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 after 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 therefor 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:	2.26	psf
Roof Collateral Load:	1.50	psf (Misc.)
Sprinkler Load:	1.50	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:	78	mph
Exposure Factor:	C	
Wind Condition:	Enclosed	
Internal Pressure Coefficient :	+/– 0.18	
Edge Zone Width:	6.40	Ft

SNOW LOAD

Ground Snow Load :	35.00	psf (Case Study ground snow load provided by Building End User)
Roof Snow Load :	35.00	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/240	Purlins:	L/240
Bearing Frame Rafter:	L/240	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):	0.1950	
Structural Response Acceleration(S1):	0.0550	
Site Class:	D	
Design Spectral Response (Sds):	0.2080	
Design Spectral Response (Sd1):	0.0880	
Seismic Design Category:	B	

	Lateral	Longitudinal
Framing Direction:		
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):	0.0694	0.0694
Design Base Shear V :	21.23 (kips)	21.22 (kips)
Analysis Procedure:	Equivalent Lateral Force	

ROOF PANEL

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

WALL PANEL

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

WAINSCOT PANEL

Profile: Super Span X Gauge: 26 Color: SMP Burnished Slate

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.

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.

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	P3	11.27.23	COVER SHEET
F1	1	11.27.23	ANCHOR BOLT PLAN & DETAILS
F2	1	11.27.23	ANCHOR BOLT REACTIONS
F3	1	11.27.23	ANCHOR BOLT REACTIONS
P1	P2	11.27.23	RIGID FRAME ELEVATION
P2	P2	11.27.23	RIGID FRAME ELEVATION
P3	P2	11.27.23	RIGID FRAME ELEVATION
E1	P2	11.27.23	ROOF FRAMING PLAN
E2	P2	11.27.23	ROOF SHEETING PLAN
E3	P2	11.27.23	ENDWALL FRAME & SHEETING ELEVATION
E4	P2	11.27.23	ENDWALL FRAME & SHEETING ELEVATION
E5	P2	11.27.23	SIDEWALL FRAME & SHEETING ELEVATION
E6	P2	11.27.23	SIDEWALL FRAME & SHEETING ELEVATION
E7	P2	11.27.23	BUILDING SECTIONS
E8	P2	11.27.23	BUILDING SECTIONS
D1	P2	11.27.23	STANDARD DETAILS PAGE
D2	P2	11.27.23	STANDARD DETAILS PAGE
D3	P2	11.27.23	STANDARD DETAILS PAGE
D4	P2	11.27.23	STANDARD DETAILS PAGE

TRIM COLOR:

SHADOW EAVE:	SMP BURNISHED SLATE	GAUGE: 26
SHADOW RAKE:	SMP BURNISHED SLATE	GAUGE: 26
CORNER:	SMP BURNISHED SLATE	GAUGE: 26
ACCESSORY:	SMP BURNISHED SLATE	GAUGE: 26
BASE:	SMP BURNISHED SLATE	GAUGE: 26
WAINSCOT TRIM:	SMP BURNISHED SLATE	GAUGE: 26

☐ 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.

METAL BUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	09.16.22	REV FOR CONSTRUCTION PERMIT	PND	PNC
P3	11.27.22	REV FOR CONSTRUCTION PERMIT	PND	PNC

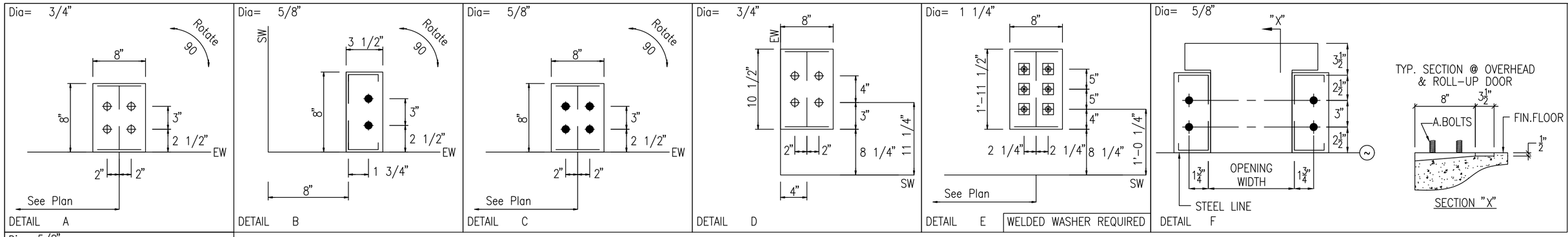
SHEET DESCRIPTION: COVER SHEET					BLDG SIZE: 120'–0" x 170'–0" x 16'–0"	
CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH						
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.24.23	ENG: KSR	JOB NO: 9897–29583	DWG NO: C1	ISSUE: P3

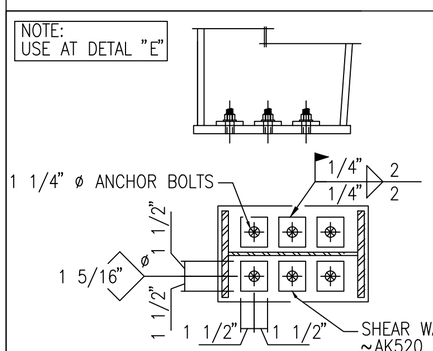
The Engineer whose seal and signature appear on these documents represents Whirlwind Steel Buildings, Inc., and is not the Engineer of Record for the overall project. The Engineer's responsibility is limited to material designed and manufactured by Whirlwind Steel Buildings, Inc., and excludes part such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

Mustapha Chreeide
Mustapha Chreeide
I am the author of this document
2023.12.01 14:41:48 -06'00'

COLORADO LICENSED MUSTAPHA I. CHREEIDE 49784 PROFESSIONAL ENGINEER

12/1/2023

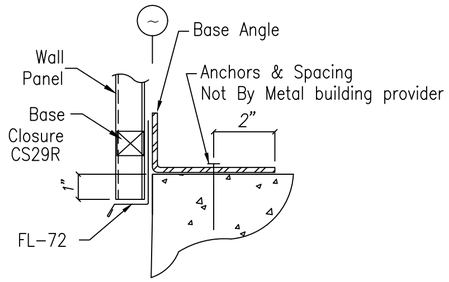




1. SHEAR WASHER ARE FURNISHED BY METAL BUILDING OUTLET.
2. SHEAR WASHER TO BE FIELD WELDED

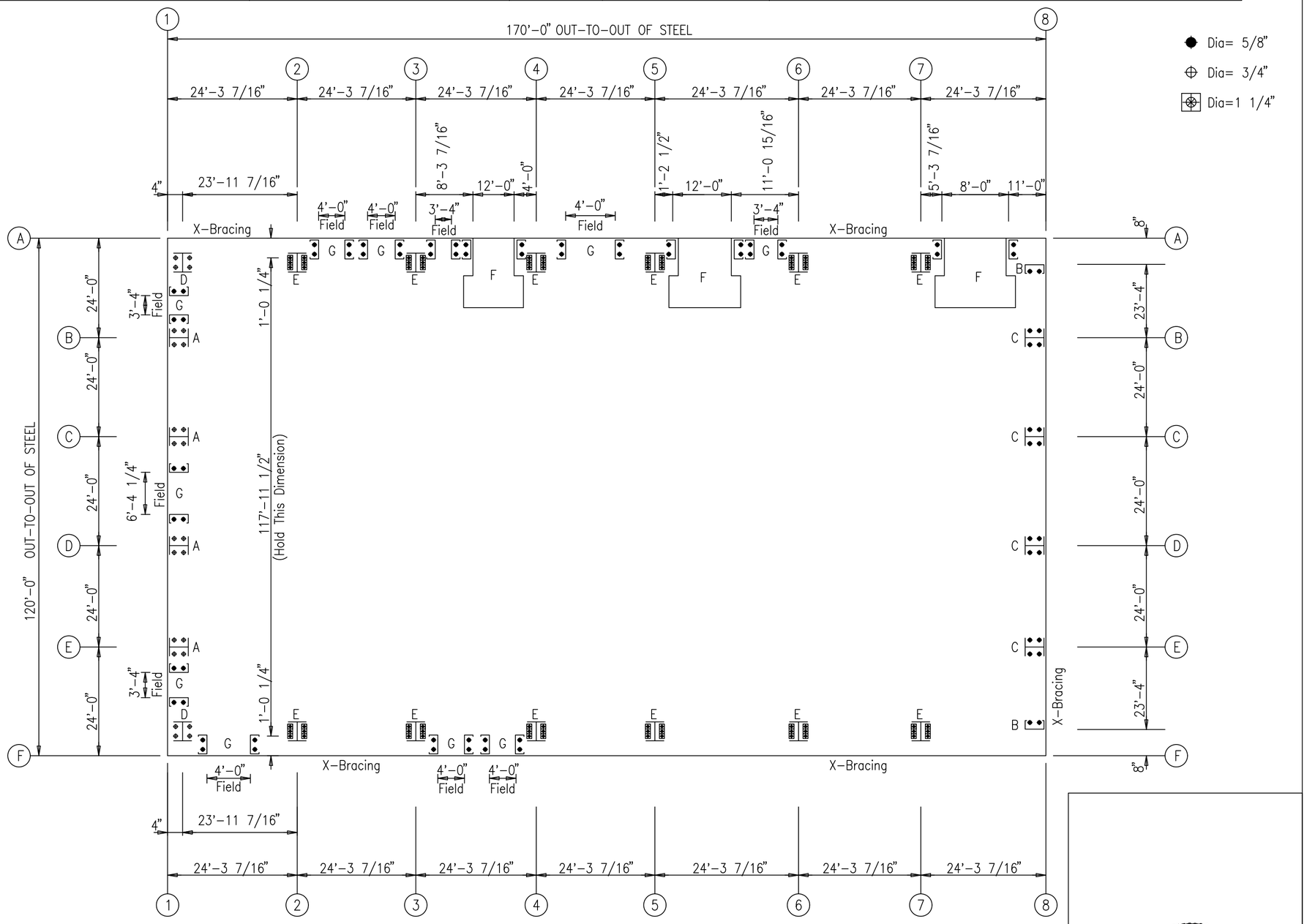
SHEAR WASHER (FIELD WELDED)

Horizontal leg of recess must remain flat or slope away from the building. Notch area indicates a recess for metal wall panels. Panels must not touch the bottom of the recess, which will void the warranty.



DETAIL@SHEETING RECESS

NTS



ANCHOR BOLT PLAN

NOTE: All Base Plates @ Finished Floor (U.N.)

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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☐ 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

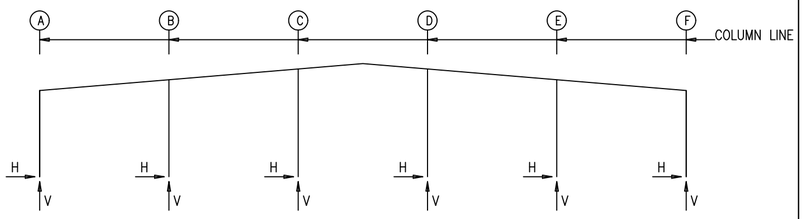
ISSUE	DATE	DESCRIPTION	BY	CHK
0	09.12.22	FOR ERECTOR INSTALLATION	PND	PNC
1	11.27.23	REV ERECTOR INSTALLATION	PND	PNC

SHEET DESCRIPTION: ANCHOR BOLT PLAN & DETAILS					BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH						
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: F1	ISSUE: 1

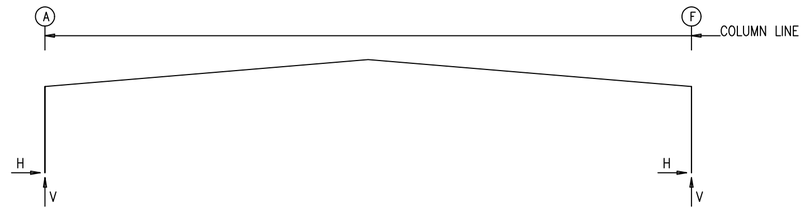
COLORADO LICENSED
MUSTAPHA I. CHREIDIE
49784
PROFESSIONAL ENGINEER

12/1/2023

FRAME LINES: 1



FRAME LINES: 2 3 4 5 6 7



RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
1	A	0.1	0.7	0.1	0.4	0.4	2.9	0.7	5.0	−2.4	−4.8	1.9	−1.7
1	F	−0.1	0.7	−0.1	0.4	−0.4	2.9	−0.7	5.0	−1.9	−1.7	2.4	−4.8
1	B	0.0	1.2	0.0	0.9	0.0	6.1	0.0	10.7	0.0	−8.0	0.0	−6.1
1	C	0.0	1.2	0.0	0.9	0.0	5.9	0.0	10.3	0.0	−5.7	0.0	−4.3
1	D	0.0	1.2	0.0	0.9	0.0	5.9	0.0	10.3	0.0	−4.3	0.0	−5.7
1	E	0.0	1.2	0.0	0.9	0.0	6.1	0.0	10.7	0.0	−6.1	0.0	−8.0

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Press Horiz	Wind_Press Vert	Wind_Suct Horiz	Wind_Suct Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert
1	A	−2.9	−3.4	1.3	−0.3	0.0	0.0	0.0	0.0	1.2	−6.8	0.5	−6.0
1	F	−1.3	−0.3	2.9	−3.4	0.0	0.0	0.0	0.0	−0.5	−3.1	−1.2	−3.9
1	B	0.0	−5.4	0.0	−3.4	−4.2	0.0	4.7	0.0	0.0	−9.3	0.0	−4.5
1	C	0.0	−3.3	0.0	−1.8	−4.7	0.0	5.2	0.0	0.0	−7.8	0.0	−5.1
1	D	0.0	−1.8	0.0	−3.3	−4.7	0.0	5.2	0.0	0.0	−5.1	0.0	−7.8
1	E	0.0	−3.4	0.0	−5.4	−4.2	0.0	4.7	0.0	0.0	−4.5	0.0	−9.3

Frame Line	Column Line	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
1	A	−0.9	−0.7	0.9	0.7	0.0	−3.1	0.4	2.8	0.4	4.6	0.5	1.7
1	F	−0.9	0.7	0.9	−0.7	0.0	0.0	−0.4	2.8	−0.5	1.7	−0.4	4.6
1	B	0.0	0.9	0.0	−0.9	0.0	0.0	0.0	6.1	0.0	11.8	0.0	2.8
1	C	0.0	−0.3	0.0	0.3	0.0	0.0	0.0	5.9	0.0	13.9	0.0	4.1
1	D	0.0	0.3	0.0	−0.3	0.0	0.0	0.0	5.9	0.0	4.1	0.0	13.9
1	E	0.0	−0.9	0.0	0.9	0.0	0.0	0.0	6.1	0.0	2.8	0.0	11.8

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2*	A	8.3	7.7	5.5	4.4	36.3	29.1	63.6	51.0	−31.2	−26.8	−23.7	−20.6
2*	F	−8.3	7.7	−5.5	4.4	−36.3	29.1	−63.6	51.0	23.7	−20.6	31.2	−26.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	A	−17.3	−13.8	−9.7	−7.6	−28.2	−31.3	−29.2	−25.7	−1.5	−0.3	1.5	0.3
2*	F	9.7	−7.6	17.3	−13.8	29.2	−25.6	28.2	−31.3	−1.5	0.3	1.5	−0.3

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
2*	A	0.0	−3.1	36.3	29.1	50.2	48.3	50.2	27.9
2*	F	0.0	−3.0	−36.3	29.1	−50.2	27.9	−50.2	48.3

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
3	A	8.4	7.8	5.5	4.4	36.5	29.1	63.8	51.0	−31.3	−26.8	−23.8	−20.6
3	F	−8.4	7.8	−5.5	4.4	−36.5	29.2	−63.8	51.0	23.8	−20.6	31.3	−26.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
3	A	−17.3	−13.8	−9.8	−7.6	−28.4	−28.4	−29.3	−22.8	−1.5	−0.3	1.5	0.3
3	F	9.8	−7.6	17.3	−13.8	29.3	−25.6	28.3	−31.3	−1.5	0.3	1.5	−0.3

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F3UNB_SL_L Horiz	F3UNB_SL_L Vert	F3UNB_SL_R Horiz	F3UNB_SL_R Vert
3	A	0.0	0.0	36.4	29.1	50.4	48.3	50.4	27.8
3	F	0.0	−3.0	−36.4	29.1	−50.4	27.9	−50.4	48.3

2* Frame lines: 2 4 5 6 7

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Elev. (in)
1	A	3	1.5	4.1	6	−1.7	−1.7	4	0.750	8.000	10.50	0.375	0.0
		1	0.8	6.1	8	0.8	−3.7						
1	F	7	1.7	−1.7	2	−1.5	4.1	4	0.750	8.000	10.50	0.375	0.0
		1	−0.8	6.1	5	1.4	−2.5						
1	B	12	2.8	−5.2	13	−2.5	−5.2	4	0.750	8.000	8.000	0.375	0.0
		14	0.0	13.9	9	0.0	−4.9						
1	C	12	3.1	−4.2	13	−2.8	−4.2	4	0.750	8.000	8.000	0.375	0.0
		14	0.0	15.9	9	0.0	−4.0						
1	D	15	3.1	−4.2	16	−2.8	−4.2	4	0.750	8.000	8.000	0.375	0.0
		14	0.0	15.9	11	0.0	−4.0						
1	E	15	2.8	−5.2	16	−2.5	−5.2	4	0.750	8.000	8.000	0.375	0.0
		14	0.0	13.9	11	0.0	−4.9						

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Elev. (in)	Washer Qty
2*	A	1	77.4	63.1	4	−13.8	−11.4	6	1.250	8.000	23.50	0.750	0.0	6
					8	−12.0	−14.1							
2*	F	5	13.8	−11.4	1	−77.4	63.1	6	1.250	8.000	23.50	0.750	0.0	6
		1	−77.4	63.1	10	12.0	−14.1							

2* Frame lines: 2 4 5 6 7

WELDED WASHER REQUIRED AT FRAME LINE 2,4,5,6,7

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Elev. (in)	Washer Qty
3	A	1	77.7	63.2	4	−13.8	−11.4	6	1.250	8.000	23.50	0.750	0.0	6
					8	−12.0	−12.3							
3	F	5	13.8	−11.4	1	−77.7	63.2	6	1.250	8.000	23.50	0.750	0.0	6
		1	−77.7	63.2	10	12.0	−14.1							

WELDED WASHER REQUIRED AT FRAME LINE 3

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								(h)
F_SW	F	2,3	5.0	2.8	5.3	3.0			
		6,7	5.0	2.8	5.3	3.0			
R_EW	8	F,E	2.3	1.6	1.7	1.2			
B_SW	A	7,6	5.0	2.8	5.3	3.0			
		2,1	5.0	2.9	5.3	3.1			

(h)Rigid frame at endwall

Reactions for seismic represent shear force, Eh

ANCHOR BOLT SUMMARY (GRADE 36)

Qty	Locate	Dia (in)	Type	Proj (in)
56	Jamb	5/8"	F1554	2.50
16	Endwall	3/4"	F1554	3.00
20	Endwall	5/8"	F1554	2.50
8	Frame	3/4"	F1554	3.00
72	Frame	1 1/4"	F1554	4.00

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
8	F	0.5	0.4	2.4	4.2	−2.3	−5.0	0.0	−0.3	−2.3	−3.8	0.0	0.8	−1.9
8	E	1.3	1.0	6.6	11.5	0.0	−8.2	2.3	−7.1	0.0	−5.3	2.3	−4.1	−4.1
8	D	1.2	0.9	5.8	10.2	0.0	−5.2	0.0	−4.7	0.0	−2.7	0.0	−2.3	−4.7
8	C	1.2	0.9	5.8	10.2	0.0	−4.5	0.0	−5.4	0.0	−2.0	0.0	−3.0	−4.7
8	B	1.3	1.0	6.6	11.5	0.0	−5.6	0.0	−9.5	0.0	−2.6	0.0	−6.6	−4.1
8	A	0.5	0.4	2.4	4.2	0.0	−2.1	0.0	−3.4	0.0	−1.0	0.0	−2.2	−1.9

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	Seis Long Vert	MIN_SNOW Horz	MIN_SNOW Vert
8	F	2.2	0.0	−3.0	−0.7	−2.7	−1.7	−1.2	0.0	1.3	0.0	0.0	2.4
8	E	4.6	0.7	−10.1	0.0	−5.0	0.0	1.1	1.7	−1.2	0.0	0.0	6.6
8	D	5.2	0.0	−7.8	0.0	−4.8	0.0	0.1	0.0	−0.1	0.0	0.0	5.8
8	C	5.2	0.0	−4.9	0.0	−7.8	0.0	0.1	0.0	−0.1	0.0	0.0	5.8
8	B	4.6	0.0	−5.5	0.0	−9.6	0.0	−0.1	0.0	0.1	0.0	0.0	6.6
8	A	2.2	0.0	−2.1	0.0	−3.6	0.0	0.0	0.0	0.0	0.0	0.0	2.4

Frm Line	Col Line	E2UNB_SL_L Horz	E2UNB_SL_L Vert	E2UNB_SL_R Horz	E2UNB_SL_R Vert
8	F	0.0	4.1	0.0	1.3
8	E	0.0	12.3	0.0	3.2
8	D	0.0	13.7	0.0	4.0
8	C	0.0	4.0	0.0	13.7
8	B	0.0	3.3	0.0	12.3
8	A	0.0	1.3	0.0	4.1

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Elev. (in)
8	F	19	1.3	−2.7	13	−1.1	−1.5	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.1	19	1.3	−2.7						
8	E	12	2.7	−5.3	13	−2.5	−5.3	4	0.625	8.000	8.000	0.375	0.0
		20	0.0	14.5	12	2.7	−5.3						
8	D	12	3.1	−4.0	13	−2.8	−4.0	4	0.625	8.000	8.000	0.375	0.0
		20	0.0	15.8	12	3.1	−4.0						
8	C	15	3.1	−4.0	16	−2.8	−4.0	4	0.625	8.000	8.000	0.375	0.0
		21	0.0	15.8	15	3.1	−4.0						
8	B	15	2.7	−5.0	16	−2.5	−5.0	4	0.625	8.000	8.000	0.375	0.0
		21	0.0	14.5	15	2.7	−5.0						
8	A	15	1.3	−1.9	16	−1.1	−1.9	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.0	15	1.3	−1.9						

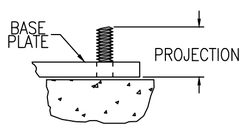
NOTES FOR REACTIONS

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. Loading conditions are:
   1 Dead+Collateral+Snow+Slide_Snow
   2 Dead+Collateral+0.75Snow+0.45Wind_Left1+0.75Slide_Snow
   3 Dead+Collateral+0.75Snow+0.45Wind_Right1+0.75Slide_Snow
   4 0.6Dead+0.6Wind_Left1
   5 0.6Dead+0.6Wind_Right1
   6 0.6Dead+0.6Wind_Left2
   7 0.6Dead+0.6Wind_Right2
   8 0.6Dead+0.6Wind_Long1L
   9 0.6Dead+0.6Wind_Long1R
   10 0.6Dead+0.6Wind_Long2L
   11 0.6Dead+0.6Wind_Long2R
   12 0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
   13 0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
   14 Dead+Collateral
   15 0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
   16 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
   17 Dead+Collateral+E1UNB_SL_L
   18 Dead+Collateral+E1UNB_SL_R
   19 0.6Dead+0.6Wind_Left1+0.6Wind_Suction
   20 Dead+Collateral+E2UNB_SL_L
   21 Dead+Collateral+E2UNB_SL_R

GENERAL NOTES

1. All anchor bolts (by others) to have nuts and flat washers.
2. All anchor bolts are designed to full S.A.E. diameters with cut threads. No substitutions are allowed.
3. 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)
4. 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.

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☒ FOR ERECTOR INSTALLATION:
Final drawings for construction.

METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
0	09.12.22	FOR ERECTOR INSTALLATION	PND	PNC
1	11.27.23	REV ERECTOR INSTALLATION	PND	PNC

SHEET DESCRIPTION: ANCHOR BOLT REACTIONS
BLDG SIZE: 120'-0" x 170'-0" x 16'-0"
CUSTOMER: REFORMATION CHURCH
CUSTOMER LOCATION: ELIZABETH, CO 80107
PROJECT REFERENCE: REFORMATION CHURCH
JOBSITE LOCATION: ELIZABETH, CO 80107
JOBSITE COUNTY: ELBERT

DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	11.27.23	KSR	9897-29583	F2	1

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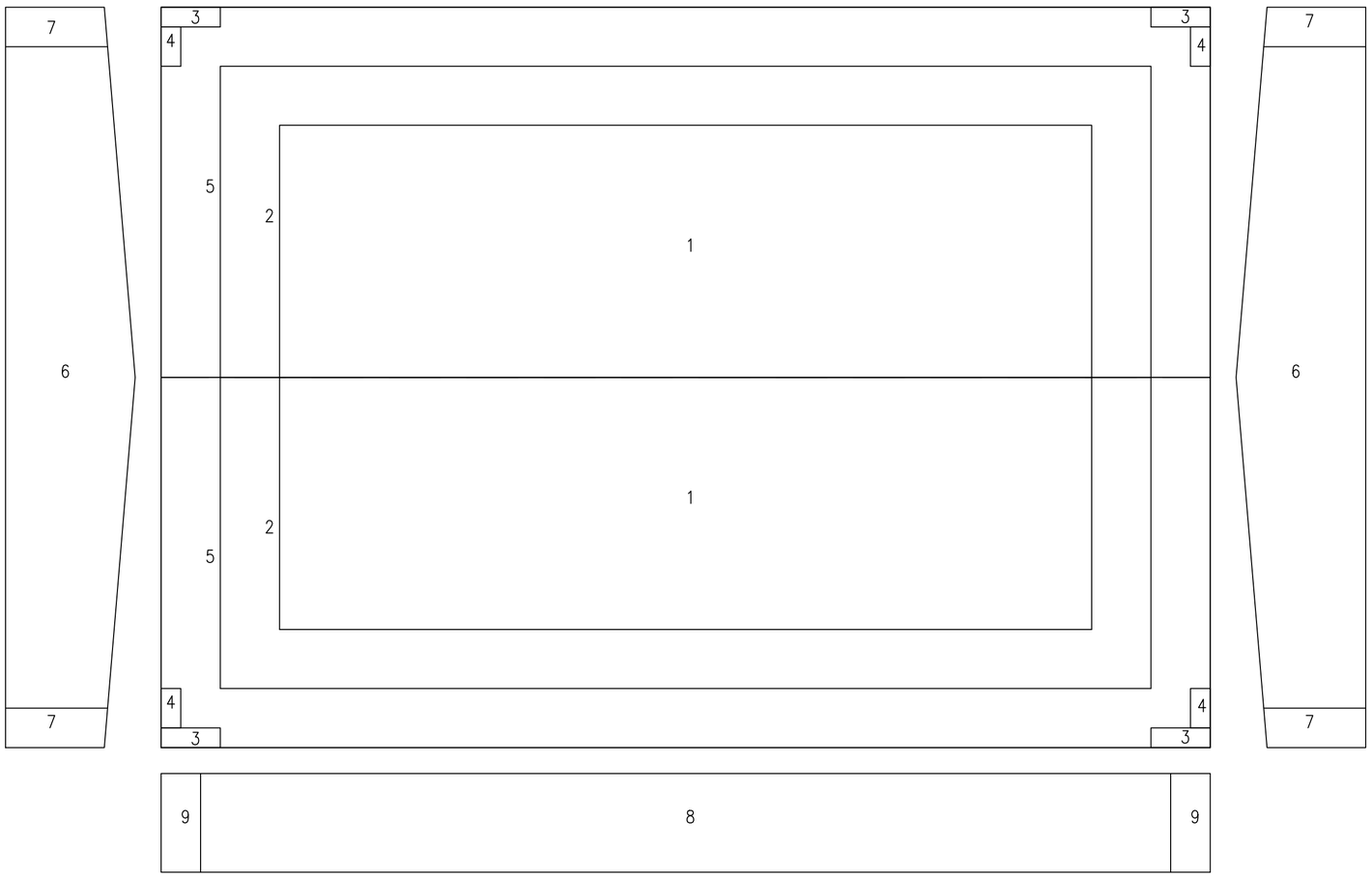
MUSTAPHA I. CHAKEIDE
49784
PROFESSIONAL ENGINEER

12/1/2023



Components & Cladding

Zone	Width (ft)	Length (ft)	Pressure(psf) Member	Pressure(psf) Panel	Suction(psf) Member	Suction(psf) Panel
1			16.00	16.00	−23.00	−26.73
2	9.60	9.60	16.00	16.00	−33.35	−46.51
3	3.20	9.60	16.00	16.00	−49.45	−83.66
4	6.40	3.20	16.00	16.00	−49.45	−83.66
5	9.60	9.60	16.00	16.00	−44.39	−61.48
6			21.61	26.73	−23.84	−28.96
7	6.40		21.61	26.73	−25.51	−35.62
8			21.60	26.70	−23.80	−29.00
9	6.40		21.60	26.70	−25.47	−35.67

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

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METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
0	09.12.22	FOR ERECTOR INSTALLATION	PND	PNC
1	11.27.23	REV ERECTOR INSTALLATION	PND	PNC

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SHEET DESCRIPTION: ANCHOR BOLT REACTIONS	BLDG SIZE: 120'-0" x 170'-0" x 16'-0"
CUSTOMER: REFORMATION CHURCH	CUSTOMER LOCATION: ELIZABETH, CO 80107
PROJECT REFERENCE: REFORMATION CHURCH	
JOBSITE LOCATION: ELIZABETH, CO 80107	JOBSITE COUNTY: ELBERT

DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	11.27.23	KSR	9897-29583	F3	1

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PROFESSIONAL ENGINEER

12/1/2023

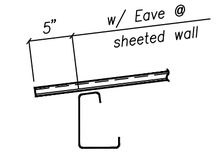
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	1'-7"
SP-2	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-6 3/4"
SP-3	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-7"

CAP PLATES							
Col Id	Qnt	Bolt Type	Bolt Dia	Bolt Len	Plate Size Width	Thick	Length
EC-1	4	A325	0.625	1.500	6.000	0.375	7.890
EC-2	4	A325	0.625	1.500	6.000	0.375	7.890
EC-3	4	A325	0.625	1.500	6.000	0.375	7.890
EC-4	4	A325	0.625	1.500	6.000	0.375	7.890

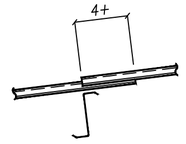
FLANGE BRACE TABLE
A=L2x2x14GA B=L2x2x12GA C=L2x2x1/8 D=L3x3x3/16
FRAME LINE: 1

▽ ID	# SIDES	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	1	FB3A	2'-5 3/4"	2'-4"		
2	1	FB1A	2'-2 1/4"	2'-4"	G26	AK227&230

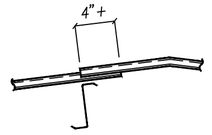
BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	8"	3/8"	10 1/2"
BP-2	8"	3/8"	8"



DETAIL @ PANEL END
LOW SIDE



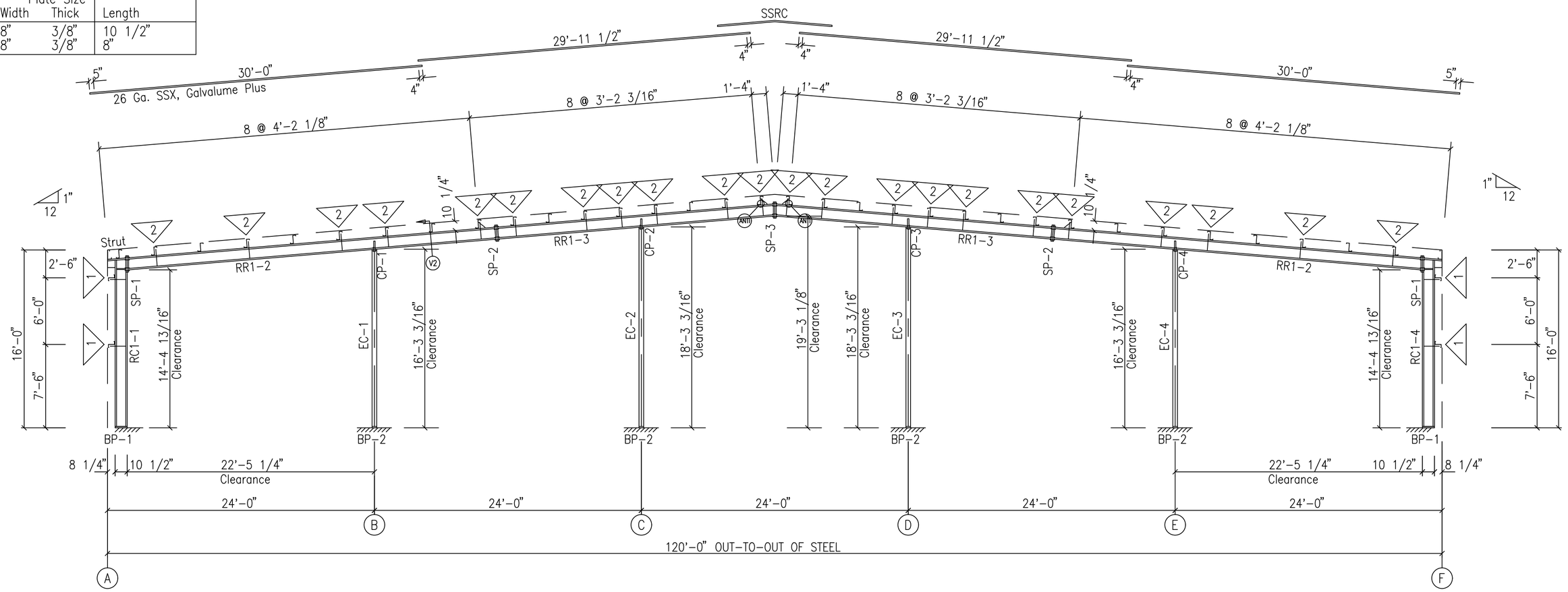
DETAIL @ PANEL SPLICE



DETAIL @ RIDGE CAP

MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Outside Flange W x Thk	Inside Flange W x Thk
RC1-1	10.0/10.0	0.135	5 x 1/4" 6 x 1/4"	5 x 1/4"
RR1-2	10.0/10.0	0.135	6 x 1/4"	6 x 1/4"
	10.0/10.0	0.135	6 x 1/4"	6 x 1/4"
RR1-3	10.0/10.0	0.135	6 x 1/4"	6 x 1/4"
	10.0/10.0	0.135	6 x 1/4"	6 x 1/4"
RC1-4	10.0/10.0	0.135	5 x 1/4" 5 x 1/4"	5 x 1/4"
EC-1	W8X10			
EC-2	W8X10			
EC-3	W8X10			
EC-4	W8X10			

NOTE:
The rigid frame 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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Final drawings for construction.

METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

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SHEET DESCRIPTION: RIGID FRAME ELEVATION					BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH						
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: P1	ISSUE: P2

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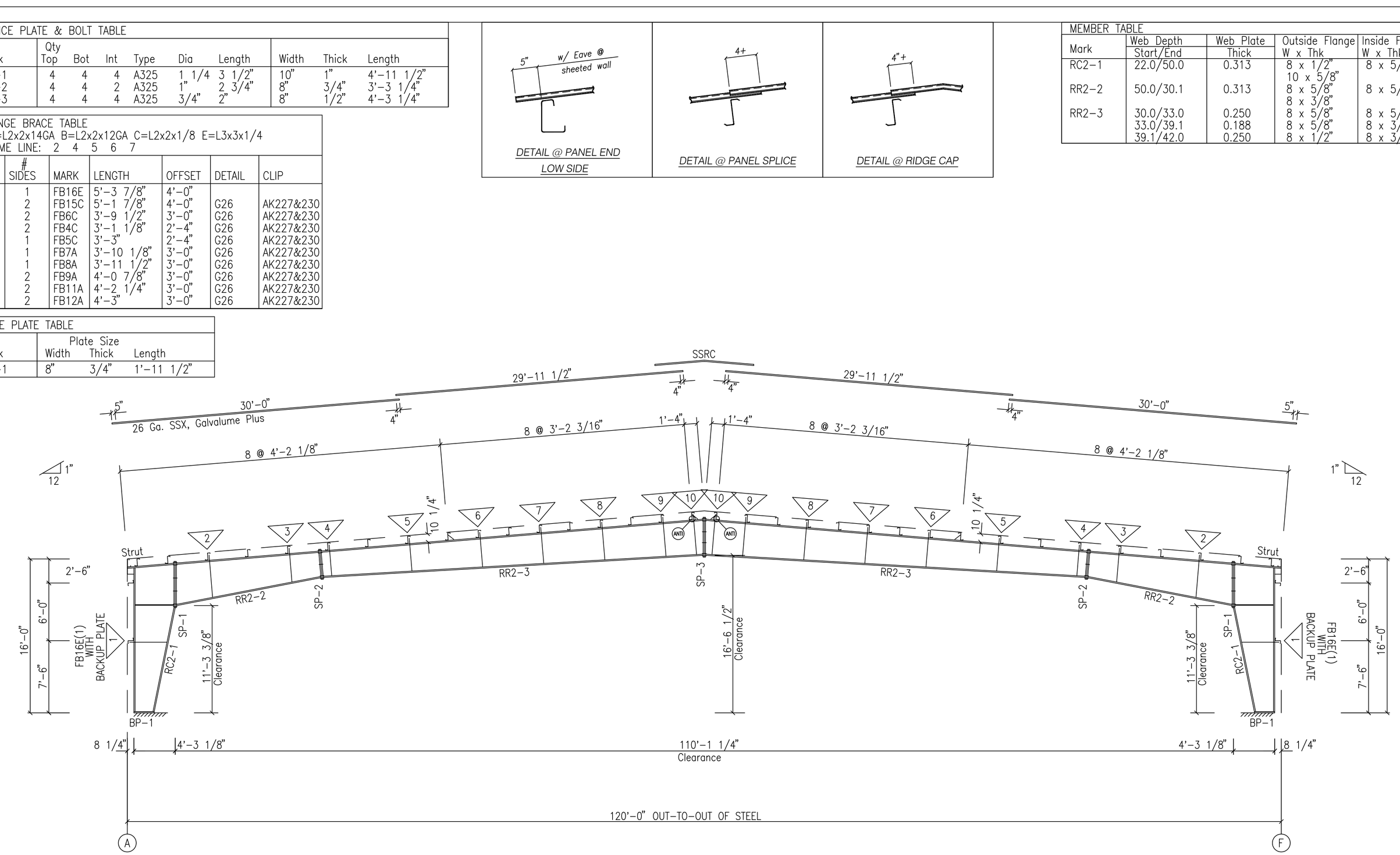
49784
PROFESSIONAL ENGINEER

12/1/2023

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	4	A325	1 1/4	3 1/2"	10"	1"	4'-11 1/2"
SP-2	4	4	2	A325	1"	2 3/4"	8"	3/4"	3'-3 1/4"
SP-3	4	4	4	A325	3/4"	2"	8"	1/2"	4'-3 1/4"

FLANGE BRACE TABLE A=L2x2x14GA B=L2x2x12GA C=L2x2x1/8 E=L3x3x1/4 FRAME LINE: 2 4 5 6 7						
▽ ID	# SIDES	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	1	FB16E	5'-3 7/8"	4'-0"		
2	2	FB15C	5'-1 7/8"	4'-0"	G26	AK227&230
3	2	FB6C	3'-9 1/2"	3'-0"	G26	AK227&230
4	2	FB4C	3'-1 1/8"	2'-4"	G26	AK227&230
5	1	FB5C	3'-3"	2'-4"	G26	AK227&230
6	1	FB7A	3'-10 1/8"	3'-0"	G26	AK227&230
7	1	FB8A	3'-11 1/2"	3'-0"	G26	AK227&230
8	2	FB9A	4'-0 7/8"	3'-0"	G26	AK227&230
9	2	FB11A	4'-2 1/4"	3'-0"	G26	AK227&230
10	2	FB12A	4'-3"	3'-0"	G26	AK227&230

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	8"	3/4"	1'-11 1/2"



MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Outside Flange W x Thk	Inside Flange W x Thk
RC2-1	22.0/50.0	0.313	8 x 1/2" 10 x 5/8"	8 x 5/8"
RR2-2	50.0/30.1	0.313	8 x 5/8" 8 x 3/8"	8 x 5/8"
RR2-3	30.0/33.0	0.250	8 x 5/8"	8 x 5/8"
	33.0/39.1	0.188	8 x 5/8"	8 x 3/8"
	39.1/42.0	0.250	8 x 1/2"	8 x 3/8"

RIGID FRAME ELEVATION: FRAME LINE 2 4 5 6 7

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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METAL BUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

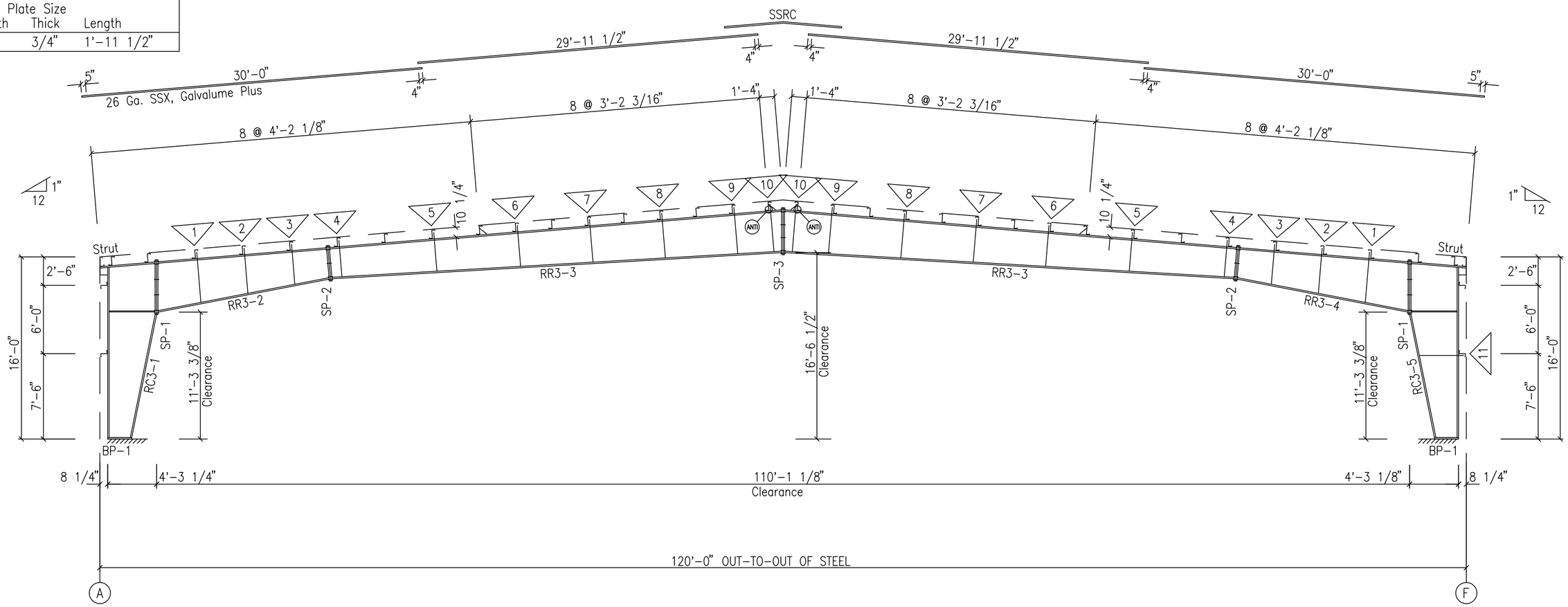
SHEET DESCRIPTION: RIGID FRAME ELEVATION							BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH							CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH								
JOBSITE LOCATION: ELIZABETH, CO 80107							JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583			DWG NO: P2	ISSUE: P2

12/1/2023

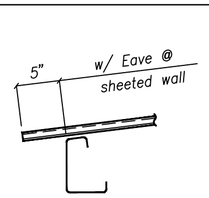
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	4	A325	1 1/4	3 1/2"	10"	1"	4'-11 1/2"
SP-2	4	4	2	A325	1"	2 3/4"	8"	3/4"	3'-3 1/4"
SP-3	4	4	4	A325	3/4"	2"	8"	1/2"	4'-3 1/4"

FLANGE BRACE TABLE A=L2x2x14GA B=L2x2x12GA C=L2x2x1/8 D=L3x3x3/16 FRAME LINE: 3						
▽ ID	# SIDES	MARK	LENGTH	OFFSET	DETAIL	CLIP
1	2	FB14C	5'-1 5/8"	4'-0"	G26	AK227&230
2	2	FB10C	4'-1 1/2"	3'-0"	G26	AK227&230
3	2	FB6C	3'-9 1/2"	3'-0"	G26	AK227&230
4	2	FB4C	3'-1 1/8"	2'-4"	G26	AK227&230
5	1	FB5C	3'-3"	2'-4"	G26	AK227&230
6	1	FB7A	3'-10 1/8"	3'-0"	G26	AK227&230
7	1	FB8A	3'-11 1/2"	3'-0"	G26	AK227&230
8	2	FB9A	4'-0 7/8"	3'-0"	G26	AK227&230
9	2	FB11A	4'-2 1/4"	3'-0"	G26	AK227&230
10	2	FB12A	4'-3"	3'-0"	G26	AK227&230
11	2	FB13C	4'-10 1/4"	3'-4"		

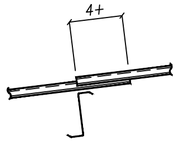
BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	8"	3/4"	1'-11 1/2"



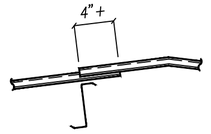
RIGID FRAME ELEVATION: FRAME LINE 3



DETAIL @ PANEL END
LOW SIDE



DETAIL @ PANEL SPLICE



DETAIL @ RIDGE CAP

MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Outside Flange W x Thk	Inside Flange W x Thk
RC3-1	22.0/50.0	0.313	8 x 5/8" 10 x 5/8"	8 x 5/8"
RR3-2	50.0/43.1	0.375	8 x 3/8"	8 x 5/8"
	43.1/30.1	0.313	8 x 1/2"	
RR3-3	30.0/33.0	0.250	8 x 5/8"	8 x 5/8"
	33.0/39.1	0.188	8 x 5/8"	8 x 3/8"
	39.1/42.0	0.250	8 x 1/2"	8 x 3/8"
RR3-4	30.1/43.1	0.313	8 x 1/2"	8 x 5/8"
	43.1/50.0	0.375	8 x 3/8"	
RC3-5	50.0/22.0	0.313	10 x 5/8" 8 x 1/2"	8 x 5/8"

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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METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

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SHEET DESCRIPTION: RIGID FRAME ELEVATION					BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
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PROJECT REFERENCE: REFORMATION CHURCH						
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: P3	ISSUE: P2

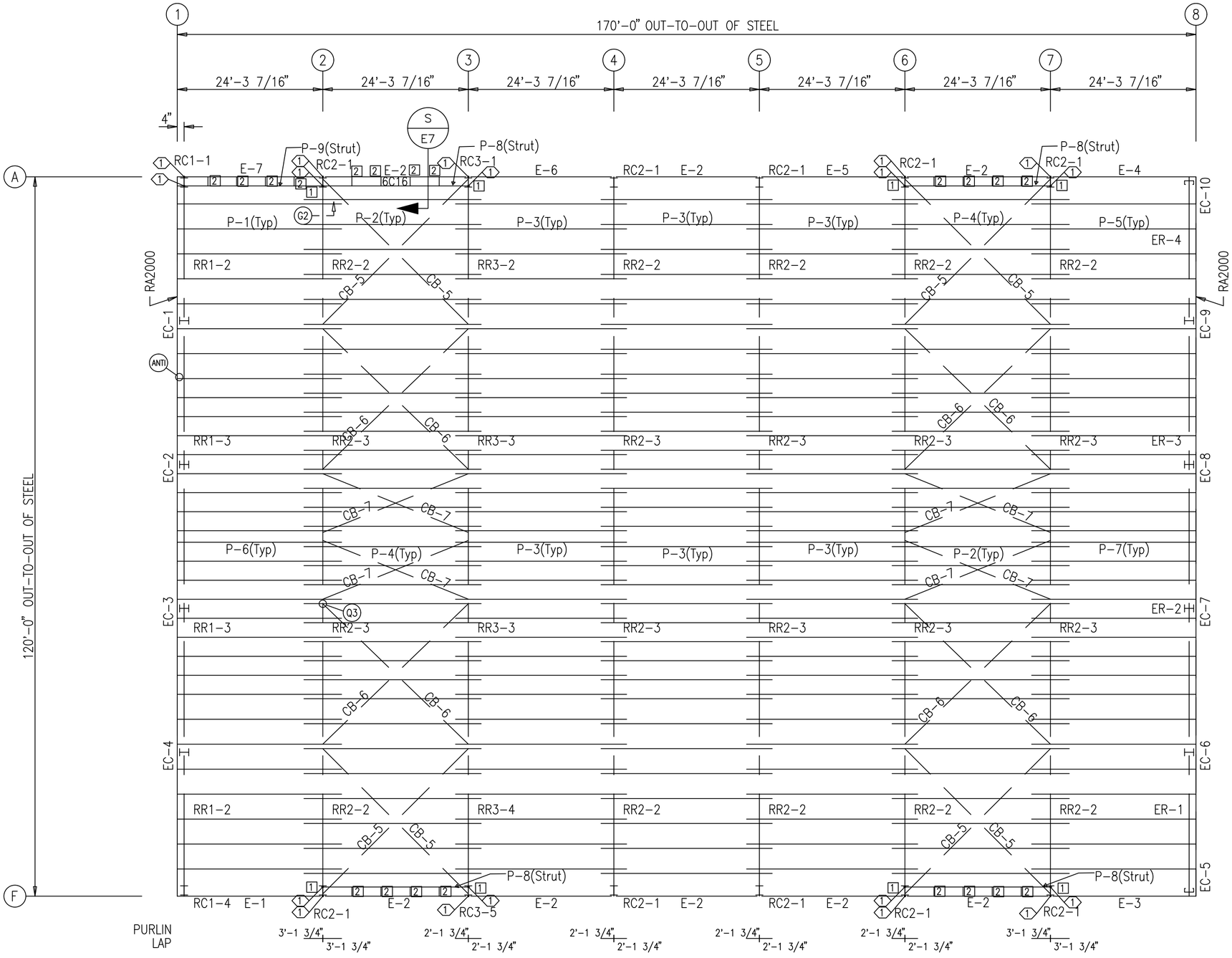
COLORADO LICENSED
MUSTAPHA I. CHREEIDE
49784
PROFESSIONAL ENGINEER

12/1/2023

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	10X25Z14
P-2	10X25Z14
P-3	10X25Z14
P-4	10X25Z14
P-5	10X25Z14
P-6	10X25Z14
P-7	10X25Z14
P-8	10X25Z16
P-9	10X25Z16
E-1	10ES141
E-2	10ES141
E-3	10ES141
E-4	10ES141
E-5	10ES141
E-6	10ES141
E-7	10ES141
CB-5	0.63_ROD
CB-6	0.50_ROD
CB-7	0.50_ROD

CONNECTION PLATES ROOF PLAN	
□ID	MARK/PART
1	AK106
2	AK330



UL580, CLASS 90 CONST. NUMBER 167

ROOF FRAMING PLAN

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PROJECT REFERENCE: REFORMATION CHURCH							
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DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583		DWG NO: E1	ISSUE: P2

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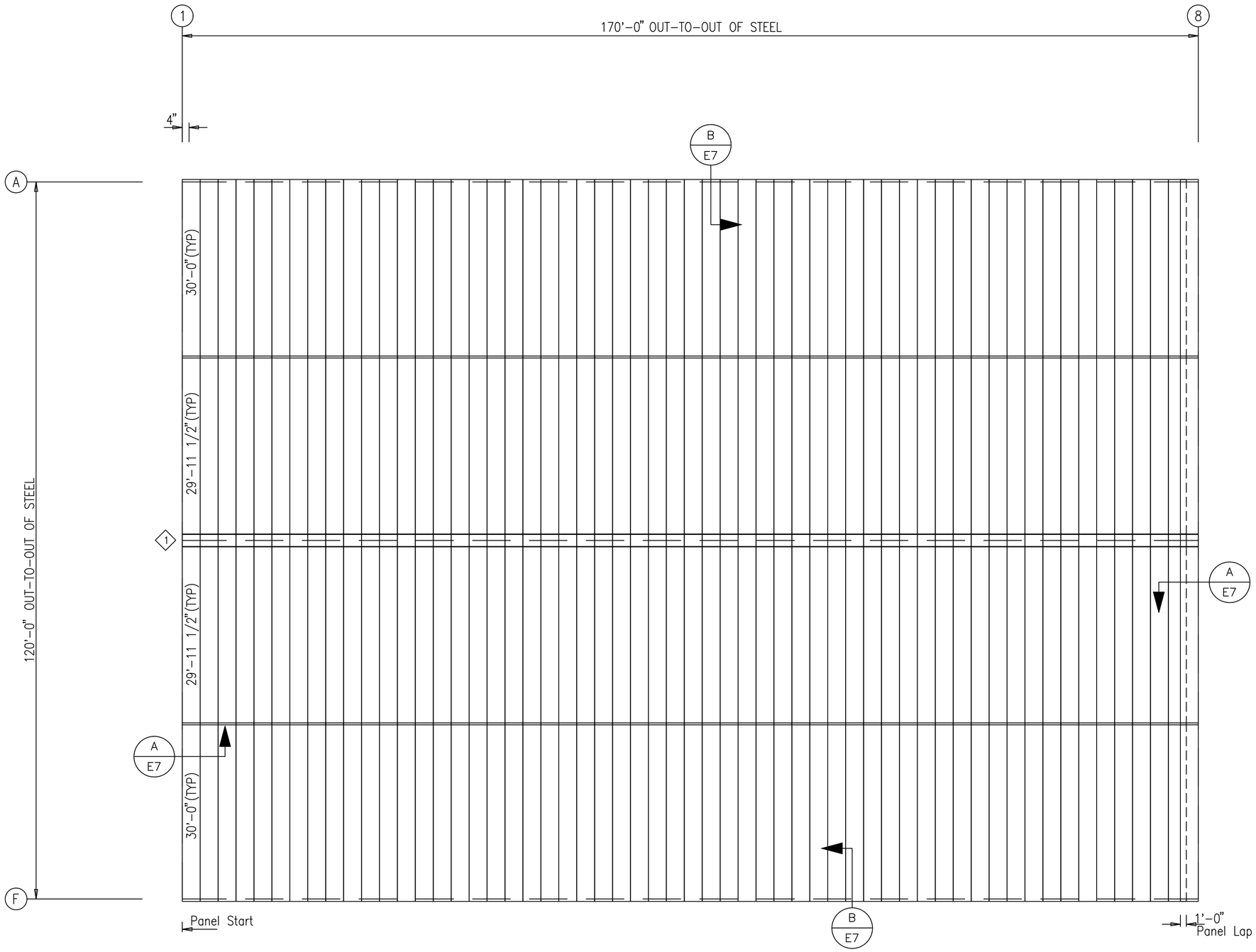
49784
PROFESSIONAL ENGINEER

12/1/2023

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



ROOF SHEETING PLAN

PANELS: 26 Ga. SSX – Galvalume Plus

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CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107
PROJECT REFERENCE: REFORMATION CHURCH					
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: E2 / ISSUE: P2

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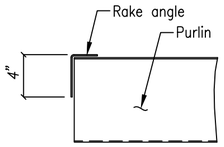
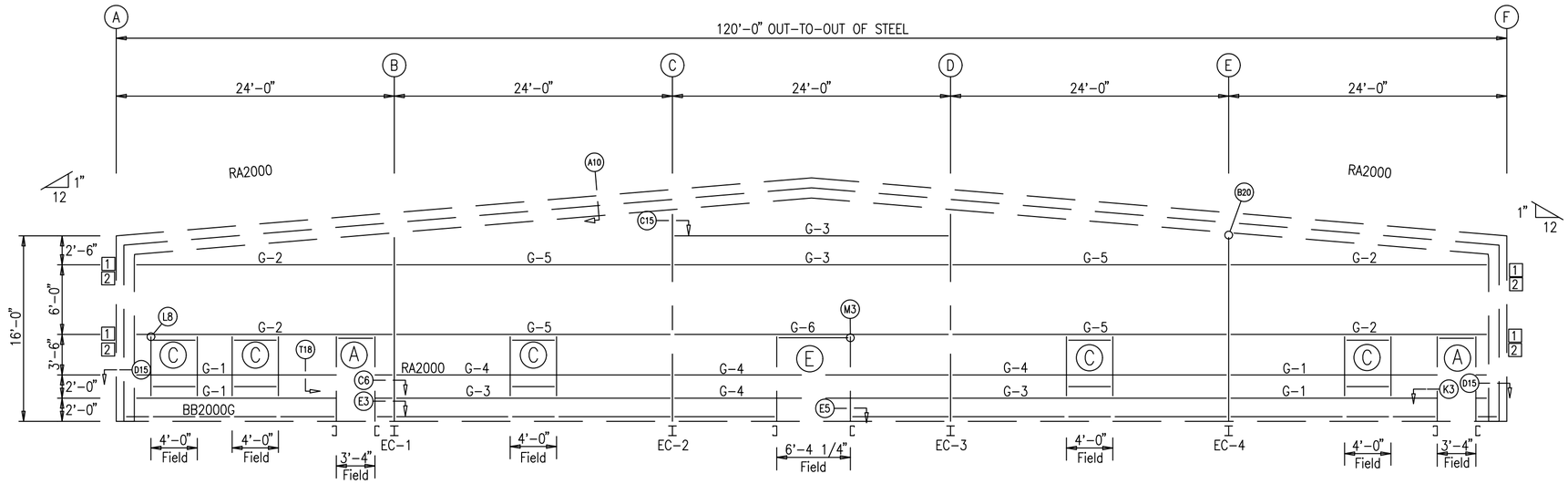


Detail at Rake Angle

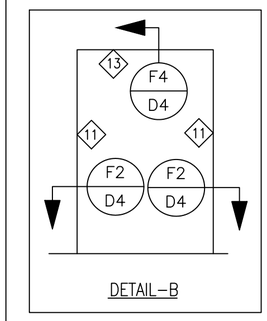
BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	4	A325	5/8"	1 1/2"

TRIM TABLE – THIS WALL ONLY FRAME LINE – 1		
◇ID	PART	LENGTH
1	CT-102	16'-4"
3	FL-72	20'-3"
4	RT-101	20'-3"
5	SPB	
7	FL-22	4'-4"
9	HT-101	4'-4"
11	FL-22	7'-6"
13	HT-101	3'-8"
15	FL-22	7'-7"
17	HT-101	6'-9"
18	WT-101	20'-3"
20	FL-26	4'-4"
21	SPCB-1L	
22	SPCB-1R	
23	SF-1L	
24	SF-1R	

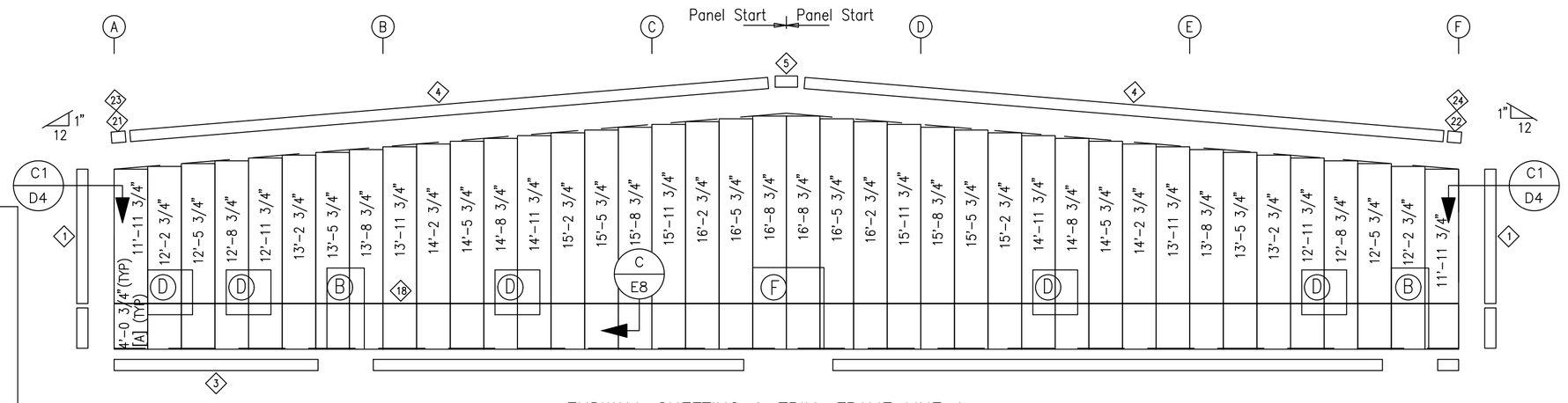
MEMBER TABLE FRAME LINE 1	
MARK	PART
EC-1	W8X10
EC-2	W8X10
EC-3	W8X10
EC-4	W8X10
DJ-1	8M25C14
DJ-2	8M25C14
DJ-3	8M25C14
PM106-1	PM106
PM106-2	PM106
PM106-3	PM106
DS-1	8M25C14
G-1	8X25Z16
G-2	8X25Z12
G-3	8X25Z14
G-4	8X25Z16
G-5	8X25Z12
G-6	8X35Z12



ENDWALL FRAMING: FRAME LINE 1



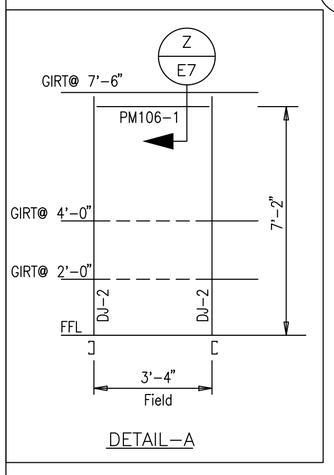
DETAIL–B



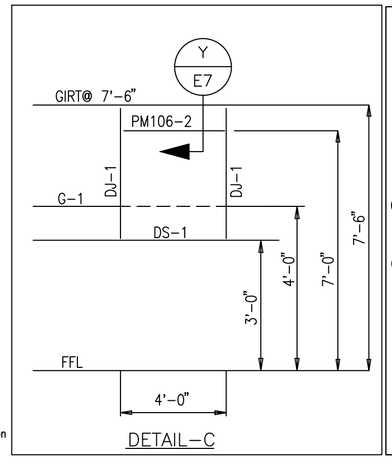
ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. SSX – SMP Ash Gray

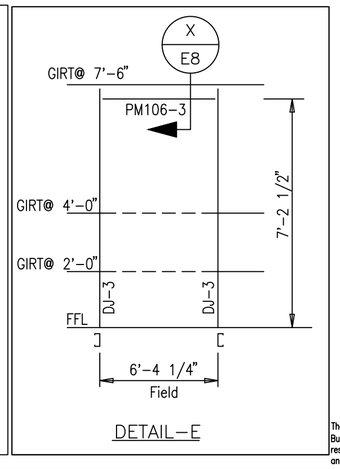
[A] PANELS: 26 Ga. SSX – SMP Burnished Slate



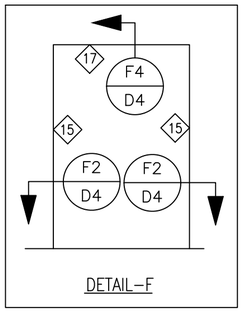
DETAIL–A



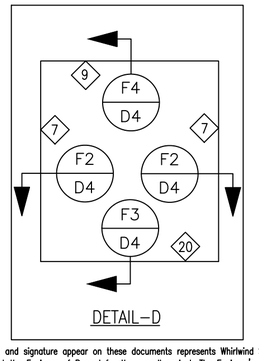
DETAIL–C



DETAIL–E



DETAIL–F



DETAIL–D

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

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-jambs for overhead doors, if required, is not furnished by Metal Building Provider

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7651 SHAFFER PARKWAY LITTLETON, CO 80127

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PROJECT REFERENCE: REFORMATION CHURCH						
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DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: E3	ISSUE: P2

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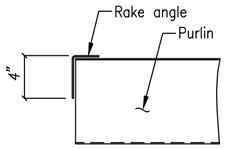
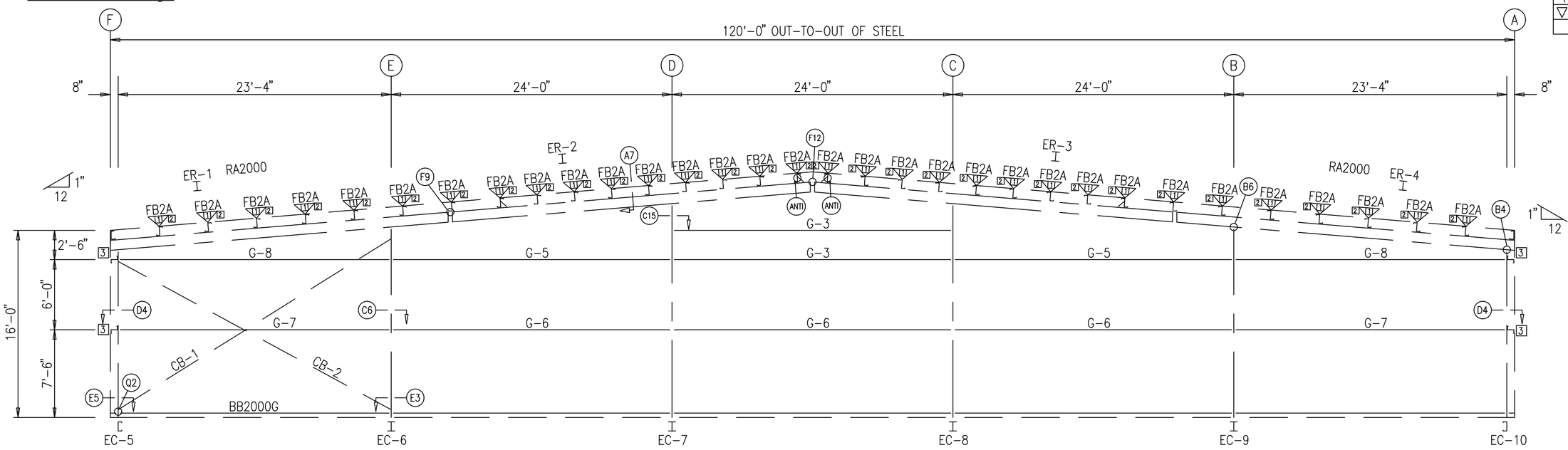


Detail at Rake Angle

BOLT TABLE FRAME LINE 8				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	2"
ER-2/ER-3	8	A325	5/8"	2"
ER-3/ER-4	8	A325	5/8"	2"
Columns/Raf	4	A325	5/8"	1 1/2"

FLANGE BRACE TABLE FRAME LINE 8		
▽ID	MARK	LENGTH
1	FB2A	2'-2 3/4"

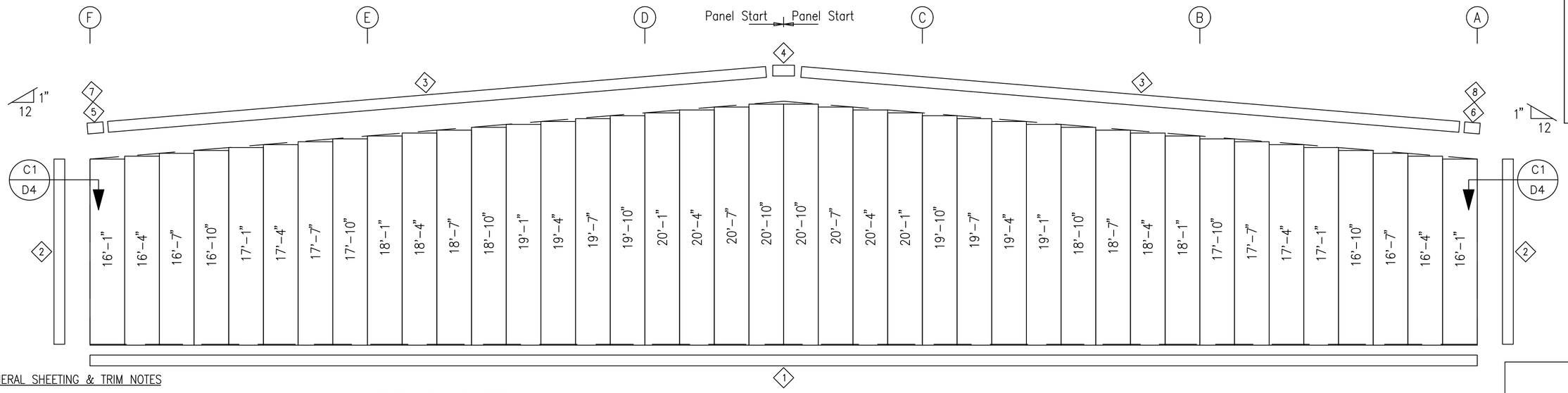
TRIM TABLE – THIS WALL ONLY FRAME LINE – 8		
◇ID	PART	LENGTH
1	FL-72	20'-3"
2	CT-102	16'-4"
3	RT-101	20'-3"
4	SPB	
5	SPCB1L	
6	SPCB1R	
7	SF-1L	
8	SF-1R	



ENDWALL FRAMING: FRAME LINE 8

CONNECTION PLATES FRAME LINE 8	
□ID	MARK/PART
1	AK227
2	AK230
3	SC-5

MEMBER TABLE FRAME LINE 8	
MARK	PART
EC-5	8M35C12
EC-6	W8X10
EC-7	W8X10
EC-8	W8X10
EC-9	W8X10
EC-10	8M35C14
ER-1	W12X14
ER-2	W12X14
ER-3	W12X14
ER-4	W12X14
G-3	8X25Z14
G-5	8X25Z12
G-6	8X35Z12
G-7	8X35Z12
G-8	8X25Z12
CB-1	0.31_CBL
CB-2	0.31_CBL



ENDWALL SHEETING & TRIM: FRAME LINE 8

PANELS: 26 Ga. SSX – SMP Ash Gray

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-jambs for overhead doors, if required, is not furnished by Metal Building Provider

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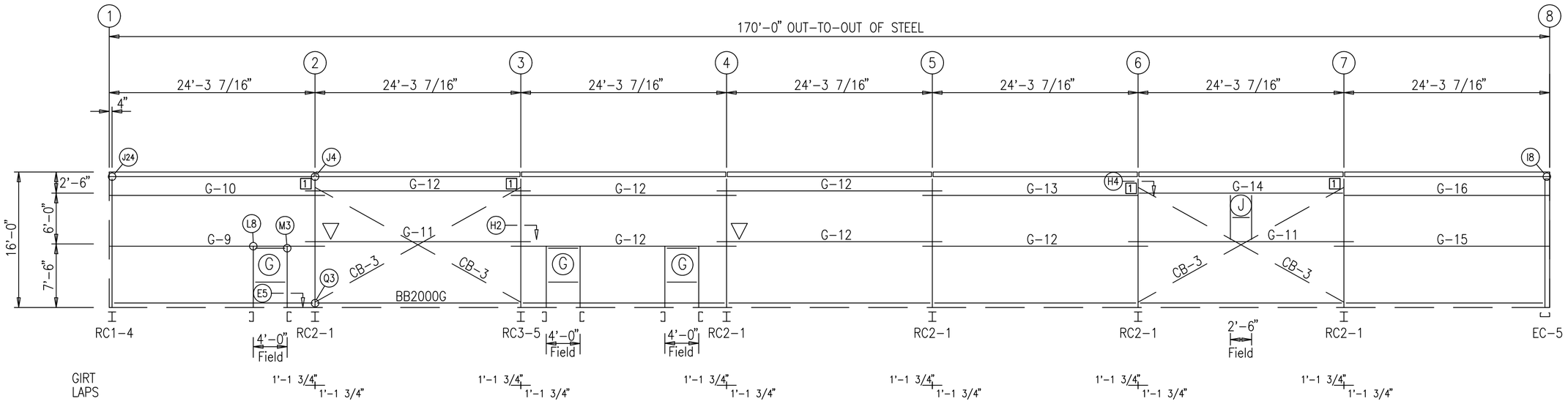
☐ FOR ERECTOR INSTALLATION:
Final drawings for construction.

METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

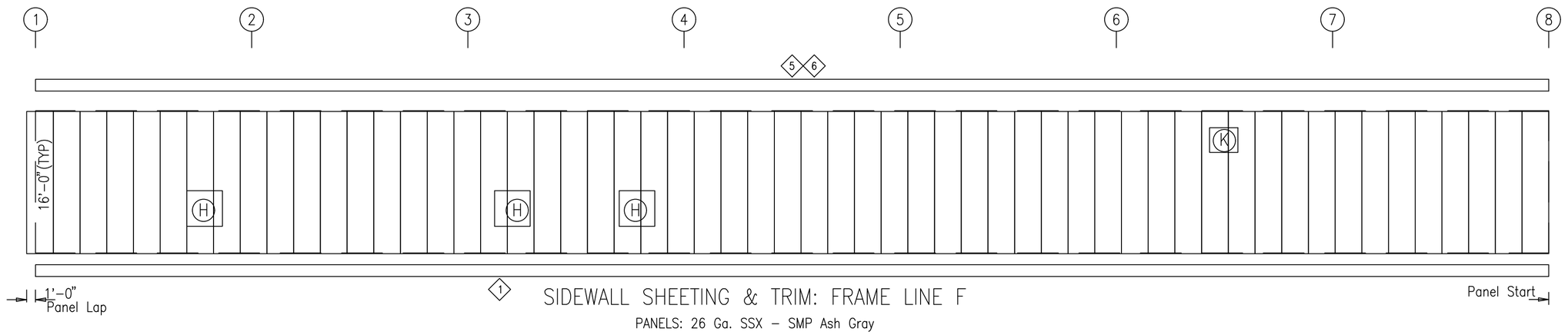
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION: ENDWALL FRAME & SHEETING ELEVATION					BLDG SIZE: 120'-0" x 170'-0" x 16'-0"
CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107
PROJECT REFERENCE: REFORMATION CHURCH					
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: E4 / ISSUE: P2

12/1/2023



SIDEWALL FRAMING: FRAME LINE F



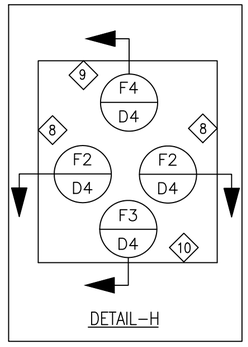
SIDEWALL SHEETING & TRIM: FRAME LINE F

PANELS: 26 Ga. SSX – SMP Ash Gray

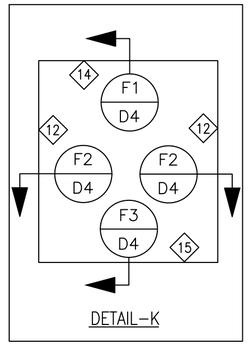
TRIM TABLE – THIS WALL ONLY FRAME LINE – F		
◇ID	PART	LENGTH
1	FL-72	20'-3"
5	ET-101	10'-3"
6	ET-101	20'-3"
8	FL-22	4'-4"
9	HT-101	4'-4"
10	FL-26	4'-4"
12	FL-22	1'-10"
14	HT-101	2'-10"
15	FL-26	2'-10"

MEMBER TABLE FRAME LINE F	
MARK	PART
DJ-4	8M25C14
DJ-5	8M25C14
PM106-2	PM106
DS-1	8M25C14
DS-2	8M25C14
G-9	8X25Z14
G-10	8X25Z16
G-11	8X25Z14
G-12	8X25Z16
G-13	8X25Z16
G-14	8X25C14
G-15	8X25Z14
G-16	8X25Z14
CB-3	1.00_ROD

CONNECTION PLATES FRAME LINE F	
□ID	MARK/PART
1	AK106



DETAIL-H



DETAIL-K

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

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2. Field cut or lap angles as required to fit.
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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.
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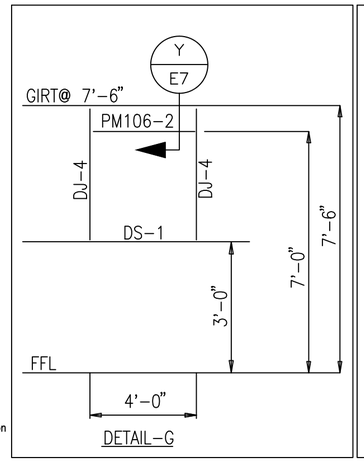
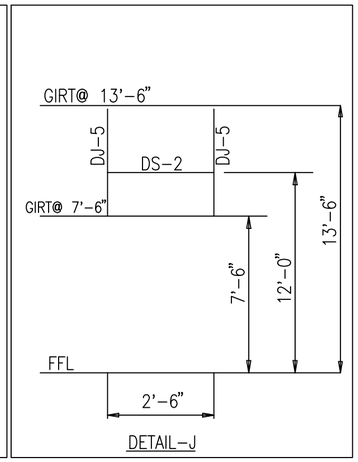
14. Sub-jambs for overhead doors, if required, is not furnished by Metal Building Provider



DETAIL-G



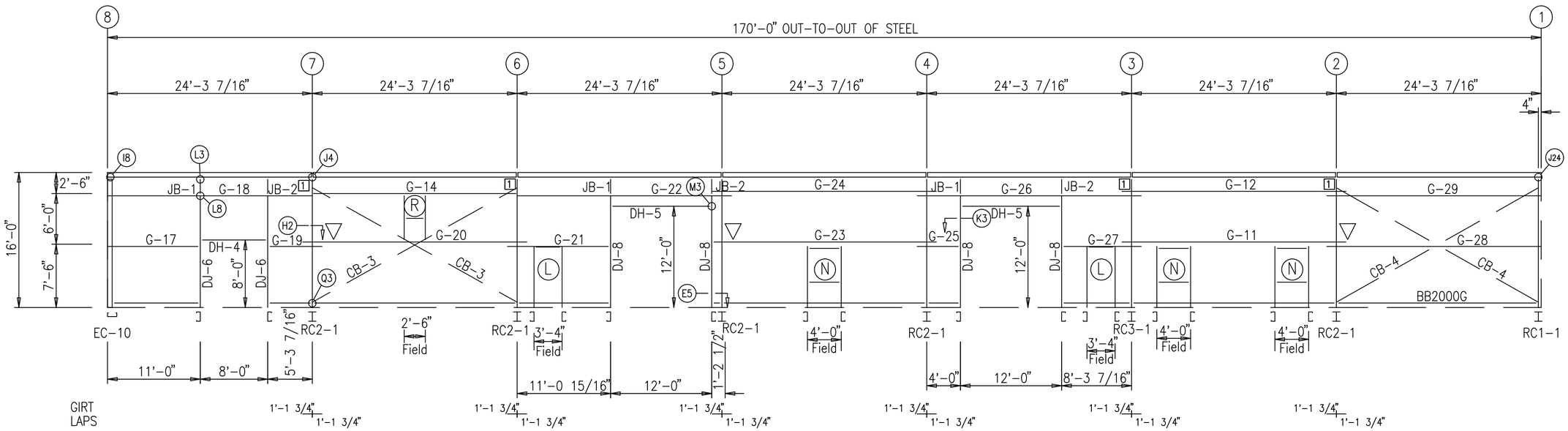
DETAIL-J

METALBUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

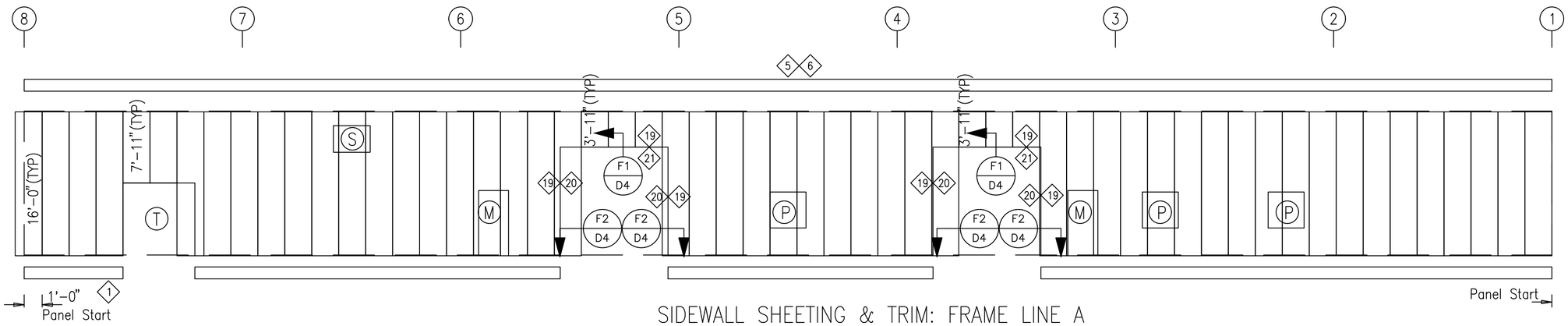
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

SHEET DESCRIPTION: SIDEWALL FRAME & SHEETING ELEVATION				BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH				CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH					
JOBSITE LOCATION: ELIZABETH, CO 80107				JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: E5 / ISSUE: P2

12/1/2023

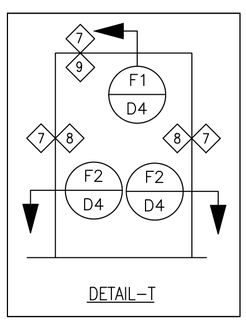


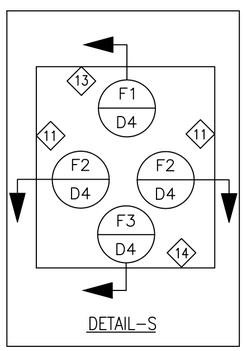
SIDEWALL FRAMING: FRAME LINE A

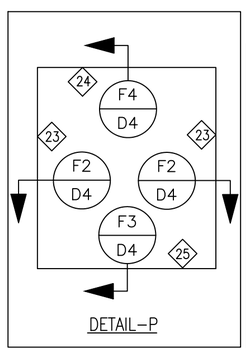


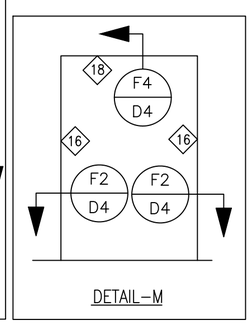
SIDEWALL SHEETING & TRIM: FRAME LINE A

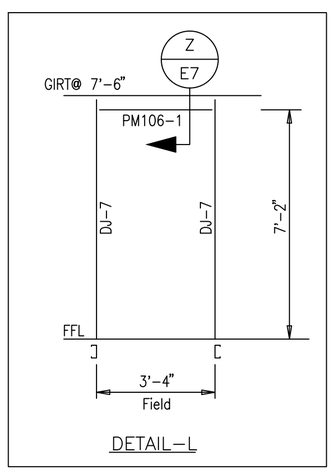
PANELS: 26 Ga. SSX – SMP Ash Gray

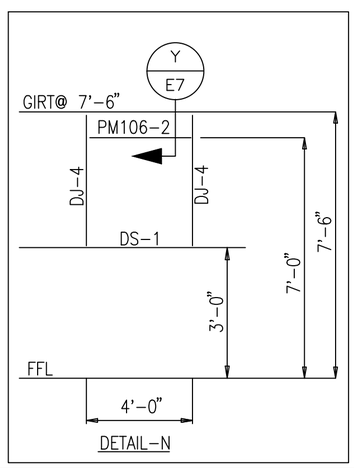


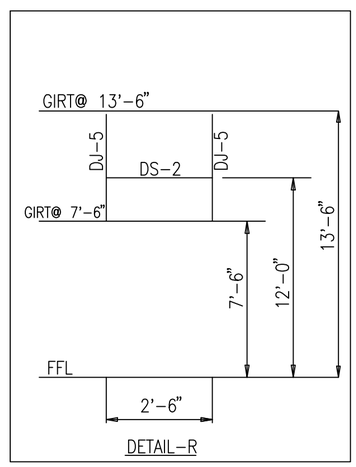












GENERAL SHEETING & TRIM NOTES

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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).
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7. Start endwall panels at centerline of bldg. unless noted.
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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.
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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.
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TRIM TABLE – THIS WALL ONLY
FRAME LINE – A

◇ID	PART	LENGTH
1	FL-72	20'-3"
5	ET-101	10'-3"
6	ET-101	20'-3"
7	MT-116B	8'-0"
8	FL-22	8'-3"
9	HT-101	8'-4"
10	MT-116B	1'-6"
11	FL-22	1'-10"
13	HT-101	2'-10"
14	FL-26	2'-10"
16	FL-22	7'-6"
18	HT-101	3'-8"
19	MT-116B	12'-0"
20	FL-22	12'-3"
21	HT-101	12'-4"
23	FL-22	4'-4"
24	HT-101	4'-4"
25	FL-26	4'-4"

MEMBER TABLE
FRAME LINE A

MARK	PART
DJ-4	8M25C14
DJ-5	8M25C14
DJ-6	8M35C14
DJ-7	8M25C14
DJ-8	8M35C14
PM106-2	PM106
PM106-1	PM106
DH-4	8M25C14
DH-5	8M25C14
DS-1	8M25C14
DS-2	8M25C14
JB-1	8M35C14
JB-2	8M35C14
G-11	8X25Z14
G-12	8X25Z16
G-14	8X25C14
G-17	8X25Z16
G-18	8X35Z12
G-19	8X35Z16
G-20	8X35Z16
G-21	8X35Z16
G-22	8X25Z12
G-23	8X35Z14
G-24	8X25Z16
G-25	8X35Z14
G-26	8X25Z14
G-27	8X25Z16
G-28	8X25Z14
G-29	8X25Z16
CB-3	1.00_ROD
CB-4	1.00_ROD

CONNECTION PLATES
FRAME LINE A

☐ID	MARK/PART
1	AK106

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7651 SHAFFER PARKWAY LITTLETON, CO 80127

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SHEET DESCRIPTION: SIDEWALL FRAME & SHEETING ELEVATION
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CUSTOMER LOCATION: ELIZABETH, CO 80107
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JOBSITE LOCATION: ELIZABETH, CO 80107
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DWN:	CHK:	DATE:	ENG:	JOB NO:	DWG NO:	ISSUE:
PND	PNC	11.27.23	KSR	9897-29583	E6	P2

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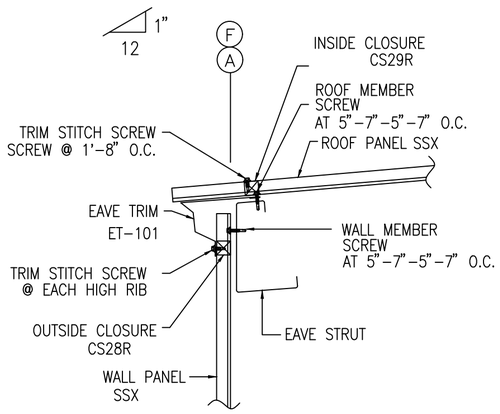
COLORADO LICENSED
MUSTAPHA I. CHREIEIDE
49784
PROFESSIONAL ENGINEER

12/1/2023



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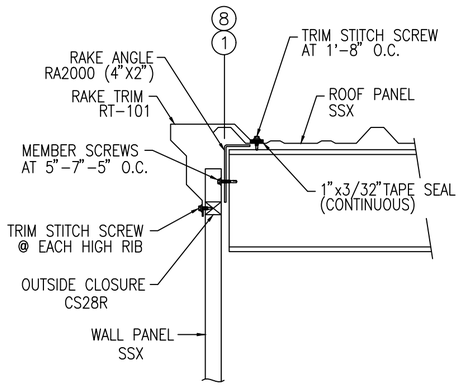

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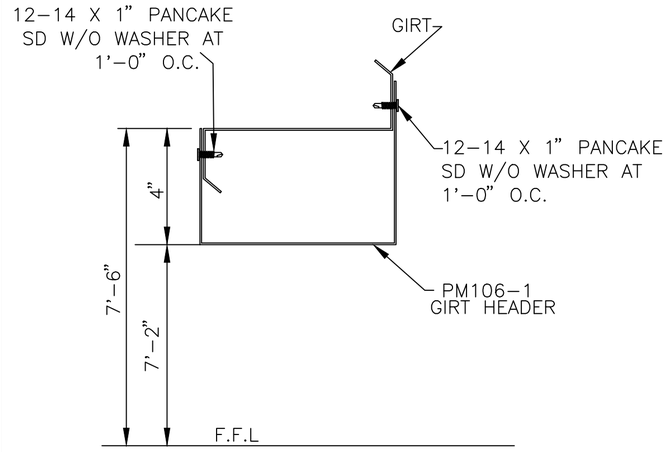

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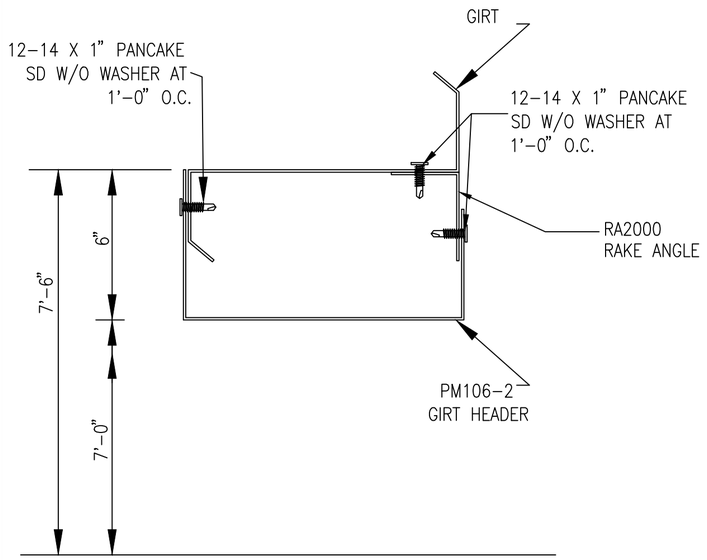
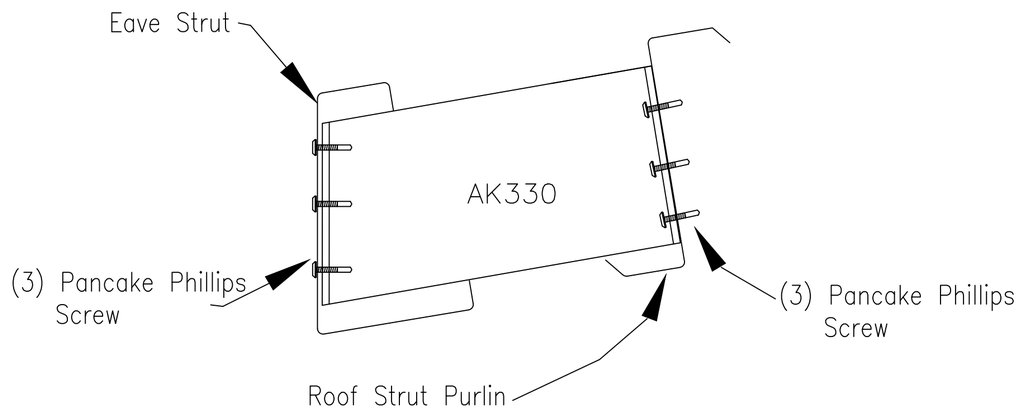


SECTION-Y



SECTION-S

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☐ FOR ERECTOR INSTALLATION:
Final drawings for construction.

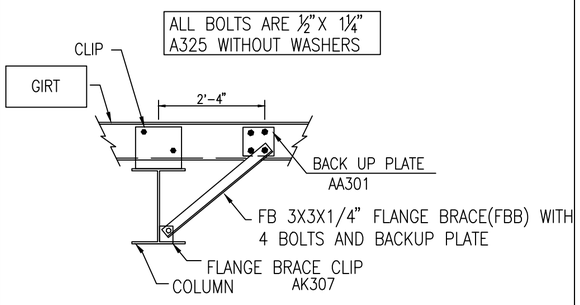
METAL BUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

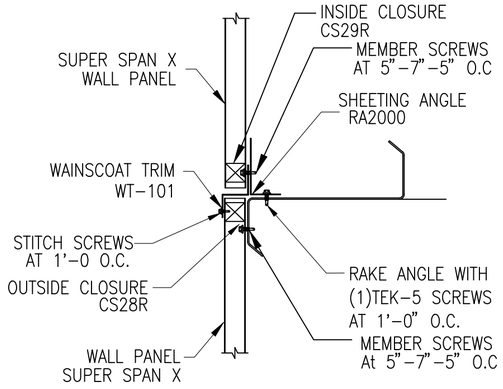
SHEET DESCRIPTION: BUILDING SECTIONS						BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH						CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH							
JOBSITE LOCATION: ELIZABETH, CO 80107						JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583		DWG NO: E7	ISSUE: P2

COLORADO LICENSED
MUSTAPHA I. CHREEIDE
49784
PROFESSIONAL ENGINEER

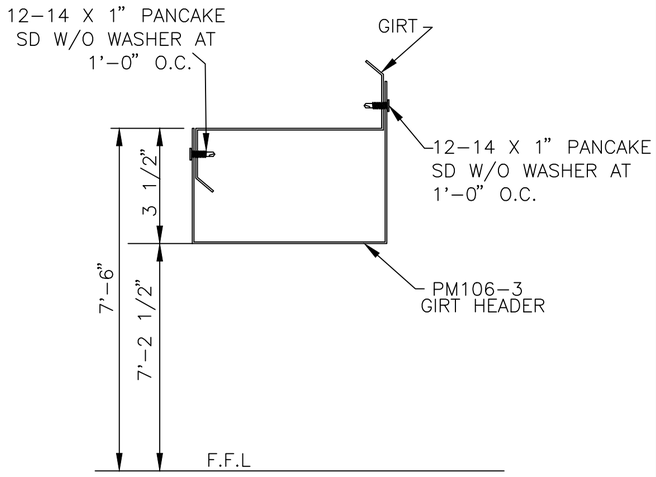
12/1/2023



FLANGE BRACE DETAIL



SECTION "C"



SECTION "X"

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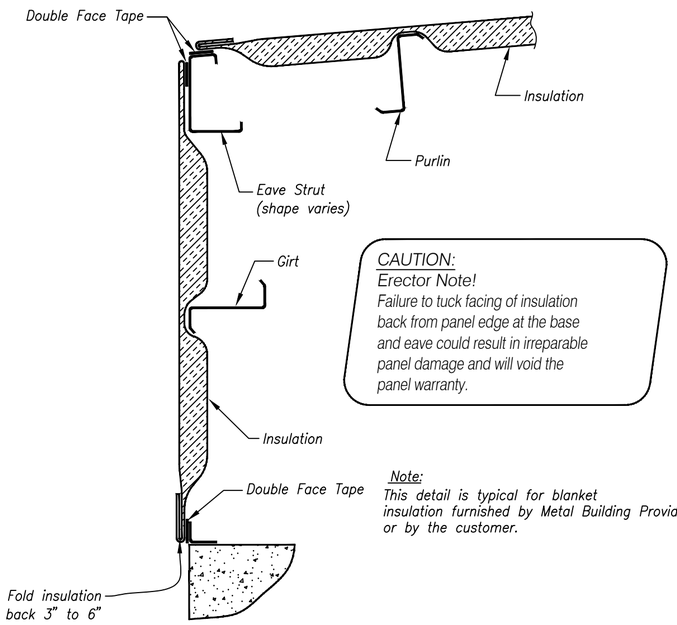
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583		DWG NO: E8	ISSUE: P2

COLORADO LICENSED
MUSTAPHA I. CHREIEIDE
49784
PROFESSIONAL ENGINEER

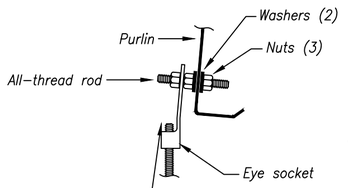
12/1/2023

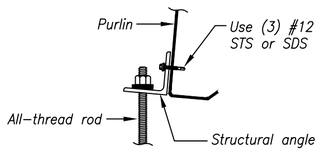


CAUTION:
Erector Note!
Failure to tuck facing of insulation back from panel edge at the base and eave could result in irreparable panel damage and will void the panel warranty.

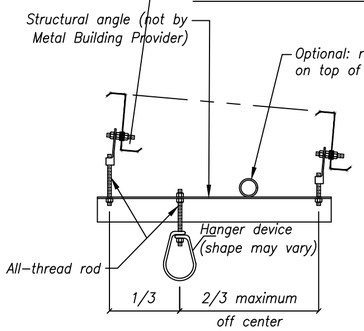
Note:
This detail is typical for blanket insulation furnished by Metal Building Provider or by the customer.

STANDARD DETAIL @ BLANKET INSULATION

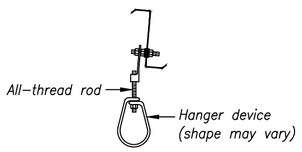




ACCEPTABLE CONNECTION METHODS

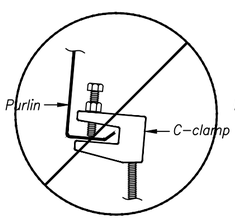


NOTE:
Metal Building Provider only provides the roof purlin. All other material and hardware is by others.

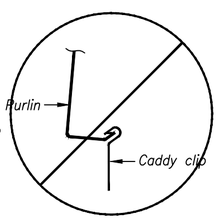


TRAPEZE HANGER ~ 4" MAX. PIPE

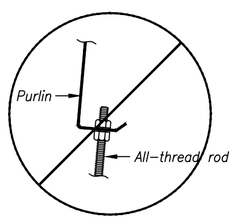
HANGER ~ 2-1/2" MAX. PIPE



Flange C-Clamp is not an acceptable connection

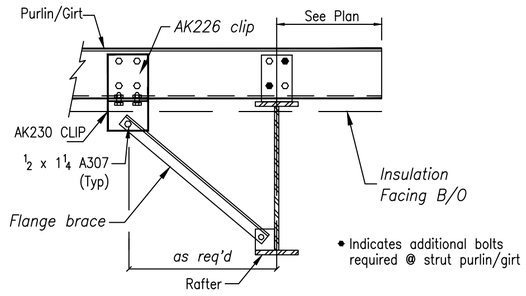


Caddy clip attached to lip is not an acceptable connection



Connection through the flange is not acceptable

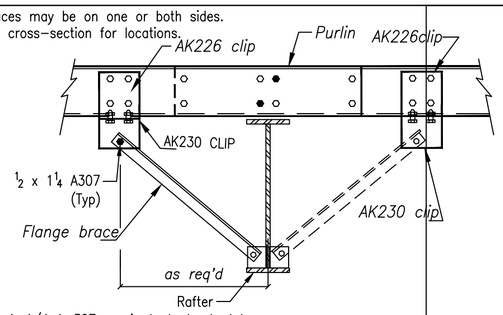
ACCEPTABLE CONNECTIONS FOR ALL COLLATERAL LOADS FOR HANGER ATTACHMENT



(6) 1/2" x 1–1/4A–307 required at standard laps.
(8) 1/2" x 1–1/4 Required at strut members.
(A strut member is a purlin or girt at the bracing points. The struts continue across the length of the building.)
See E–drawing for exceptions to size and quantity of bolts.

END DETAIL

Note: Flange braces may be on one or both sides.
See frame cross–section for locations.



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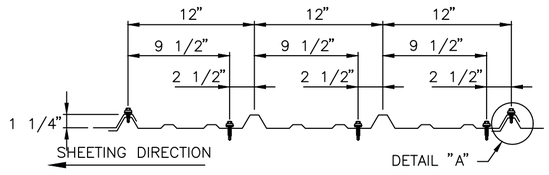
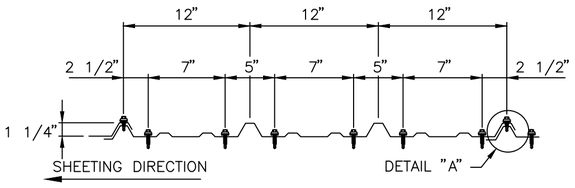
See E–drawing for exceptions to size and quantity of bolts.

LAP DETAIL

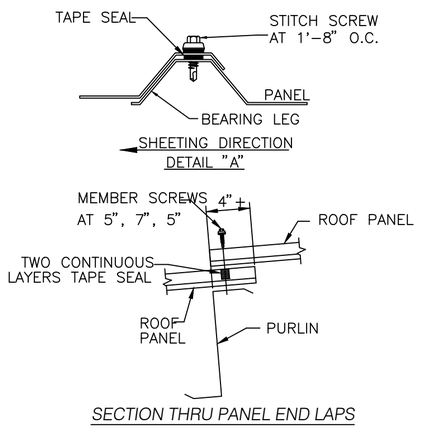


ALL ROOF MEMBERS EXCEPT AS NOTED BELOW



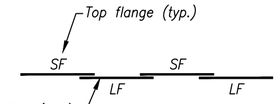
AT EAVE STRUT, PANEL END LAP, AND PEAK PURLIN

FASTENER LOCATION FOR "SUPER SPAN X" ROOF PANEL

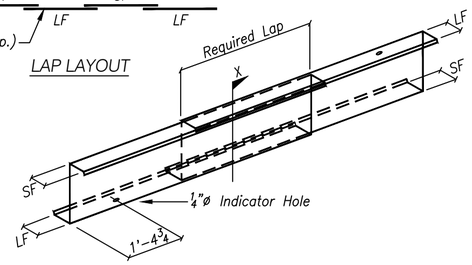


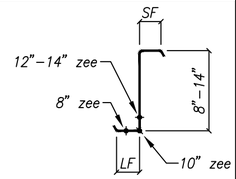
SECTION THRU PANEL END LAPS

Notes:
1. Rotate each zee as required to alternate between long and short flanges.
2. The ¼"ø hole 1'–4¾ from each end is located nearest the long flange.
3. Lap connection bolts are omitted for clarity.

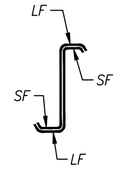


LAP LAYOUT





1/4" INDICATOR HOLE LOCATION

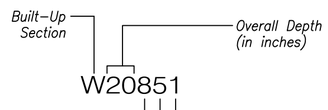


SECTION "X"

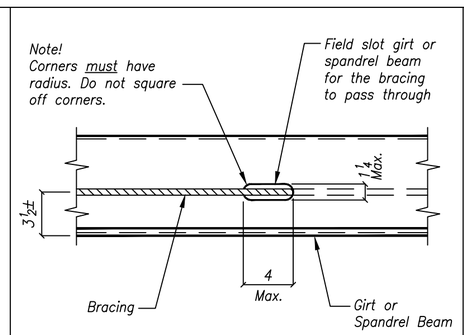
LF = Long Flange
SF = Short Flange

ZEE LAP DETAIL @ THE LONG AND SHORT FLANGES

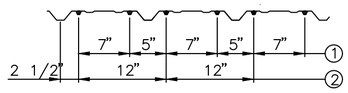
BUILT-UP SECTION LEGEND



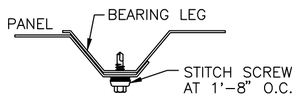
Flange Width (in inches)	Flange Thickness (in inches)		Web Thickness (in inches)
5 = 5	3 = 3/16	8 = 1/2	1= 10ga.
6 = 6	4 = 1/4	0 = 5/8	2= 8ga.
8 = 8	5 = 5/16	2 = 3/4	3= 3/16
0 = 10	6 = 3/8	1 = 1	4= 1/4
2 = 12			6= 3/8



DETAIL @ FIELD LOCATED BRACING SLOT



"SUPER SPAN X" PANEL



SHEETING DIRECTION

MEMBER SCREWS

① = AT BASE, RAKE, EAVE, AND MID SPAN END LAPS

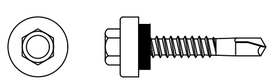
② = AT INTERMEDIATE MEMBER, AND AT OPTIONAL LINER PANEL

FASTENER LOCATION FOR WALL PANEL (SUPER SPAN X)

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

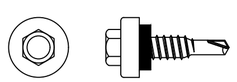
STANDARD FASTENERS MISCELLANEOUS

Description: 12–14 x 1¼ Hex Head Undercut (#12 x 1¼ Long–Life #3 Long Pilot Point Self–Drilling 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



Actual Size

Description: ¼–14 x ⅞ Hex Head Undercut (#14 x ⅞ 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



Actual Size

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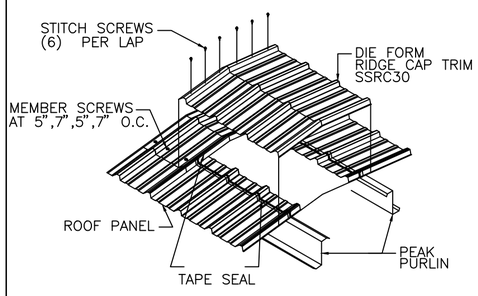
ALPHA I. CHAKEIDE
49784
PROFESSIONAL ENGINEER

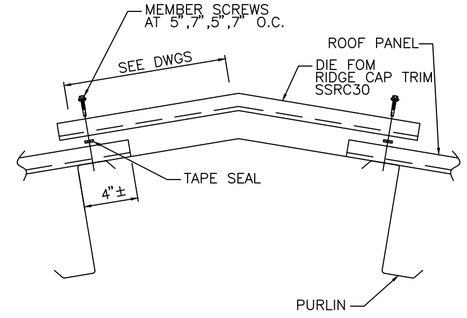
12/1/2023

INSULATION NOT BY
METAL BUILDING PROVIDER

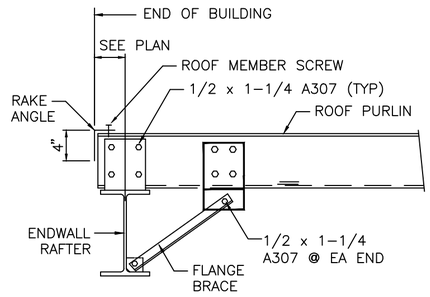


TRIM_54 DIE FORMED RIDGE CAP INSTALLATION (SUPER SPAN X)

INSULATION NOT BY
METAL BUILDING PROVIDER

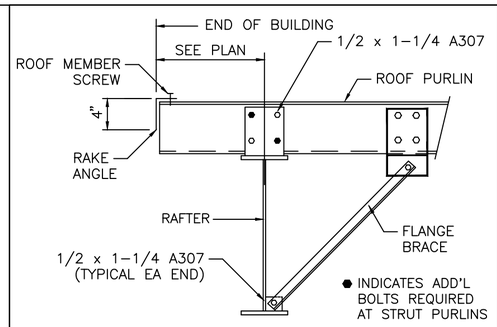


TRIM_55 DIE FORM RIDGE CAP INSTALLATION (SUPER SPAN X)



IN CERTAIN CONDITIONS DIFFERENT BOLTS SIZES MAY BE REQUIRED. IN THESE INSTANCES THE REQUIRED BOLTS WILL BE SHOWN ON THE ERECTION PLANS.

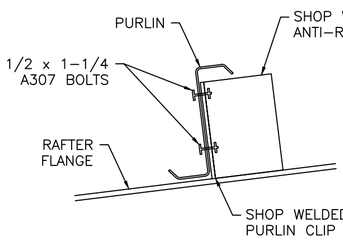
A7 ROOF PURLIN CONNECTION AT I-SHAPE ENDWALL RAFTER



(2) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS
(4) 1/2 x 1-1/4 A307 REQUIRED AT STRUT MEMBERS

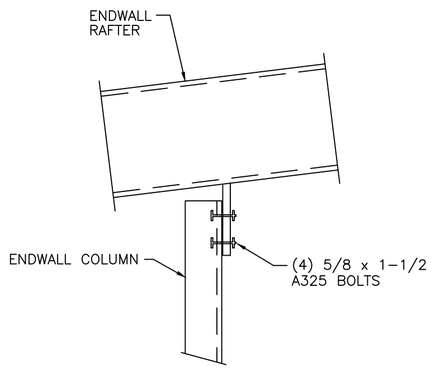
A STRUT PURLIN IS A PURLIN LOCATED AT THE BRACE POINTS. SEE PLANS FOR EXCEPTION TO SIZE & QTY OF BOLTS.

A10 ROOF PURLIN CONNECTION AT MAIN FRAME ENDWALL

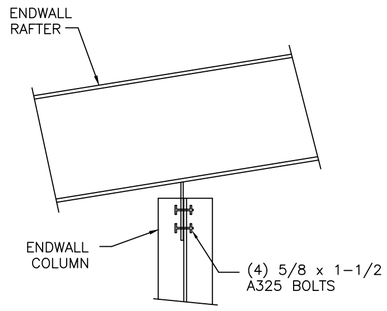


SOME PURLIN CLIPS WILL HAVE AN ADDITIONAL ANTI-ROLL CLIP ATTACHED. THE QUANTITY AND SPACING OF THESE CLIPS IS DETERMINED BY THE DESIGN FOR EACH SPECIFIC BUILDING.

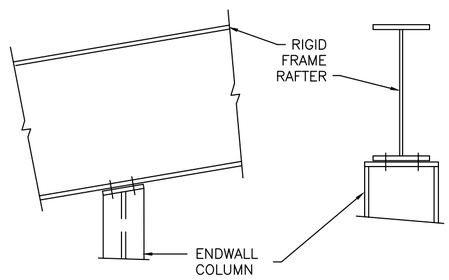
ANTI DETAIL AT ANTI-ROLL CLIP



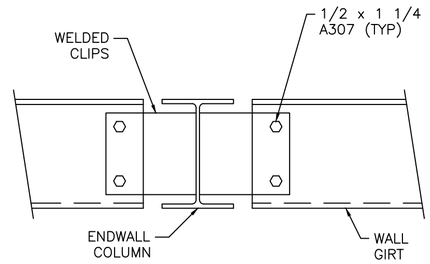
B4 ENDWALL RAFTER TO COLUMN



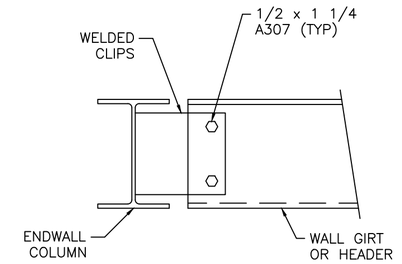
B6 ENDWALL RAFTER TO COLUMN



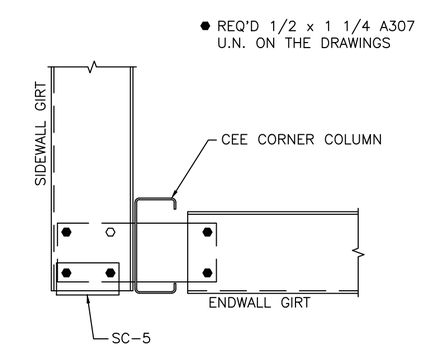
B20 COLUMN TO RIGID FRAME RAFTER



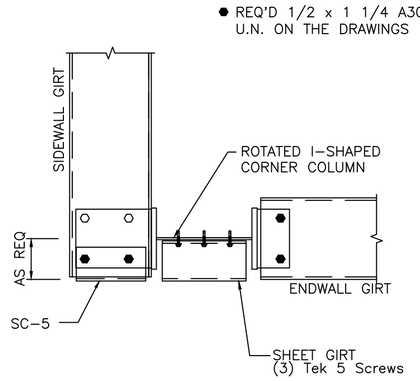
C6 ENDWALL GIRT TO COLUMN



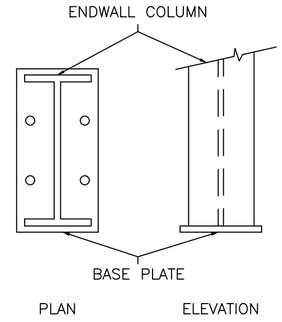
C15 GIRT/HEADER TO COLUMN



D4 GIRT TO CEE CORNER COLUMN

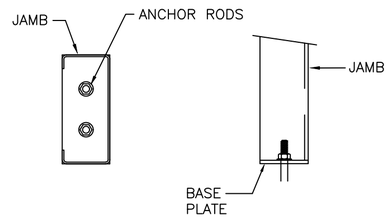


D15 CORNER COLUMN TO WALL GIRT



SEE BOLT SETTING PLAN FOR ACTUAL BOLT QTY.

E3 BASE PLATE FOR ENDWALL COLUMN



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

E5 BASE PLATE FOR DOOR JAMB

☐ FOR APPROVAL:
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Final drawings for construction.

METAL BUILDING OUTLET CORP.
7651 SHAFFER PARKWAY LITTLETON, CO 80127

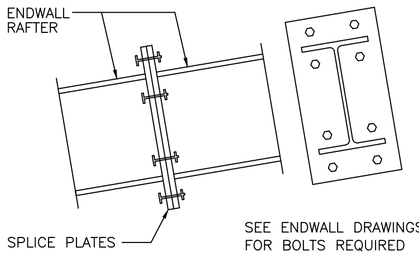
ISSUE	DATE	DESCRIPTION	BY	CHK
P1	09.12.22	FOR CONSTRUCTION PERMIT	PND	PNC
P2	11.27.23	REV FOR CONSTRUCTION PERMIT	PND	PNC

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.

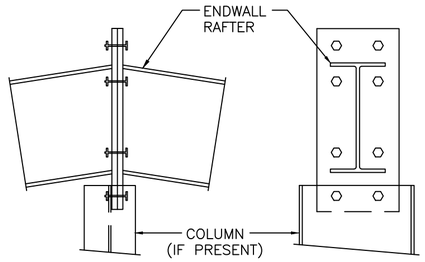
SHEET DESCRIPTION: STANDARD DETAIL PAGE					BLDG SIZE: 120'-0" x 170'-0" x 16'-0"	
CUSTOMER: REFORMATION CHURCH					CUSTOMER LOCATION: ELIZABETH, CO 80107	
PROJECT REFERENCE: REFORMATION CHURCH						
JOBSITE LOCATION: ELIZABETH, CO 80107					JOBSITE COUNTY: ELBERT	
DWN: PND	CHK: PNC	DATE: 11.27.23	ENG: KSR	JOB NO: 9897-29583	DWG NO: D2	ISSUE: P2

COLORADO LICENSED
MUSTAPHA I. CHREIDIE
49784
PROFESSIONAL ENGINEER

12/1/2023



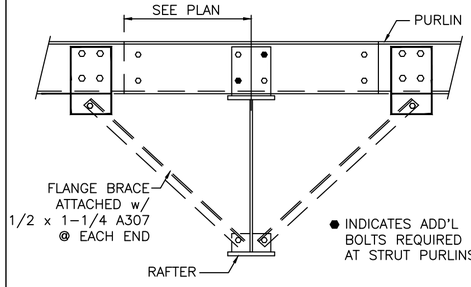
F9 RAFTER SPLICE ALONG SURFACE



SEE ENDWALL DRAWING FOR BOLT SIZE AND TYPE

F12 RAFTER SPLICE AT SURFACE CHANGE

FLANGE BRACES MAY BE ON ONE OR BOTH SIDES
SEE FRAME CROSS-SECTION FOR LOCATIONS

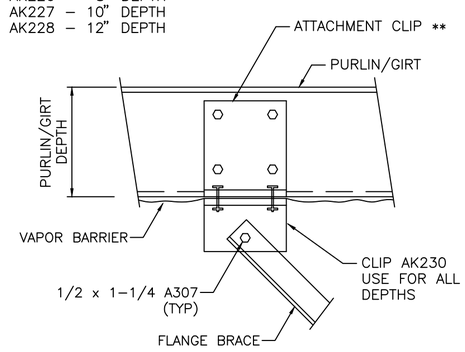


(6) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS
(8) 1/2 x 1-1/4 REQUIRED AT STRUT MEMBERS

A STRUT MEMBER IS A PURLIN LOCATED AT THE BRACE POINTS.
SEE PLANS FOR EXCEPTIONS TO SIZE & QTY OF BOLTS.

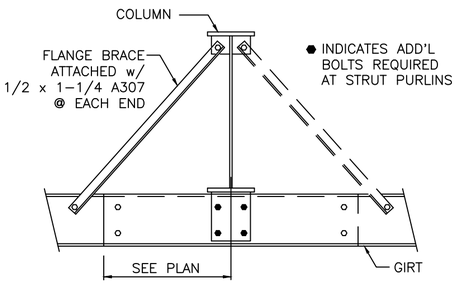
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER

** CLIP PART MARK
AK226 – 8" DEPTH
AK227 – 10" DEPTH
AK228 – 12" DEPTH



G26 FLANGE BRACE TO PURLIN/GIRT CLIPS OPTIONAL USE WITH VAPOR BARRIER

FLANGE BRACES MAY BE ON ONE OR BOTH SIDES
SEE FRAME CROSS-SECTION FOR LOCATIONS



(6) 1/2 x 1-1/4 A307 REQUIRED AT STANDARD LAPS
(8) 1/2 x 1-1/4 A307 REQUIRED AT STRUT MEMBERS

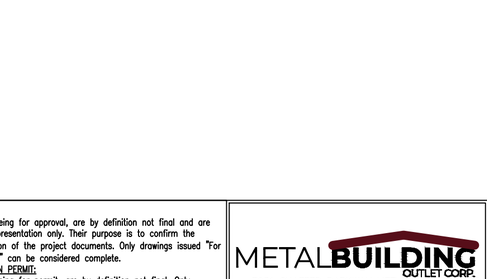
A STRUT MEMBER IS A PURLIN LOCATED AT THE BRACE POINTS.
SEE PLANS FOR EXCEPTION TO SIZE & QTY OF BOLTS.

H2 WALL GIRT TO FRAME COLUMN

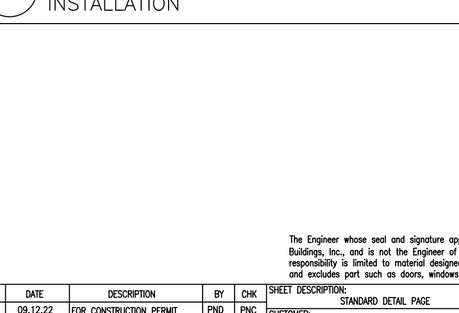
FLANGE BRACES MAY BE ON ONE OR BOTH SIDES
SEE FRAME CROSS-SECTION FOR LOCATIONS

H4 WALL GIRT TO INTERIOR FRAME COLUMN

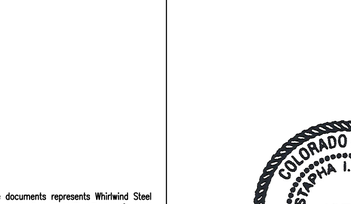
I8 EAVE STRUT TO ENDWALL RAFTER



J4 EAVE STRUT TO RIGID FRAME

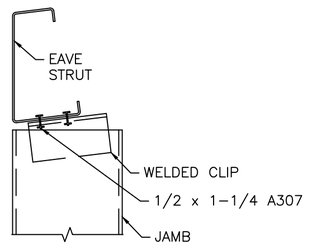


J24 EAVE STRUT TO RIGID FRAME

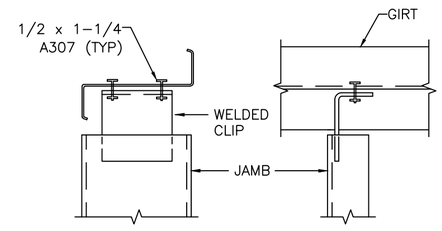


K3 WALL GIRT TO DOOR JAMB

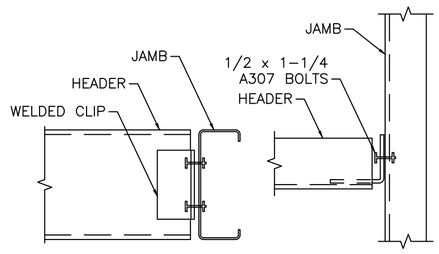
SEE ROOF PLAN FOR LOCATIONS & PART MARKS



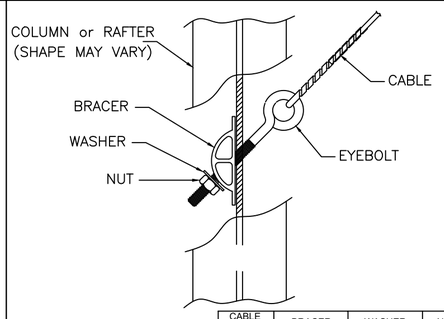
L3 DOOR JAMB TO EAVE STRUT (OPTIONAL REINFORCEMENT SHOWN)



L8 DOOR JAMB TO WALL GIRT



M3 HEADER TO CEE JAMB



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"

Q2 DIAGONAL CABLE BRACING INSTALLATION

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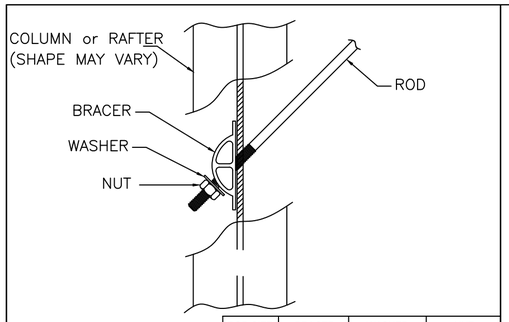
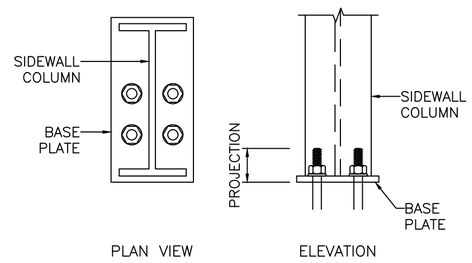


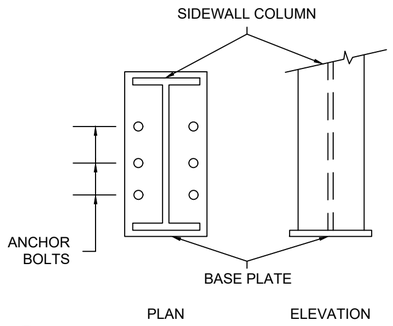
ROD SIZE	BRACER	WASHER	NUT
1/2"	BRACER #1	F844 1/2"	A563 1/2"
5/8"	BRACER #1	F844 5/8"	A563 5/8"
3/4"	BRACER #2	F844 3/4"	A563 3/4"
1"	BRACER #3	F844 1"	A563 1"
1 1/4"	BRACER #4	F844 1 1/4"	A563 1 1/4"

Q3 DIAGONAL ROD BRACING INSTALLATION

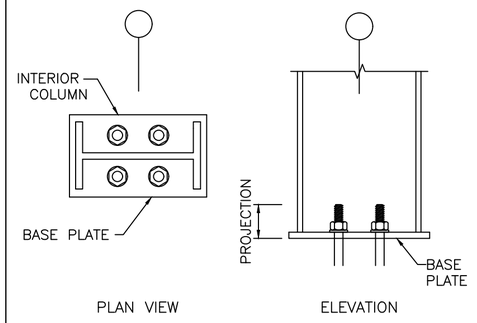


- ALL ANCHOR RODS (BY OTHERS) TO HAVE NUTS AND FLAT WASHERS.
- SEE BOLT SETTING PLAN FOR ACTUAL BOLT QTY.

R2 ANCHOR RODS AT SIDEWALL COLUMN

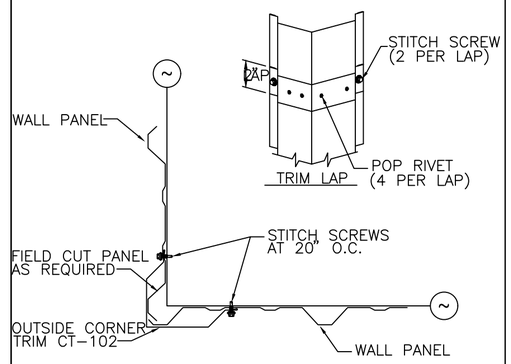


R3 ANCHOR BOLTS AT SIDEWALL COLUMN

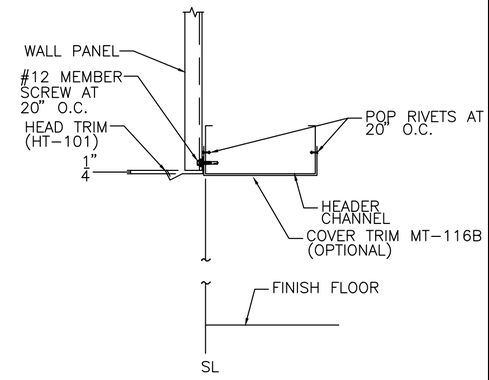


- ALL ANCHOR RODS (BY OTHERS) TO HAVE NUTS AND FLAT WASHERS.
- SEE BOLT SETTING PLAN FOR ACTUAL BOLT QTY.

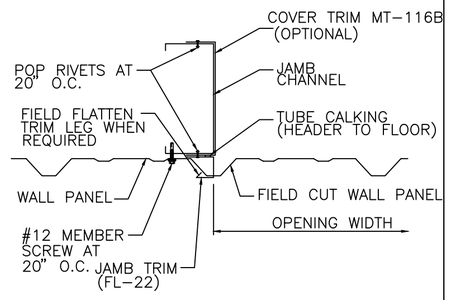
S2 ANCHOR RODS AT INTERIOR COLUMN



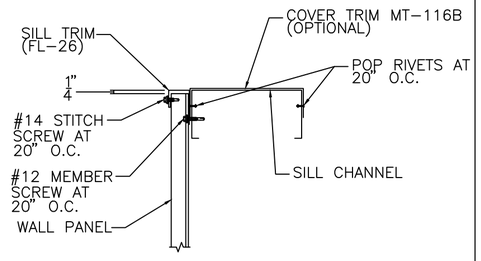
C1 CORNER TRIM INSTALLATION (SUPER SPAN X)



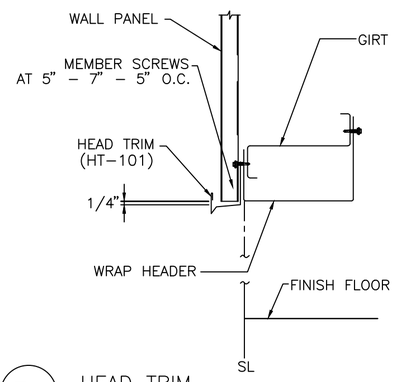
F1 HEAD TRIM DETAIL (SUPER SPAN X)



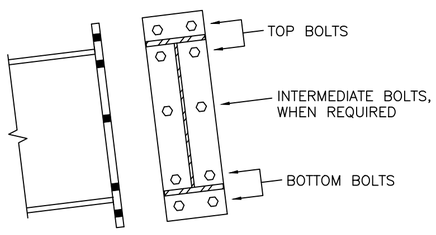
F2 JAMB TRIM DETAIL (SUPER SPAN X)



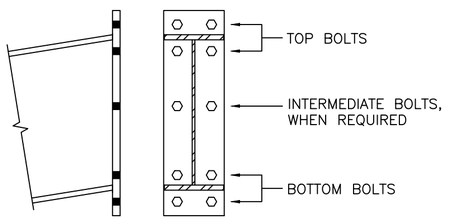
F3 SILL TRIM DETAIL (SUPER SPAN X)



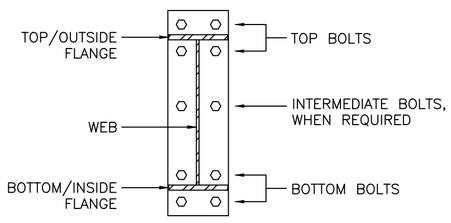
F4 HEAD TRIM INSTALLATION (SUPER SPAN X PANEL)



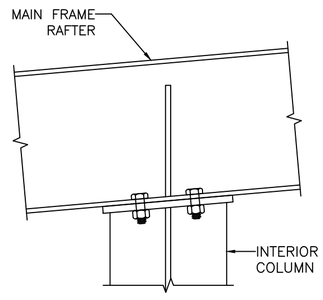
U1 BOLTED END PLATE RAFTER SPLICE



U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



- SHAPE OF RAFTER MAY VARY. SEE FRAME CROSS-SECTION FOR ACTUAL PROFILE AND DIMENSIONS.
- SEE CROSS-SECTION FOR CONN. BOLT REQUIREMENTS.

V2 INTERIOR COLUMN TO RAFTER CONN.

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