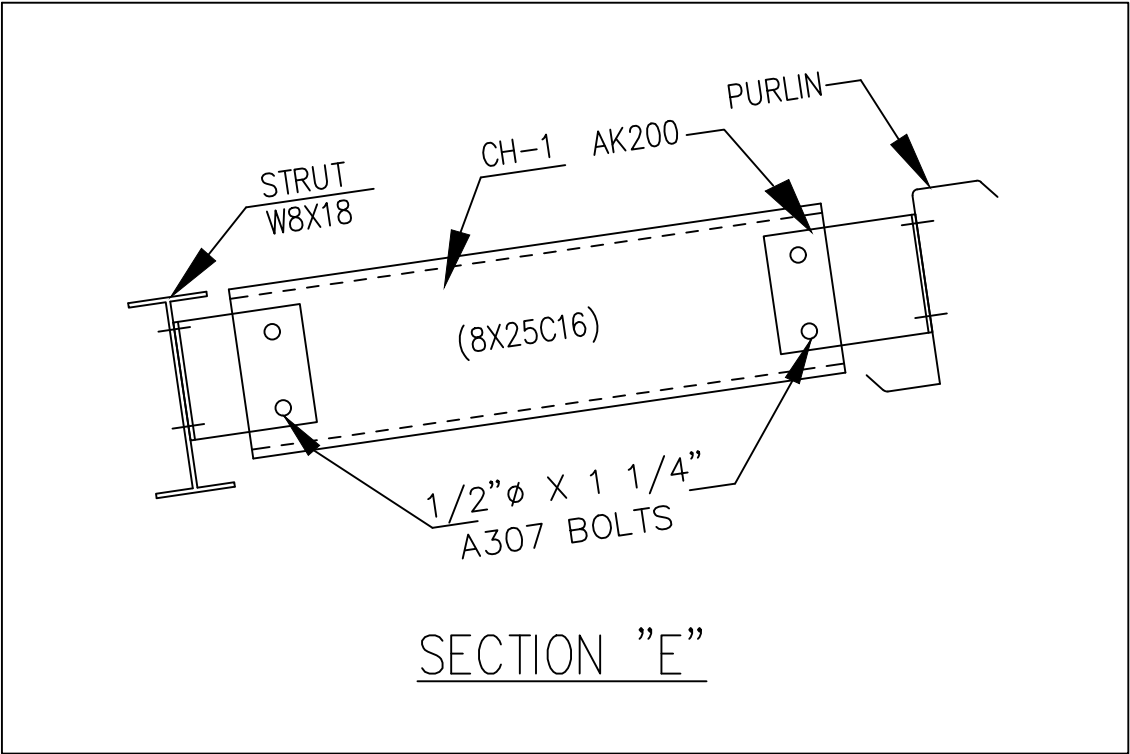
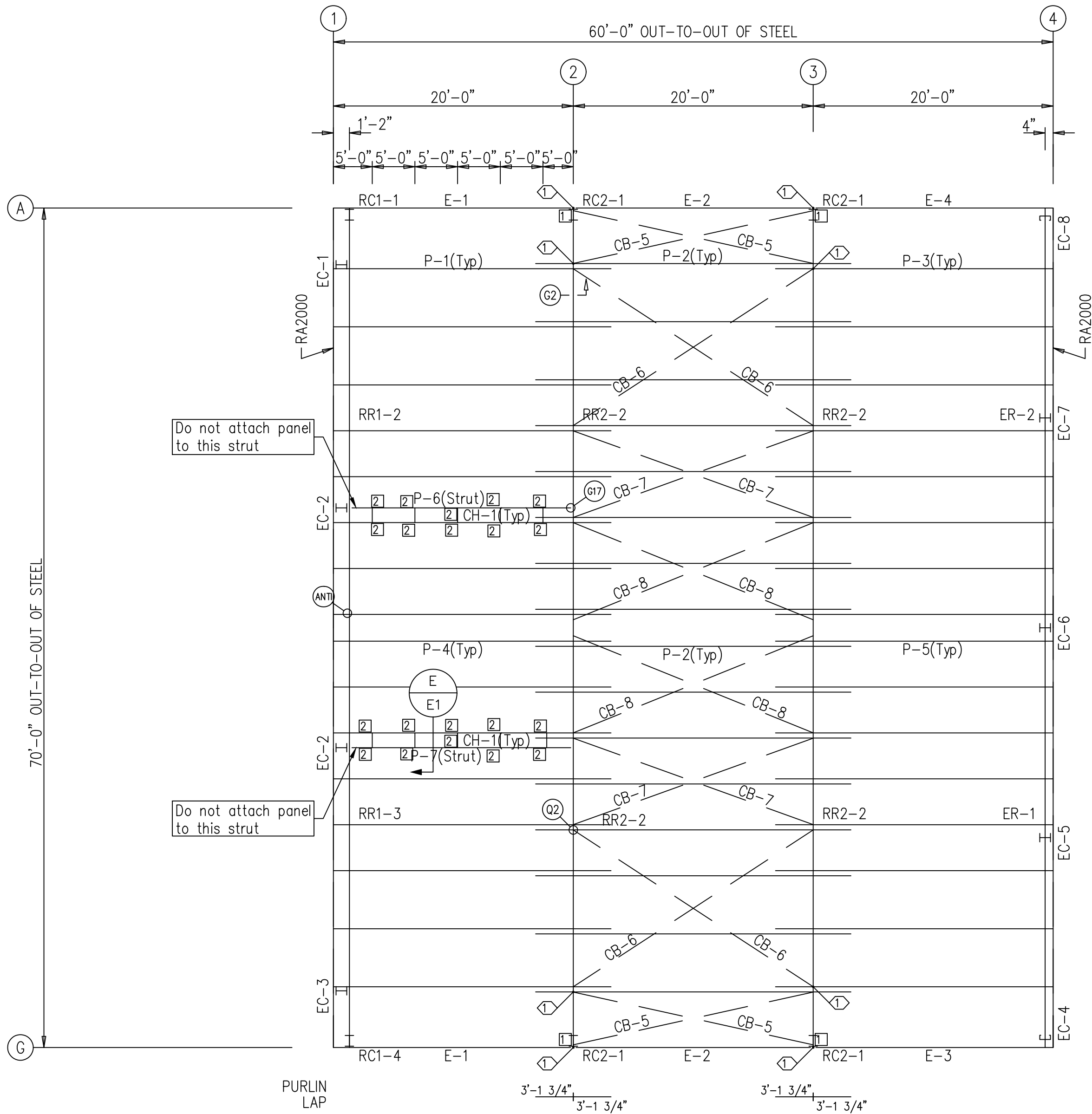


5/22/2024

SPECIAL BOLTS						
ROOF PLAN						
○ ID	QUAN	TYPE	DIA	LENGTH	WASH	
1	4	A307	1/2"	1 1/4"	0	

MEMBER TABLE	
ROOF PLAN	
MARK	PART
P-1	8X25Z14
P-2	8X25Z16
P-3	8X25Z14
P-4	8X25Z14
P-5	8X25Z14
P-6	W8X18
P-7	W8X18
E-1	8ES141
E-2	8ES141
E-3	8ES141
E-4	8ES141
CB-5	0.31_CBL
CB-6	0.31_CBL
CB-7	0.25_CBL
CB-8	0.25_CBL
CH-1	8X25C16

CONNECTION PLATES	
ROOF PLAN	
□ ID	MARK/PART
1	AK106
2	AK200



ROOF FRAMING PLAN

UL580, CLASS 90 CONST. NUMBER 167

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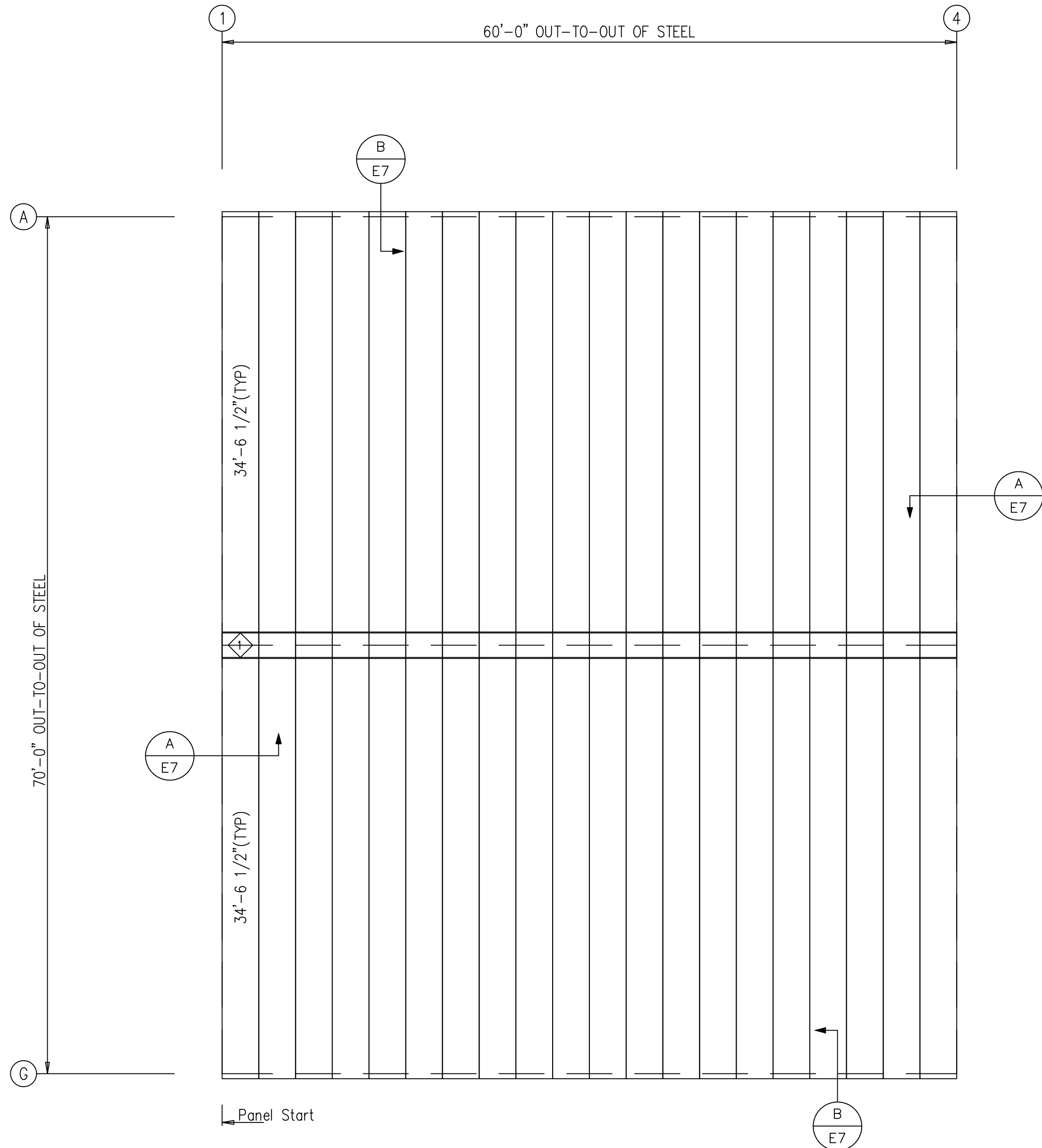


ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC	ROOF FRAMING PLAN	70'-0" x 60'-0" x 26'-0"
					CUSTOMER:	CUSTOMER LOCATION:
					ELI TOMAC	CORTEZ, CO 81321
					PROJECT REFERENCE:	
					ELI TOMAC	
					JOB SITE LOCATION:	JOB SITE COUNTY:
					CORTEZ, CO 81321	MONTEZUMA
DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	05.21.24	SJD	12630-34529	E1	P1



5/22/2024

ROOF SHEETING TRIM TABLE		
QID	PART	LENGTH
1	SSRC30	3'-0"



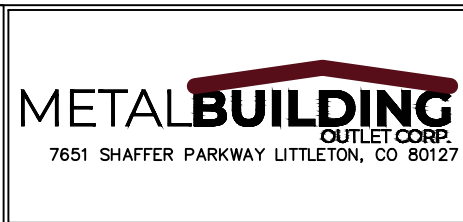
ROOF SHEETING PLAN

PANELS: 26 Ga. Super Span X – SMP NEED COLOR

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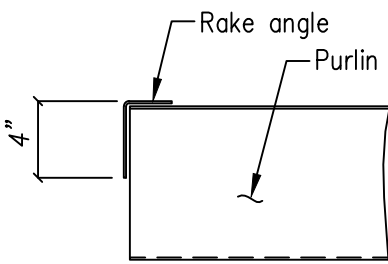


ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:		BLDG SIZE:	
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC	ROOF SHEETING PLAN		70'-0" x 60'-0" x 26'-0"	
					CUSTOMER:		CUSTOMER LOCATION:	
					ELI TOMAC		CORTEZ, CO 81321	
					PROJECT REFERENCE:			
					ELI TOMAC			
					JOB SITE LOCATION:		JOB SITE COUNTY:	
					CORTEZ, CO 81321		MONTEZUMA	
DWN:		CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:	
PND		PNC	05.21.24	SJD	12630-34529	E2	P1	

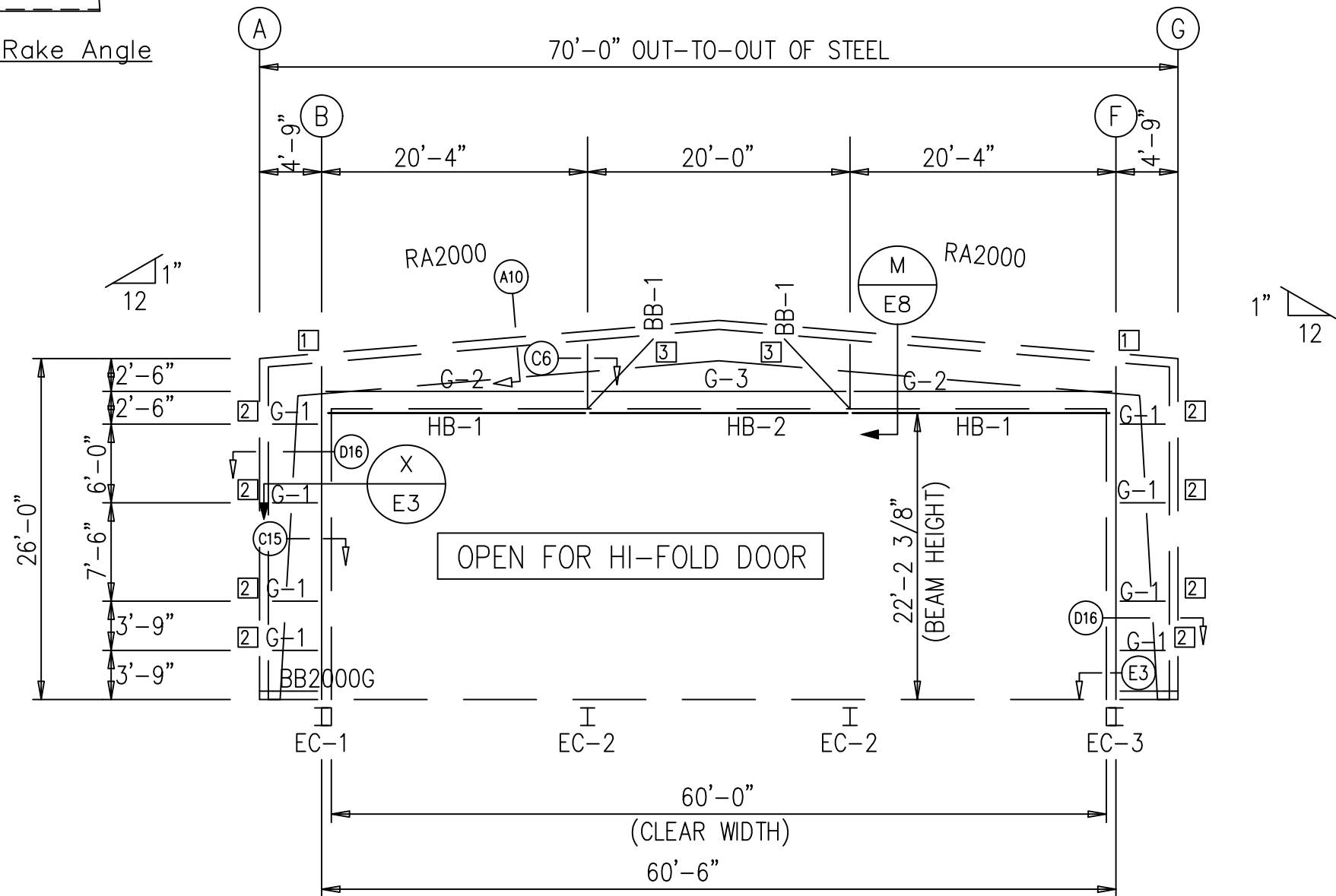
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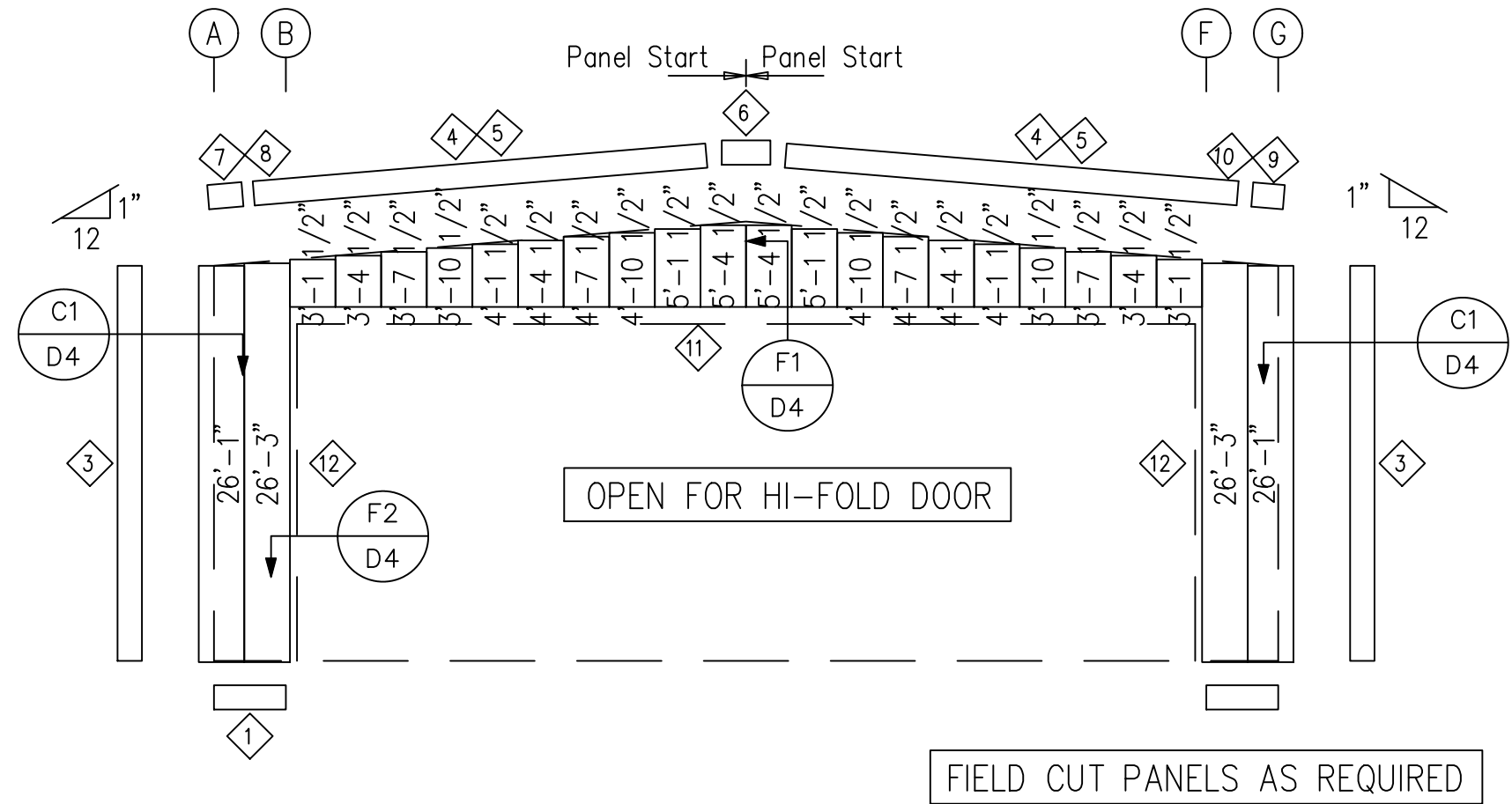
5/22/2024



Detail at Rake Angle

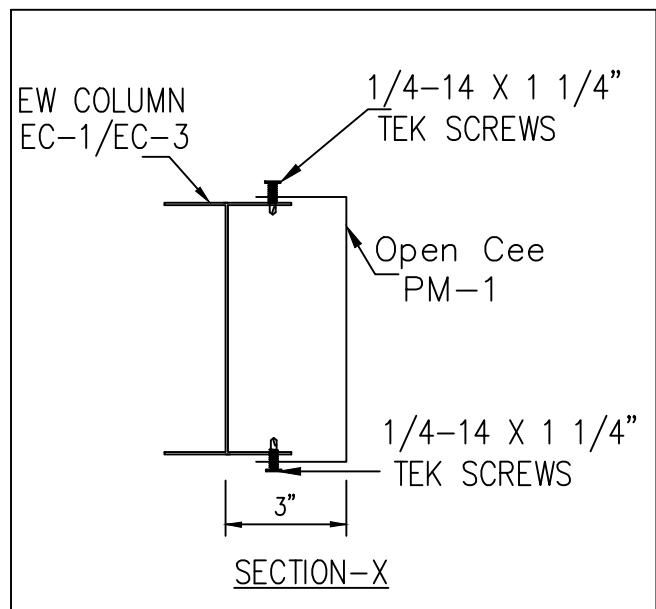


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. Super Span X – SMP NEED COLOR



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.
5. Endwall girts and eave struts do not lap.
6. Field cut and self-tap 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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P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

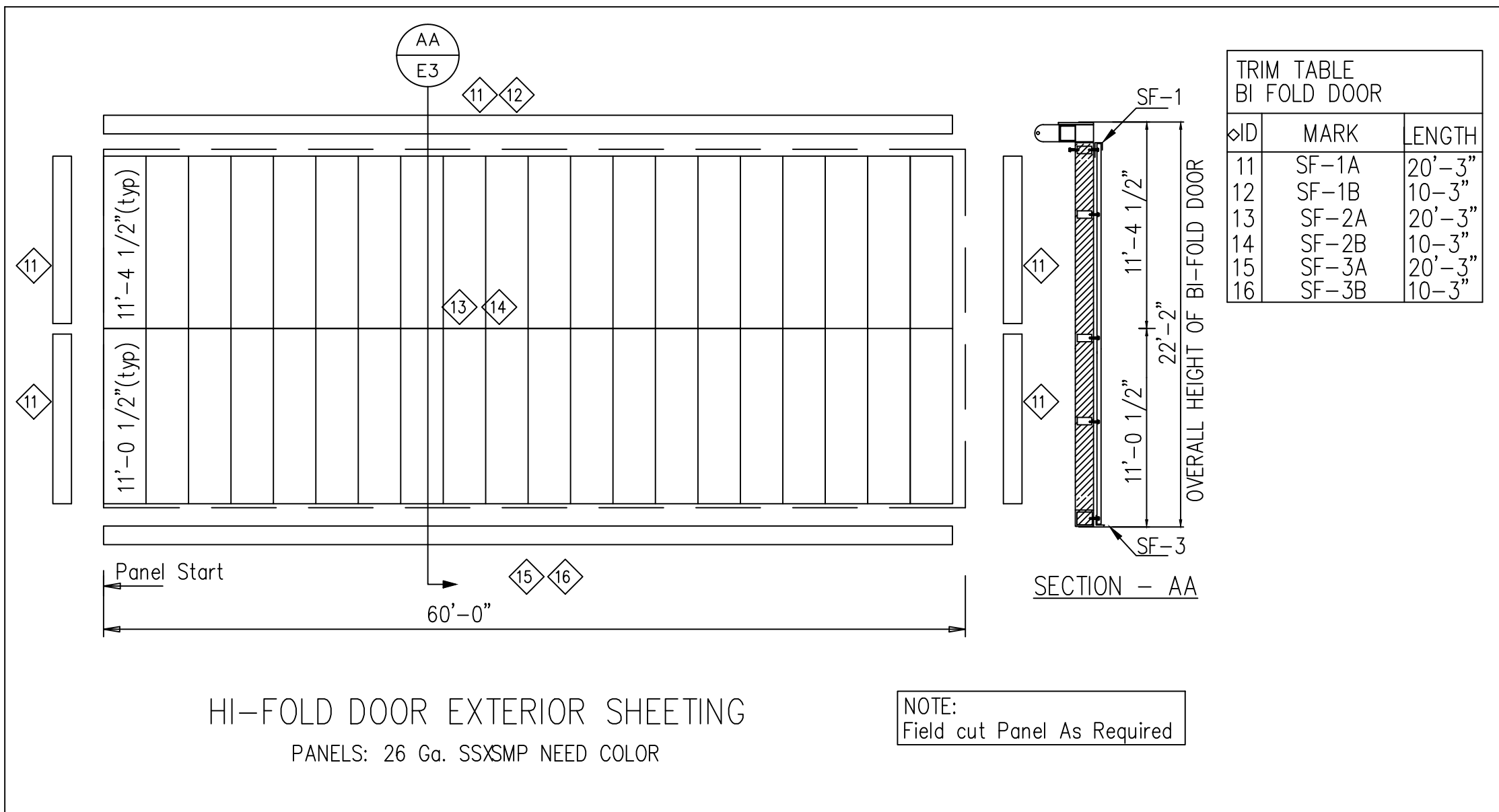
SHEET DESCRIPTION:	BLDG SIZE:
ENDWALL FRAME & SHEETING ELEVATION	70'-0" x 60'-0" x 26'-0"
CUSTOMER:	CUSTOMER LOCATION:
ELI TOMAC	CORTEZ, CO 81321
PROJECT REFERENCE:	
ELI TOMAC	
JOB SITE LOCATION:	JOB SITE COUNTY:
CORTEZ, CO 81321	MONTEZUMA
DWN:	CHK:
PND	PNC
DATE:	ENG:
05.21.24	SJD
JOB NO:	DWG NO:
12630-34529	E3
ISSUE:	
P1	

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
EC-1/FRAME	8	A325	5/8"	1 1/2"
EC-2/FRAME	2	A325	5/8"	1 1/2"
EC-3/FRAME	8	A325	5/8"	1 1/2"
Back Braces	1	A325	3/4"	1 3/4"

TRIM TABLE – THIS WALL ONLY FRAME LINE –1		
ID	PART	LENGTH
1	FL-72	10'-3"
3	CT-102	13'-4"
4	RT-101	15'-3"
5	RT-101	20'-3"
6	SPB	
7	SPCB1L	
8	SF-1L	
9	SPCB1R	
10	SF-1R	
11	HT-101	20'-3"
12	FL-22	20'-3"

MEMBER TABLE FRAME LINE 1	
MARK	PART
HB-1	HSS 6X6X1/4
HB-2	HSS 6X6X1/4
BB-1	L4X4X1/4
EC-1	W10651
EC-2	W10X12
EC-3	W10651
G-1	8X25Z16
G-2	8X25C16
G-3	8X25C16

CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	n1
2	AK244
3	f1



HI-FOLD DOOR EXTERIOR SHEETING

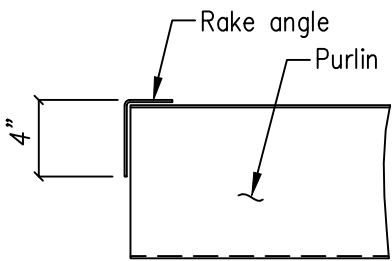
PANELS: 26 Ga. SSXSMP NEED COLOR

NOTE:
Field cut Panel As Required

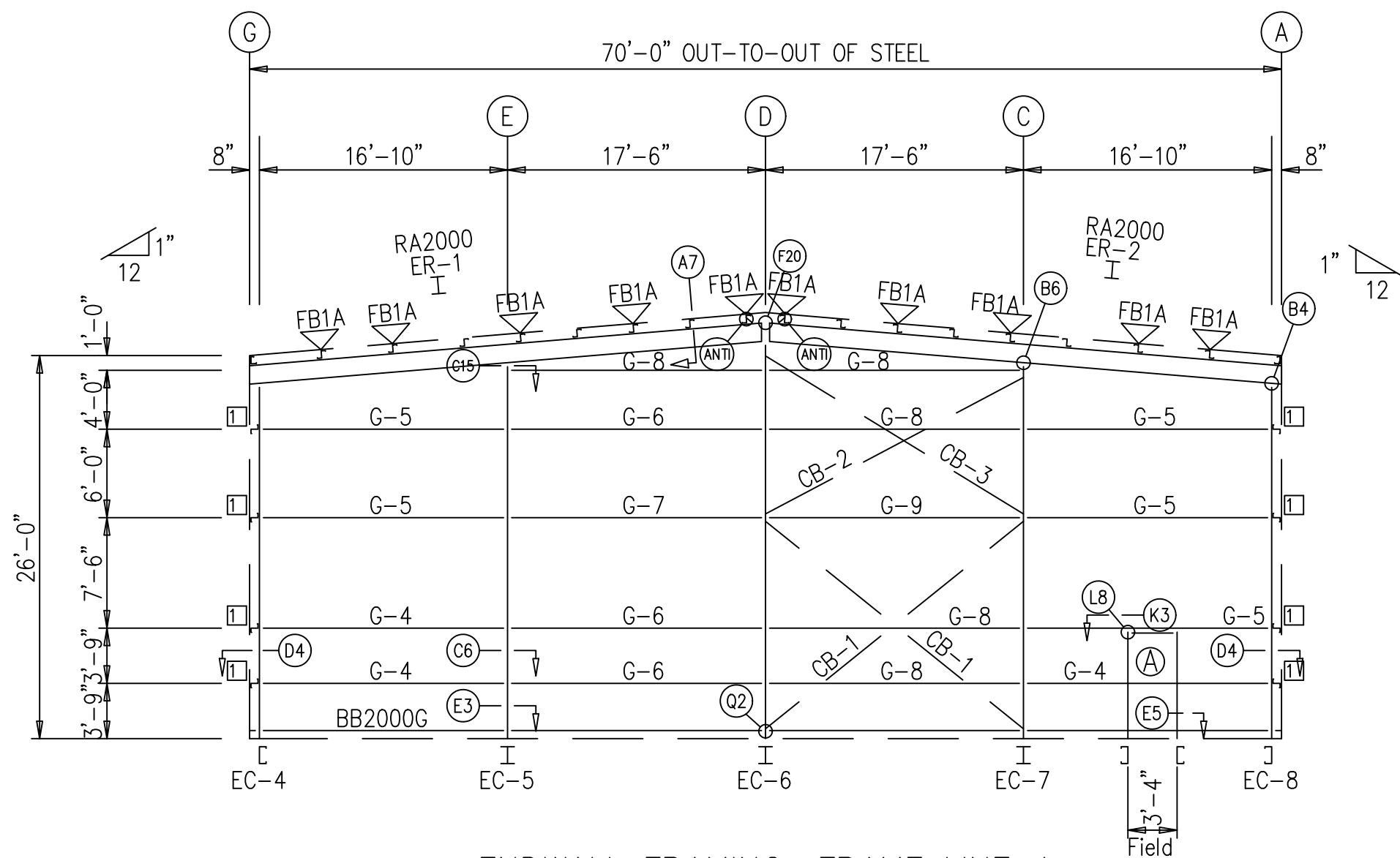
TRIM TABLE BI FOLD DOOR		
ID	MARK	LENGTH
11	SF-1A	20'-3"
12	SF-1B	10-3"
13	SF-2A	20'-3"
14	SF-2B	10-3"
15	SF-3A	20'-3"
16	SF-3B	10-3"



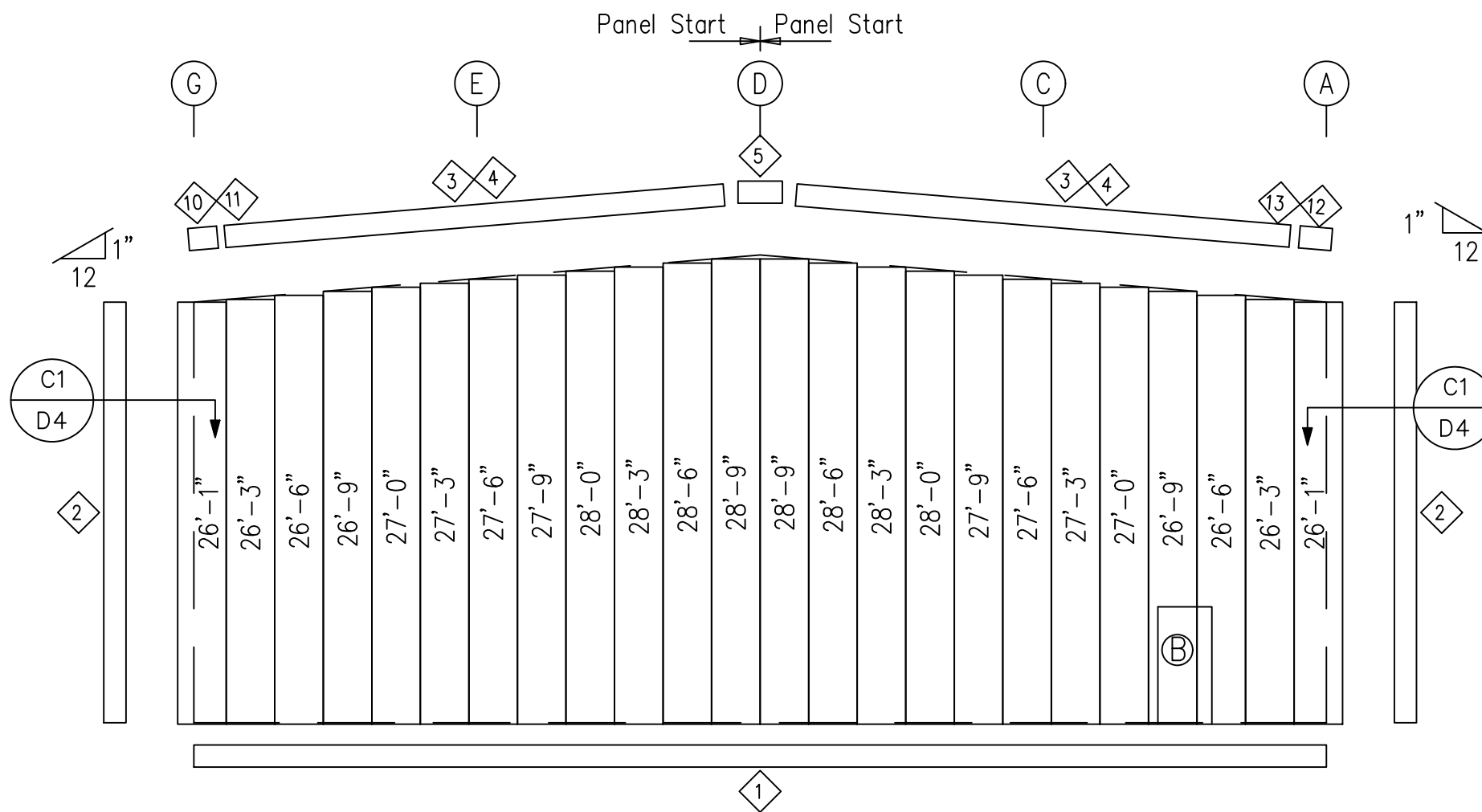
5/22/2024



Detail at Rake Angle



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. Super Span X – SMP NEED COLOR

FIELD CUT PANELS AS REQUIRED

GENERAL SHEETING & TRIM NOTES

1. Refer to erection drawings for rake angle locations.
2. Roof member screws are at 12" o.c. Eave and 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.
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:
(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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Final drawings for construction.



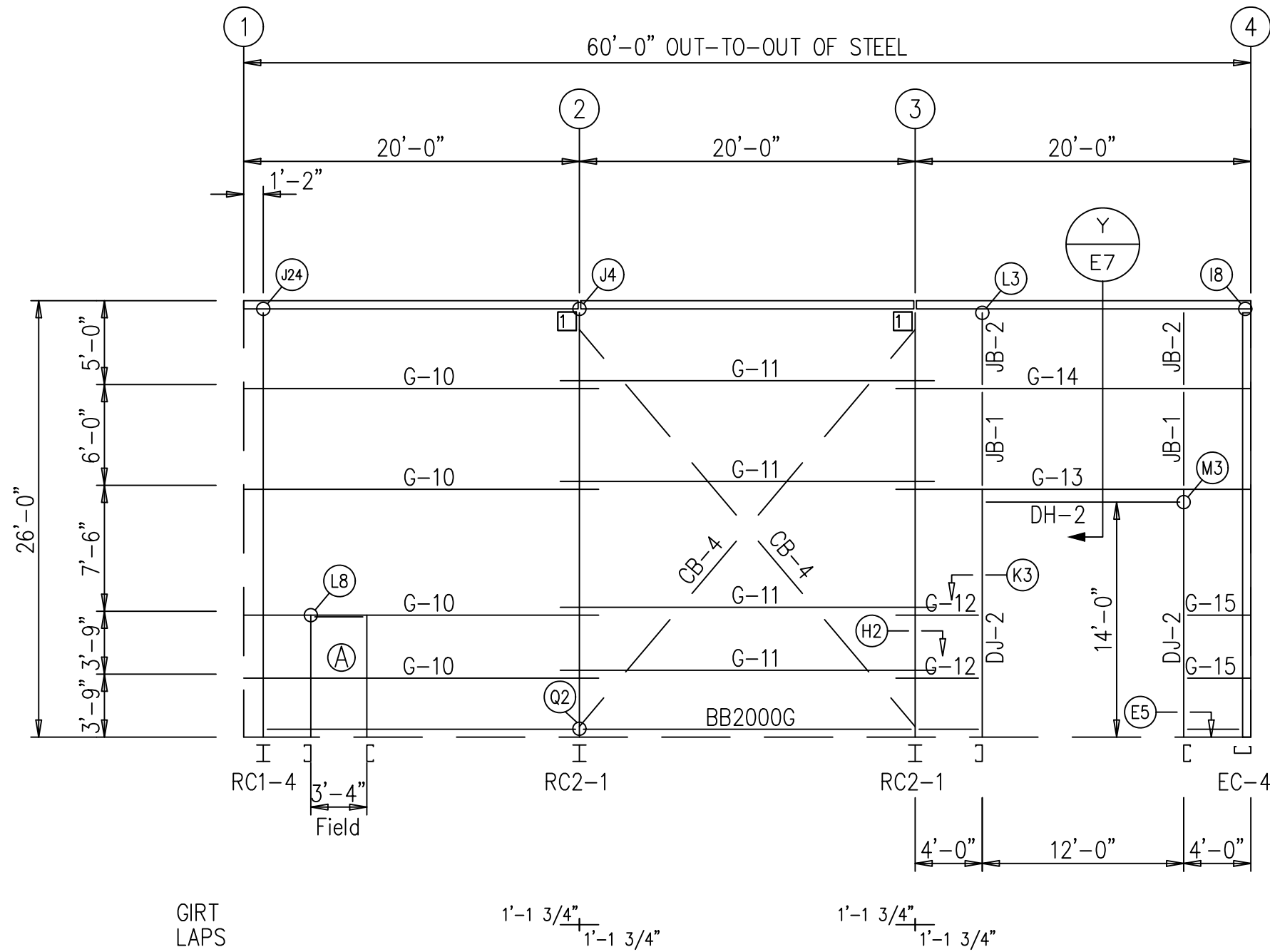
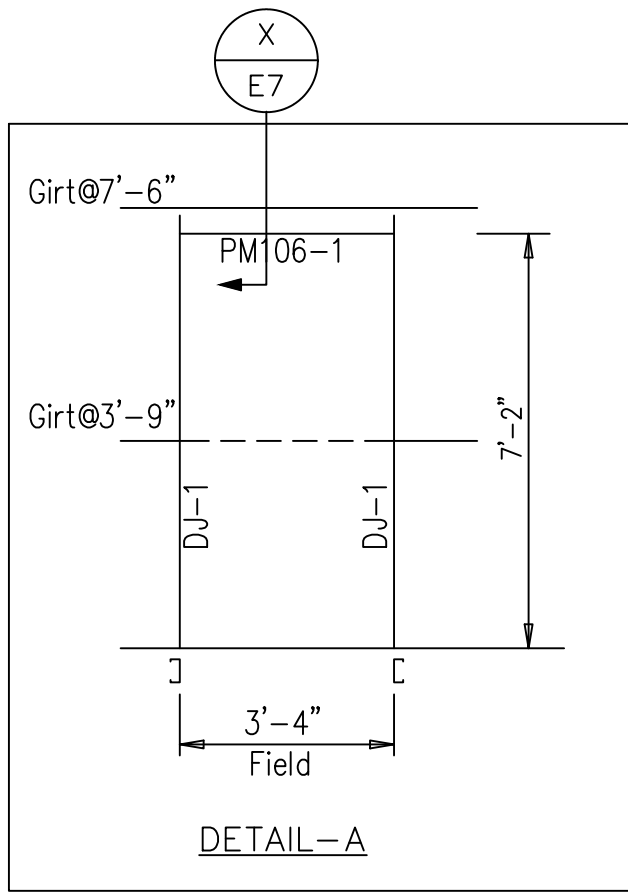
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

The Engineer whose seal and signature appear on these documents represents Whirlwind Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Whirlwind Steel Buildings, Inc., and excludes part such as doors, windows, foundation design, and erection of the building.

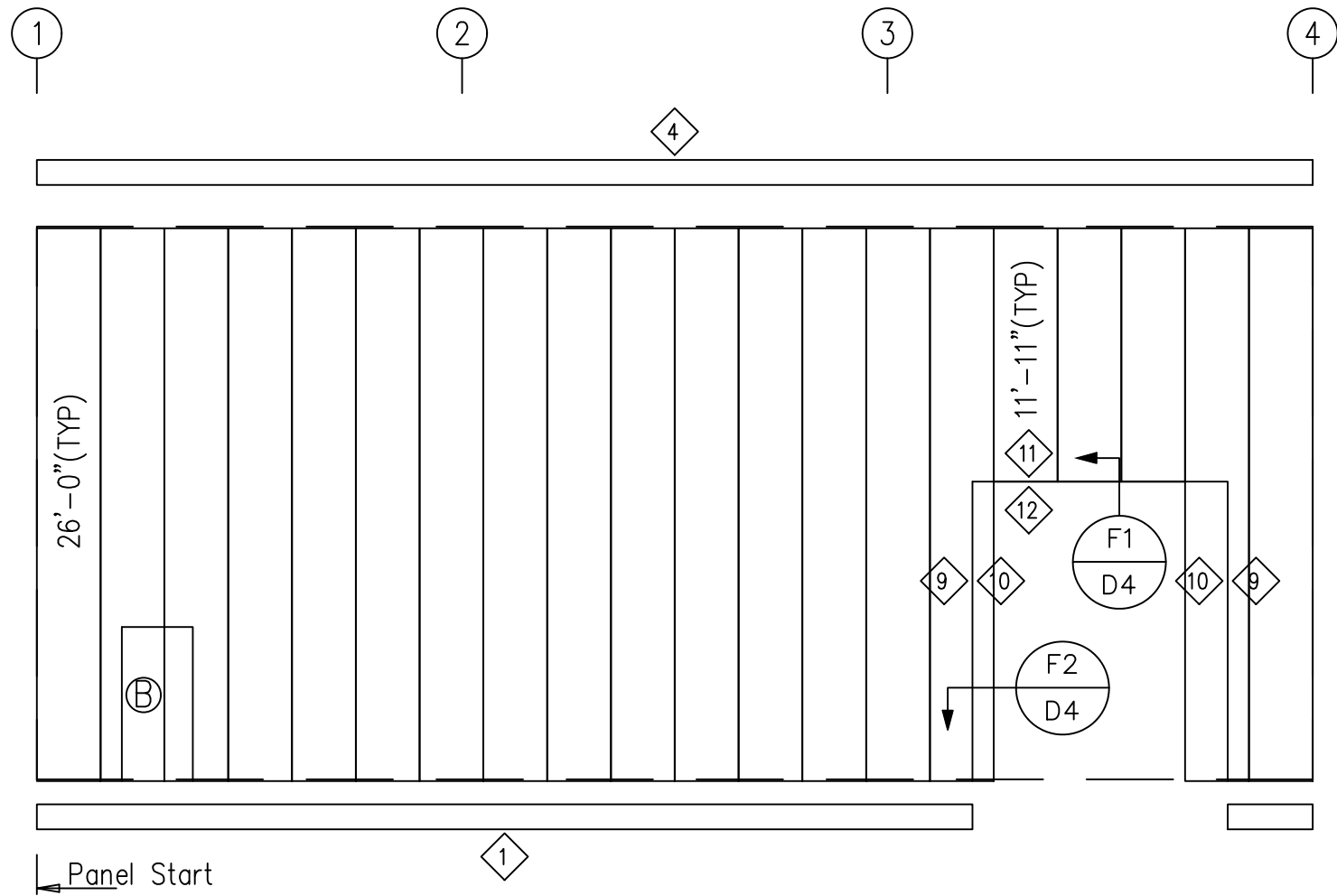
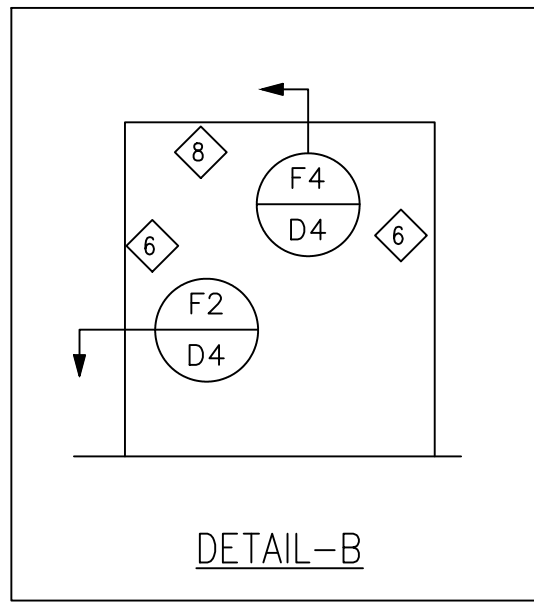
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CUSTOMER: ELI TOMAC		CUSTOMER LOCATION: CORTEZ, CO 81321	
PROJECT REFERENCE: ELI TOMAC		JOBSITE LOCATION: CORTEZ, CO 81321	
JOBSITE COUNTY: MONTEZUMA		DWG NO: E4	
DWN: PND	CHK: PNC	DATE: 05.21.24	ENG: SJD
JOB NO: 12630-34529		DWG NO: E4	
P1		P1	



5/22/2024



SIDEWALL FRAMING: FRAME LINE G



SIDEWALL SHEETING & TRIM: FRAME LINE G

PANELS: 26 Ga. Super Span X – NEED COLOR

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.
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- Gutter, rake, & eave trim lap 2". All other trims lap 1".
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- 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.
- Metal shavings must be swept from the roof each day to avoid surface rusting.
- Windows and louvers must be installed before sheeting the walls.
- 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

- Angles are marked by their length in feet and inches.
- Field cut or lap angles as required to fit.
- Flange braces are marked by their length in decimal inches.
- Outside flange of girt turns down unless noted.
- Endwall girts and eave struts do not lap.
- Field cut and self-top girts at walk doors.
- Field slot girts for brace rods or cables.
- Field locate windows and walk doors.
- Field weld all splices at 14 gauge valley gutters.
- 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
- Locate top of roof framed openings flush with the pan of the roof panel.
- Some field drilling at framed openings may be required. Field drill 9/16" diameter holes.
- 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.
- Sub-jambs for overhead doors, if required, is not furnished by Metal Building Provider

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Final drawings for construction.

METALBUILDING
OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION: SIDEWALL FRAME & SHEETING ELEVATION				BLDG SIZE: 70'-0" x 60'-0" x 26'-0"			
CUSTOMER: ELI TOMAC				CUSTOMER LOCATION: CORTEZ, CO 81321			
PROJECT REFERENCE: ELI TOMAC							
JOB SITE LOCATION: CORTEZ, CO 81321				JOB SITE COUNTY: MONTEZUMA			
DWN: PND	CHK: PNC	DATE: 05.21.24	ENG: SJD	JOB NO: 12630-34529	DWG NO: E5	ISSUE: P1	



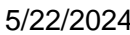
5/22/2024

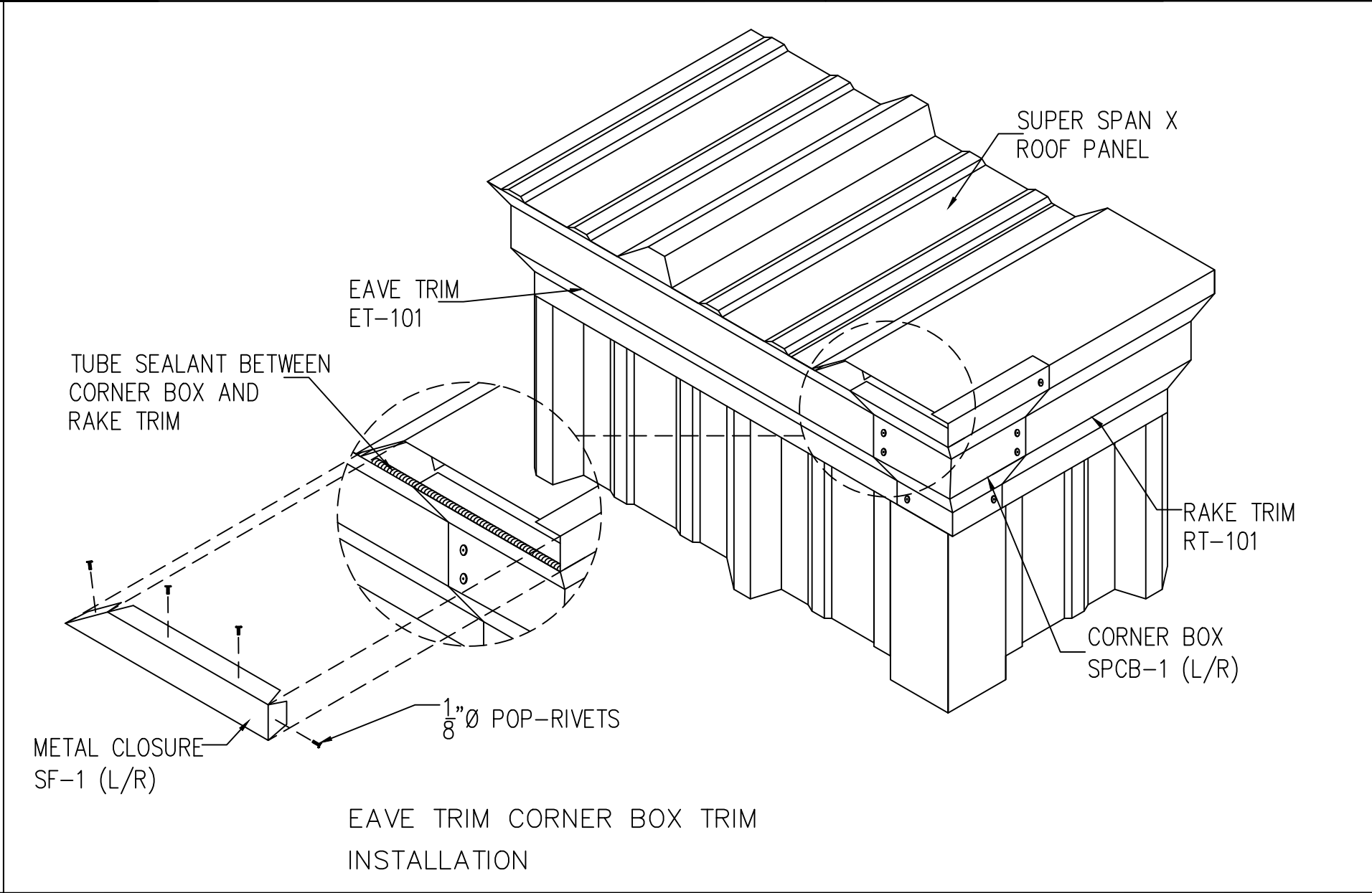
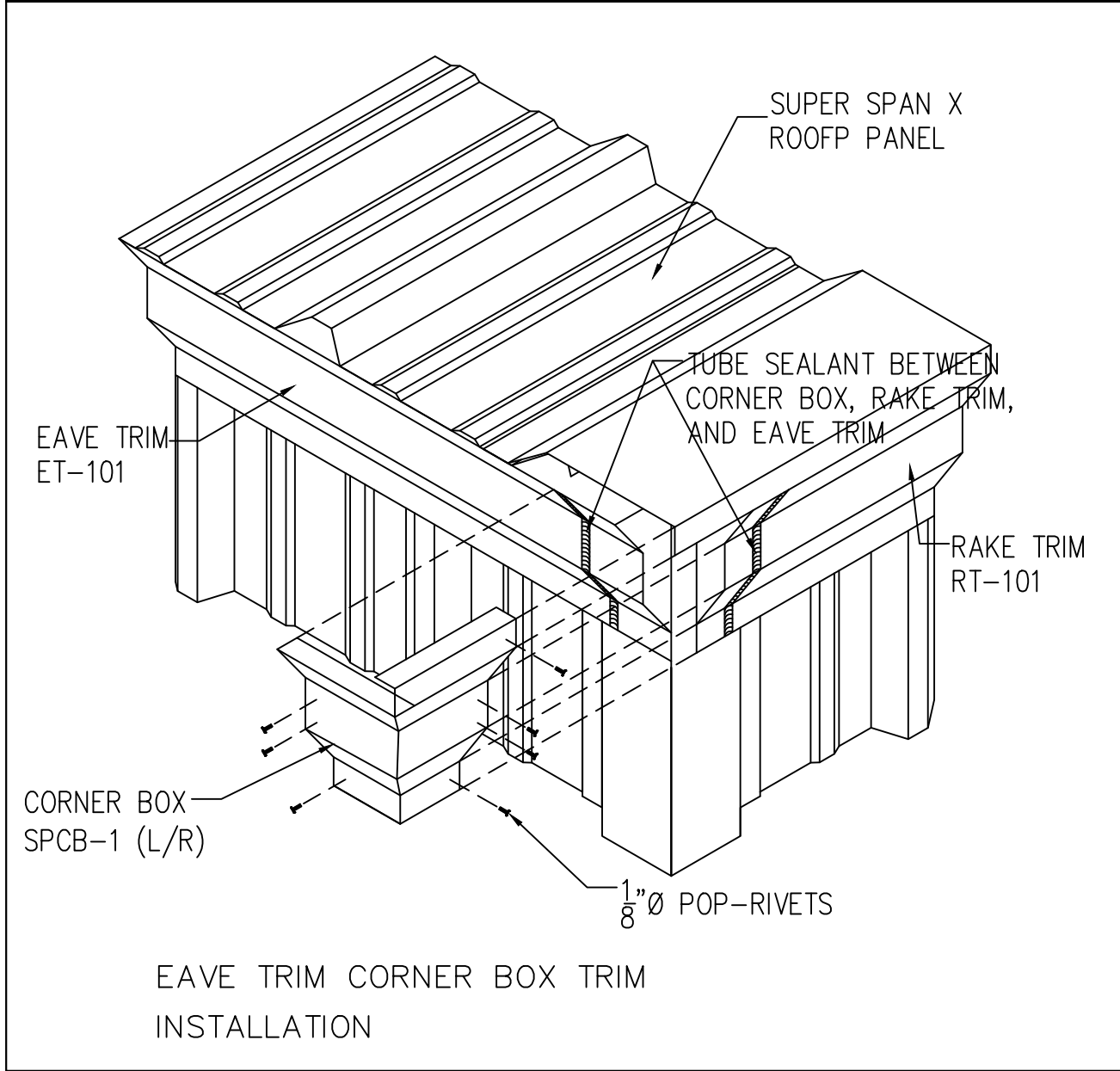
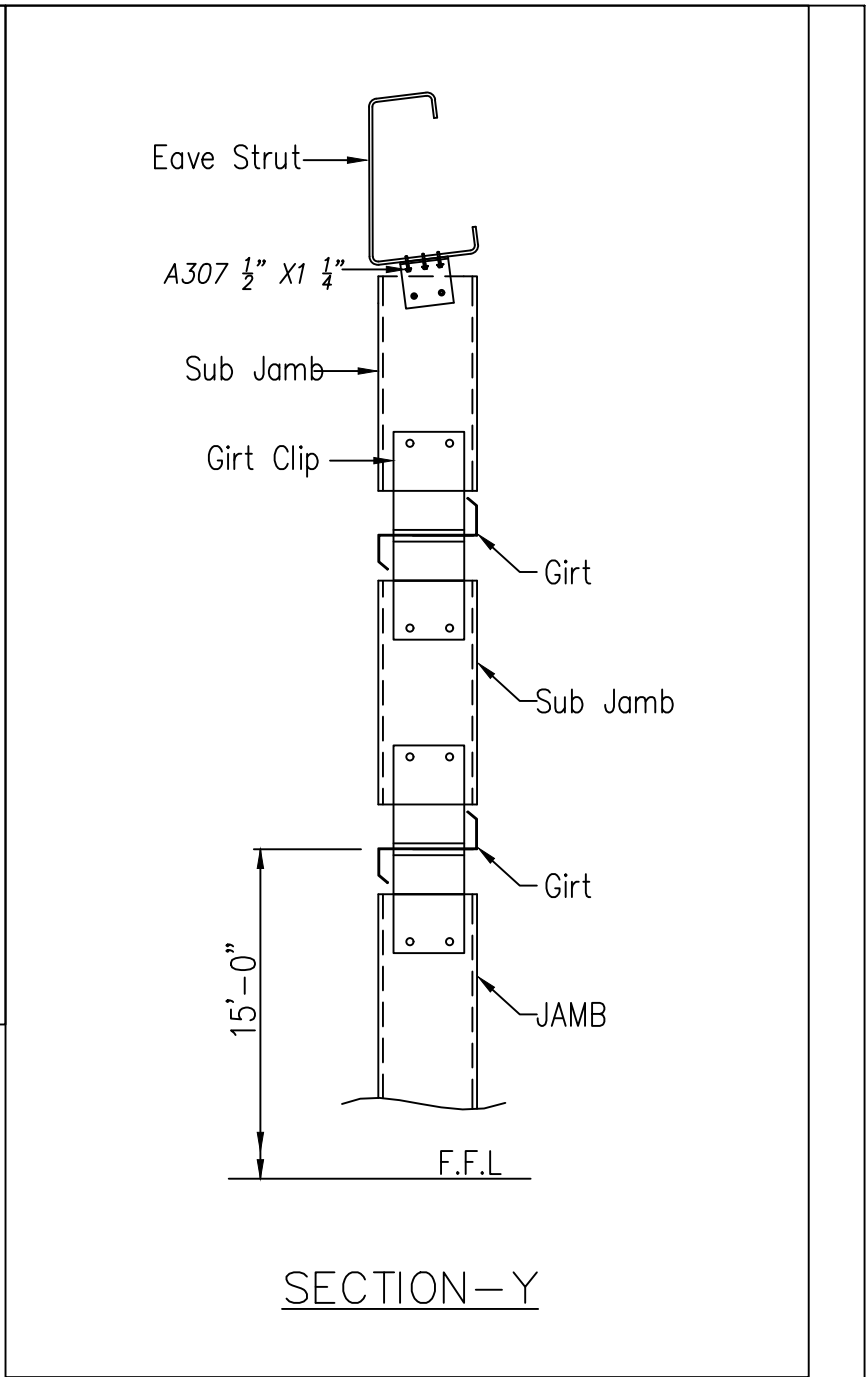
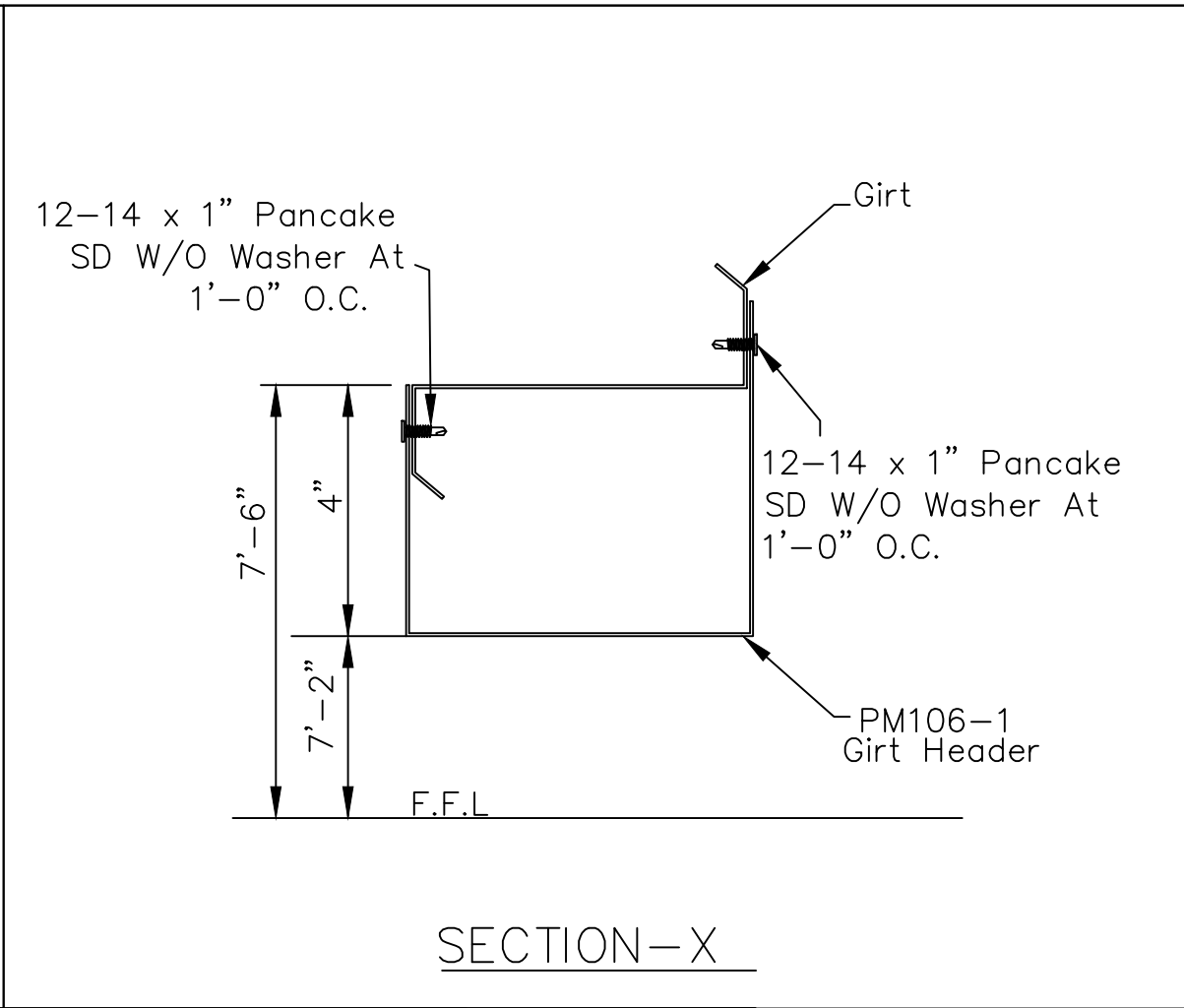
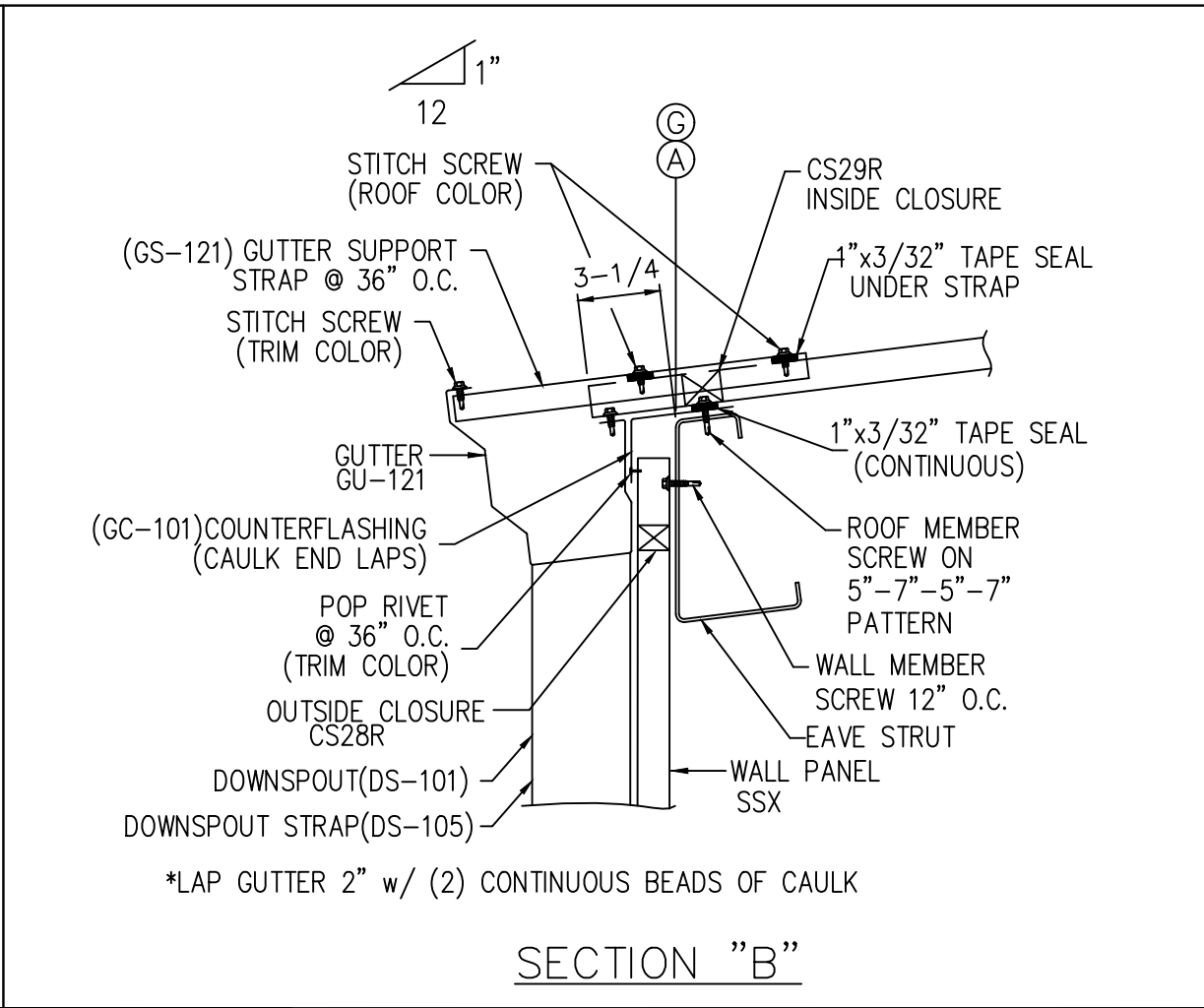
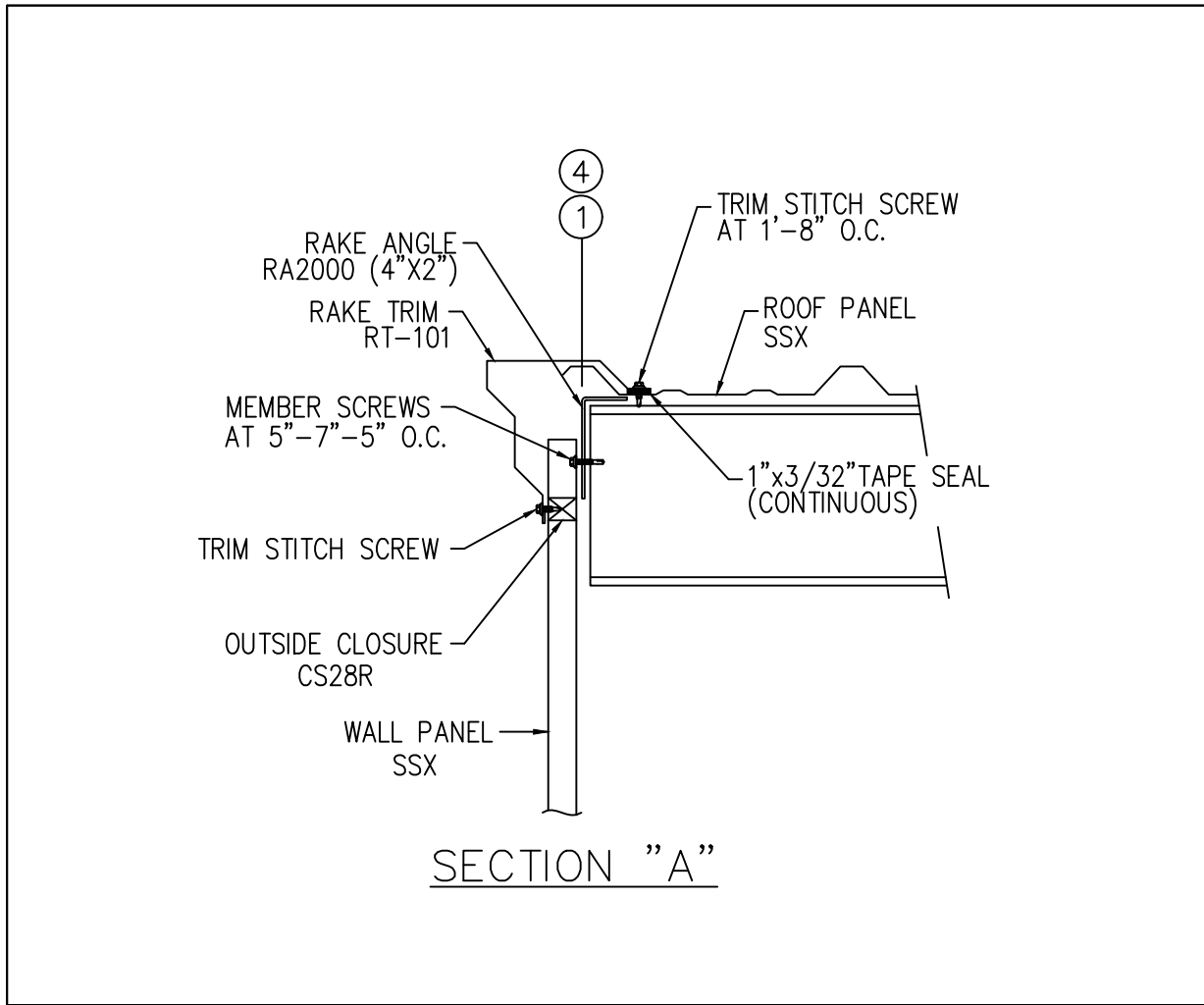
TRIM TABLE – THIS WALL ONLY FRAME LINE –G		
ID	PART	LENGTH
1	FL-72	10'-3"
4	ET-101	20'-3"
6	FL-22	7'-6"
8	HT-101	3'-8"
9	MT-116B	14'-4"
10	FL-22	14'-4"
11	MT-116B	12'-4"
12	HT-101	12'-4"

MEMBER TABLE FRAME LINE G	
MARK	PART
DJ-1	8M25C14
DJ-2	8M35C14
PM106-1	PM106
DH-2	8M25C14
G-10	8X25Z16
G-11	8X25Z16
G-12	8X25Z16
G-13	8X25Z14
G-14	8X25Z16
G-15	8X25Z16
CB-4	0.50_CBL
JB-1	8M35C14
JB-2	8M35C14

CONNECTION PLATES FRAME LINE G	
ID	MARK/PART
1	AK106

CONNECTION PLATES	
FRAME LINE A	
<input type="checkbox"/> ID	MARK/PART
1	AK106





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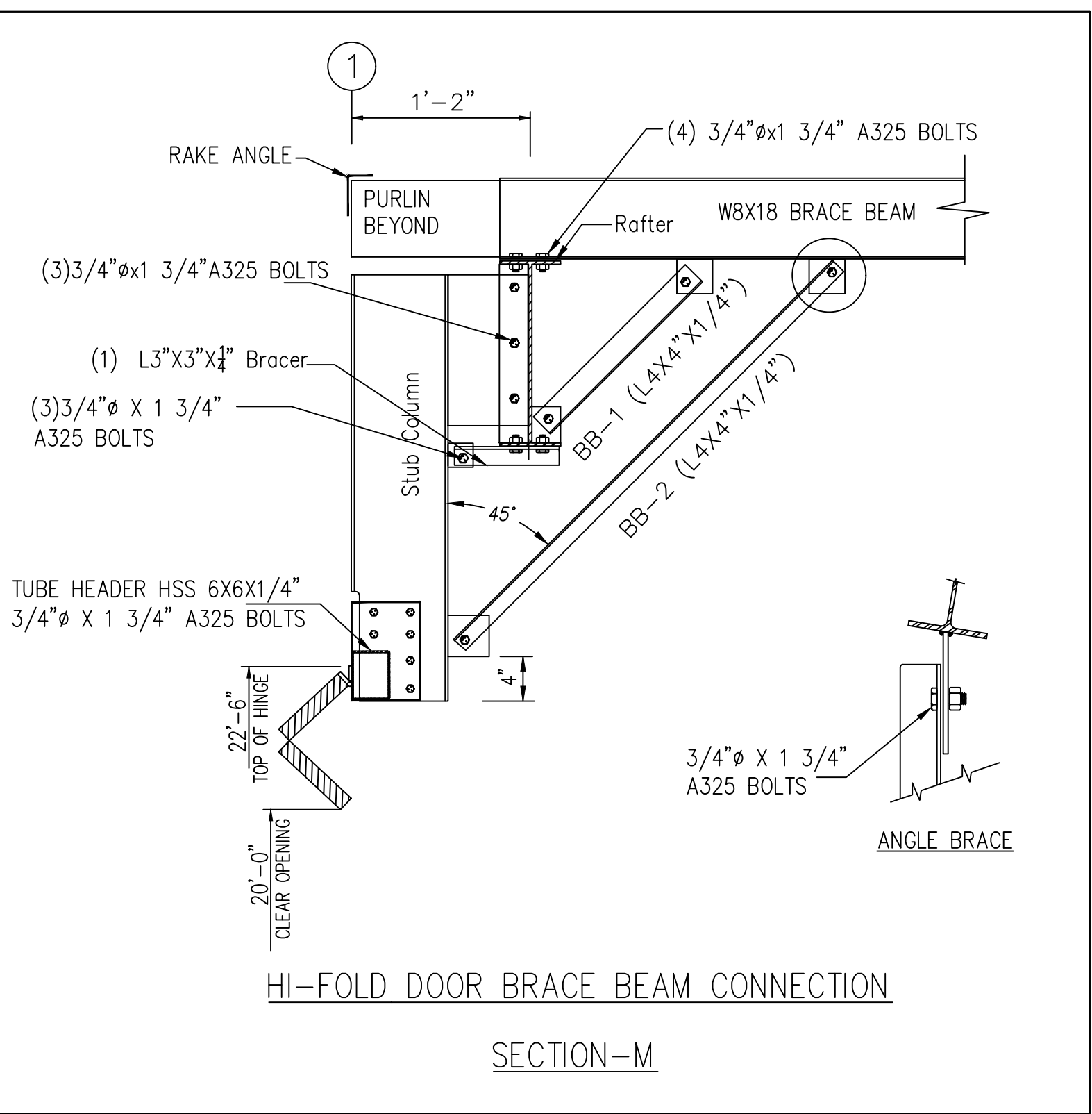
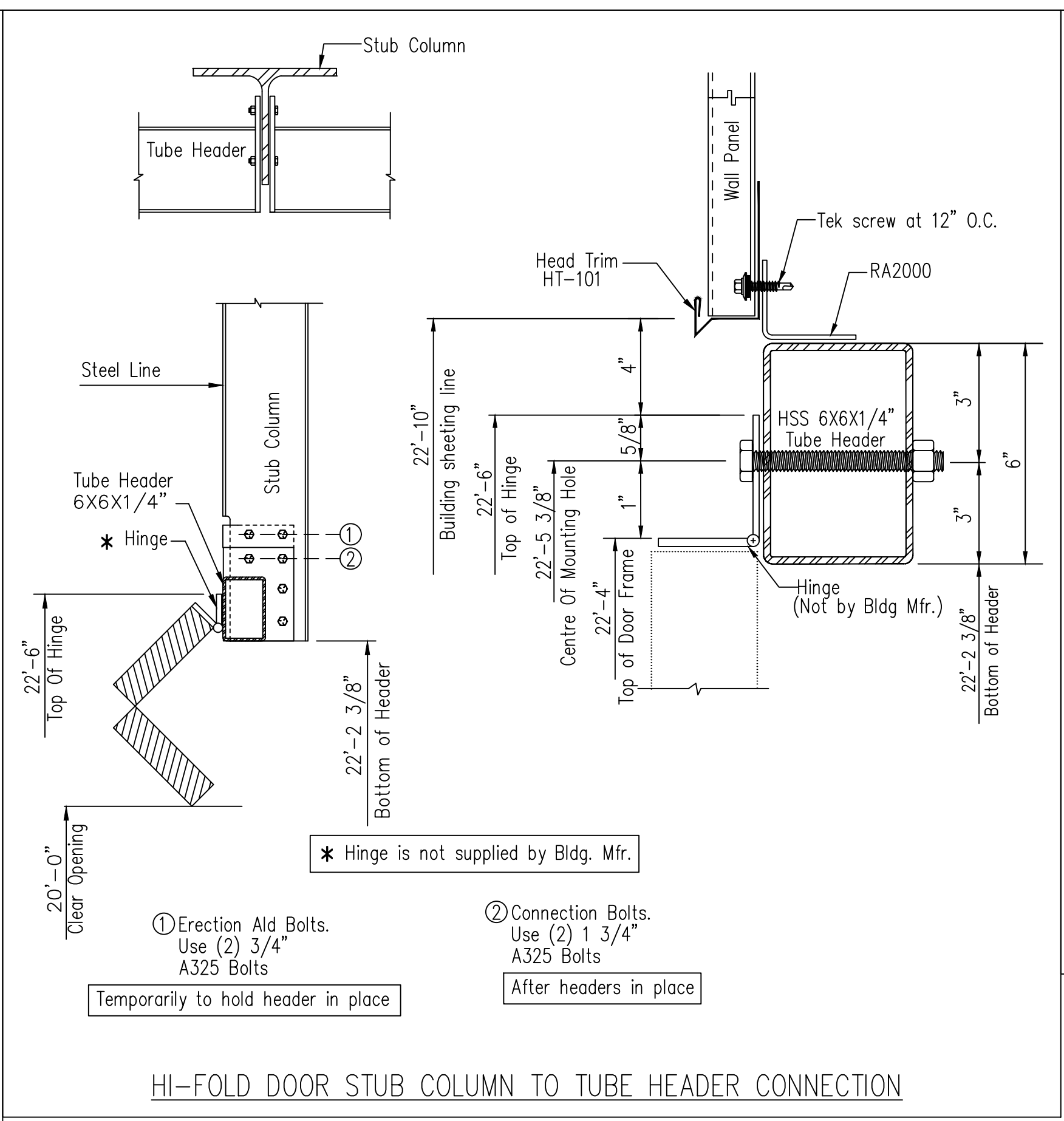
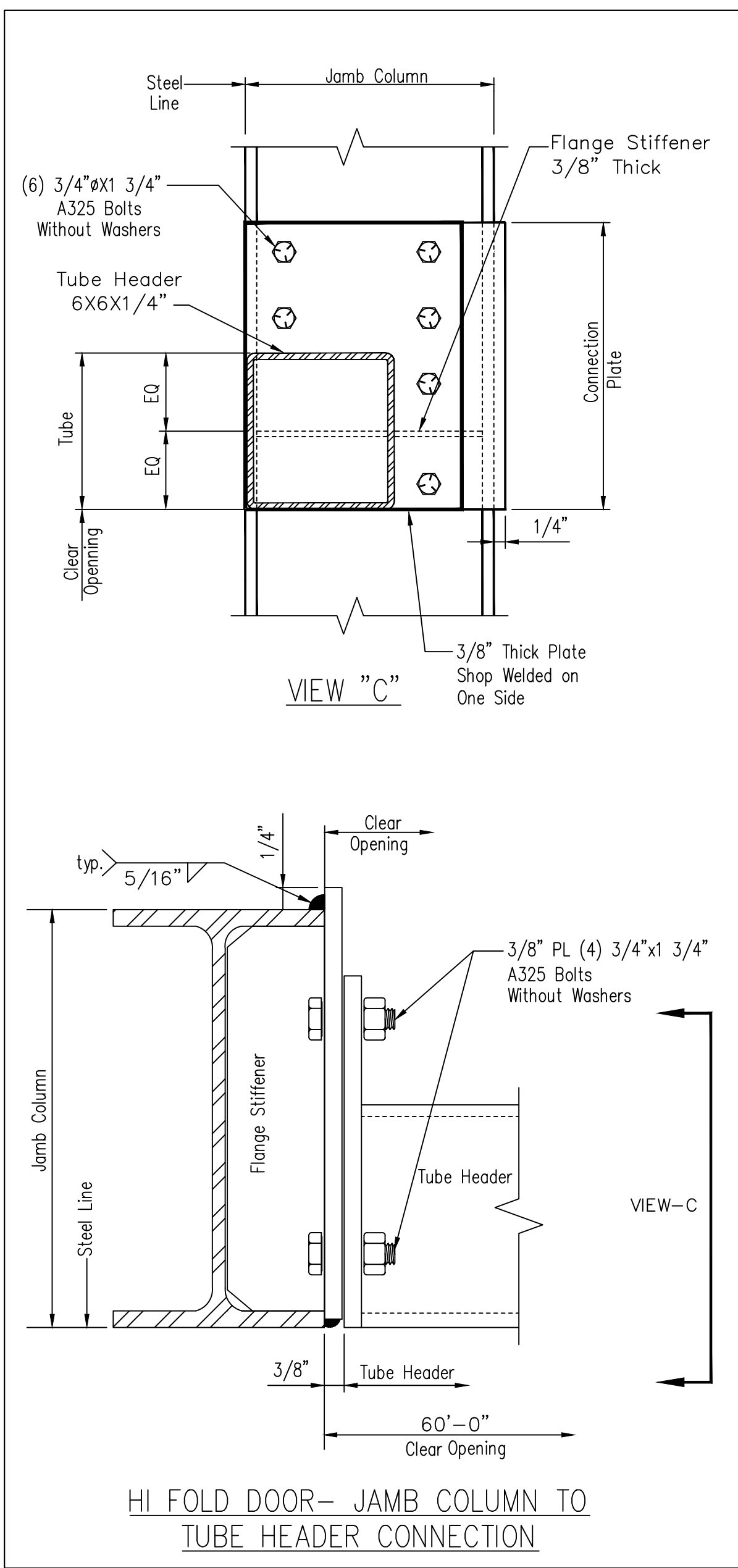


ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION:		BLDG SIZE:	
BUILDING SECTIONS		70'-0" x 60'-0" x 26'-0"	
CUSTOMER:		CUSTOMER LOCATION:	
ELI TOMAC		CORTEZ, CO 81321	
PROJECT REFERENCE:			
ELI TOMAC			
JOBSITE LOCATION:		JOBSITE COUNTY:	
CORTEZ, CO 81321		MONTEZUMA	
DWN:	CHK:	DATE:	ENG:
PND	PNC	05.21.24	SJD
JOB NO:		DWG NO:	
12630-34529		E7	
ISSUE:			
P1			



5/22/2024



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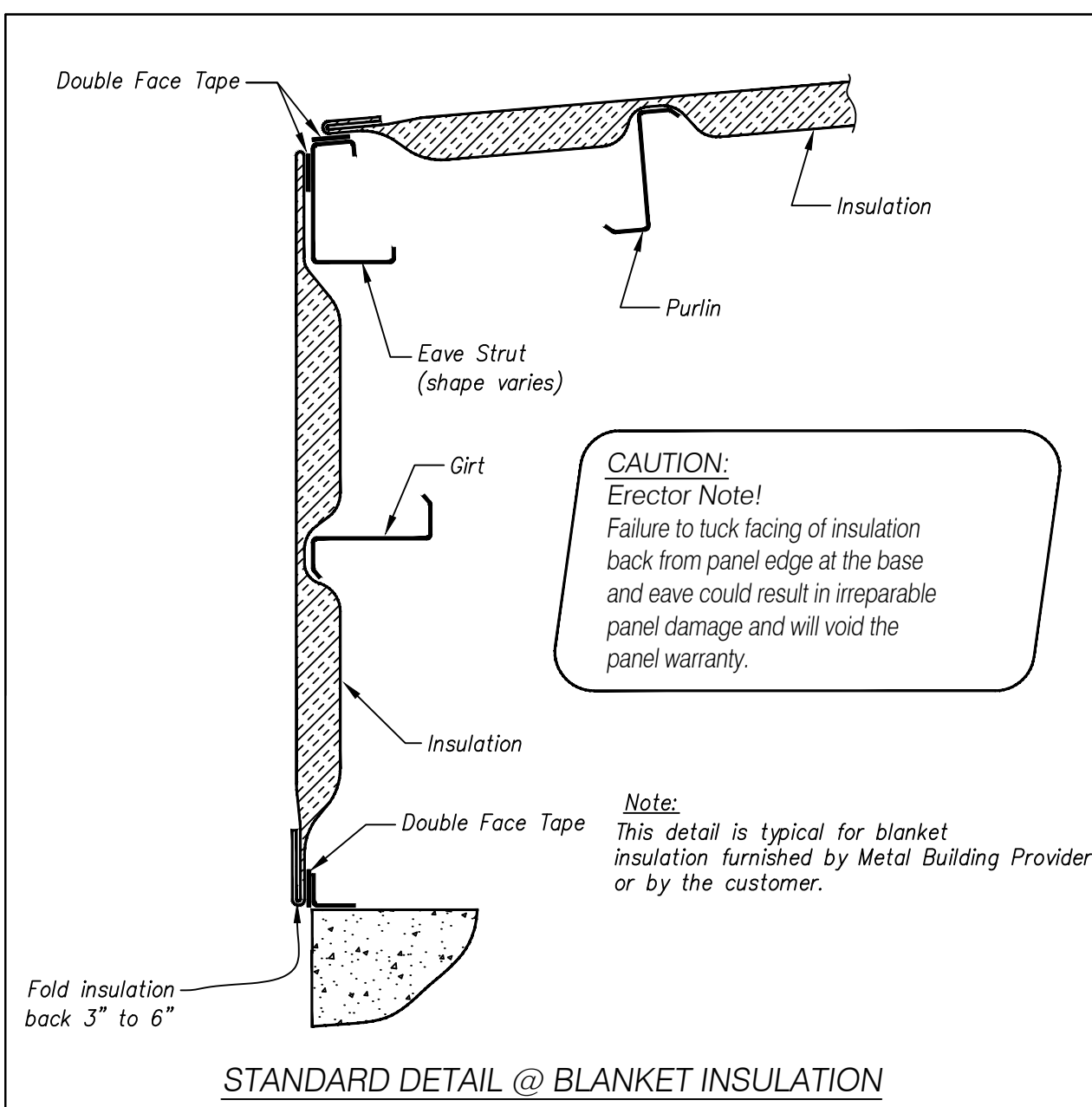


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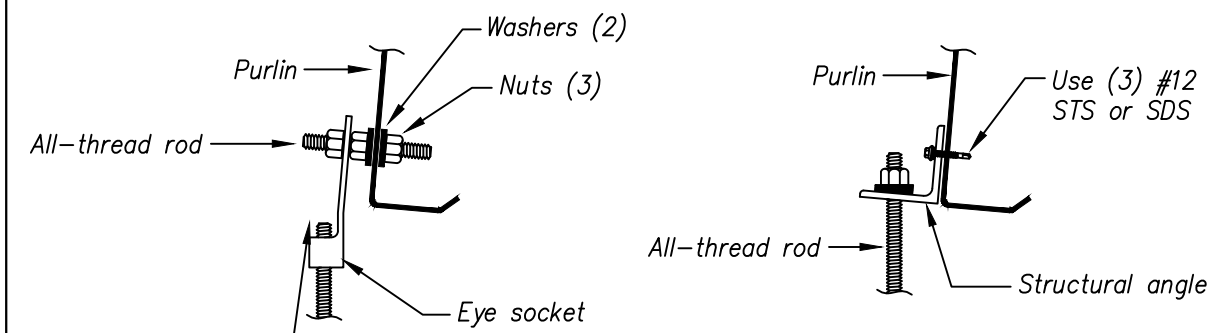
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PROJECT REFERENCE: ELI TOMAC			
JOBSITE LOCATION: CORTEZ, CO 81321		JOBSITE COUNTY: MONTEZUMA	
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JOB NO: 12630-34529	DWG NO: E8	ISSUE: P1	



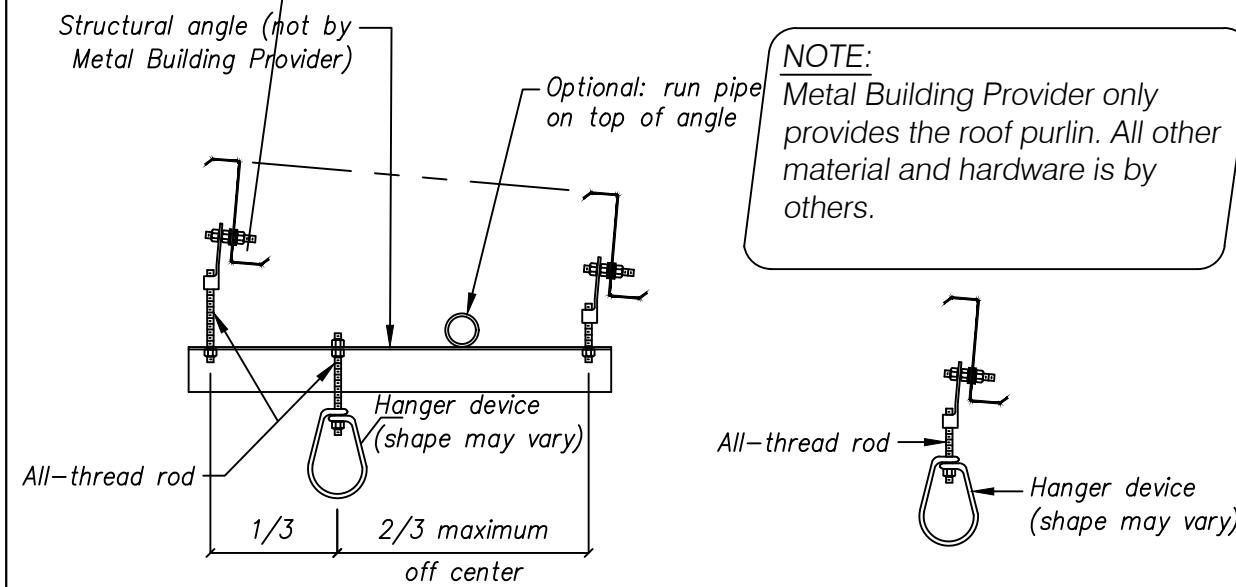
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STANDARD DETAIL @ BLANKET INSULATION

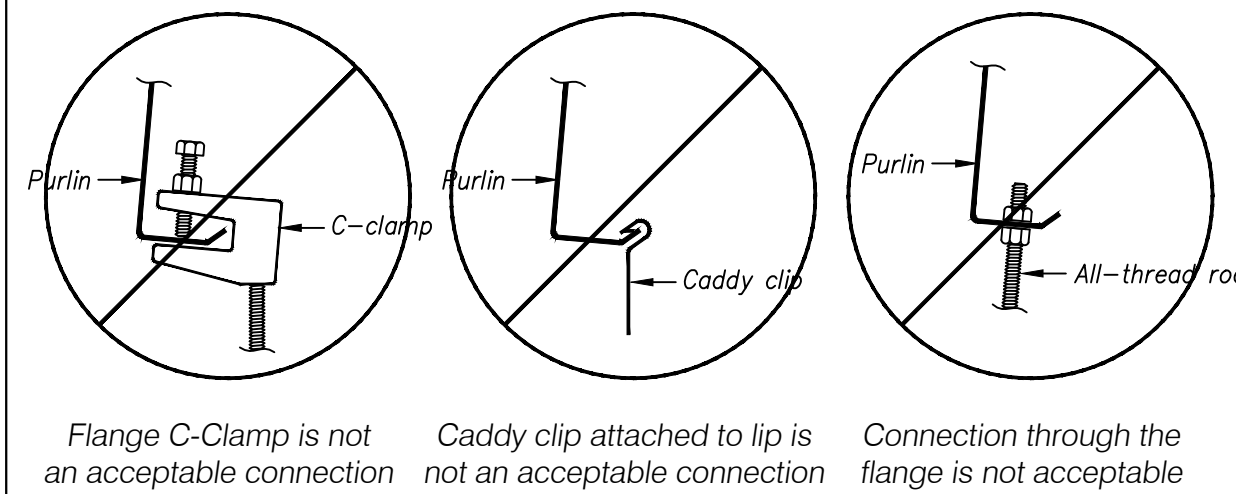


ACCEPTABLE CONNECTION METHODS

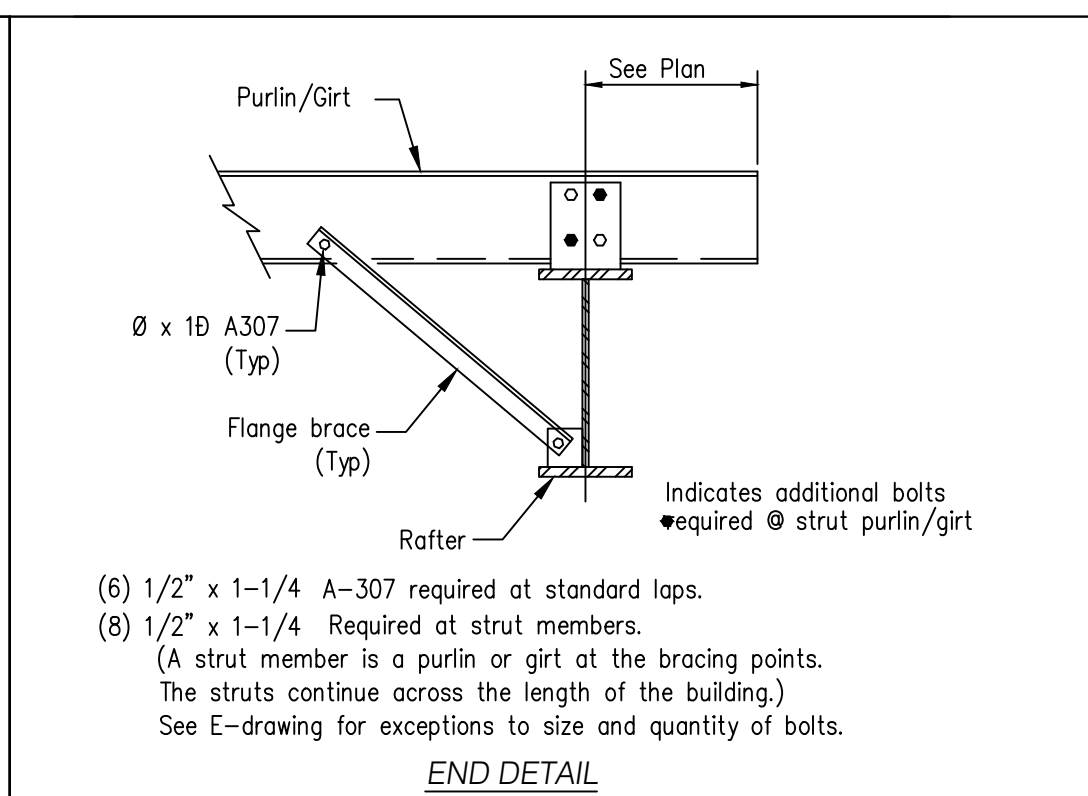


TRAPEZE HANGER ~ 4" MAX. PIPE

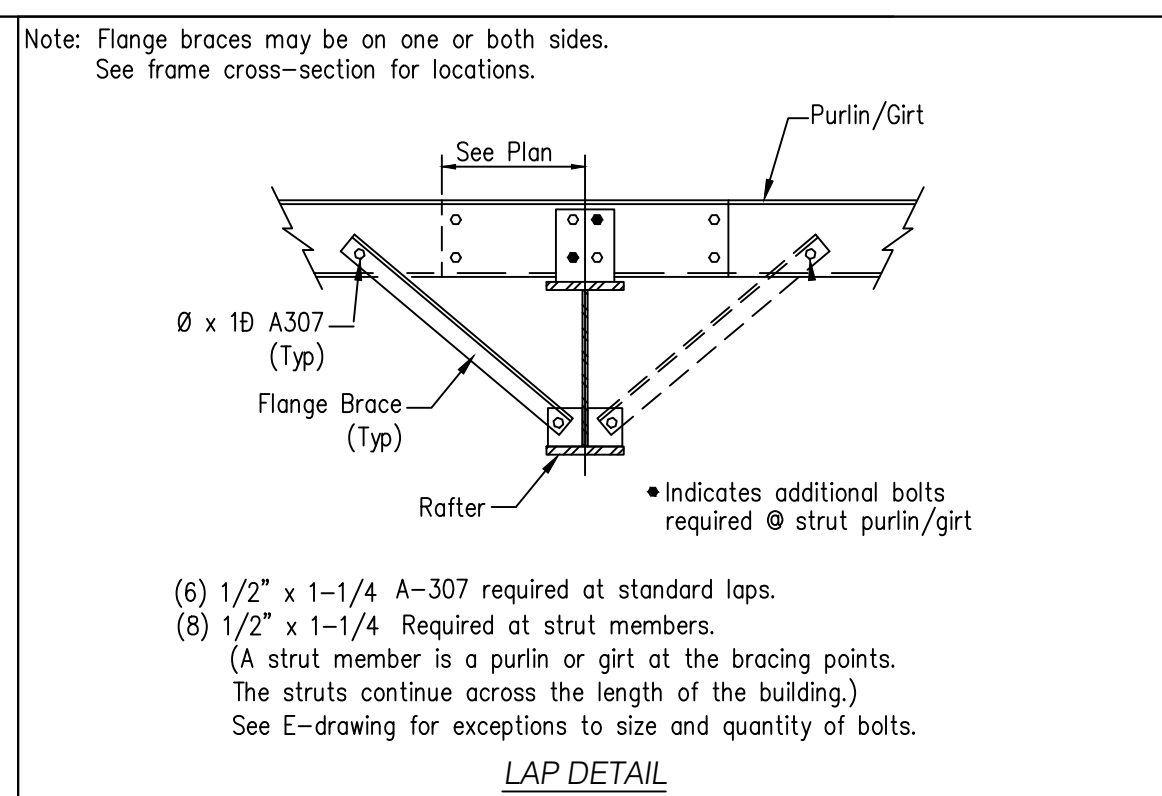
HANGER ~ 2-1/2" MAX. PIPE



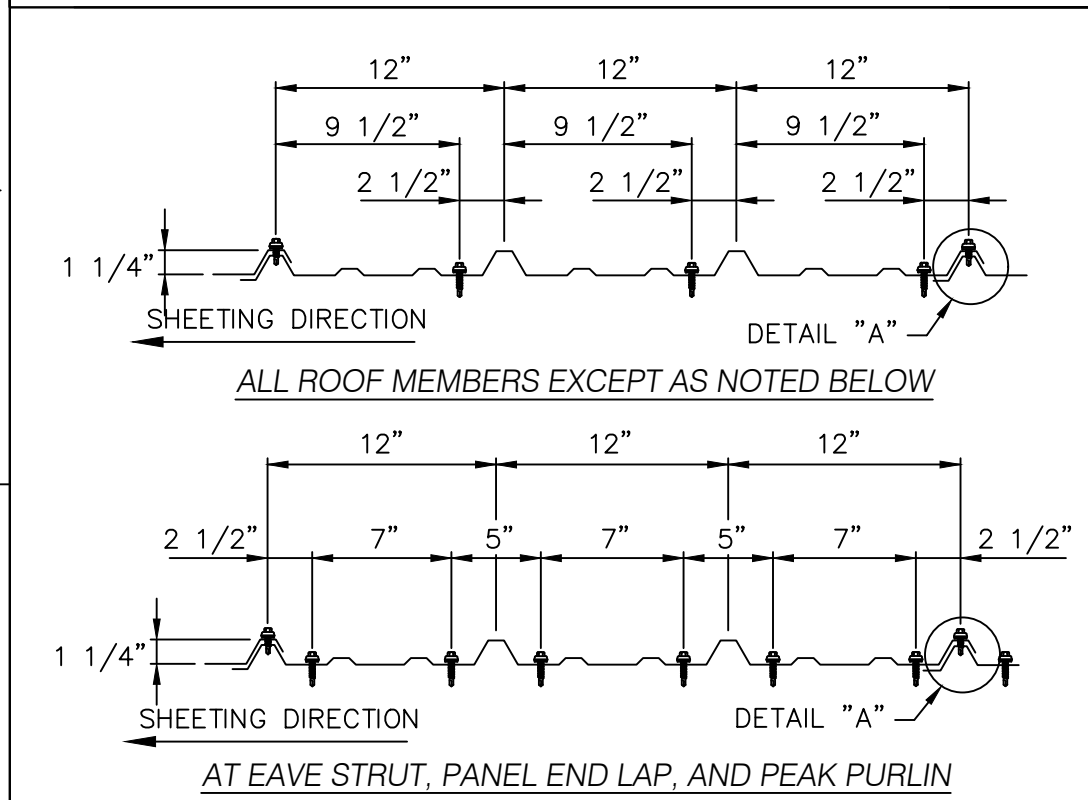
ACCEPTABLE CONNECTIONS FOR ALL COLLATERAL LOADS FOR HANGER ATTACHMENT



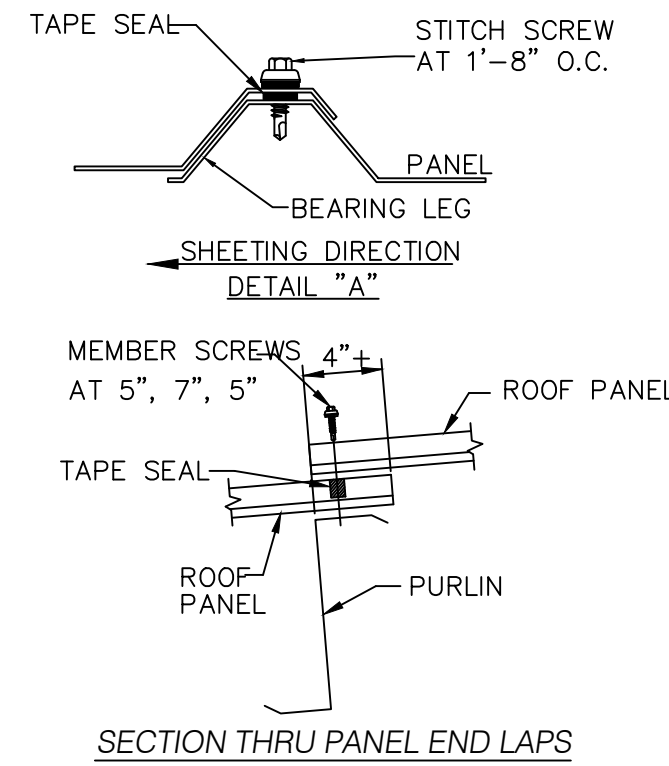
END DETAIL



LAP DETAIL

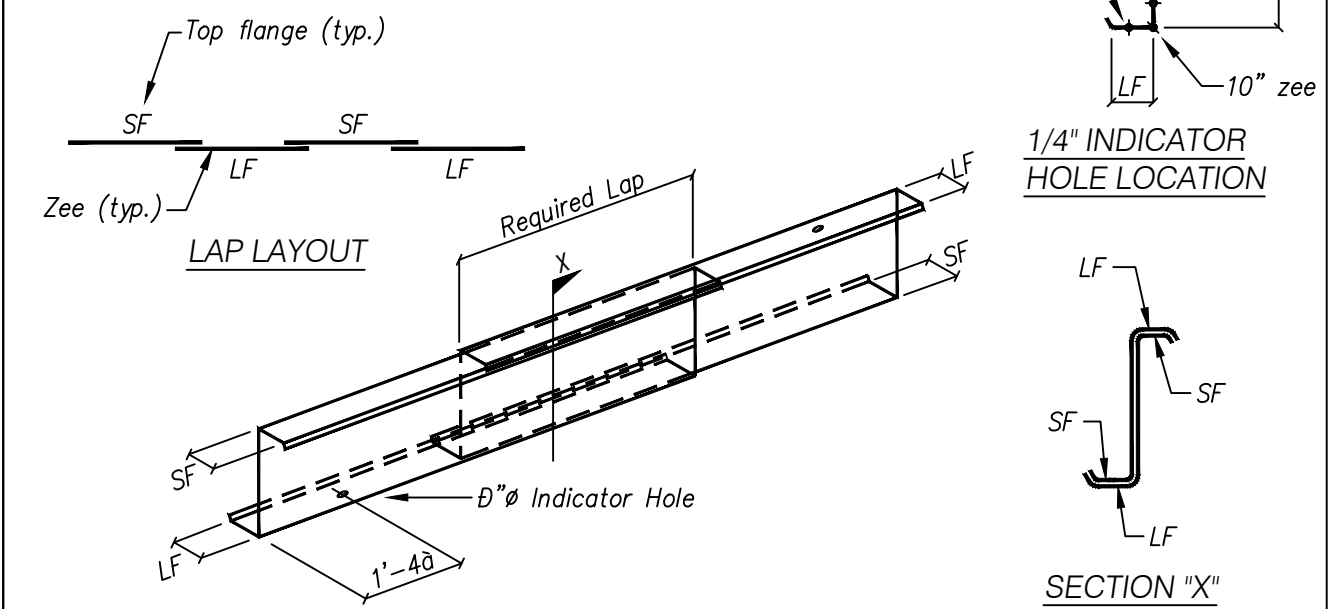


FASTENER LOCATION FOR "SUPER SPAN X" ROOF PANEL



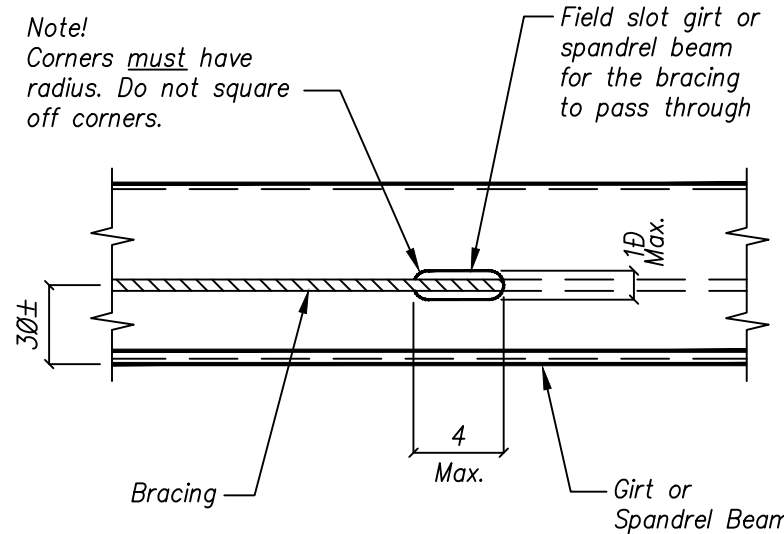
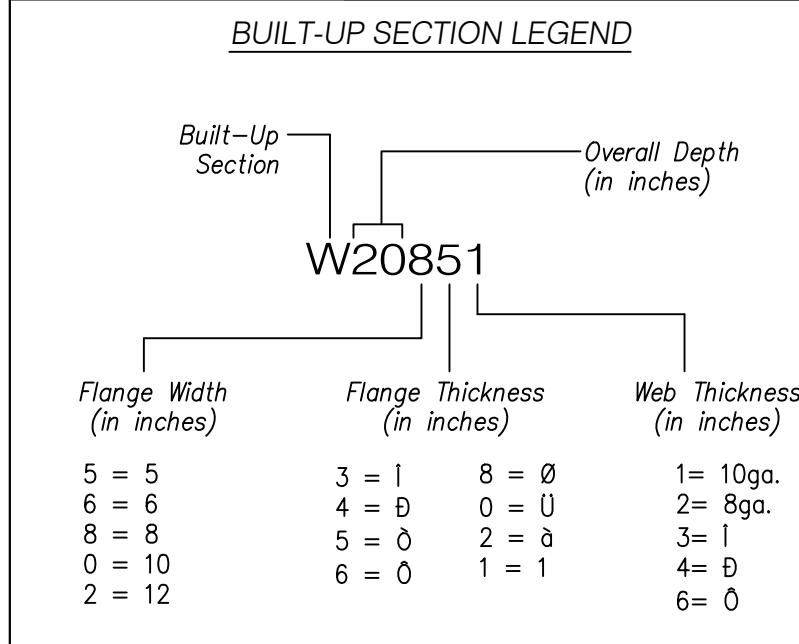
SECTION THRU PANEL END LAPS

- Notes:
1. Rotate each zee as required to alternate between long and short flanges.
 2. The Ø" hole 1'-4" from each end is located nearest the long flange.
 3. Lap connection bolts are omitted for clarity.

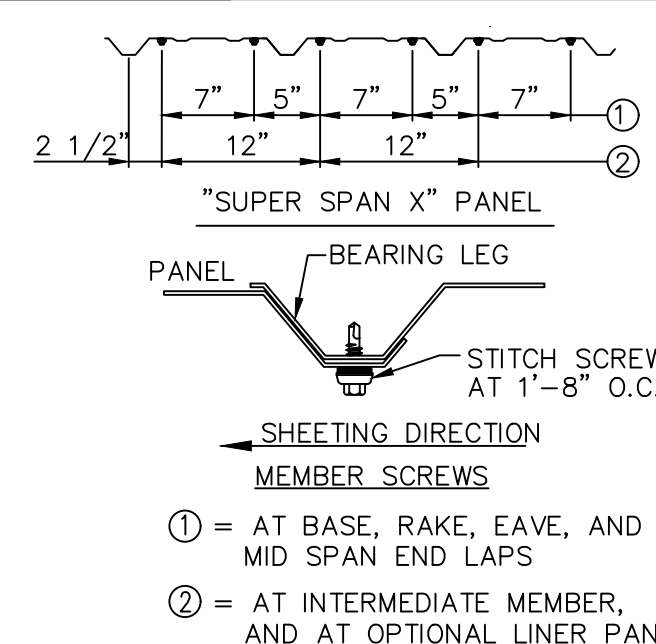


LF = Long Flange
SF = Short Flange

ZEE LAP DETAIL @ THE LONG AND SHORT FLANGES



DETAIL @ FIELD LOCATED BRACING SLOT



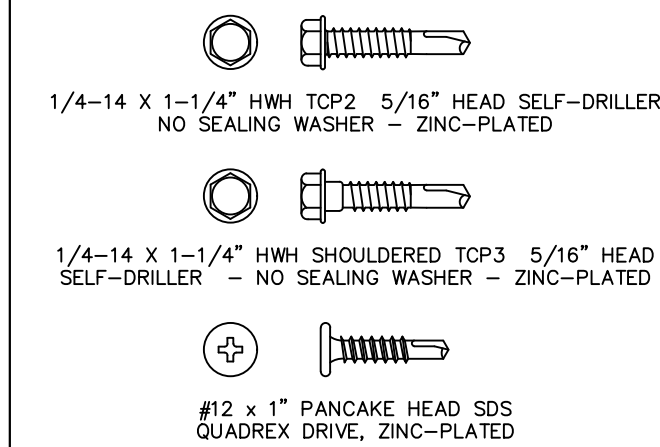
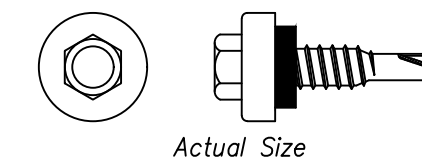
FASTENER LOCATION FOR WALL PANEL (SUPER SPAN X)

Description: Ø-14 x 1/4 Hex Head Undercut (#14 x 1/4 Long-Life #1 Point Self-Drilling Lap Lap-Tek S.D.S.) Long-Life Zinc Die Cast Head

Seating Torque: 30 to 60 in-lbs

Recommended Driving Tool: 1800 RPM electric screw gun with depth sensing nosepiece to prevent overdriving and stripout

Suggested Pre-Drill: None



NOTES:
Seating Torque: 30 - 60 in-lbs
Recommended Driving Tool:
1800 RPM screw gun with depth sensing nosepiece to prevent overdriving and stripout

STANDARD FASTENERS MISCELLANEOUS

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ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC	STANDARD DETAIL PAGE	70'-0" x 60'-0" x 26'-0"
					CUSTOMER:	CUSTOMER LOCATION:
					ELI TOMAC	CORTEZ, CO 81321
					PROJECT REFERENCE:	
					ELI TOMAC	
					JOB SITE LOCATION:	JOB SITE COUNTY:
					CORTEZ, CO 81321	MONTEZUMA
					DWN:	ENG:
					PND	05.21.24
					PNC	12630-34529
					JOB NO:	DWG NO:
					12630-34529	D1
					ISSUE:	
					P1	



5/22/2024

A7 ROOF PURLIN CONNECTION AT I-SHAPE ENDWALL RAFTER

A10 ROOF PURLIN CONNECTION AT MAIN FRAME ENDWALL

ANTI DETAIL AT ANTI-ROLL CLIP

B4 ENDWALL RAFTER TO COLUMN

B6 ENDWALL RAFTER TO COLUMN

C6 ENDWALL GIRT TO COLUMN

C15 GIRT/HEADER TO COLUMN

D4 GIRT TO CEE CORNER COLUMN

D16 GIRT CONNECTION AT CORNER SW & EW GIRTS AT SAME ELEVATION

E3 BASE PLATE FOR ENDWALL COLUMN

E5 BASE PLATE FOR DOOR JAMB

F20 RAFTER SPLICE AT SURFACE CHANGE

— ALL ANCHOR RODS (BY OTHERS) TO HAVE NUTS AND FLAT WASHERS.

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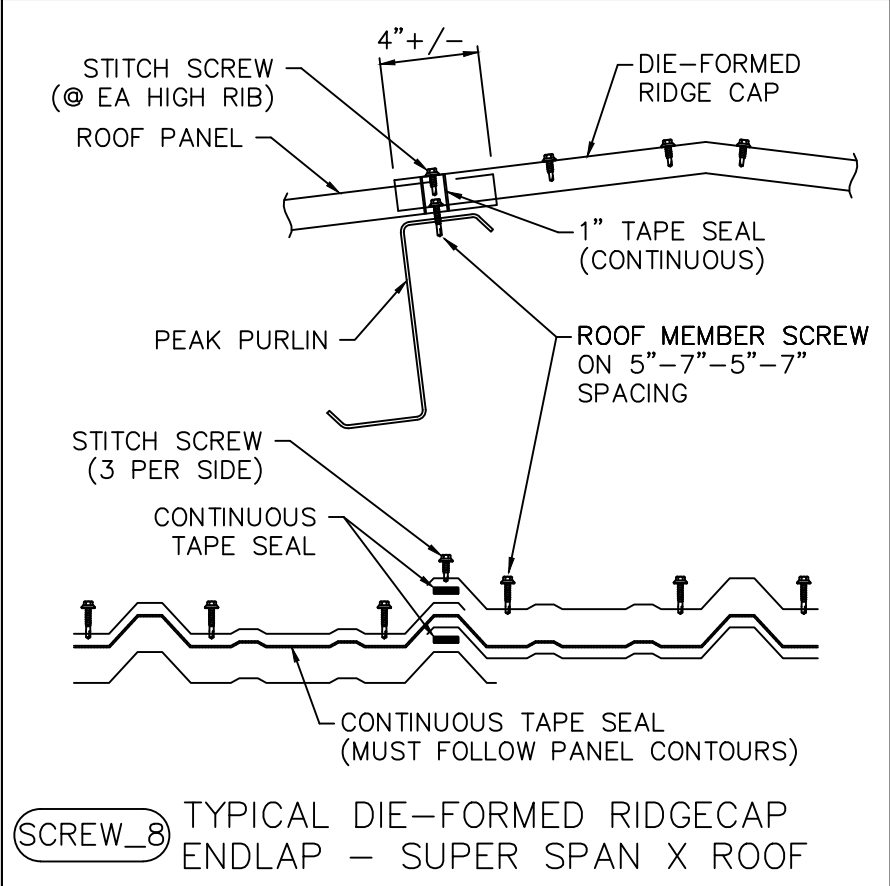
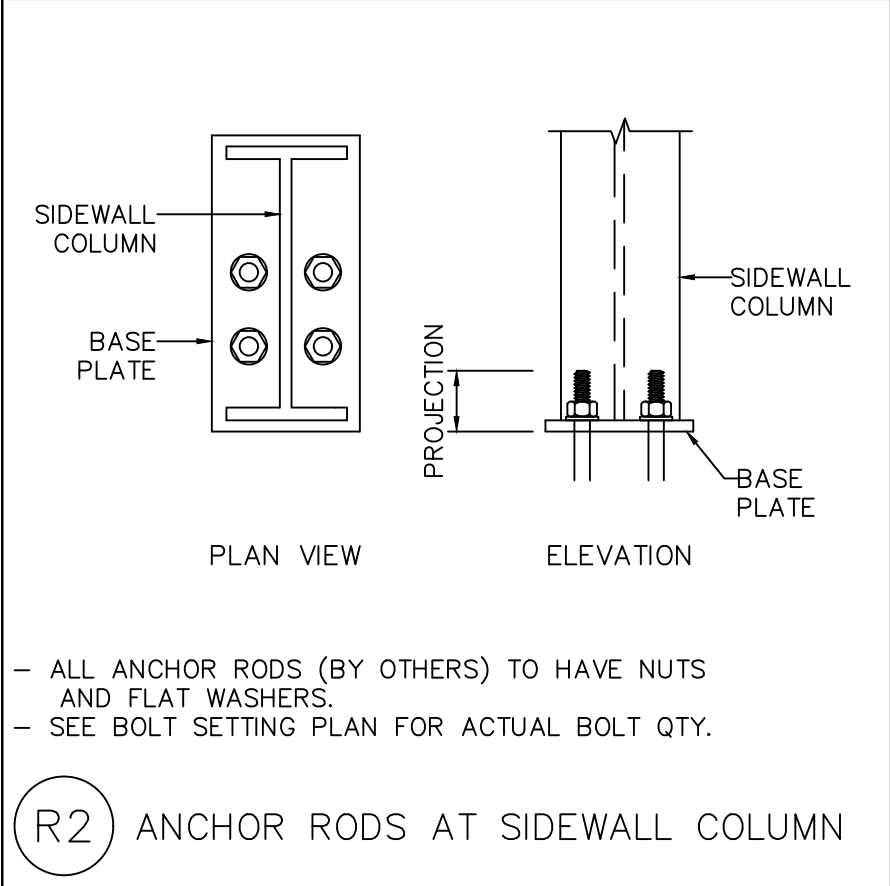
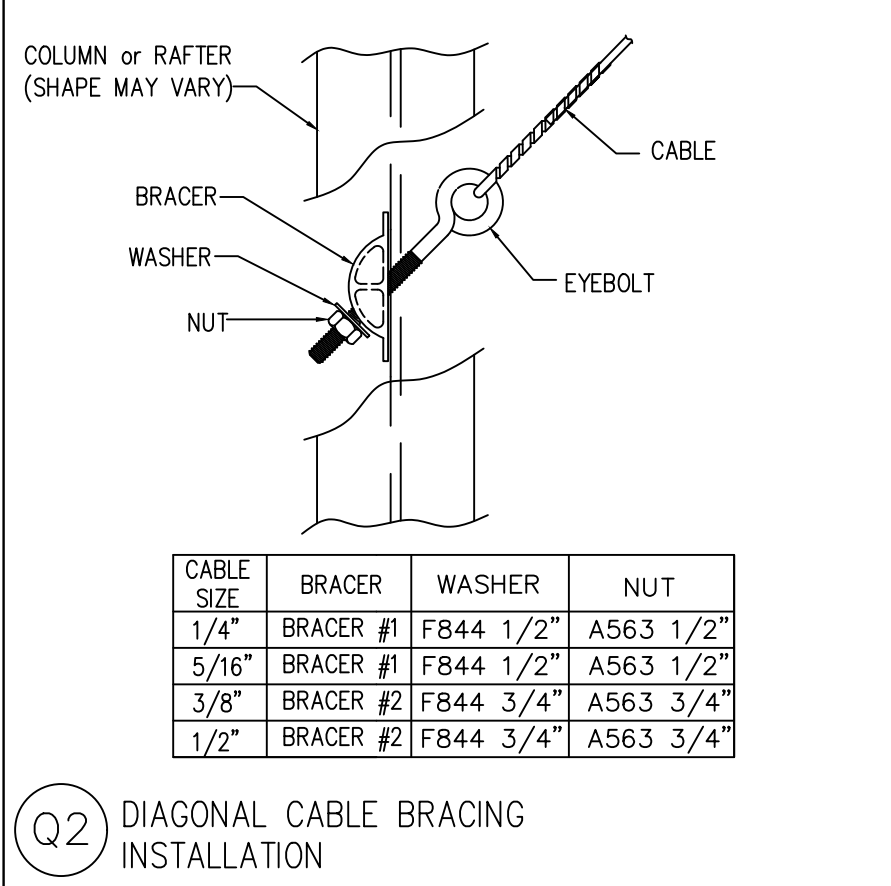
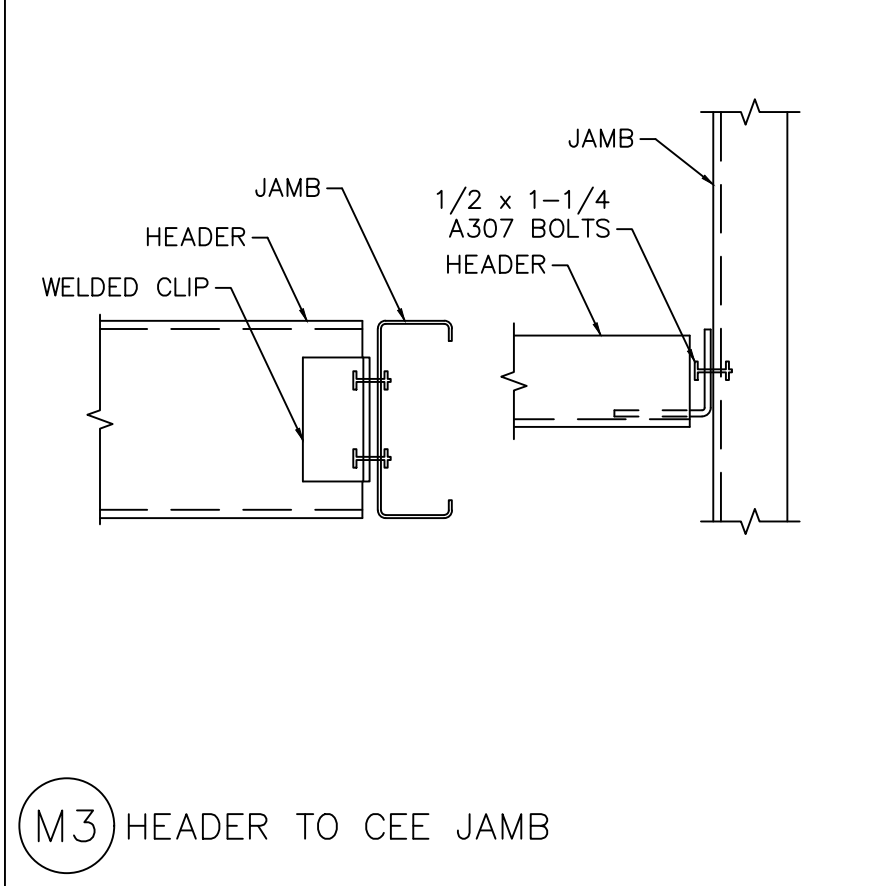
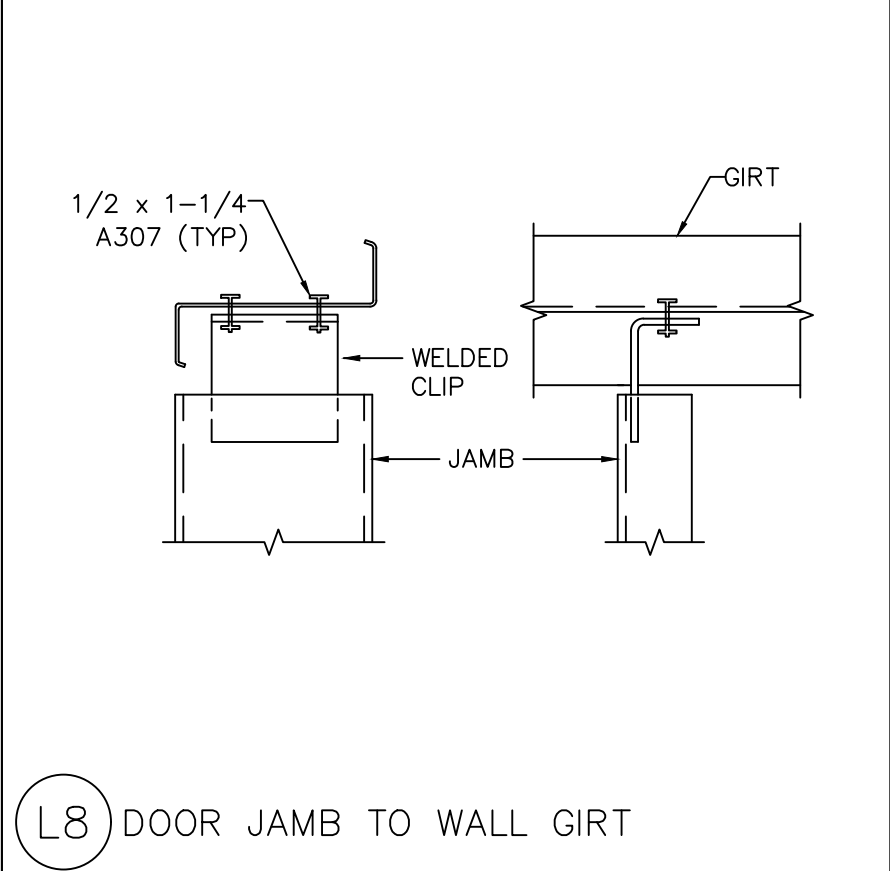
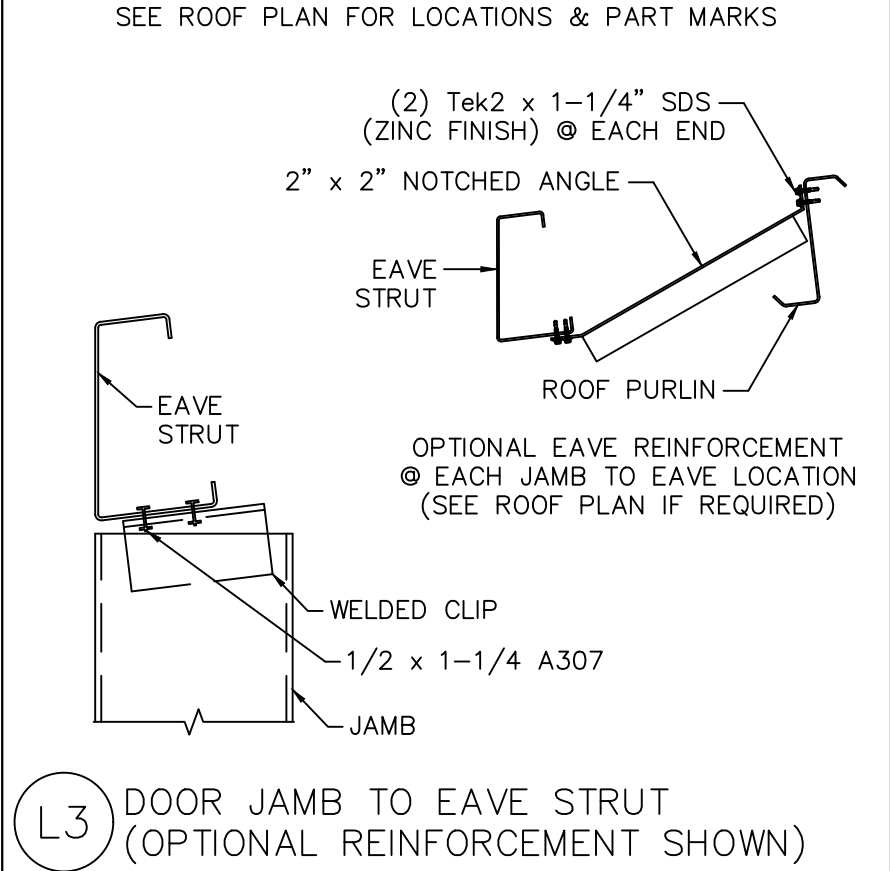
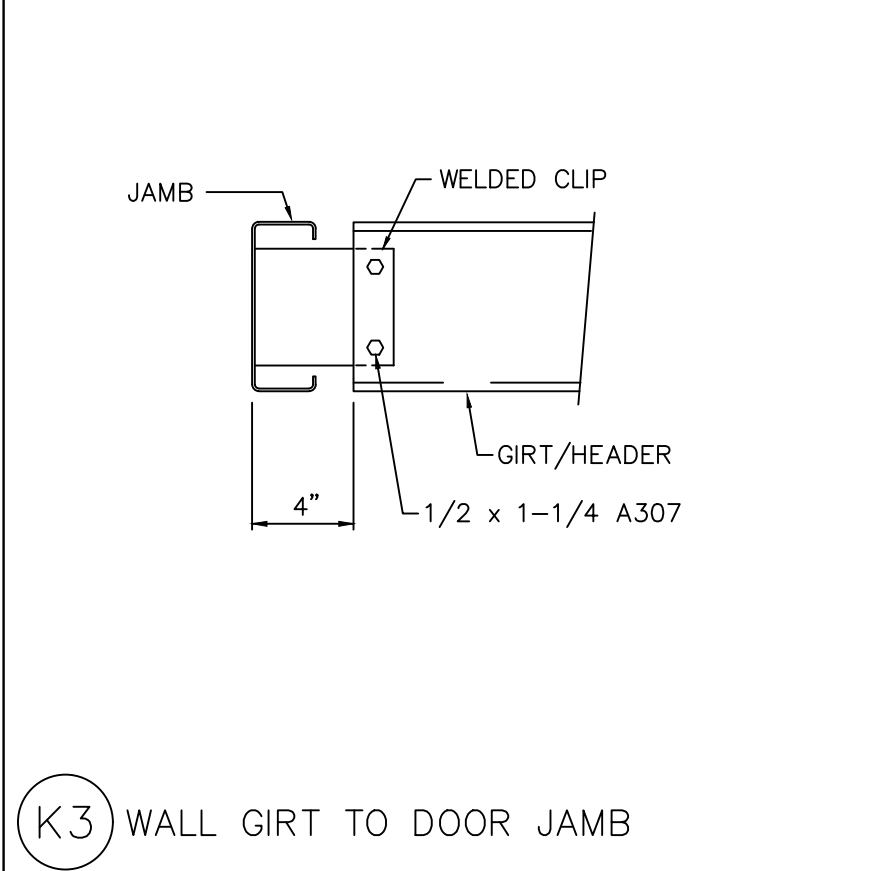
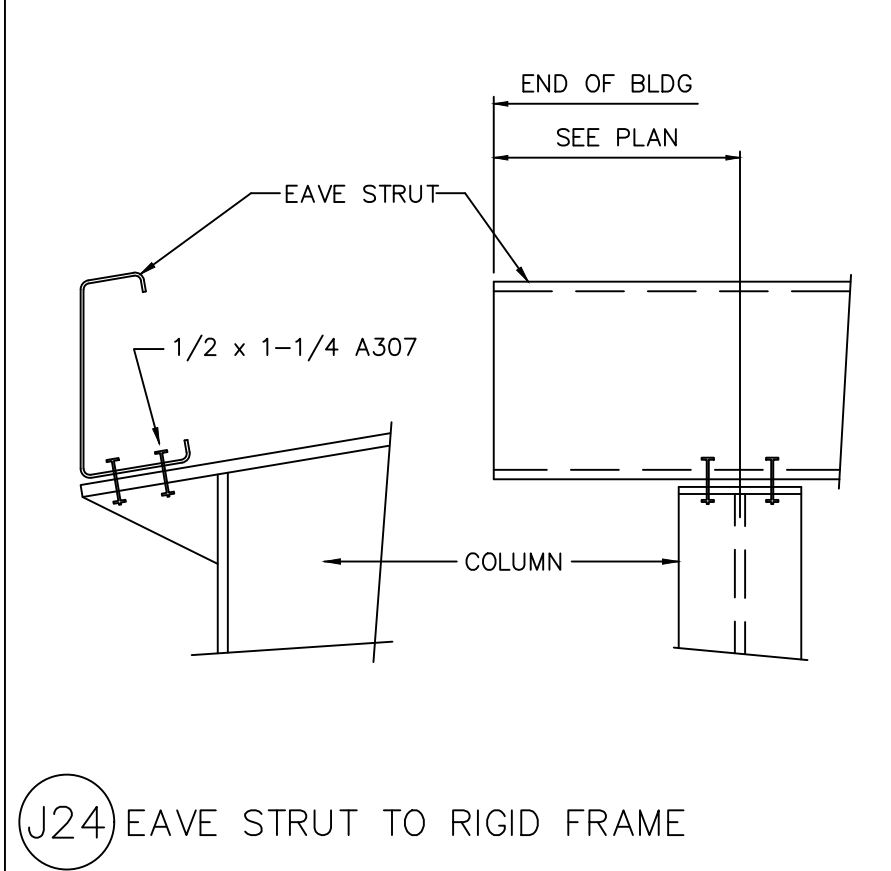
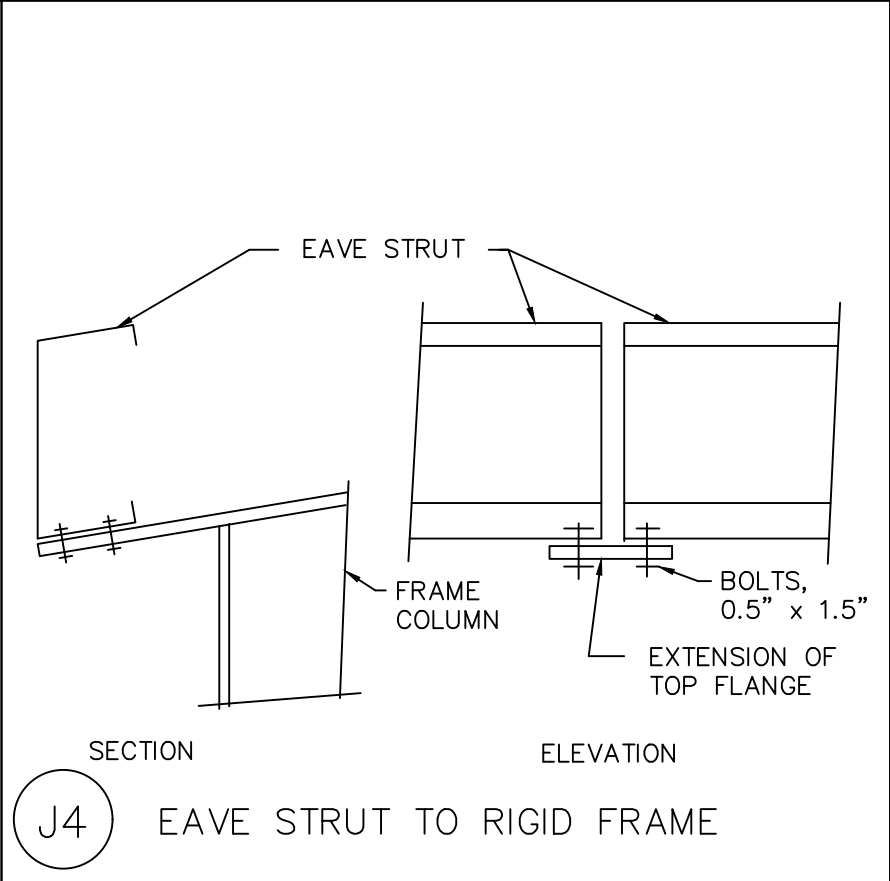
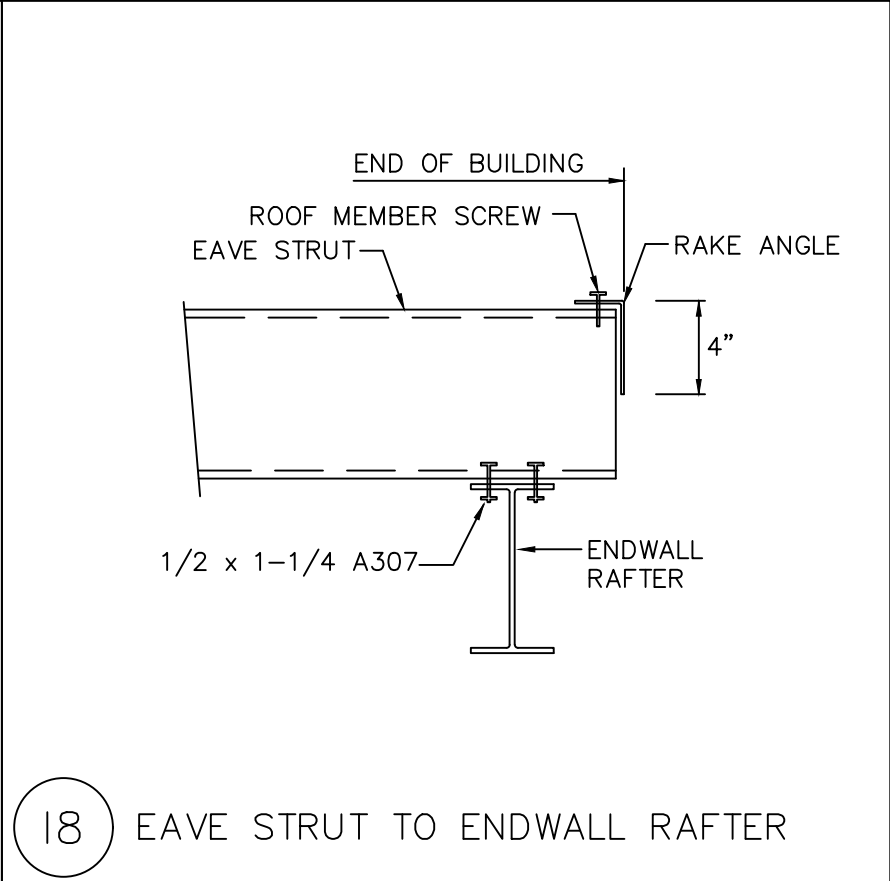
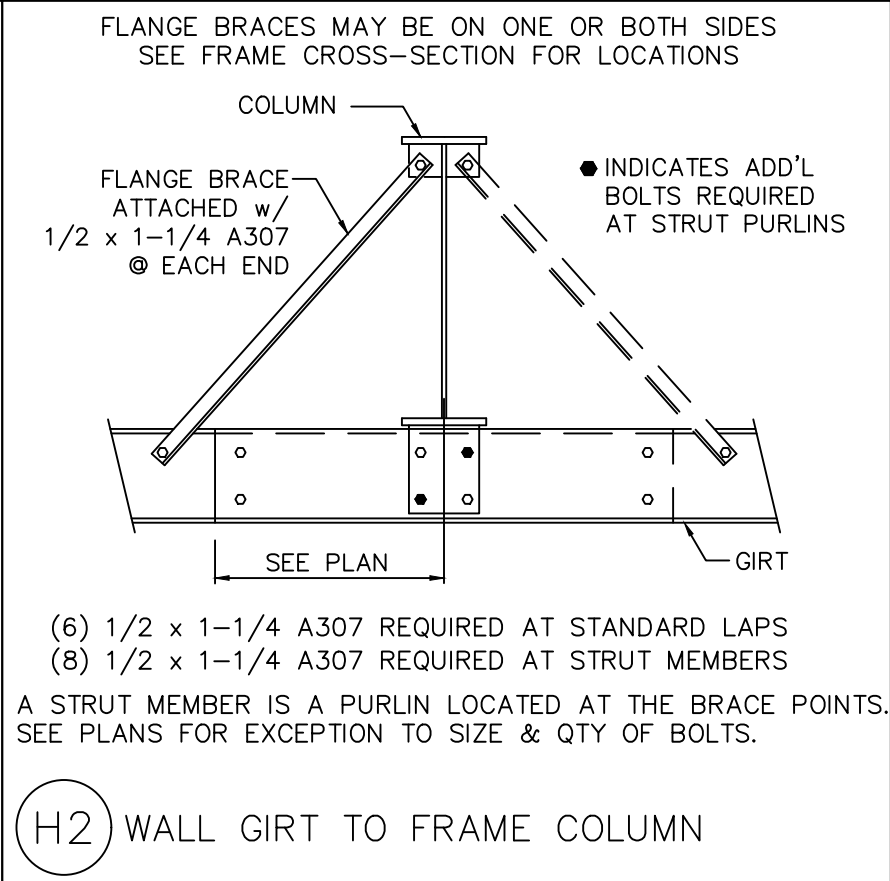
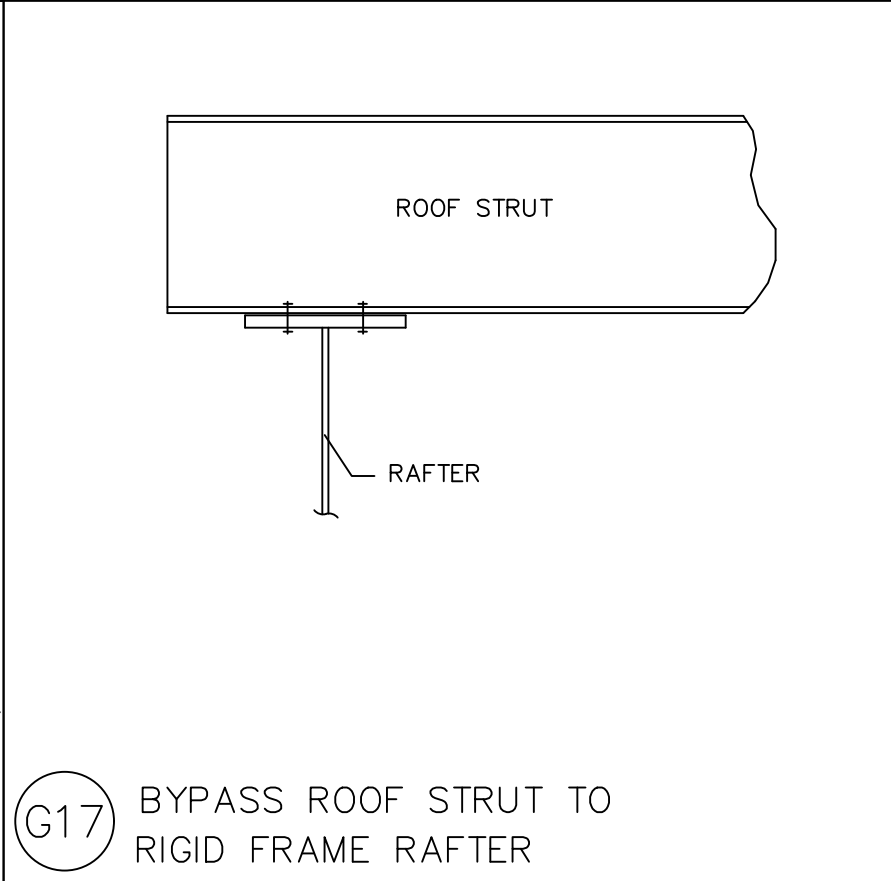
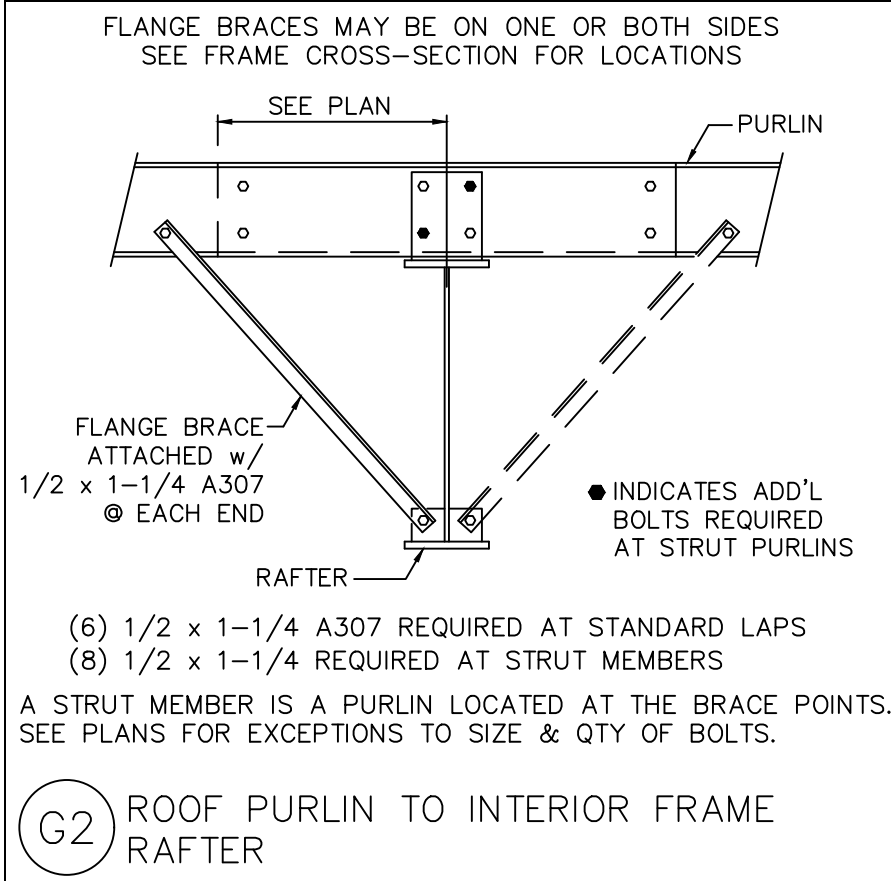
METALBUILDING
OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC	STANDARD DETAIL PAGE	70'-0" x 60'-0" x 26'-0"
					CUSTOMER:	CUSTOMER LOCATION:
					ELI TOMAC	CORTEZ, CO 81321
					PROJECT REFERENCE:	
					ELI TOMAC	
					JOB SITE LOCATION:	JOB SITE COUNTY:
					CORTEZ, CO 81321	MONTEZUMA
					DWN:	CHK:
					PND	PNC
					DATE:	ENG:
					05.21.24	SJD
					JOB NO:	DWG NO:
					12630-34529	02
					ISSUE:	P1

The Engineer whose seal and signature appear on these documents represents Whirlwind Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Whirlwind Steel Buildings, Inc., and excludes part such as doors, windows, foundation design, and erection of the building.



5/22/2024



☐ FOR APPROVAL:
These drawings, being for approval, are by definition not final and are for conceptual representation only. Their purpose is to confirm the proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered complete.

☒ FOR CONSTRUCTION PERMIT:
These drawings, being for permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered complete.

☐ FOR ERECTOR INSTALLATION:
Final drawings for construction.



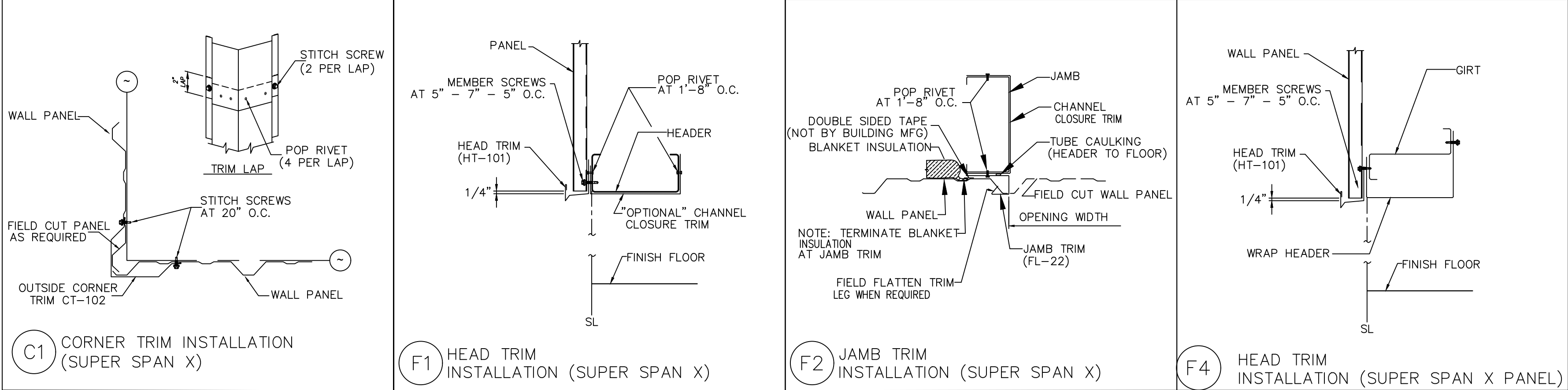
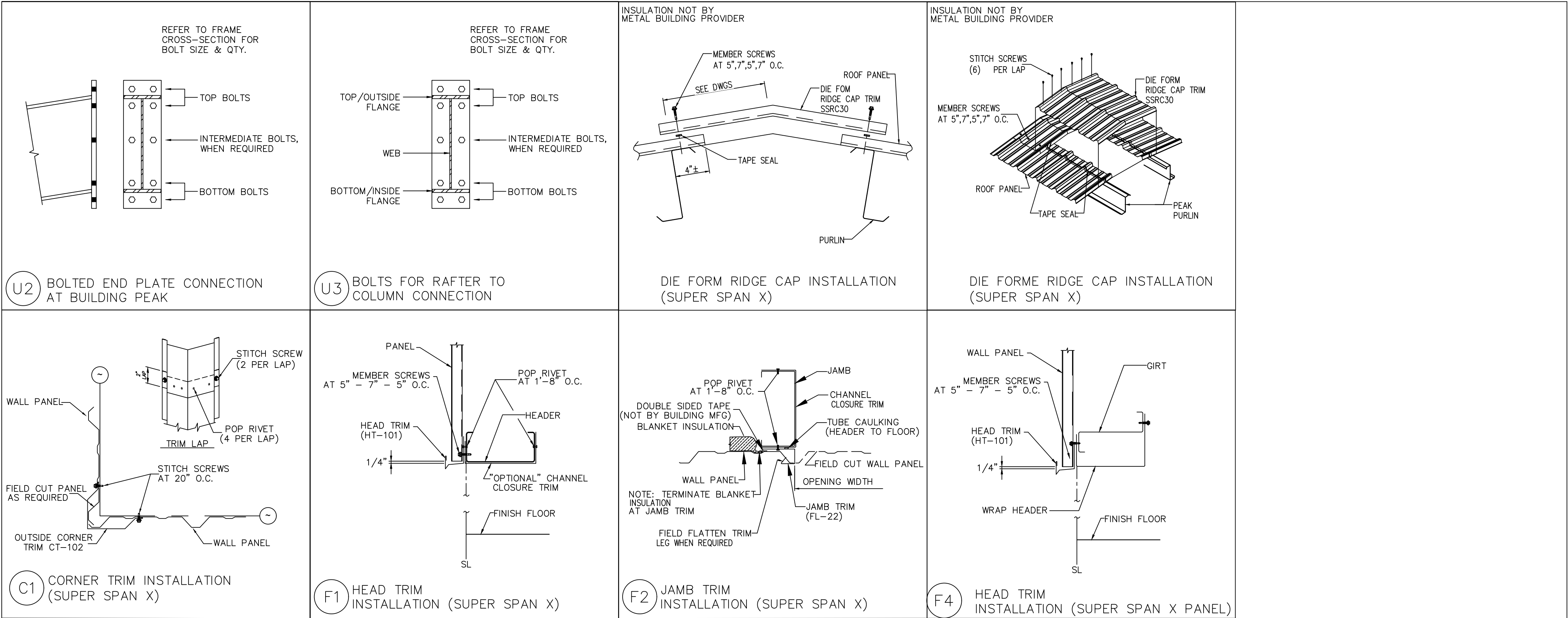
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION: STANDARD DETAIL PAGE		BLDG SIZE: 70'-0" x 60'-0" x 26'-0"	
CUSTOMER: ELI TOMAC		CUSTOMER LOCATION: CORTEZ, CO 81321	
PROJECT REFERENCE: ELI TOMAC			
JOB SITE LOCATION: CORTEZ, CO 81321		JOB SITE COUNTY: MONTEZUMA	
DWN: PND	CHK: PNC	DATE: 05.21.24	ENG: SJD
JOB NO: 12630-34529	DWG NO: 03	ISSUE: P1	

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ISSUE	DATE	DESCRIPTION	BY	CHK	SHEET DESCRIPTION:	BLDG SIZE:
P1	05.21.24	FOR CONSTRUCTION PERMIT	PND	PNC	STANDARD DETAIL PAGE	70'-0" x 60'-0" x 26'-0"
					CUSTOMER:	CUSTOMER LOCATION:
					ELI TOMAC	CORTEZ, CO 81321
					PROJECT REFERENCE:	
					ELI TOMAC	
					JOB SITE LOCATION:	JOB SITE COUNTY:
					CORTEZ, CO 81321	MONTEZUMA
					DWN:	ENG:
					PND	SJD
					DATE:	JOB NO:
					05.21.24	12630-34529
					DWG NO:	ISSUE:
					D4	P1

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5/22/2024