APPROVAL NOTES

1. Approval of MBO drawings and/or calculations indicates that MBO has correctly interpreted the contract requirements. This approval constitutes the CUSTOMER acceptance of the MBO design, concepts, assumptions, and loadings. (Section 4 AISC Code 13th Edition and MBMA 3.3.3).
2. Failure to respond to clouded areas and areas to verify may result in additional costs and/or schedule delays for which MBO will not be responsible.
3. Any changes made after the CUSTOMER has signed and returned the approval drawings and/or calculations and the project is released for production shall be billed to the CUSTOMER including material, engineering, and other cost. An additional fee may be charged if the project must be moved from the engineering and/or the production/drafting 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 CUSTOMER.
7. MBO reserves the right to resubmit drawings with extensive or complex changes required to avoid fabrication errors. 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 MBO and its CUSTOMER are not binding on MBO unless subsequently specifically acknowledged and agreed to in writing by change order or separate documentation.
9. The CUSTOMER approves of all notes and conditions on the drawings and/or calculations by signing an Approval Drawing Waiver Form.

GENERAL NOTES

1. Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels or cutting panels for framed openings not shown is prohibited.
2. Oil-canning, a perceived waviness inherent to light gauge metal, may exist. This condition does not affect the structural integrity or the finish of the panel, and therefore is not a cause for rejection.
3. The primer for all cold-formed structural framing members contain a "wax-type" lubricant to facilitate roll-forming. Hair-line crazing which may occur during forming operations is considered normal and is not a cause for rejection.
4. All other primed structural members are given one shop coat (1.0 mils) of standard red-oxide primer designed for short term field protection. This paint is not intended for long term exposure to the elements.
5. All bolts are 1/2" x 1-1/4" A307 except:
   - 5.1. Eave Strut Connection $\frac{5}{8}$" diam. x 1 $\frac{1}{4}$" A307
   - 5.2. End Wall Rafter Splice $\frac{3}{8}$" diam. x 1 $\frac{3}{4}$" A325-N
   - 5.3. End Wall Column to Rafter Connection $\frac{5}{8}$" diam. 1 $\frac{1}{4}$" A325-N
   - 5.4. Main Frame Connections see Cross Section.

   Note: Washers are not supplied unless noted otherwise on drawing.
6. All high strength bolts are A325 unless specifically noted otherwise. All high strength bolts (A325, A490) are to be installed using the turn-of-the-nut method specified in the "Specification for Structural Joints Using ASTM A325 or A490 Bolts" in the AISC Manual. 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, insulation types other than 3" standard duty fiberglass blanket insulation, etc.
8. Fabrication shall be in accordance with MBO's standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3".

MATERIALS	ASTM DESIGNATION	MIN. YIELD STRENGTH
Hot Rolled Steel Shapes (W, S, C & L)	A572 / A529	Fy = 50 KSI
Hot Rolled Steel Shapes (W)	A992	Fy = 50 KSI
Round Structural Tubing (HSS)	A500	Fy = 42 KSI
Square / Rect. Structural Tubing	A500	Fy = 46 KSI
Structural Steel Web Plate	A572 / A1011	Fy = 55 KSI
Structural Steel Flange Plates / Bars	A529 / A572	Fy = 55 KSI
Cold Formed Light Gage	A653 / A1D11	Fy = 55 KSI
Roof and Wall Sheets	A792 / A653	Fy = 50, 80 KSI
Cable Brace	A475	Extra High Strength
Rod Brace	A36	Fy = 36 KSI
		MIN. TENSILE STRENGTH
Machine Bolts & Nuts	A 307	Fu = 60 KSI
High Strength Bolts (1" diam. and less)	A 325 - Type 1	Fu = 120 KSI
High Strength Bolts (>1" diam. to $\frac{1}{2}$ diam.)	A 325 - Type 1	Fu = 105 KSI
Anchor Bolts	A36 / A307 / F155 Gr. 36	Fu = 58-80 KSI
THE METAL BUILDING MANUFACTURER RESERVES THE RIGHT TO SUBSTITUTE THE ABOVE MATERIALS WITH EQUAL OR BETTER MATERIAL.		

CUSTOMER END USER RESPONSIBILITIES

1. Metal Building Outlet (hereafter referred to as "MBO". The CUSTOMER / END USER, 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 in order to insure that MBO plans comply with the applicable requirements of any governing building authorities and to obtain appropriate approvals and secure necessary permits From City, County, State, OR Federal Agencies as required.
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 MBO.
4. CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with MBO "For Construction" drawings only. Temporary supports such as guys, braces, false work, cribbing or other elements required for the erection operation shall be determined, furnished and installed by the ERECTOR. No items should be purchased from a preliminary set of drawing. Including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 13th Edition.)
5. MBO standard specifications apply unless stipulated otherwise in the Contract Documents. MBO design, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both parties that the CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications. In case of discrepancies between MBO structural steel plans and plans for other trades, MBO plans shall govern. (Section. 3 AISC Code of Standard Practices, 13th Edition).
6. It is the responsibility of MBO, through MBO's Engineer, to design the metal building system to meet the specifications including the design criteria and design loads incorporated by the CONTRACTOR into the Order Documents. MBO is not responsible for making an independent determination of any local codes or any other requirements not part of the Order Documents.
7. MBO is responsible only for the structural design of the metal building system. MBO or MBO's Engineer is not the Design Professional or Engineer of Record for the Construction Project. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that MBO or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components.
8. MBO is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, MBO Does not design and is not responsible for the design, material and construction of the foundation or foundation embedment. The CUSTOMER should assure himself that adequate provisions are made in the Foundation design for loads imposed by column reactions of the building, other Imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Chapter IV Section 3.2.2 Metal Building Systems Manual 2006 Edition).
9. MBO's standard specifications apply unless stipulated otherwise in the Contract Documents. MBO design, quality criteria, standards, practice, methods and tolerances shall govern the work any other interpretations to the contrary notwithstanding. It is understood by both parties that the CUSTOMER is responsible for clarifications of inclusions or exclusions from the Architectural plans.
10. In case of discrepancies between MBO's structural steel plans and plans for other trades, MBO's shall govern ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC Manual; Section 3.3)
11. The CUSTOMER is responsible for overall project coordination. All interface, compatibility and design considerations concerning any materials not furnished by MBO and MBO's steel system are to be considered and coordinated by the CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for Fabrication or MBO's assumptions will govern.
12. Anchor bolts and foundation bolts 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 Manual.
13. 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.
14. MBO does not investigate the influence of the metal building system on existing buildings or structures. The 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.

METAL BUILDING OUTLET CORP.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED

DESIGN LOADS

DESIGN CODE	IBC 15
ENCLOSURE	Closed
DEAD LOAD (psf)	BUILDING STRUCTURE ONLY
COLLATERAL LOAD (psf)	1
WIND LOAD	
WIND SPEED (BASIC OR ULT. PER CODE)	160
WIND IMPORTANCE FACTOR (Iw)	1.00
WIND EXPOSURE	C
INTERNAL PRESSURE COEF., GCPi	0.18 / -0.18
LIVE LOAD	
PRIMARY FRAMING (psf)	20
TRIBUTARY AREA REDUCTION	No
SECONDARY FRAMING (psf)	20.00
SNOW LOAD	
GROUND SNOW LOAD, Pg (psf)	90
ROOF SNOW LOAD, Pf (psf)	63
SLOPED ROOF SNOW LOAD, Ps (psf)	Pf x Cs
SNOW EXPOSURE FACTOR, Ce	1.00
SNOW IMPORTANCE FACTOR, Is	1.0000
THERMAL FACTOR, Ct	1.00
SLOPED FACTOR, Cs	1.0000
SEISMIC LOAD	
SEISMIC IMPORTANCE FACTOR, Ie	1.00
SEISMIC OCCUPANCY CATEGORY	II - Normal
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCEL.	Ss = 0.408 S1 = 0.156
SPECTRAL RESPONSE COEFFICIENT	Sds = 0.401 Sd1 = 0.226
SEISMIC DESIGN CATEGORY	D
BASIC FORCE RESISTING SYSTEMS USED	
STEEL ORDINARY MOMENT RESISTING FRAME	RIGID FRAMES
STEEL ORDINARY CONCENTRICALLY B.F	BRACED FRAMES
TOTAL DESIGN BASE SHEAR, V (kips)	3.13
RESPONSE MODIFICATION FACTORS, R	RIGID FRAMES = 3.5
	END WALL X BRACING = 3.25
	SIDE WALL X BRACING = 3.25
SEISMIC RESPONSE COEFFICIENT, Cs	RIGID FRAMES = 0.114
	E. W. X BRACING = 0.123
	S. W. X BRACING = 0.123
ANALYSIS PROCEDURE USED	EQUIV. LATERAL FORCE PROCEDURE
RAINFALL INTENSITY (inches /Hr)	I1 = 0.0000 I2 = 0.0000

FRAMING / PANELS AND TRIMS

FRAMING COATING	
PRIMARY & SECONDARY	ROX
ROOF PANELS	
GA / PANEL TYPE	26 / PBR
PANEL COLOR	Galvalume+
ROOF TRIM COLORS:	
GA / EAVE COLOR	26 / Polar White
GA / GUTTER COLOR	/
GA / GABLE COLOR	26 / Polar White
WALL PANELS	
GA. / PANEL TYPE	26 / PBR
PANEL COLOR	Polar White
WALL TRIM COLORS	
GA / CORNER COLOR	26 / Polar White
GA / OPENING COLOR	26 / Polar White
GA / DOWNSPOUT COLOR	/
GA / BASE TRIM COLOR	26 / Polar White
WAINSCOT PANELS	
GA / PANEL TYPE	/
PANEL COLOR	
WAINSCOT TRIM	
WAINSCOT TRIM COLOR	
LINER ROOF PANELS	
GA / PANEL TYPE	/
PANEL COLOR	
LINER WALL PANELS	
GA / PANEL TYPE	/
PANEL COLOR	
LINER TRIM	
LINER TRIM COLOR	
PARTITION PANELS	
GA / PANEL TYPE	
PANEL COLOR	
PARTITION TRIM	
PARTITION TRIM COLOR	
SOFFIT PANELS	
GA / PANEL TYPE	/
PANEL COLOR	
SOFFIT TRIM	
SOFFIT TRIM COLOR	
FASCIA PANELS	
GA / FRONT PANEL TYPE	/
FRONT PANEL COLOR	
GA / BACK PANEL TYPE	/
BACK PANEL COLOR	
FASCIA TRIM	
FASCIA TRIM COLOR	

DEFLECTION LIMITS:

EW COLUMN:	180
EW RAFTER LIVE:	180
EW RAFTER WIND:	180
WALL GIRT:	90
PURLIN LIVE:	180
PURLIN WIND:	120
WALL PANEL:	120
ROOF PANEL LIVE:	180
ROOF PANEL WIND:	120
RF HORIZONTAL:	60
RF VERTICAL:	180
WIND BENT:	60
RF CRANE:	100
RF SEISMIC:	65
WIND BENT SEIS.:	65

ERECTION NOTES

1. All bracing shown and provided by MBO 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 and Bridges" in the AISC Manual; Section 7.9).
2. Temporary supports, such as guys, braces, false work, 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 AISC Manual; Section 7.9).
3. Normal erection operations include the correction of minor misfits by moderate amounts of reaming, chipping, 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 MBO 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 AISC Manual; Section 7.12).
4. Erection tolerances are set forth in AISC Code of Standard Practice 7.11 except that individual members are considered plumb, level and aligned if the deviation does not exceed 1:300. Variations in finished overall dimensions of structural 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 9, Common Industry Practices, 1996 MBMA Low Rise 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 Steel 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 pre-qualified 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 MBO 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 MBO Customer Service Department.
8. Claims for correction of alleged misfits will be disallowed unless MBO 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 MBO.
9. Neither MBO nor the CUSTOMER will cut, drill or otherwise alter their work, or the work of other trades to accommodate other trades unless such work is clearly specified in the contract documents. Whenever such work is specified the CUSTOMER is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop drawings ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC Manual; Section 7.13).
10. MBO Field Modifications Policy:
    - 10.1. MBO will only be responsible for the field-modified parts designed and approved by the MBO Engineering Department.
    - 10.2. Any field modifications designed by third parties may not be approved by MBO and may limit MBO's warranty and liability.
    - 10.3. MBO 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 in no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run-off From copper flashing, wiring, or tubing onto Galvalume should be avoided.
12. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.
13. Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.
14. It is recommended by Factory Mutual (Reference# 82.44) that roof be cleared of snow by the CUSTOMER when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See chart below:

Roof Snow Load (in PSF)	Equivalent Snow Height at Roof (in Inches)	Recommended Snow Height When Snow Removal Should Start (in Inches)
20	16.60	8.30
25	17.25	8.62
30	17.90	8.95
35	18.55	9.28
40	19.20	9.60
45	19.85	9.92
50	20.50	10.25
55	21.15	10.58
60	21.80	10.90

Note: For Snow / Ice Removal, Refer to Metal Building System Manual 2006 Edition, Section A9 Page A-60

BUILDING DESCRIPTION

WIDTH (FT)	30
LENGTH (FT)	40
BACK SIDE WALL EAVE HEIGHT (FT)	16
FRONT SIDE WALL EAVE HEIGHT (FT)	16
BACK SIDE WALL ROOF SLOPE	2.0:12
FRONT SIDE WALL ROOF SLOPE	2.0:12
BAY SPACING (FT)	1 at 18, 1 at 10, 1 at 12

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT MBO ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY THE FABRICATOR IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL AND MECHANICAL SYSTEMS AND / OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN THE FABRICATOR ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

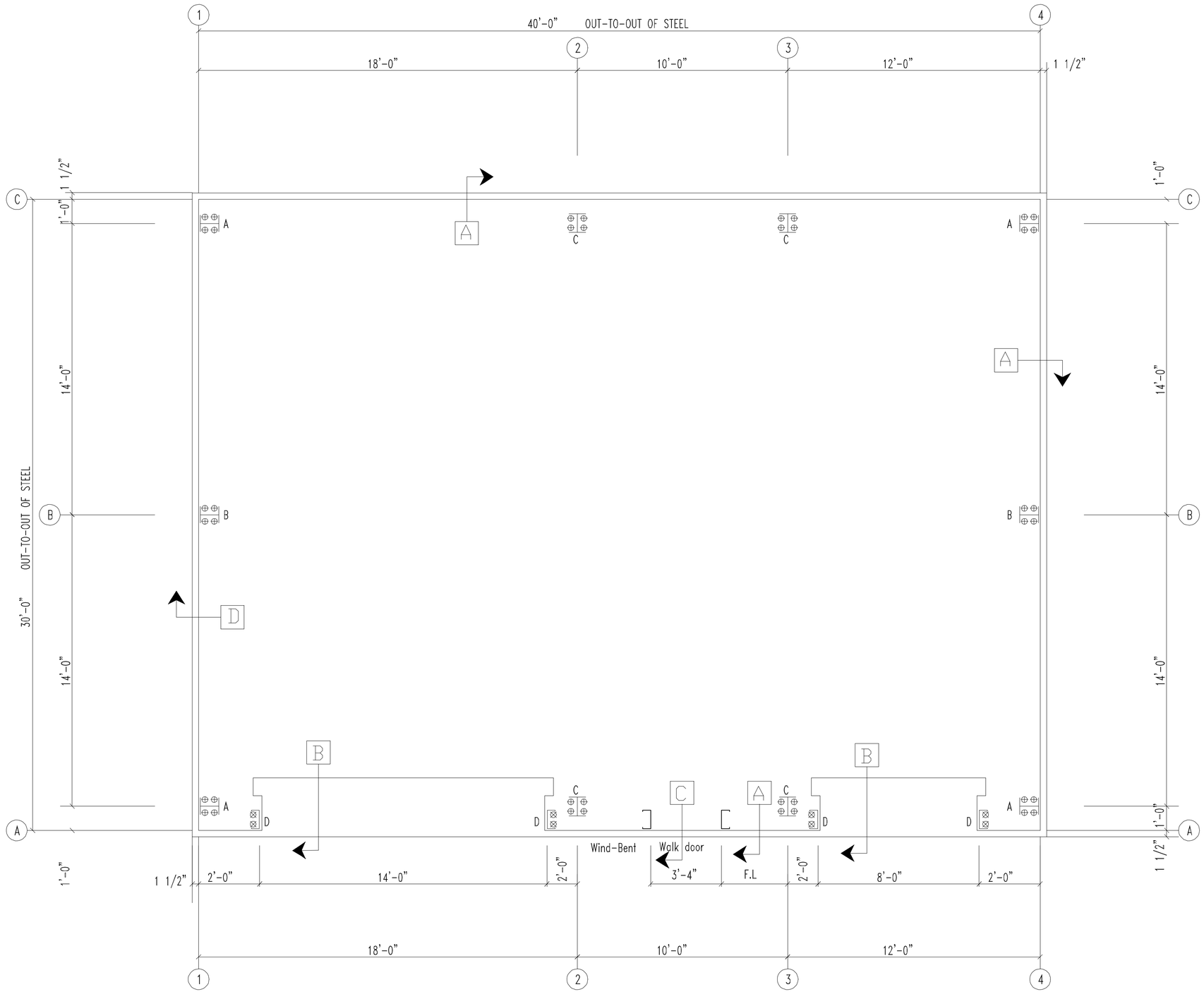
Jun. 3, 19

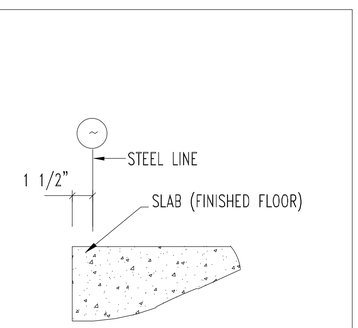
ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

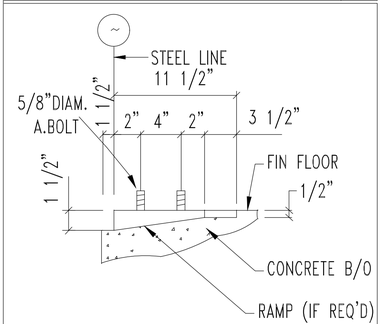
S.O.# J-10723-RA JOB# | SCALE | N.T.S. | DWG# | C1





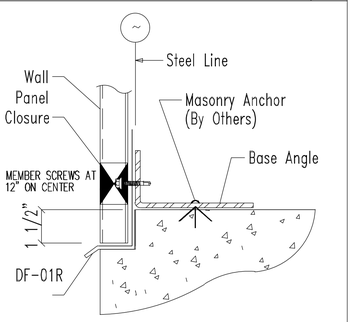
SECTION "C"

NTS



SECTION "B"

NTS



SECTION "A"

NTS

ANCHOR BOLT PLAN

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

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ANCHOR BOLT PLAN
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# | SCALE N.T.S. | DWG# F1 OF F3

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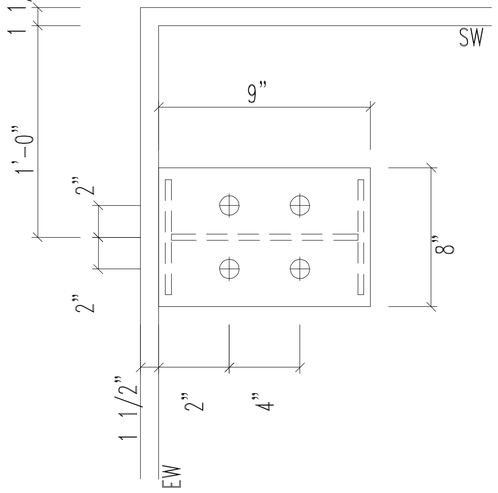
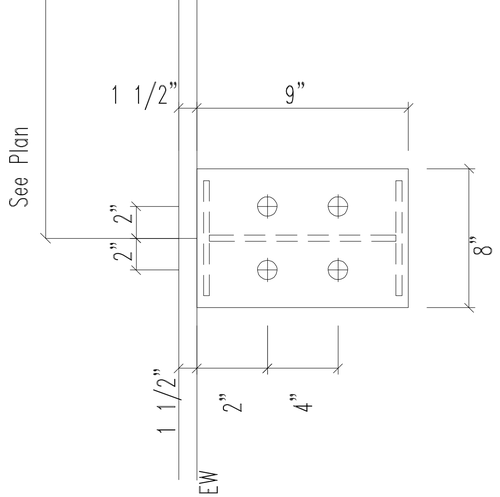
Jun. 3, 19

Dia= 3/4"
Thk=" 3/8"



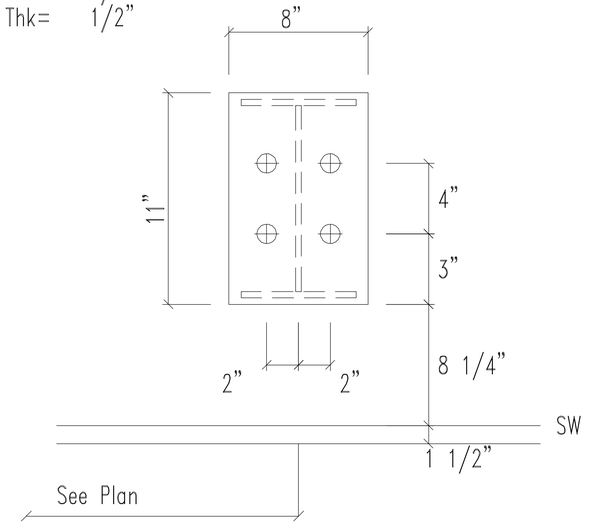
DETAIL A

Dia= 3/4"
Thk= 3/8"



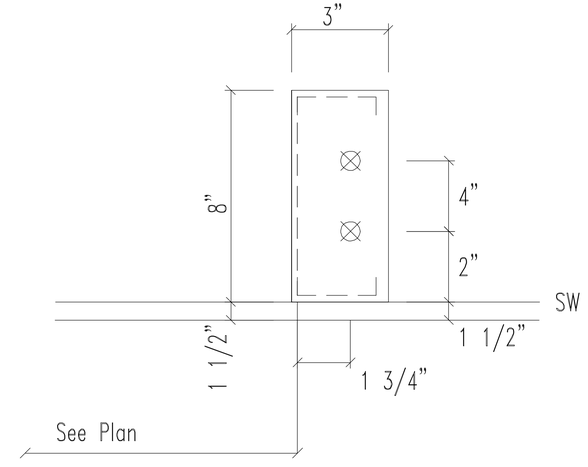
DETAIL B

Dia= 3/4"
Thk= 1/2"



DETAIL C

Dia= 5/8"
Thk= 3/8"



DETAIL D

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ANCHOR BOLT DETAILS
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# | SCALE N.T.S. | DWG# F2 OF F3

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Jun. 3, 19

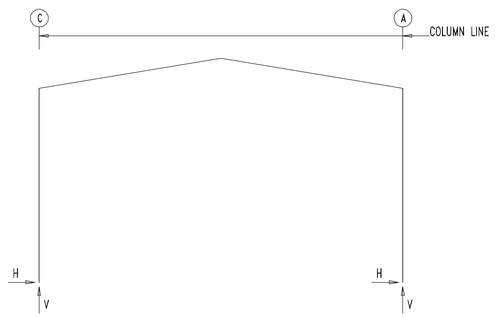
NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	30.0
Length (ft)	=	40.0
Eave Height (ft)	=	16.0/ 16.0
Roof Slope (rise/12)	=	2.0/ 2.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	1.0
Live Load (psf)	=	20.0
Snow Load (psf)	=	63.0
Wind Speed (mph)	=	160.0
Wind Code	=	IBC 15
Exposure	=	C
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	D
Seismic Coeff (Fa*Ss)	=	0.60

ID	Description
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_Left2
5	0.6Dead+0.6Wind_Right2
6	0.6Dead+0.6Wind_Long1L
7	0.6Dead+0.6Wind_Long2L
8	Dead+Collateral+F1UNB_SL_L
9	Dead+Collateral+F1UNB_SL_R
10	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
11	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
12	Dead+Collateral+0.45Wind_Right2+0.45Wind_Suction+0.75E1UNB_SL_L
13	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
14	0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
15	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
16	Dead+Collateral+E1UNB_SL_R
17	Dead+Collateral+0.45Wind_Right2+0.45Wind_Suction+0.75E2UNB_SL_L
18	Dead+Collateral+E2UNB_SL_R

FRAME LINES: 2 3



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	Grout (in)
2*	C	3	3.9	9.0	4	-3.5	-3.4	4	0.750	8.000	11.00	0.500	0.0
		8	3.0	15.5	6	1.2	-8.2						
2*	A	5	3.5	-3.4	2	-3.9	9.0	4	0.750	8.000	11.00	0.500	0.0
		9	-3.0	15.5	7	-1.2	-8.2						

2* Frame lines: 2 3

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	-----Dead---- Horiz	Vert	--Collateral- Horiz	Vert	-----Live---- Horiz	Vert	-----Snow---- Horiz	Vert	--Wind_Left1- Horiz	Vert	-Wind_Right1- Horiz	Vert
2*	C	0.2	0.8	0.1	0.2	1.0	4.2	3.3	13.2	-5.0	-10.1	2.8	-4.4
2*	A	-0.2	0.8	-0.1	0.2	-1.0	4.2	-3.3	13.2	-2.8	-4.4	5.0	-10.1

Frame Line	Column Line	--Wind_Left2- Horiz	Vert	-Wind_Right2- Horiz	Vert	--Wind_Long1- Horiz	Vert	--Wind_Long2- Horiz	Vert	-Seismic_Left Horiz	Vert	Seismic_Right Horiz	Vert
2*	C	-6.0	-6.5	1.8	-0.8	1.8	-14.4	1.3	-13.3	-0.6	-0.7	0.6	0.7
2*	A	-1.8	-0.8	6.0	-6.5	-1.3	-13.4	-1.8	-14.5	-0.6	0.7	0.6	-0.7

Frame Line	Column Line	-Seismic_Long Horiz	Vert	-MIN_SNOW-- Horiz	Vert	F1UNB_SL_L- Horiz	Vert	F1UNB_SL_R- Horiz	Vert
2*	C	0.0	-2.7	1.0	4.2	2.8	14.4	2.7	7.3
2*	A	0.0	-2.7	-1.0	4.2	-2.7	7.3	-2.8	14.4

2* Frame lines: 2 3

ENDWALL COLUMN REACTIONS(k)

MAXIMUM VERTICAL Dead+Collateral+Snow	= 11.2
MAXIMUM VERTICAL Dead+Wind	= -10.0
MAXIMUM HORIZONTAL Dead+Wind	= 5.6

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊗ 8	Jamb	5/8"	A307	2.00
⊕ 24	Endwall	3/4"	A307	2.50
⊕ 16	Frame	3/4"	A307	2.50

BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions(k) Wind Horz	Vert	Seismic Horz	Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1	C,B	3.0	3.6	0.7	0.8			
F_SW	A	2,3	2.3	6.8	0.7	2.1			(d)
R_EW	4	A,B	2.2	2.6	0.5	0.6			
B_SW	C	3,2	4.7	6.7	1.4	2.1			

(d)X-Bracing above wind bent, base above finish floor

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ANCHOR BOLT REACTIONS
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# | SCALE N.T.S. | DWG# F3 OF F3

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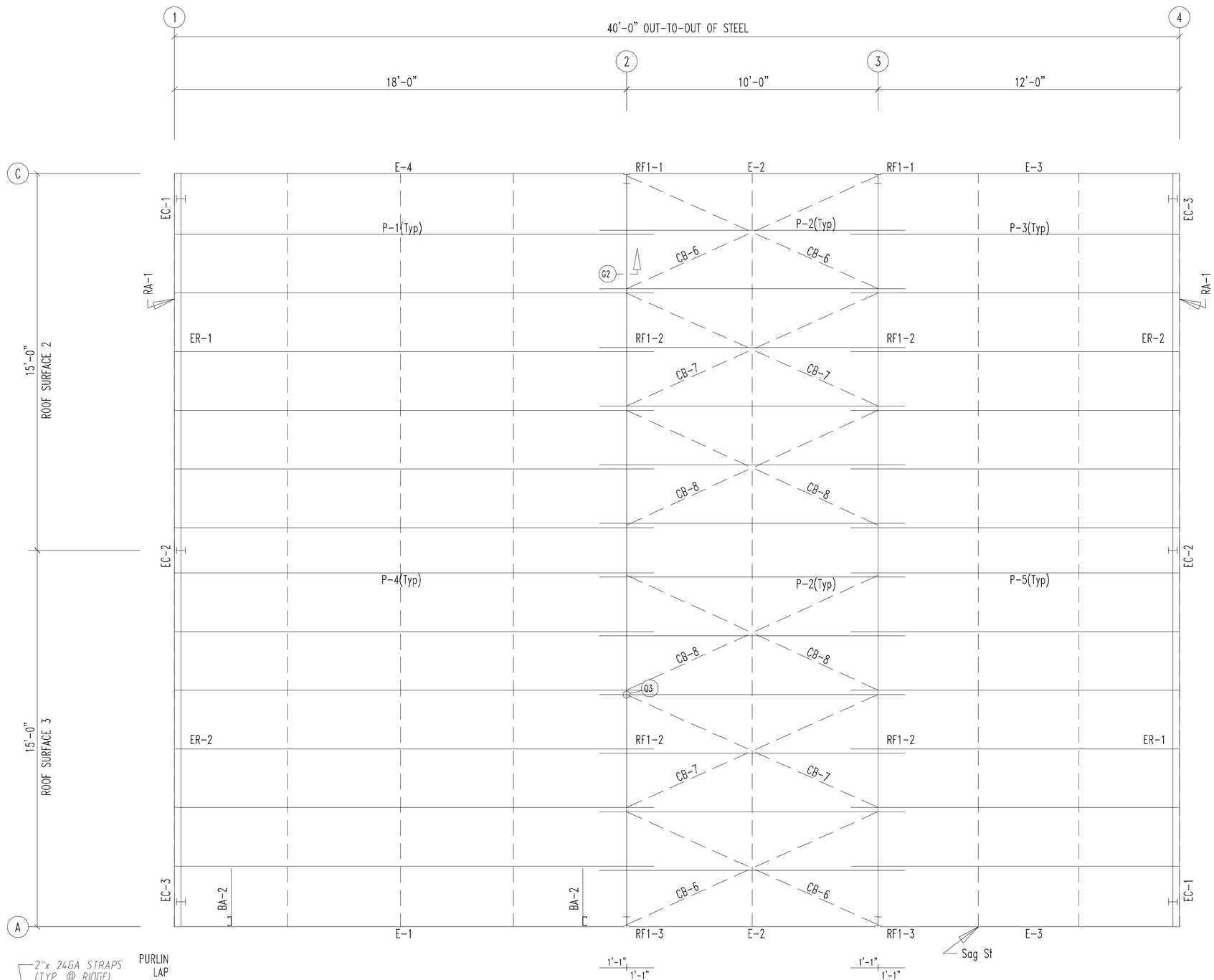
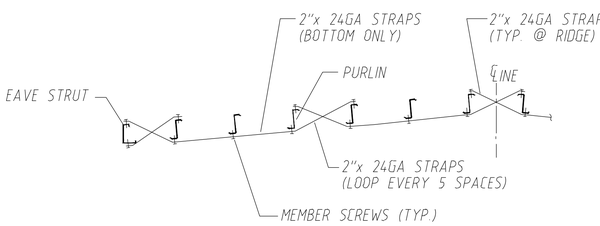
Jun. 3, 19

MEMBER TABLE ROOF PLAN		
QUAN	MARK	PART
6	P-1	8x25Z14
12	P-2	8x25Z14
6	P-3	8x25Z16
6	P-4	8x25Z14
6	P-5	8x25Z16
1	E-1	E085342L
2	E-2	E085342L
2	E-3	E085342L
1	E-4	E085342L
4	CB-6	BR1/2
4	CB-7	BR1/2
4	CB-8	BR1/2





(6 purlins) SAG STRAP INSTALATION
(BOTTOM ONLY)

NOTE: BA-2 EAVE BRACE AT JAMB LOCATION
SEE DETAIL L1

ROOF FRAMING PLAN

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ROOF FRAMING PLAN
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough
S.O.# J-10723-RA JOB#	SCALE N.T.S. DWG# E1 OF E9

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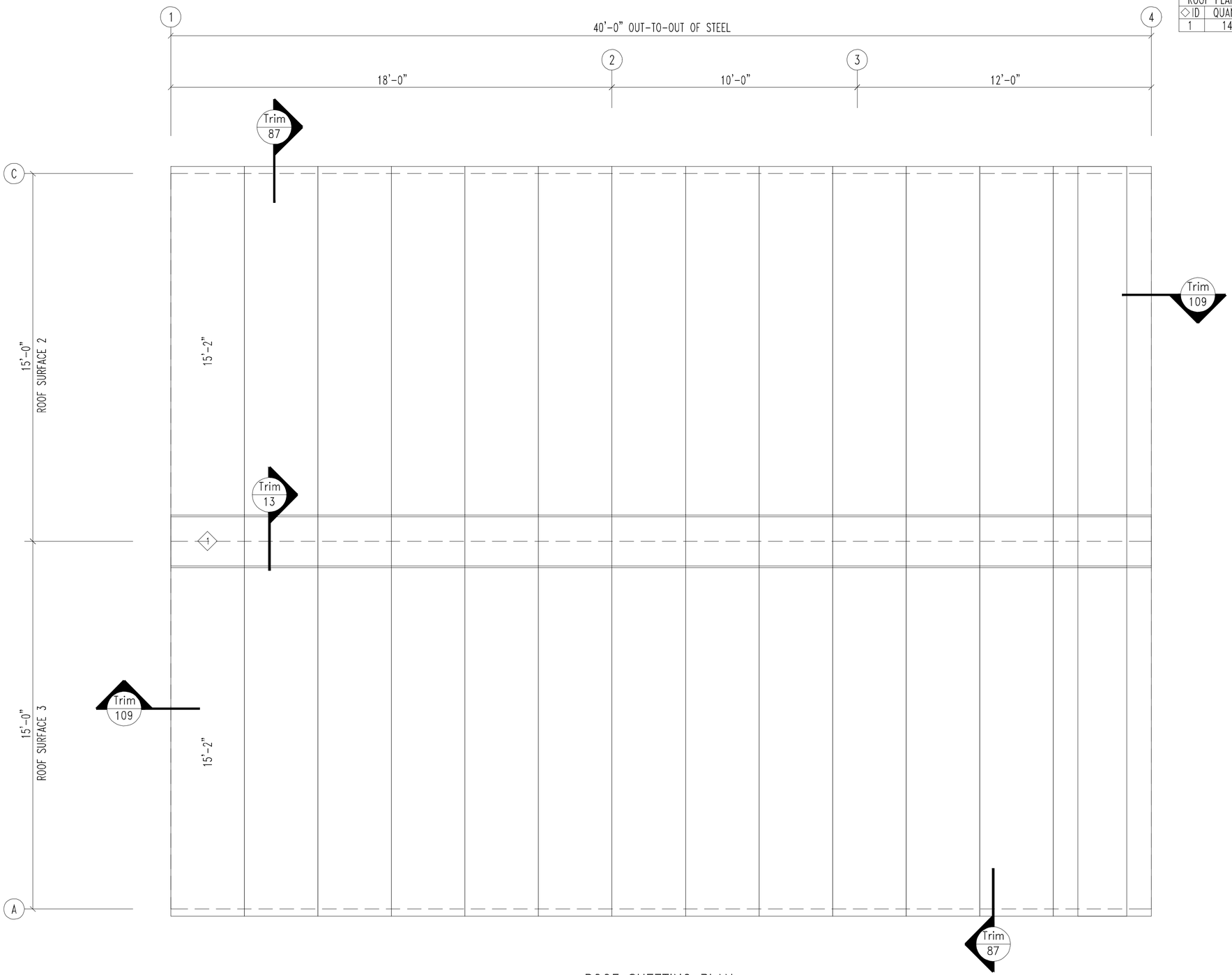
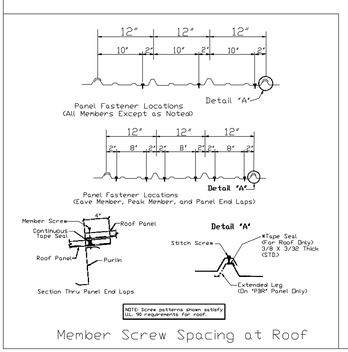
Jun. 3, 19

TRIM TABLE ROOF PLAN				
◇ ID	QUAN	PART	LENGTH	DETAIL
1	14	RPR-01	3'-0"	TRIM_13





ROOF SHEETING PLAN

PANELS: 26 Ga. PBR - Galvalume+

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ROOF SHEETING PLAN
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA | JOB# | SCALE | N.T.S. | DWG# | E2 OF E9

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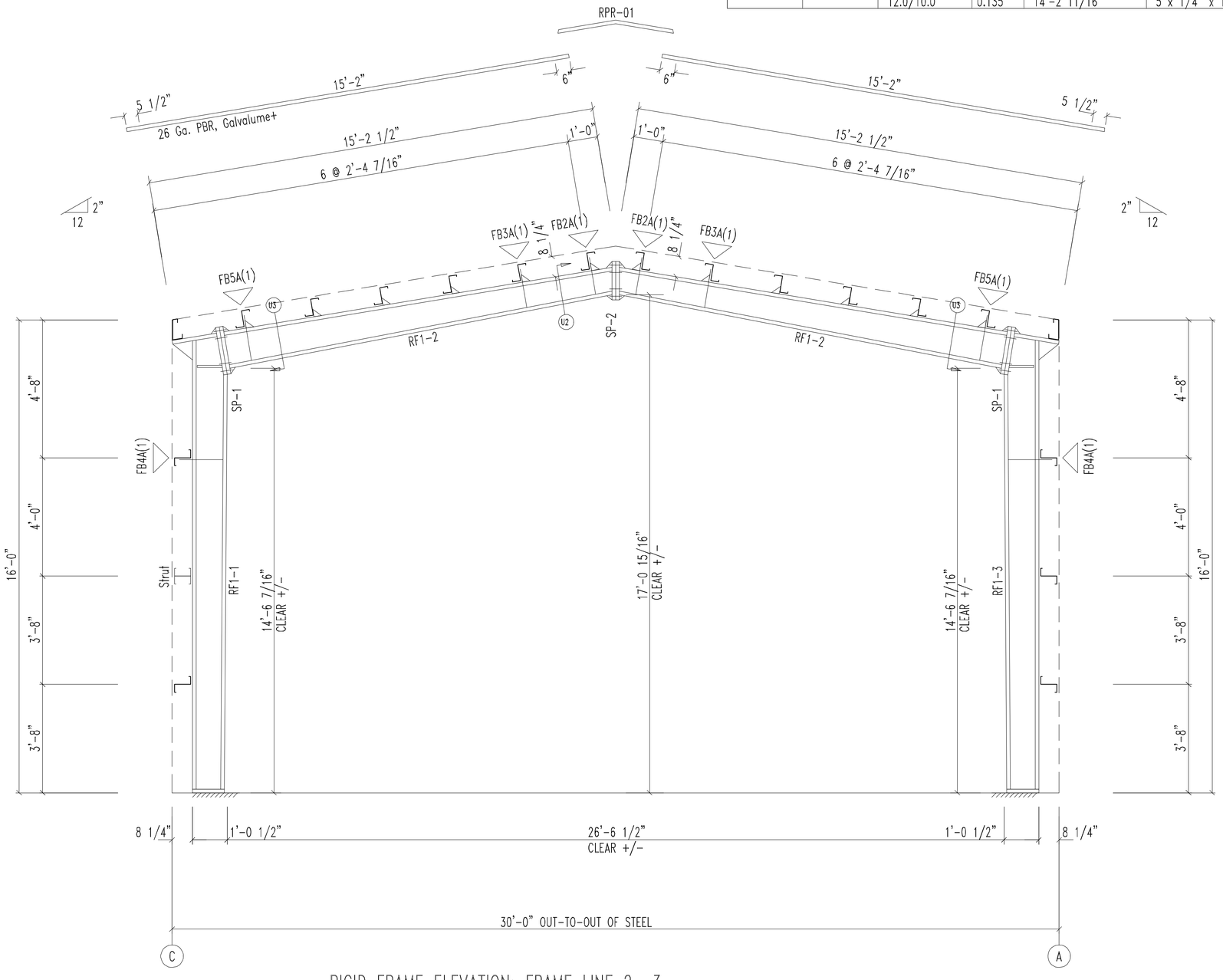
Jun. 3, 19

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	0.625	2.00	6"	1/2"	1'-6 3/4"
SP-2	4	4	0	A325	0.625	2.00	6"	1/2"	1'-2 7/8"

- FLANGE BRACES: FBxx (1 or 2)
  xx=length(in)
  (1) One Side; (2) Two Sides

A - 2X2X14GA

MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	15'-5"	10.0/12.0	0.135	14'-2 11/16"	5 x 1/4" x 15'-4 1/4"	5 x 1/4" x 14'-2 11/16"
		12.0/ 9.5	0.250	1'-3 3/16"	5 x 1/4" x 1'-6 3/16"	
RF1-2	13'-7 13/16"	12.0/ 8.0	0.135	13'-6 3/4"	5 x 1/4" x 13'-6 3/4"	5 x 1/4" x 13'-5 7/16"
RF1-3	15'-5"	9.5/12.0	0.250	1'-3 3/16"	5 x 1/4" x 1'-6 3/16"	5 x 1/4" x 14'-2 11/16"
		12.0/10.0	0.135	14'-2 11/16"	5 x 1/4" x 15'-4 1/4"	



RIGID FRAME ELEVATION: FRAME LINE 2 3

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	RIGID FRAME
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough
S.O.# J-10723-RA JOB#	SCALE N.T.S. DWG# E3 OF E9

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Jun. 3, 19

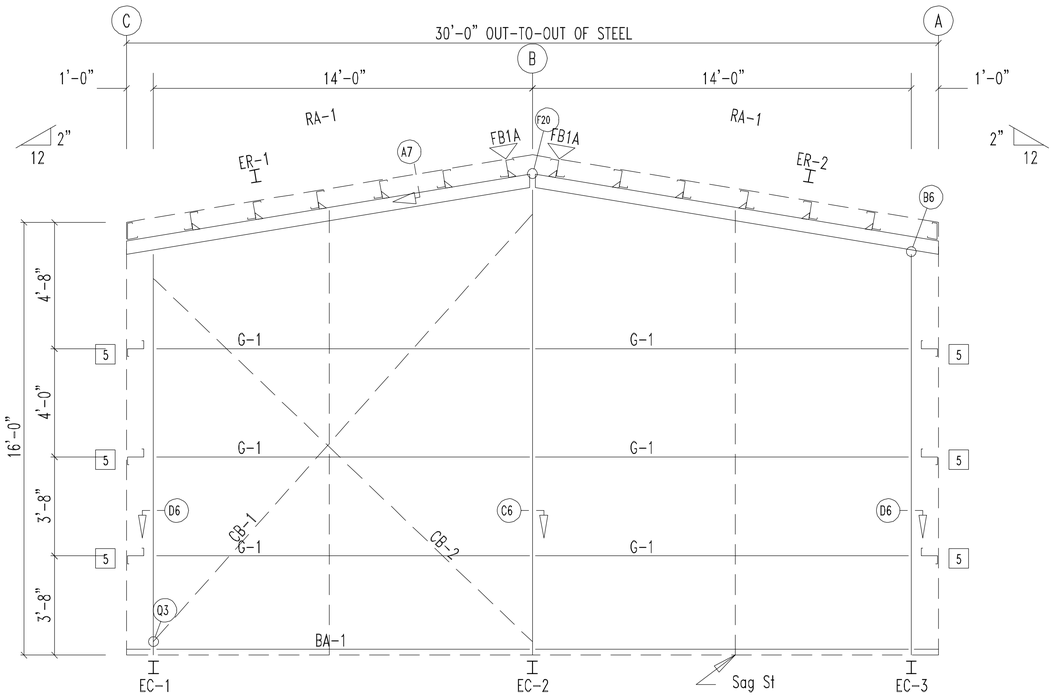
TRIM TABLE FRAME LINE 1				
◇ ID	QUAN	PART	LENGTH	DETAIL
1	2	CT-01R	16'-0"	TRIM_19
2	2	RT-01R	16'-3"	TRIM_109
3	2	REC-01	10"	
4	1	PB-01R	1'-6"	
5	2	DF-01R	15'-2"	

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	6	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

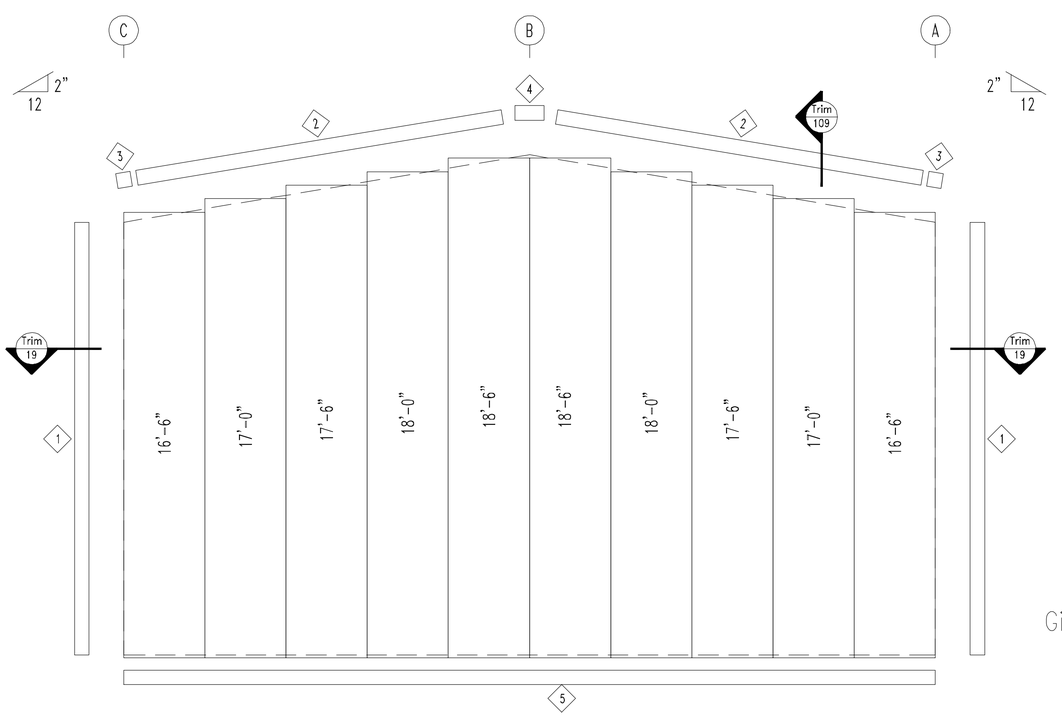
FLANGE BRACE TABLE FRAME LINE 1		
▽ ID	MARK	LENGTH
1	FB1A	1'-5 1/2"

MEMBER TABLE FRAME LINE 1	
MARK	PART
EC-1	W08542
EC-2	W08542
EC-3	W08542
ER-1	W08542
ER-2	W08542
G-1	8x25Z16
CB-1	BR1/2
CB-2	BR1/2

CONNECTION PLATES FRAME LINE 1		
□ ID	QUAN	MARK/PART
5	6	CC5



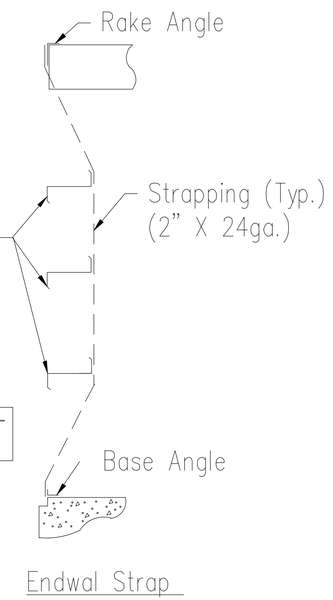
ENDWALL FRAMING: FRAME LINE 1



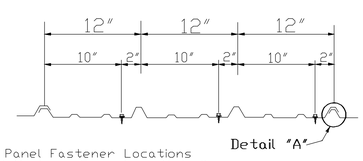
ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR - Polar White

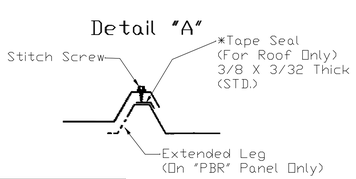
FIELD CUT PANELS TO FIT



Endwal Strap



Panel Fastener Locations
(All Members Except as Noted)



NOTE: Screw patterns shown satisfy UL 90 requirements for roof.

Member Screw Spacing at Wall

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ENDWALL FRAMING
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# | SCALE N.T.S. | DWG# E4 OF E9

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Jun. 3, 19

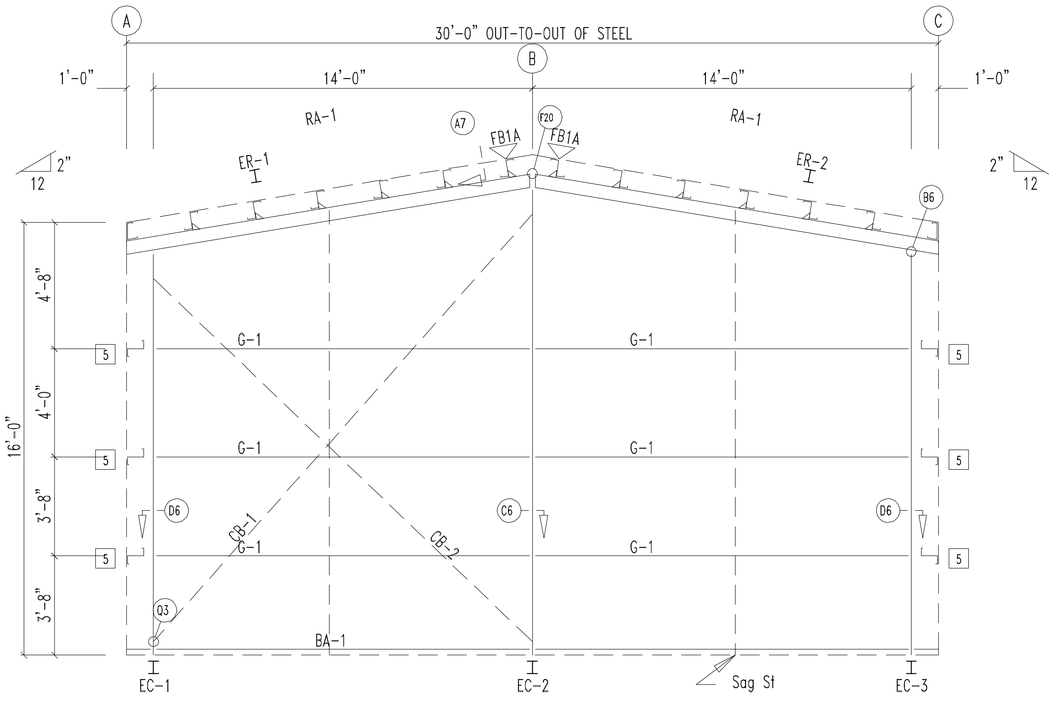
TRIM TABLE FRAME LINE 4				
◇ ID	QUAN	PART	LENGTH	DETAIL
1	2	CT-01R	16'-0"	TRIM_19
2	2	RT-01R	16'-3"	TRIM_109
3	2	REC-01	10"	
4	1	PB-01R	1'-6"	
5	2	DF-01R	15'-2"	

BOLT TABLE FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	6	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

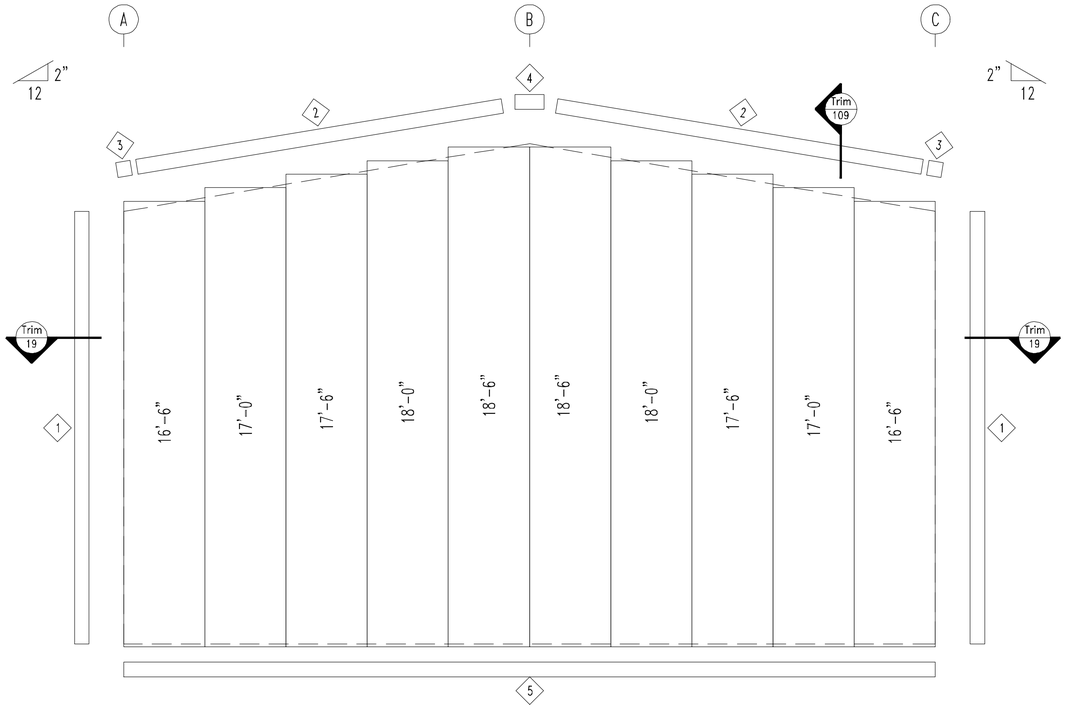
FLANGE BRACE TABLE FRAME LINE 4		
▽ ID	MARK	LENGTH
1	FB1A	1'-5 1/2"

MEMBER TABLE FRAME LINE 4	
MARK	PART
EC-1	W08542
EC-2	W08542
EC-3	W08542
ER-1	W08542
ER-2	W08542
G-1	8x25Z16
CB-1	BR1/2
CB-2	BR1/2

CONNECTION PLATES FRAME LINE 4		
□ ID	QUAN	MARK/PART
5	6	CC5



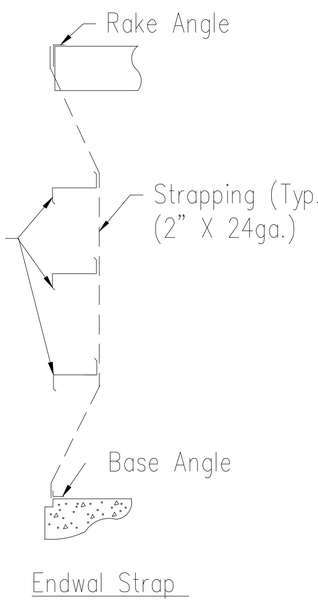
ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. PBR - Polar White

FIELD CUT PANELS TO FIT



ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	ENDWALL FRAMING
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# | SCALE N.T.S. | DWG# E5 OF E9

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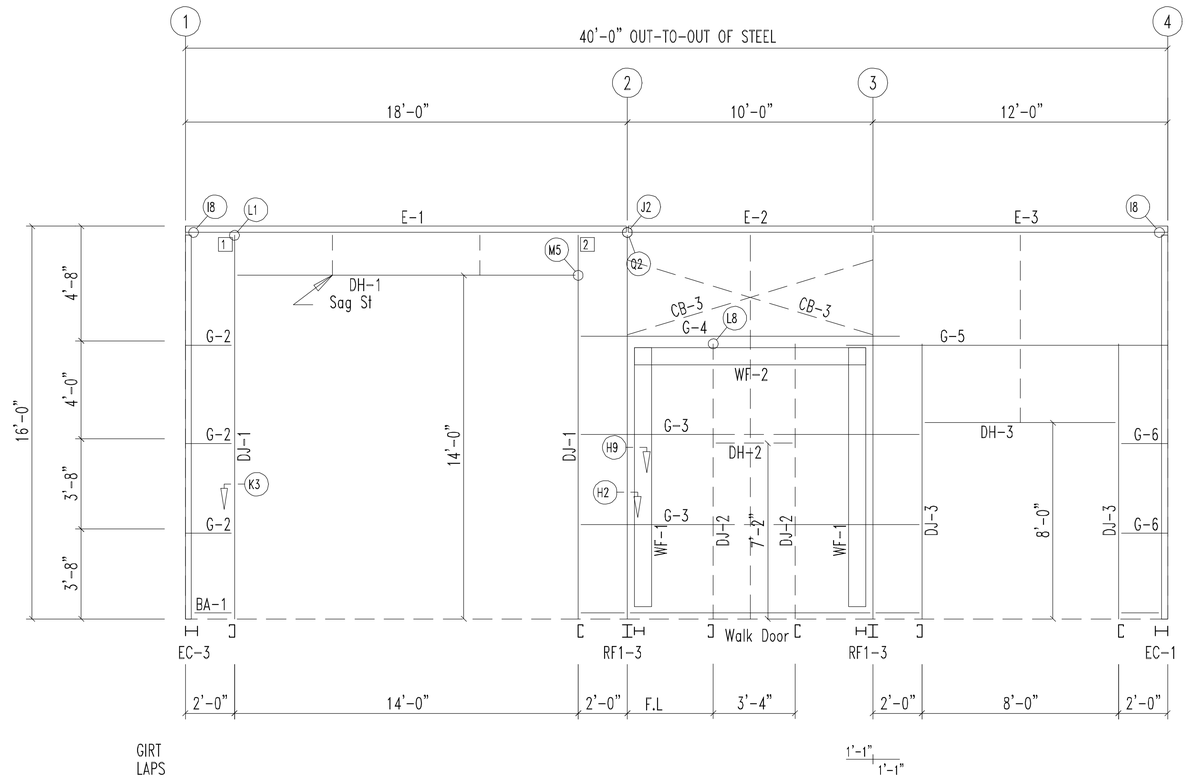
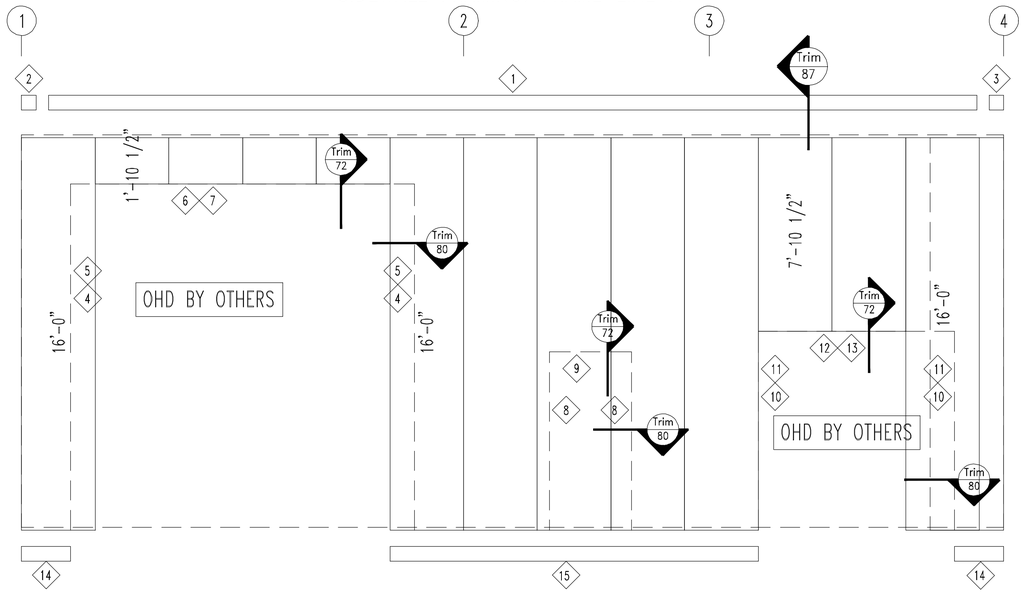
Jun. 3, 19



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – Polar White

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	PERMIT/APPROVAL	04/15/2019	TCN	VMN	DES
0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	SIDEWALL FRAMING
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough
S.O.# J-10723-RA JOB#	SCALE N.T.S. DWG# E6 OF E9

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TRIM TABLE
FRAME LINE A

◇ ID	QUAN	PART	LENGTH	DETAIL
1	3	LET-01R	13'-7"	TRIM_87
2	1	LEC-02RL	6"	TRIM_129
3	1	LEC-02RR	6"	TRIM_129
4	2	JT-01R	14'-2"	TRIM_80
5	2	XFL-37	14'-1"	TRIM_80
6	1	HT-01R	14'-4"	TRIM_72
7	1	XFL-37	14'-0"	TRIM_72
8	2	JT-01R	7'-4"	TRIM_80
9	1	HT-01R	3'-8"	TRIM_72
10	2	JT-01R	8'-2"	TRIM_80
11	2	XFL-37	8'-1"	TRIM_80
12	1	HT-01R	8'-4"	TRIM_72
13	1	XFL-37	8'-0"	TRIM_72
14	2	DF-01R	2'-0"	
15	1	DF-01R	14'-0"	

BOLT TABLE
FRAME LINE A

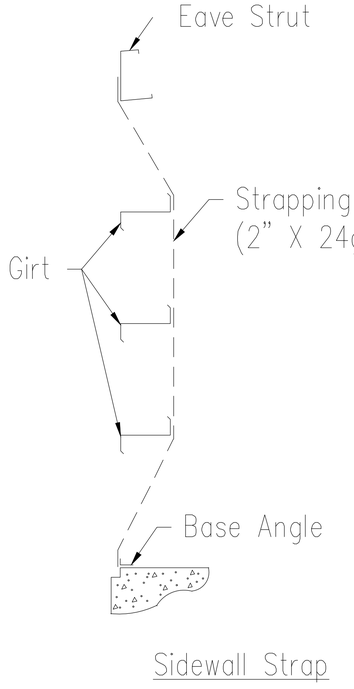
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – WF-2	8	A325	5/8"	2"

CONNECTION PLATES
FRAME LINE A

□ ID	QUAN	MARK/PART
1	1	CC52L
2	1	CC52R

MEMBER TABLE
FRAME LINE A

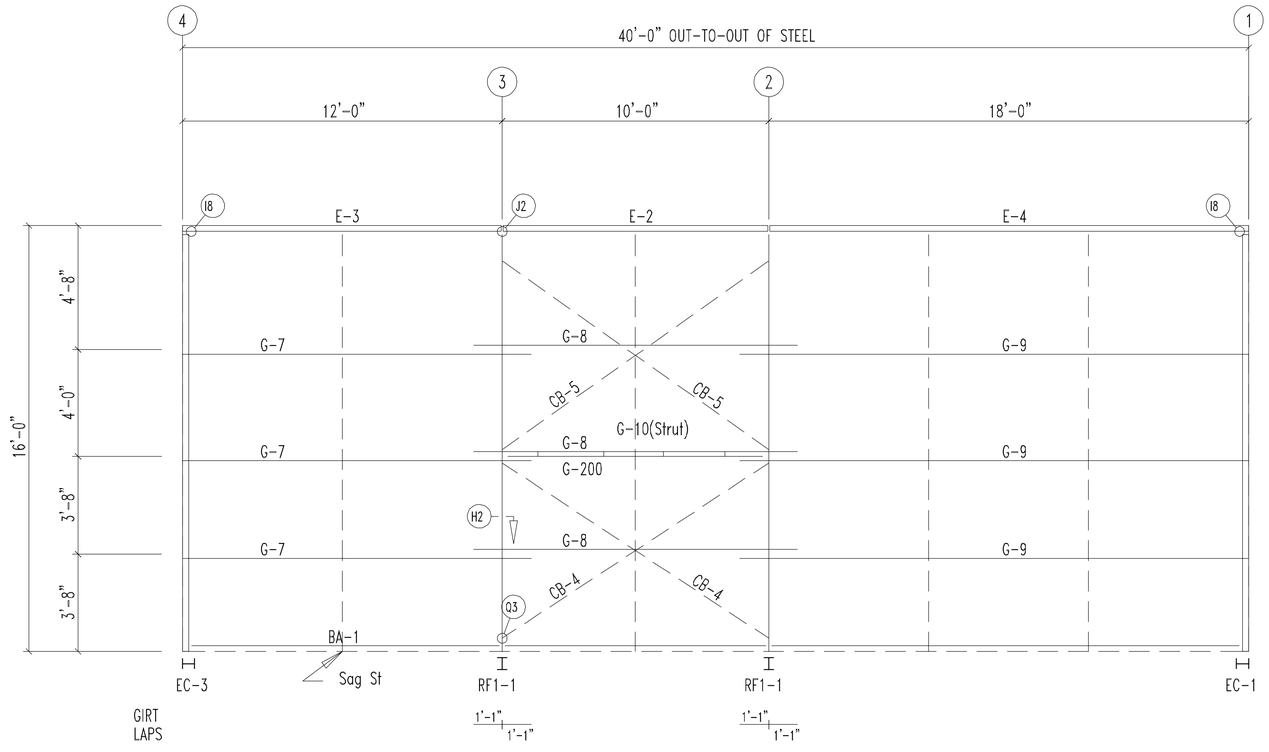
MARK	PART
WF-1	W08542
WF-2	W08542
DJ-1	8X25C12
DJ-2	8X25C16
DJ-3	8X25C16
DH-1	8x25c16
DH-2	8x25c16
DH-3	8x25c16
E-1	E085342L
E-2	E085342L
E-3	E085342L
G-2	8x25Z16
G-3	8x25Z16
G-4	8x25Z16
G-5	8x25Z16
G-6	8x25Z16
CB-3	BR1/2



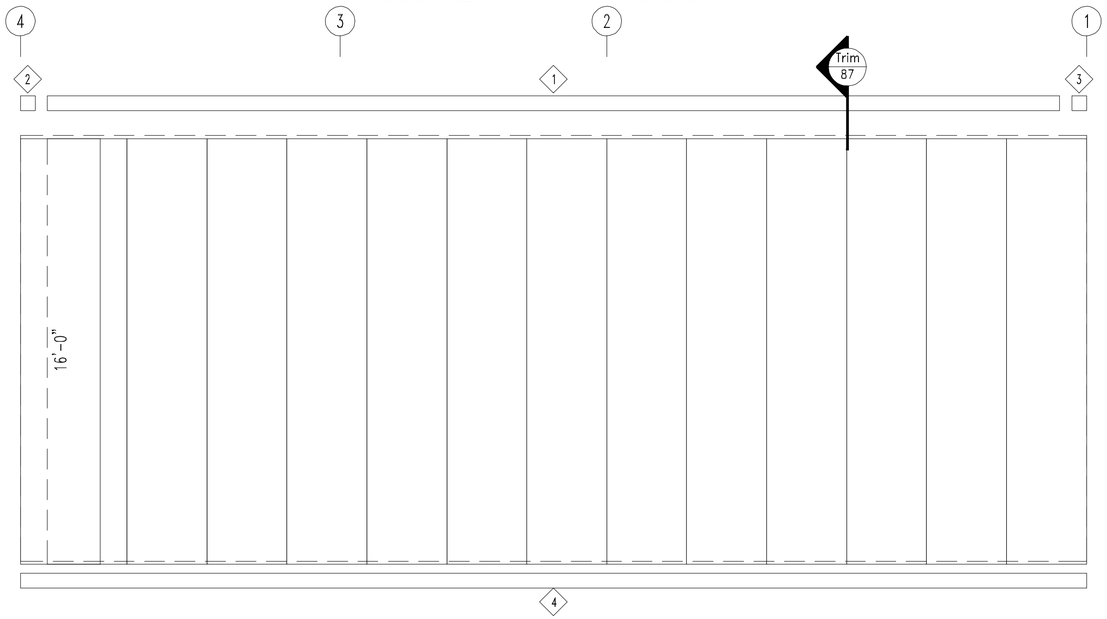
Sidewall Strap

FIELD CUT PANELS TO FIT

Jun. 3, 19



SIDEWALL FRAMING: FRAME LINE C



SIDEWALL SHEETING & TRIM: FRAME LINE C

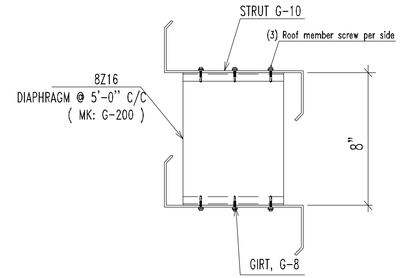
PANELS: 26 Ga. PBR – Polar White

TRIM TABLE
FRAME LINE C

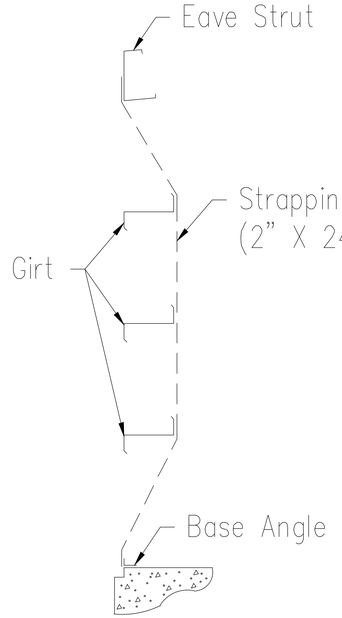
◇ID	QUAN	PART	LENGTH	DETAIL
1	3	LET-01R	13'-7"	TRIM_87
2	1	LEC-02RL	6"	TRIM_129
3	1	LEC-02RR	6"	TRIM_129
4	3	DF-01R	13'-6"	

MEMBER TABLE
FRAME LINE C

MARK	PART
E-2	E085342L
E-3	E085342L
E-4	E085342L
G-7	8x25Z16
G-8	8x25Z16
G-9	8x25Z16
G-10	8x25Z16
CB-4	BR1/2
CB-5	BR1/2



(Typ, @ all trust girt)



Sidewall Strap

FIELD CUT PANELS TO FIT

Jun. 3, 19

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
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0	FOR CONSTRUCTION	05/20/2019	TCN	VMN	DES

METAL BUILDING OUTLET CORP.

DESCRIPTION	SIDEWALL FRAMING
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough
S.O.# J-10723-RA JOB#	SCALE N.T.S. DWG# E7 OF E9

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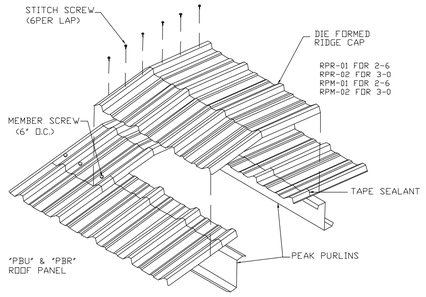
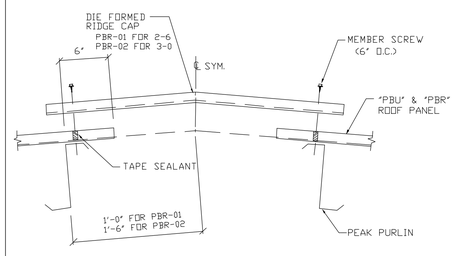
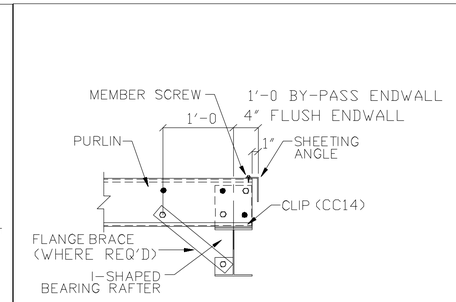
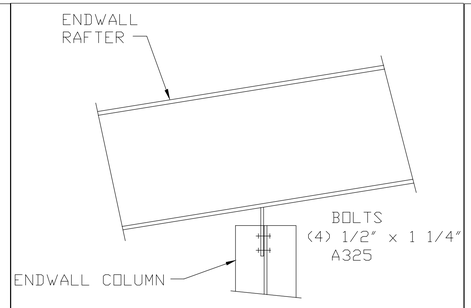




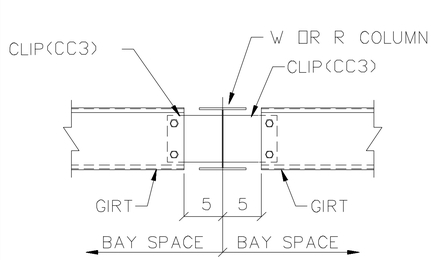
Trim_13 DIE FORMED RIDGE DETAIL- "PBR" & "PBU"
UP TO A 3:12 ROOF SLOPE



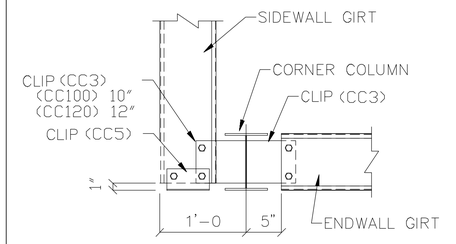
A7 BEARING FRAME ENDWALL SECTION
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



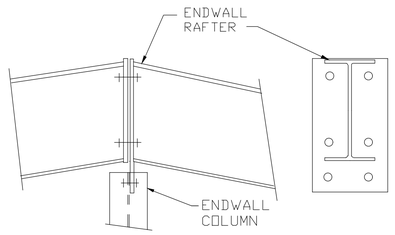
B6 ENDWALL RAFTER TO COLUMN



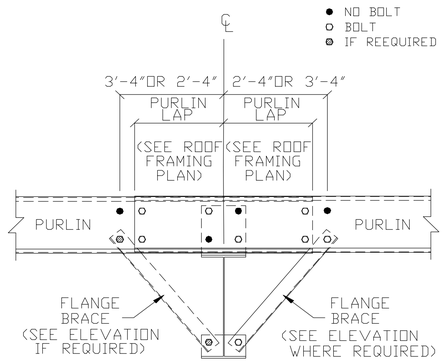
C6 GIRT TO W OR R COLUMN
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



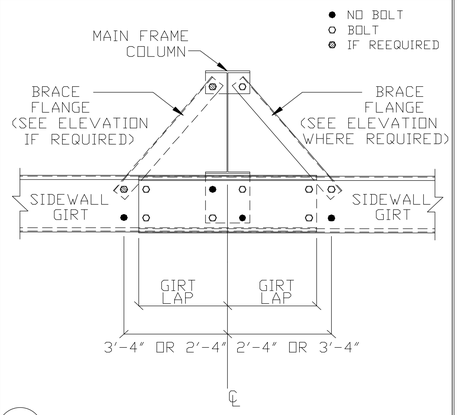
D6 R OR W CORNER COLUMN TO WALL GIRT
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



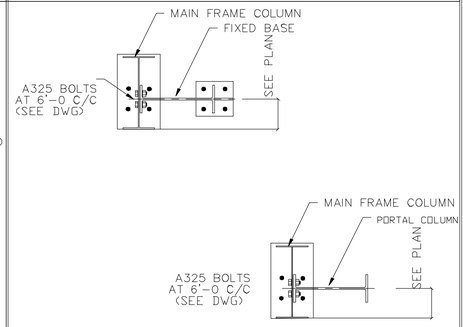
F20 RAFTER SPLICE AT SURFACE CHANGE



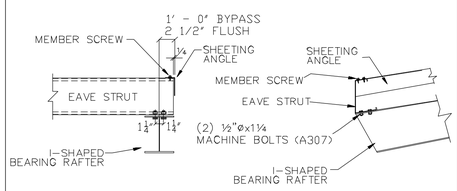
G2 BY-PASS PURLIN TO RAFTER DETAIL
ALL BOLTS ARE 1/2"ø X 1" MACHINE BOLTS U.N.



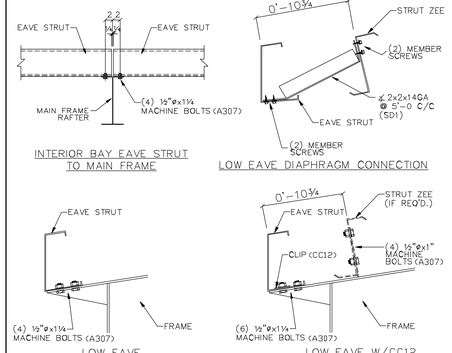
H2 MAIN FRAME INTERIOR COLUMN BY-PASS GIRTS
BOLTS ARE 1/2"ø X 1" MACHINE BOLTS U.N.



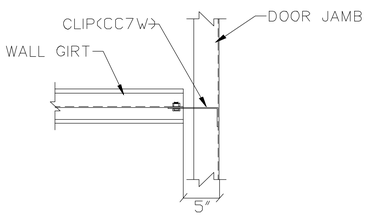
H9 FIXED BASE OR PORTAL COLUMN
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



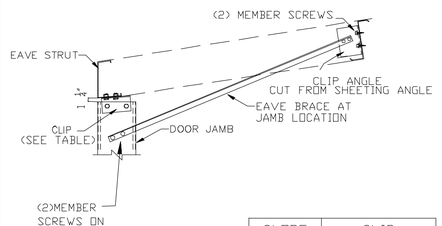
I8 END BAY EAVE STRUT TO BEARING FRAME ENDWALL
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



J2 LOW EAVE DETAIL (BYPASS CONDITION)
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.

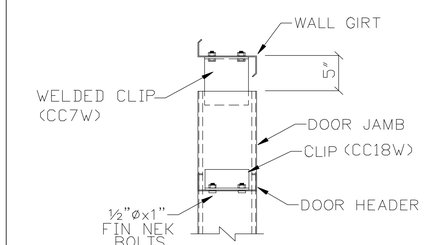


K3 WALL GIRT TO DOOR JAMB
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



SLOPE	CLIP
1:12	CC51 (L/R)
2:12	CC52 (R/L)
3:12	CC53 (R/L)
4:12	CC54 (R/L)

L1 DOOR JAMB TO EAVE STRUT
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.



L8 DOOR JAMB TO WALL GIRT WELDED CLIPS
ALL BOLTS ARE ½"ø x1" MACHINE BOLTS U.N.

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METAL BUILDING OUTLET CORP.

DESCRIPTION	DETAIL
BUYER / CUSTOMER	Northwest Artic Borough
END USER	Northwest Artic Borough
END USE	Storage
STREET	2nd St Block 5 Lot 20 USS 2863
CITY, STATE, ZIP	Kotzbue, AK 99752
COUNTY	Northwest Artic Borough
S.O.# J-10723-RA JOB#	SCALE N.T.S. DWG# E8 OF E9

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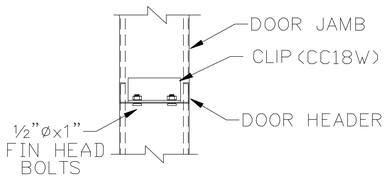
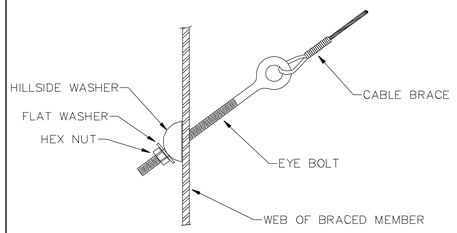


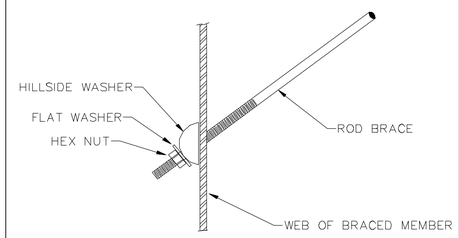
M5 HEADER TO C JAMB

ALL BOLTS ARE ½"Ø×1" MACHINE BOLTS U.N.



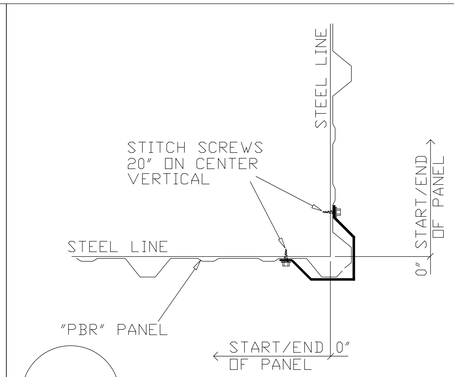
Q2 CABLE BRACE TO WEB CONNECTION

NOTE! USE A BACKUP PLATE UNDER THE HILLSIDE WASHER FOR COLD FORM MEMBERS

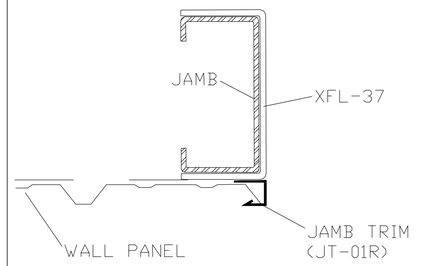


Q3 ROD BRACE TO WEB CONNECTION

NOTE! USE A BACKUP PLATE UNDER THE HILLSIDE WASHER FOR COLD FORM MEMBERS

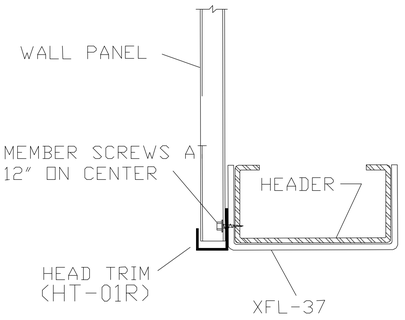


TRIM_19 OUTSIDE CORNER DETAIL



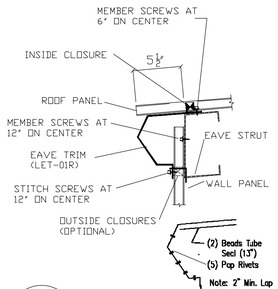
WITH WRAP TRIM

TRIM_80 JAMB DETAIL FOR FRAMED OPENINGS ("R" & "A" WALL PANEL)

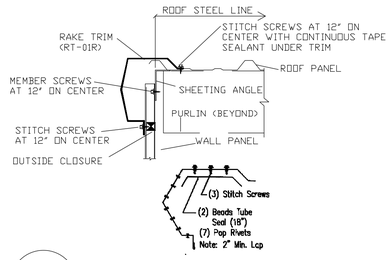


WITH WRAP TRIM

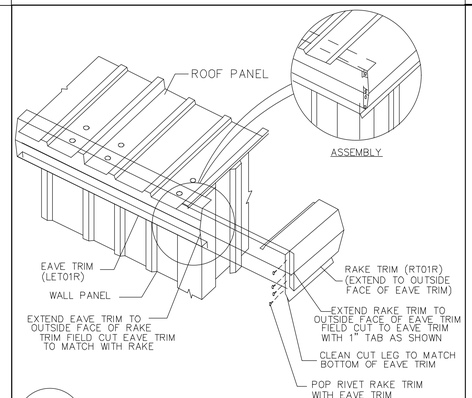
TRIM_72 HEADER DETAIL FOR FRAMED OPENINGS



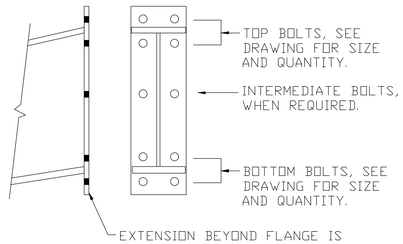
TRIM_87 LOW EAVE DETAIL < 2:12
SCULPTURED EAVE TRIM
SHEETED "R" WALL



TRIM_109 RAKE DETAIL WITH SHEETED WALL
"R" ROOF PANEL SHOWN

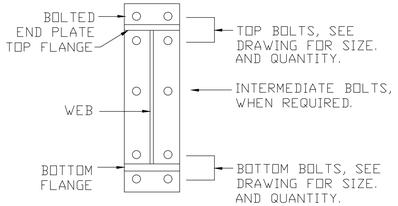


TRIM_129 EAVE & RAKE TRIM JOINT DETAIL



U2 BOLTED PLATE CONNECTION AT PEAK

SEE SPLICE PLATE & BOLT TABLE



U3 BOLTS FOR RAFTER TO COLUMN CONNECTION

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COUNTY	Northwest Artic Borough

S.O.# J-10723-RA JOB# SCALE N.T.S. DWG# E9 OF E9

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