

BUILDER/CONTRACTOR RESPONSIBILITIES

Drawing Validity – These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings – Approval of the manufacturer’s drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer’s interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice APR 10 Section 4.4.1)

Code Official Approval – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Builder is responsible for State, Federal and OSHA safety compliance – The Builder/Contractor is responsible for applying and observing all pertinent safety rules and regulations and OSHA standards as applicable.

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice APR 10 Section 7.10.3)

Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice APR 10 Section 3.3)

Materials by Others – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design – The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, 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. (MBMA MBSM Chapter 4 Section 3.2.2 and Section A3)



Download panel installation manuals from:
www.cornerstonebuildingbrands.com/installationmanuals/

Descargue los manuales de instalación del panel desde:
www.cornerstonebuildingbrands.com/installationmanuals/

1/2"Ø A325 BOLT GRIP TABLE (UNLESS NOTED)		
GRIP	LENGTH	BOLT LENGTH
0 TO 9/16"	1 1/4" F.T.	<p>NOTE: FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.</p> <p>WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.</p>
Over 9/16" TO 1 1/16"	1 3/4" F.T.	
Over 1 1/16" TO 1 5/16"	2"	
Over 1 5/16" TO 1 9/16"	2 1/4"	
Over 1 9/16" TO 1 13/16"	2 1/2"	
Over 1 13/16" TO 2 1/16"	2 3/4"	
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS		
F.T. DENOTES FULLY THREADED		

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacture nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer’s Engineer’s certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacture’s standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, The fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require separate support members within the roof system.

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.

ENGINEERING DESIGN CRITERIA

Building Code..... IBC 18
Building Risk Category..... II – Normal

Roof Dead Load
Superimposed..... 2.420 psf
Collateral..... 1 psf
Roof Live Load.....20.00 psf (NON-REDUCIBLE)

Snow
Ground Snow Load (Pg)..... 43.00 psf
Snow Load Importance Factor (Is) 1.00
Snow Exposure Factor (Ce)..... 1.00
Thermal Factor (Ct)..... 1.00
Flat Roof Snow Load (Pf)..... 30.1 psf
Minimum Roof Snow Load (Pm)..... 30.10 psf

Wind
Ultimate Wind Speed (Vult)..... 100 mph
Nominal Wind Speed (Vas)..... 77 mph
(IBC Section 1609.3.1)
Serviceability Wind Speed..... 67 mph
Wind Exposure Category..... C
Internal Pressure Coefficient (GCpi) 0.18 / –0.18
Loads for components not provided by building manufacturer.

Wall Edge Zones
17.43 psf pressure
–23.24 psf suction
Other Wall Zones 17.43 psf pressure
–18.88 psf suction

These values are the maximum values required based on a 10 square foot area.
Components with larger areas may have lower wind loads.

Seismic
Seismic Importance Factor (Ie)..... 1.00
Seismic Design Category..... D
Soil Site Class..... d
Ss..... 1.457 g Sds..... 1.166 g
S1..... 0.490 g Sd1..... 0.590 g
Analysis Procedure..... Equivalent Lateral Force

Location...	Int	RF	Front	SW	Back	SW	Left	EW	Right	EW
System.....	C4	B3	B3	B3	C4	B3	C4	B3	C4	B3
R.....	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Cs.....	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359

Design Base Shear in kips (V) Transverse 15.63
Design Base Shear in kips (V) Longitudinal 15.50

Basic Structural System (from ASCE 7-16 Table 12.2-1)
System – Basic Force Resisting System
H – Steel System not Specifically Detailed for Seismic Resistance
C4 – Steel Ordinary Moment Frames
B3 – Steel Ordinary Concentric Braced Frames
G2 – Steel Ordinary Cantilevered Column Systems
R – Response Modification Coefficient
Cs – Seismic Response Coefficient
Transverse – Direction Parallel to the Rigid Frames
Longitudinal – Direction Perpendicular to the Rigid Frames

Drawing Index	
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E4	BACK SIDEWALL
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E6	RIGHT ENDWALL
E7-E8	FRAME CROSS SECTION
DET1-27	STANDARD DETAILS

DRAWING STATUS

FOR APPROVAL

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

FOR CONSTRUCTION PERMIT

These drawings, being for Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.

FOR ERECTOR INSTALLATION

Final drawings for construction.

For questions or assistance
Concerning Erection call:
800-905-3443
Monday-Friday 7:30am to 5:00pm

ENGINEERING SEAL

THE ENGINEER WHOSE SEAL APPEARS HEREON IS A CONTRACT ENGINEER FOR THE MANUFACTURER FOR THE MATERIALS DESCRIBED HEREIN. SAID SEAL OR CERTIFICATION IS LIMITED TO THE PRODUCTS DESIGNED AND MANUFACTURED BY MANUFACTURER ONLY, THE UNDERSIGNED ENGINEER IS NOT THE OVERALL ENGINEER OF RECORD FOR THIS PROJECT.

BEJUN ANKLESARIA, PE SE
2918 CREEK TERRACE DR.
MISSOURI CITY TX 77459
281-499-1472

Building Descriptions				
Building ID	Width(ft)	Length(ft)	Height(ft)	Slope
Building A	40	80	18	1.0:12

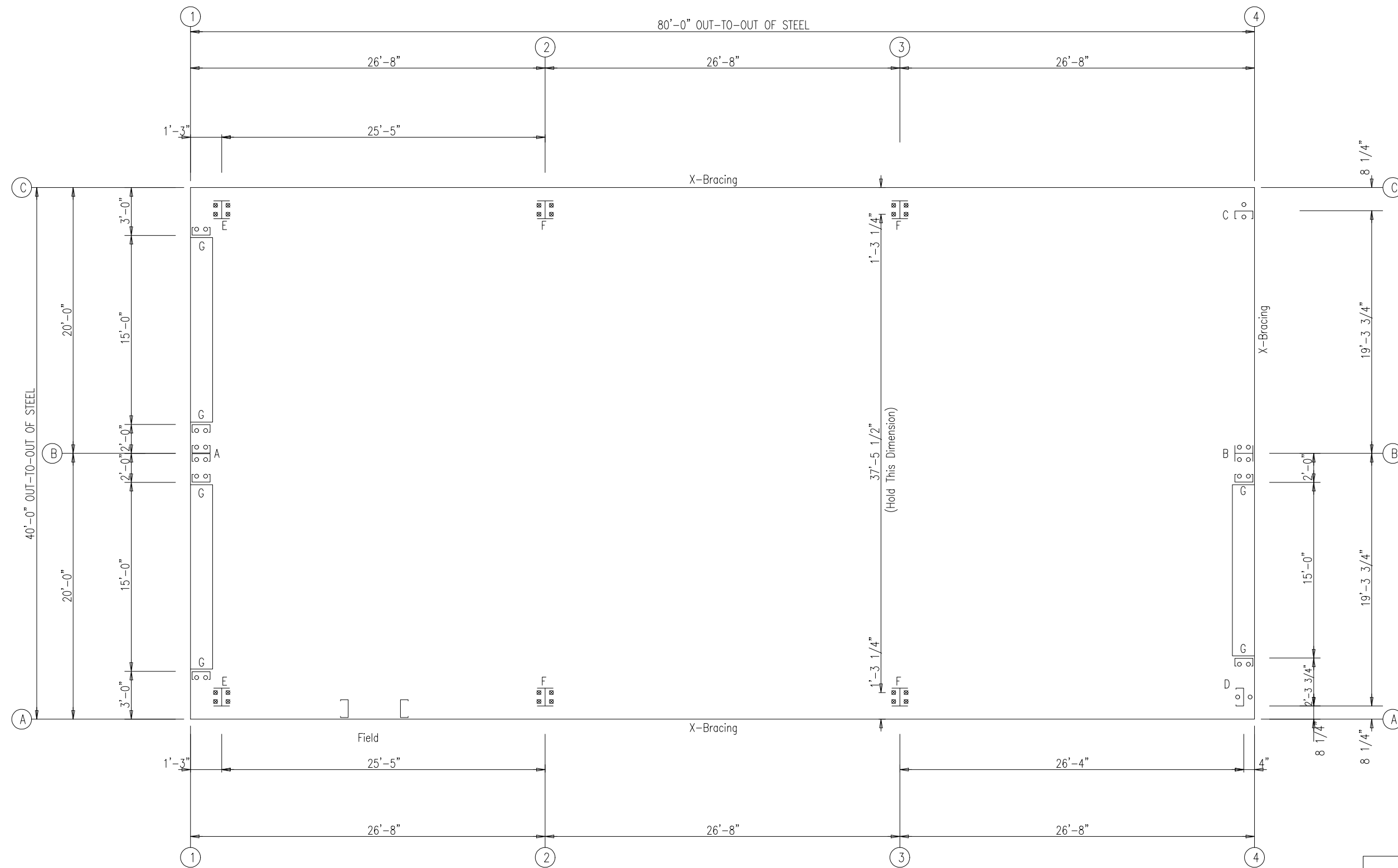
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN	
CUSTOMER: KEN KAPPERMAN			
LOCATION: SUN VALLEY, NV 89433-7859 US			
CAD	DATE	SCALE	PHASE
	4/26/22	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	18-B-52164	C1	A

○ Dia= 5/8"

⊗ Dia= 3/4"



ANCHOR BOLT PLAN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN	EMPIRE STEEL BUILDINGS 5230 CARROLL CANYON RD STE 300 SAN DIEGO, CA 92121-1781 US							
0	4/26/22	FOR ERECTOR INSTALLATION	ZMM	ZMM	CM	PROJECT: KAPPERMAN, KEN		CUSTOMER: KEN KAPPERMAN		OWNER: KEN KAPPERMAN		LOCATION: SUN VALLEY, NV 89433-7859 US	
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
							4/26/22	N.T.S.	1	A	18-B-52164	F1	0

GENERAL NOTES

- 1) THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
 - 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE)
 - A) A REACTION TABLE IS PROVIDED WITH REACTIONS FOR EACH LOAD GROUP
 - B) RIGID FRAMES
 - (1) SEE NOTE 3.
 - C) ENDWALLS
 - (1) SEE NOTE 3.
 - D) X-BRACING
 - 1) X-BRACING REACTIONS ARE INCLUDED IN VALUES SHOWN IN THE REACTION TABLES AS NOTED IN THE BRACING REACTIONS TABLE.
 - 2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{MAG} .
 - 3) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE ENDWALL, INDIVIDUAL TRANSVERSE SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{MAG} .
 - E) THE METAL BUILDING MANUFACTURER IS RESPONSIBLE ONLY FOR THE PORTION OF THE ANCHOR ROD DESIGN PERTAINING TO THE TRANSFER OF FORCES BETWEEN THE BASE PLATE BEARING AND THE ANCHOR ROD'S SHEAR AND TENSION. THE METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE ANCHOR ROD EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL, AND CONSTRUCTION OF THE FOUNDATION EMBEDMENT. THE END USER CUSTOMER SHALL ASSURE THAT ADEQUATE PROVISIONS ARE MADE TO 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 COMPETENT IN THE DESIGN OF SUCH STRUCTURES.
 - 1) (REF. APPENDIX A3 OF THE MBMA METAL BUILDING BUILDING SYSTEMS MANUAL)
 - F) ANCHOR RODS ARE ASTM F1554 GR. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
 - 3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN. THE FOUNDATION ENGINEER SHALL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS FOR PROPER FOUNDATION DESIGN.
 - A) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
 - B) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL WITH A LOAD FACTOR OF 1.0, AND DO NOT CONTAIN THE RHO FACTOR.
- THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

ENDWALL COLUMN:

BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz
1	B	0.2	-3.0	3.0

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
4	A	0.4	0.1	2.1	3.2	0.0	-1.9	0.0	-1.1	0.0	-1.2	0.0	-0.4	0.0
4	B	1.2	0.3	6.5	9.9	-2.1	-6.6	0.0	-2.4	-2.1	-4.8	0.0	-0.7	-2.8
4	C	0.4	0.1	2.1	3.2	0.0	1.1	2.1	-3.9	0.0	1.8	2.1	-3.2	0.0

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	-MIN_SNOW-- Horz	-MIN_SNOW-- Vert	E2UNB_SL_L- Horz	E2UNB_SL_L- Vert
4	A	0.0	0.0	-2.1	0.0	-1.1	0.0	0.1	0.0	-0.1	0.0	3.2	0.0	4.2
4	B	2.8	0.0	-4.1	-0.2	-4.4	-3.7	-3.8	0.0	3.5	0.0	9.9	0.0	7.9
4	C	0.0	0.2	-1.2	0.0	-1.9	0.0	3.7	3.7	-3.4	0.0	3.2	0.0	0.5

Frm Line	Col Line	E2UNB_SL_R- Horz	E2UNB_SL_R- Vert
4	A	0.0	0.5
4	B	0.0	7.9
4	C	0.0	4.2

ENDWALL COLUMN:

ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Thick	Grout (in)
1	B	4	0.625	7.000	8.000	0.250	0.0
4	A	2	0.625	7.000	8.000	0.250	0.0
4	B	4	0.625	6.000	8.000	0.375	0.0
4	C	2	0.625	7.000	8.000	0.250	0.0

BUILDING BRACING REACTIONS

Reactions in plane of wall ± Reactions(k)

Wall Loc	Col Line	Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft)	Note
L_EW	1						(h)
F_SW	A	2,3	3.0	*	7.7	*	
R_EW	4	B,C	Bracing, see EW reactions				
B_SW	C	3,2	3.0	*	7.7	*	

(h) Rigid frame at endwall

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

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
○ 12	Jamb	5/8"	F1554	2.00
○ 12	Endwall	5/8"	F1554	2.00
⊗ 24	Frame	3/4"	F1554	2.50

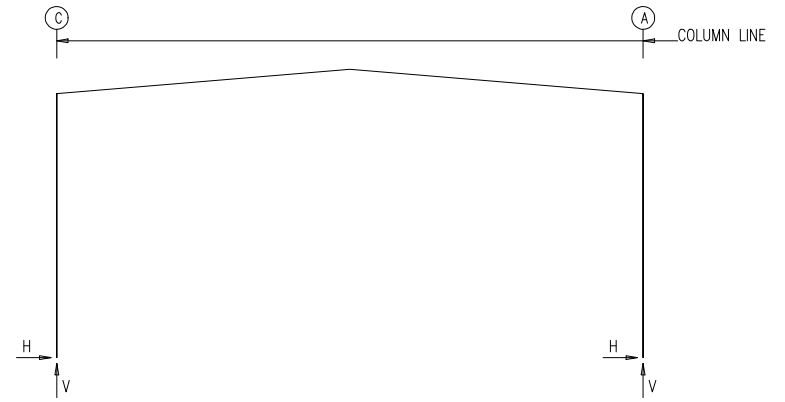
NOTES FOR REACTIONS

- BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:
- WIDTH (FT) = 40
 - LENGTH (FT) = 80
 - EAVE HEIGHT (FT) = 18 / 18
 - ROOF SLOPE (rise/12) = 1.0:12 / 1.0:12
 - DEAD LOAD (psf) = 2.420
 - COLLATERAL LOAD (psf) = 1
 - ROOF LIVE LOAD (psf) = 20.00
 - FRAME LIVE LOAD (psf) = 20
 - ROOF SNOW LOAD (psf) = 30.1
 - GROUND SNOW LOAD (psf) = 43.00
 - MIN ROOF SNOW LOAD (psf) = 43.00
 - WIND SPEED (MPH) = 100
 - WIND CODE = IBC 18
 - EXPOSURE = C
 - CLOSED/OPEN = Closed
 - IMPORTANCE - WIND = 1.00
 - IMPORTANCE - SEISMIC = 1.00
 - SEISMIC ZONE = D

REACTION KEY:

- WIND Left/Right 1 = (with +Gcpi Internal Pressure)
- WIND Left/Right 2 = (with -Gcpi Internal Pressure)
- Wind_Long 1 = Wind Load Case B at Left EW
- Wind_Long 2 = Wind Load Case B at Right EW
- MIN_SNOW = Minimum Snow (Pm) per code
- E#UNB_SL_L = Endwall Unbalanced Snow Left
- E#UNB_SL_R = Endwall Unbalanced Snow Right
- F#UNB_SL_L = Rigid Frame Unbalanced Snow Left
- F#UNB_SL_R = Rigid Frame Unbalanced Snow Right

FRAME LINES: 1 2 3



RIGID FRAME:

ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Thick	Grout (in)
1	C	4	0.750	6.000	10.50	0.375	0.0
1	A	4	0.750	6.000	10.50	0.375	0.0

RIGID FRAME:

ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Dia	Base_Plate Width (in)	Base_Plate Length (in)	Thick	Grout (in)
2*	C	4	0.750	6.000	10.50	0.375	0.0
2*	A	4	0.750	6.000	10.50	0.375	0.0

2* Frame lines: 2 3

RIGID FRAME:

BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert
1	C	0.3	1.2	0.1	0.3	2.0	5.6	3.0	8.4	-3.2	-5.3	1.0	-2.3
1	A	-0.3	1.2	-0.1	0.3	-2.0	5.6	-3.0	8.4	-1.0	-2.3	3.2	-5.3

Frame Line	Column Line	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert	Seismic_Right Horz	Seismic_Right Vert
1	C	-3.5	-3.6	0.7	-0.7	0.0	-4.2	-0.2	-3.4	-1.9	-1.7	1.9	1.7
1	A	-0.7	-0.7	3.5	-3.6	0.2	-3.4	0.0	-4.2	-1.9	1.7	1.9	-1.7

Frame Line	Column Line	-MIN_SNOW-- Horz	-MIN_SNOW-- Vert	F1UNB_SL_L- Horz	F1UNB_SL_L- Vert	F1UNB_SL_R- Horz	F1UNB_SL_R- Vert
1	C	3.0	8.4	2.4	8.4	2.4	4.5
1	A	-3.0	8.4	-2.4	4.5	-2.4	8.4

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert
2*	C	0.6	1.9	0.2	0.5	4.1	10.7	6.2	16.1	-5.7	-8.7	2.4	-3.5
2*	A	-0.6	1.9	-0.2	0.5	-4.1	10.7	-6.2	16.1	-2.4	-3.5	5.7	-8.7

Frame Line	Column Line	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert	Seismic_Right Horz	Seismic_Right Vert
2*	C	-6.5	-5.6	1.5	-0.4	0.1	-8.5	-0.2	-7.3	-3.2	-2.7	3.2	2.7
2*	A	-1.5	-0.4	6.5	-5.6	0.2	-7.3	-0.1	-8.5	-3.2	2.7	3.2	-2.7

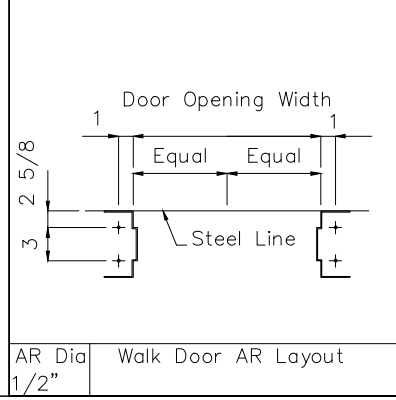
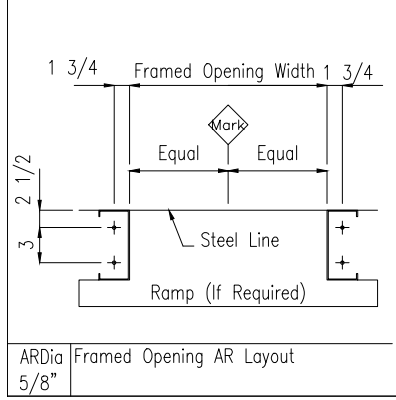
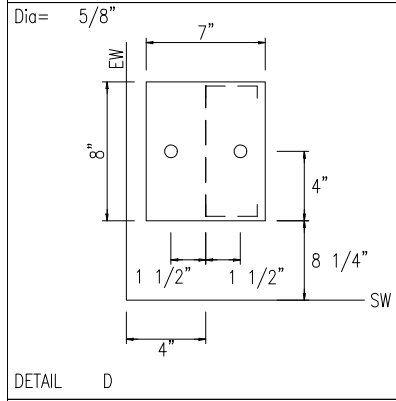
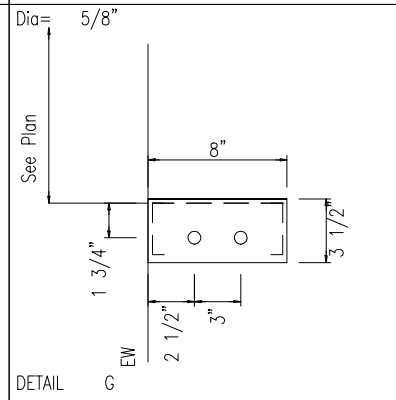
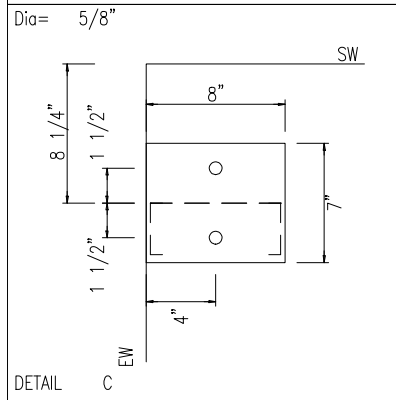
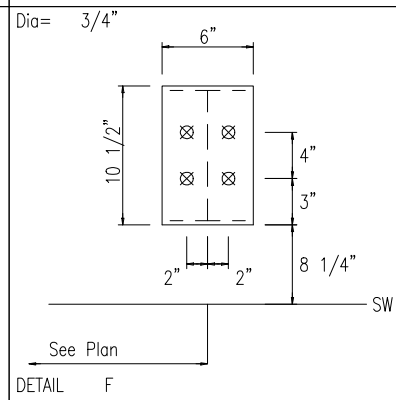
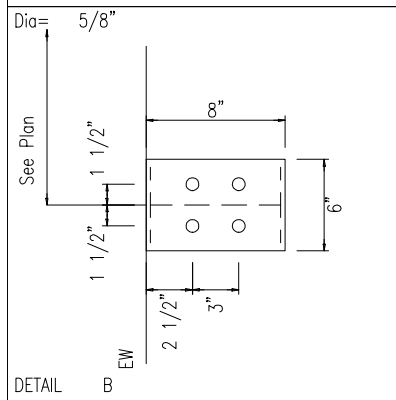
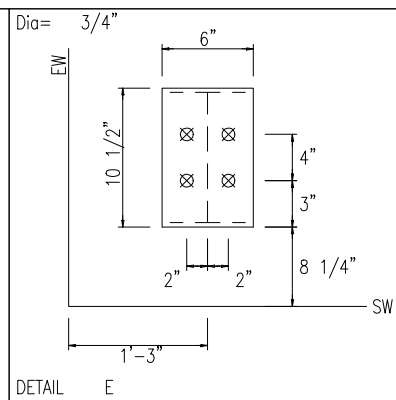
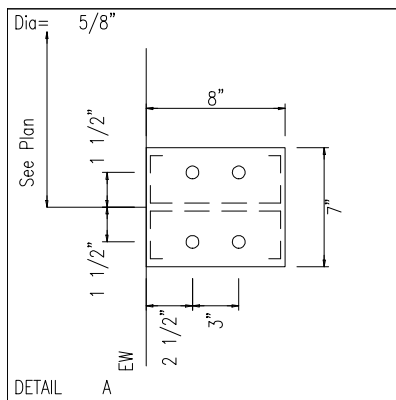
Frame Line	Column Line	-Seismic_Long Horz	-Seismic_Long Vert	-MIN_SNOW-- Horz	-MIN_SNOW-- Vert	F2UNB_SL_L- Horz	F2UNB_SL_L- Vert	F2UNB_SL_R- Horz	F2UNB_SL_R- Vert
2*	C	0.0	-6.0	6.2	16.1	5.0	16.0	5.0	8.6
2*	A	0.0	-6.0	-6.2	16.1	-5.0	8.6	-5.0	16.0

2* Frame lines: 2 3

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/26/22	FOR ERECTOR INSTALLATION	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	F2	0

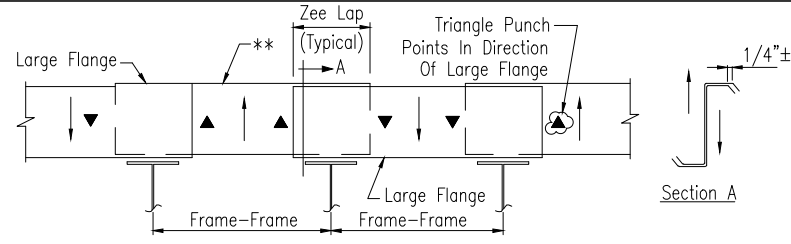
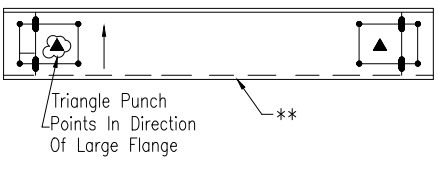


ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	4/26/22	FOR ERECTOR INSTALLATION	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN	
CUSTOMER: KEN KAPPERMAN			
LOCATION: SUN VALLEY, NV 89433-7859 US			
CAD	DATE	SCALE	PHASE
	4/26/22	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	18-B-52164	F3	0

** = SAME FLANGE

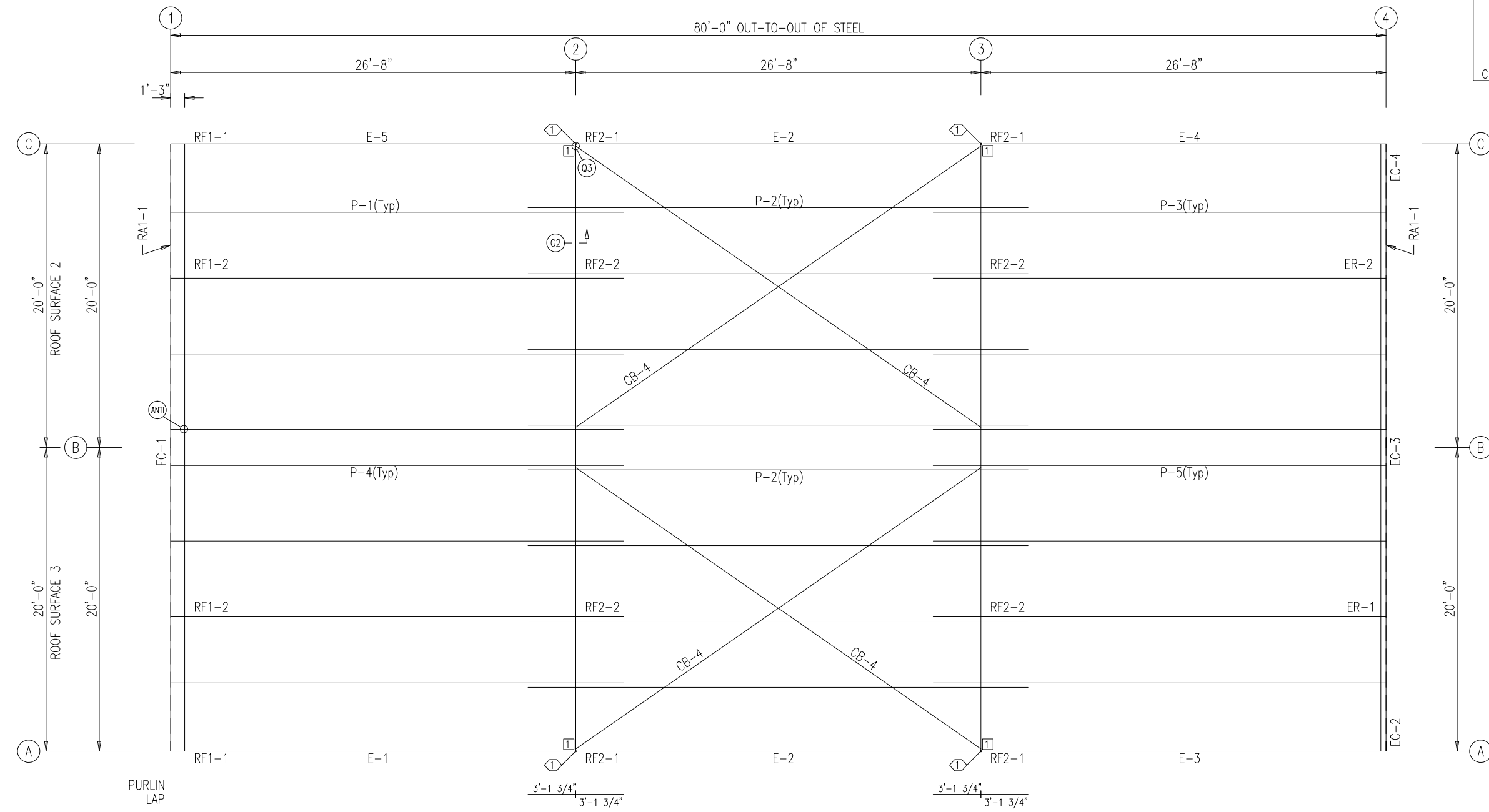


The large leg of the Zee must be alternated from top to bottom in order to nest the member correctly. A triangle has been added to the end of the Zee near the connection holes, that will point to the large leg of the member.

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

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	10X35Z13	29'-9 1/2"
P-2	10X35Z13	32'-11 1/2"
P-3	10X35Z13	29'-9 1/2"
P-4	10X35Z13	29'-9 1/2"
P-5	10X35Z13	29'-9 1/2"
E-1	10ES1L14	26'-7 1/2"
E-2	10ES1L14	26'-7 1/2"
E-3	10ES1L14	26'-7 1/2"
E-4	10ES1L14	26'-7 1/2"
E-5	10ES1L14	26'-7 1/2"
CB-4	5/8" DIA. ROD	32'-6"

CONNECTION PLATES	
ROOF PLAN	
ID	MARK/PART
1	SC18



ROOF FRAMING PLAN

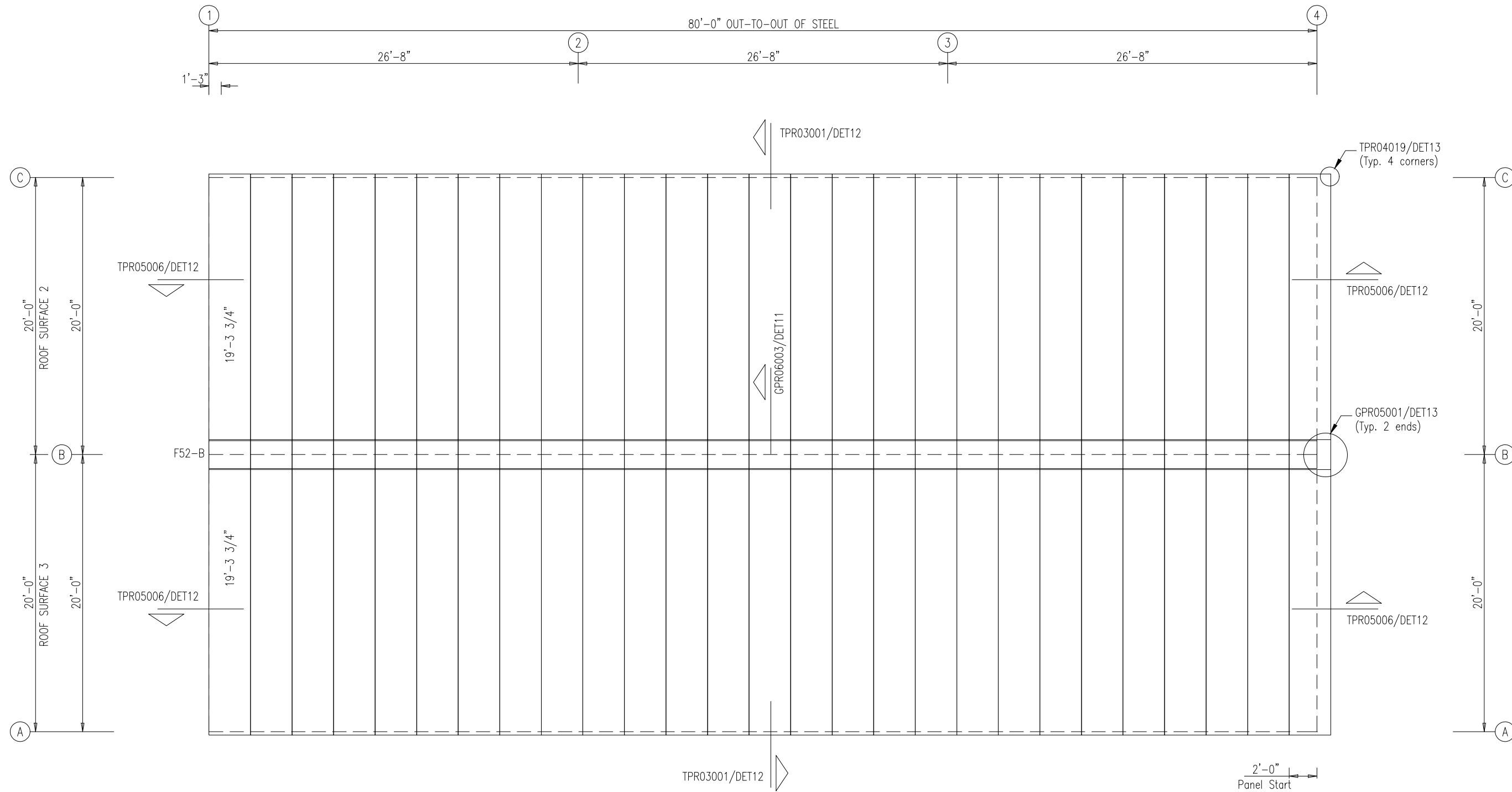
- GENERAL NOTES:
1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
 2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
 4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
 5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
 6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN		LOCATION: SUN VALLEY, NV 89433-7859 US					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E1	A

PBR ROOF SHEETING NOTE:
 PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND
 OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED.



ROOF SHEETING PLAN
 PANELS: 26 Gauge PBR - Galvalume

GENERAL NOTES:

1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

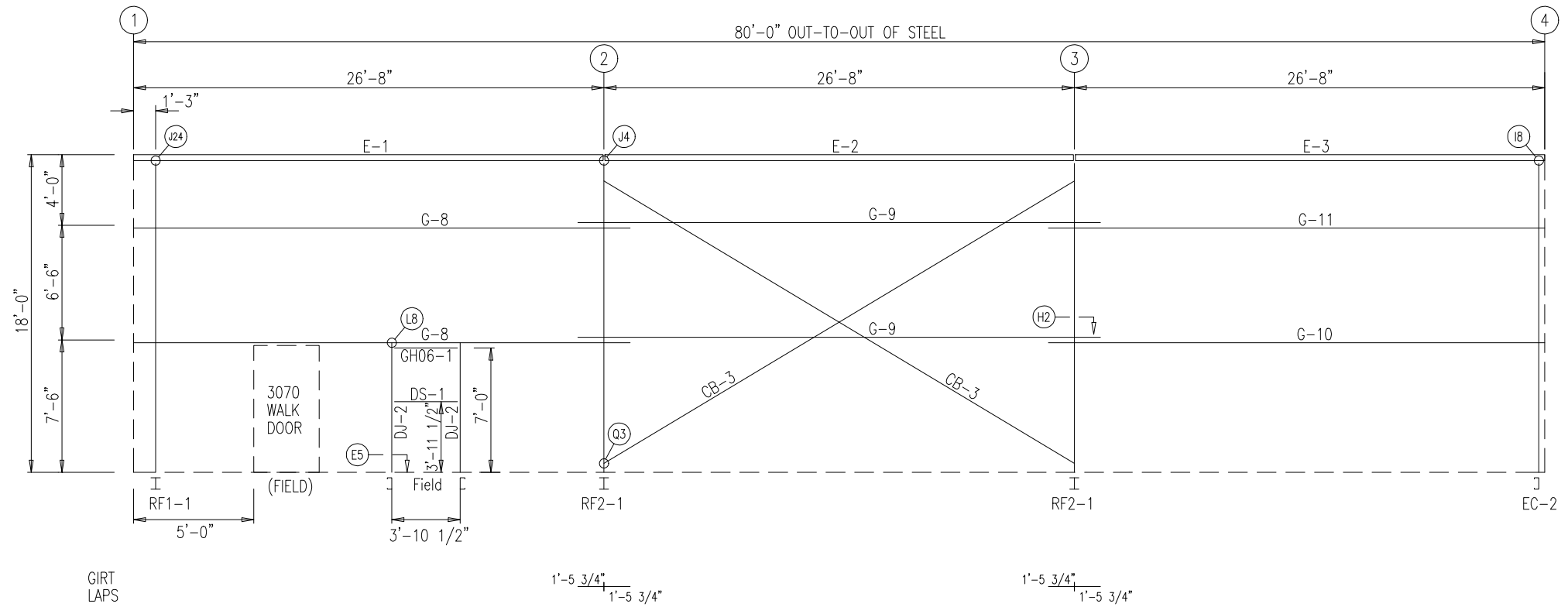
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

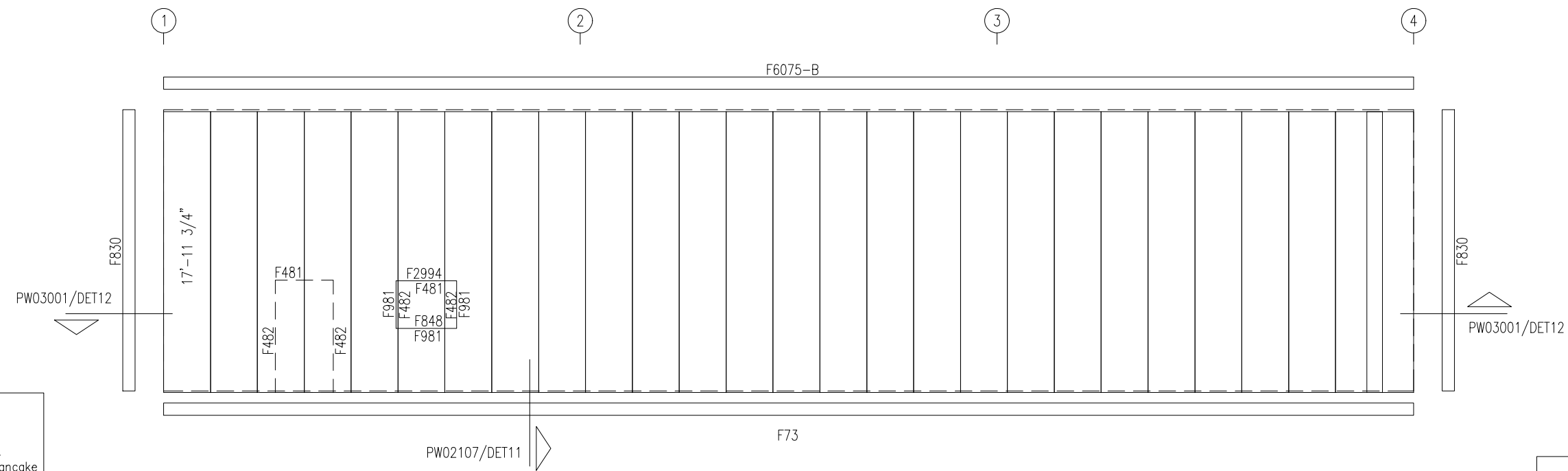
PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E2	A

SPECIAL BOLTS						
Q ID	QUAN	TYPE	DIA	LENGTH	WASH	
2	4	A325	1/2"	1 1/4"	0	

MEMBER TABLE		
FRAME LINE A		
MARK	PART	LENGTH
DJ-2	8X25C16	7'-6"
GH06-1	GH06	3'-10 1/2"
DS-1	8X25C16	3'-10 1/2"
E-1	10ES1L14	26'-7 1/2"
E-2	10ES1L14	26'-7 1/2"
E-3	10ES1L14	26'-7 1/2"
G-8	8X25Z16	28'-1 1/2"
G-9	8X25Z16	29'-7 1/2"
G-10	8X25Z14	28'-1 1/2"
G-11	8X25Z16	28'-1 1/2"
CB-3	3/4" DIA. ROD	31'-10"

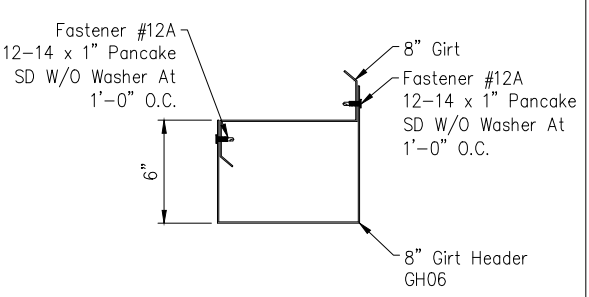


SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Gauge PBR - Polar White



- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
 2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

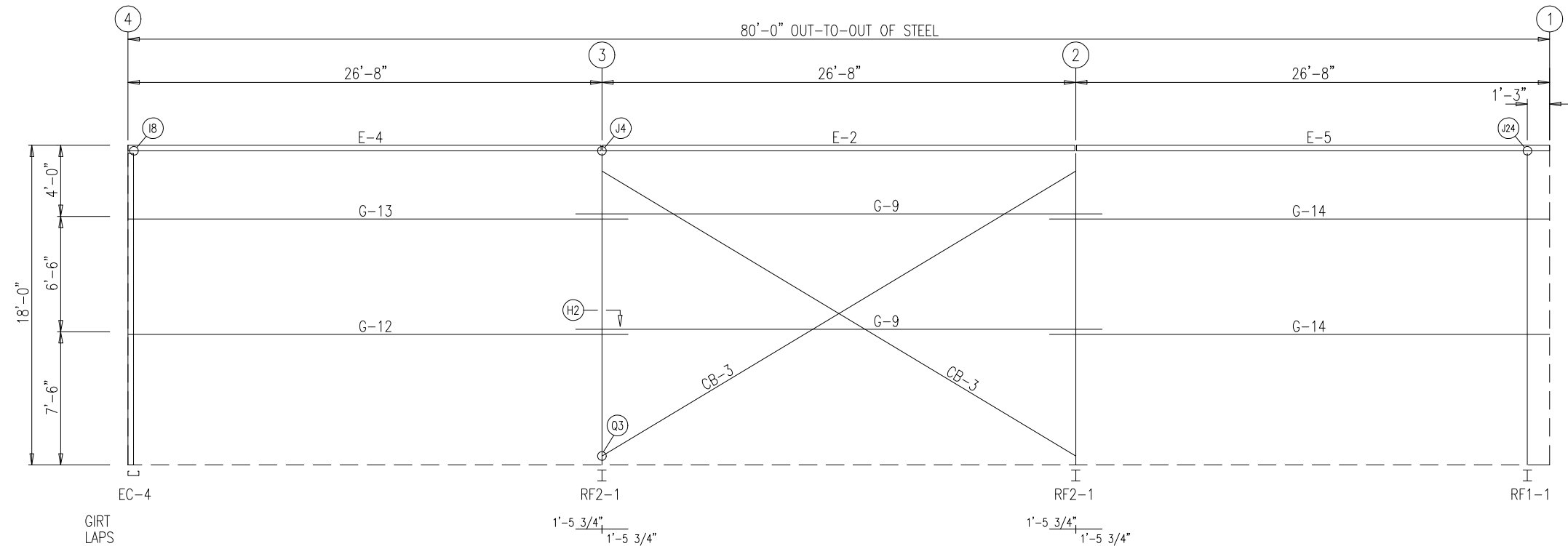
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

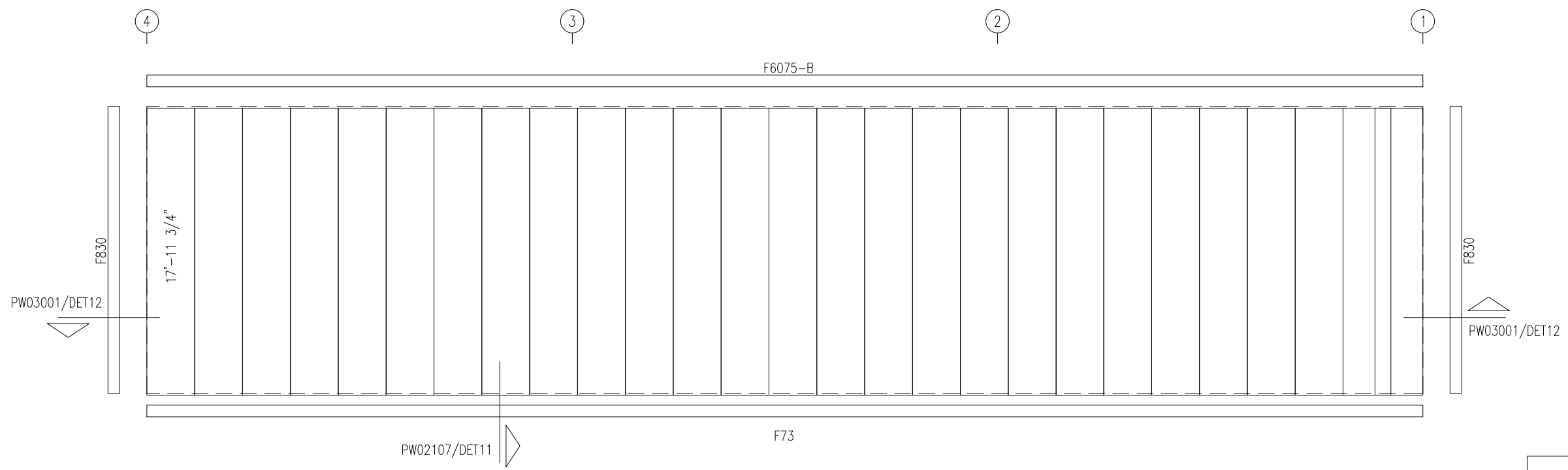
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	4/26/22	N.T.S.	1	A	18-B-52164	E3	A

SPECIAL BOLTS						
Q ID	QUAN	TYPE	DIA	LENGTH	WASH	
2	4	A325	1/2"	1 1/4"	0	

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
E-2	10ES1L14	26'-7 1/2"
E-4	10ES1L14	26'-7 1/2"
E-5	10ES1L14	26'-7 1/2"
G-9	8X25Z16	29'-7 1/2"
G-12	8X25Z14	28'-1 1/2"
G-13	8X25Z16	28'-1 1/2"
G-14	8X25Z16	28'-1 1/2"
CB-3	3/4" DIA. ROD	31'-10"



SIDEWALL FRAMING: FRAME LINE C



SIDEWALL SHEETING & TRIM: FRAME LINE C

PANELS: 26 Gauge PBR - Polar White

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN		LOCATION: SUN VALLEY, NV 89433-7859 US					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E4	A

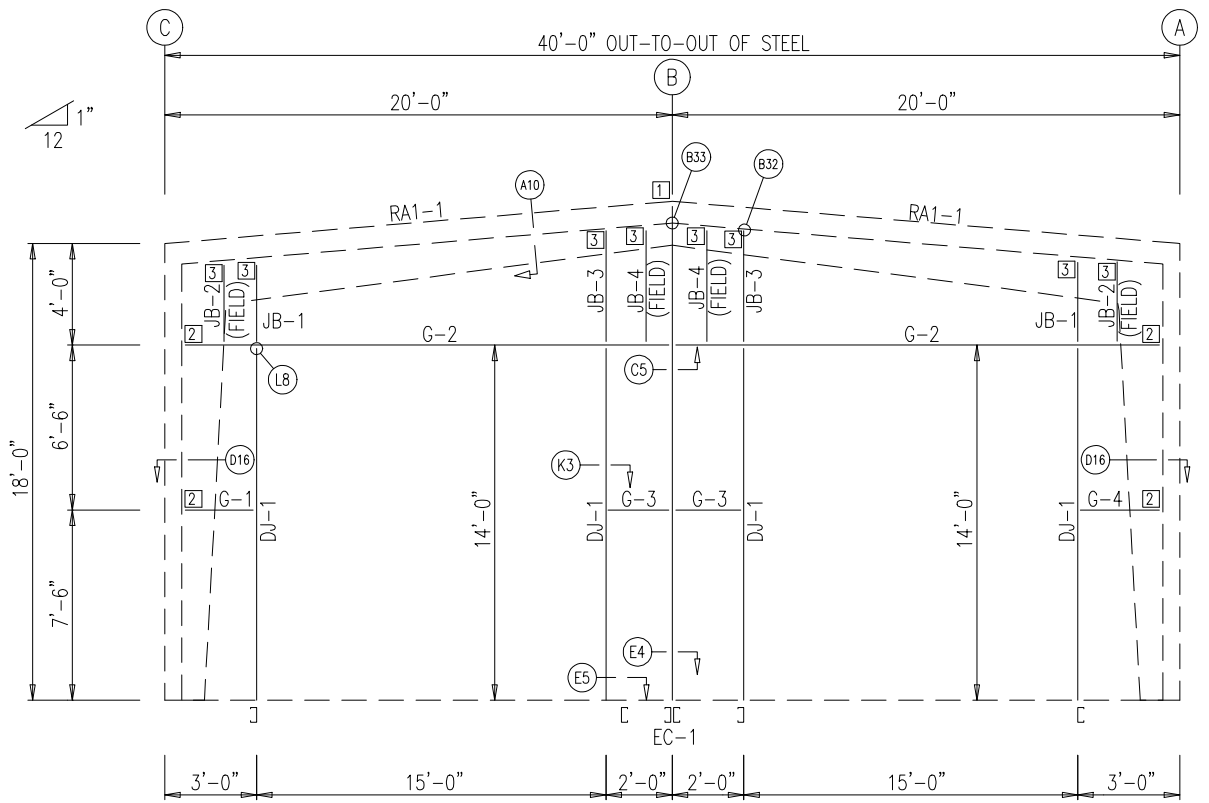
- GENERAL NOTES:
- INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
 - WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 - OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 - AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

BEARING FRAME ONLY!
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL
 RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE.
 WASHER NOT NEEDED ON CLIP SIDE.

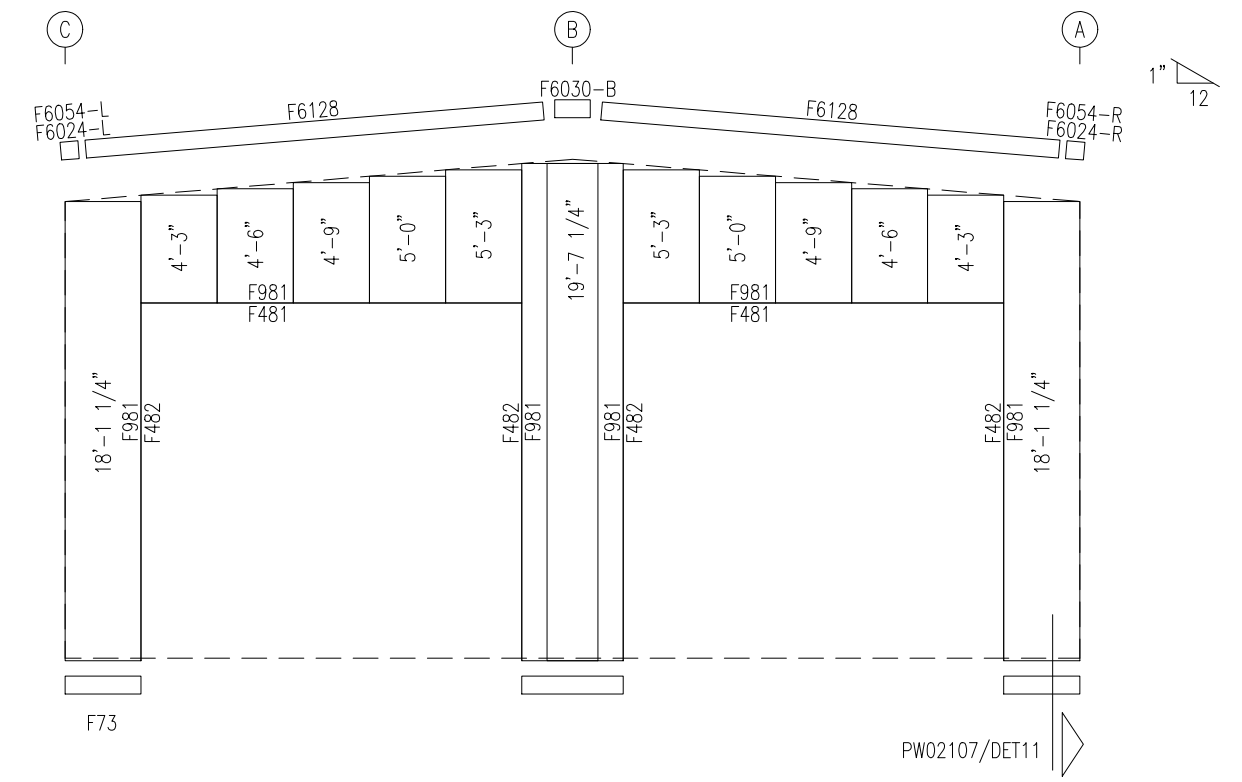
BOLT TABLE				
FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	8	A325	1/2"	1 1/4"

MEMBER TABLE		
FRAME LINE 1		
MARK	PART	LENGTH
EC-1	8f70D12	18'-7 11/16"
DJ-1	8X35C12	14'-0"
G-1	8X25Z16	2'-0"
G-2	8X25C16	18'-11 3/4"
G-3	8X25Z16	1'-4 1/4"
G-4	8X25Z16	2'-0"
JB-1	8f35C14	3'-2 11/16"
JB-2	8f35C14	3'-2 11/16"
JB-3	8f35C14	4'-5 11/16"
JB-4	8f35C14	4'-5 11/16"

CONNECTION PLATES	
FRAME LINE 1	
ID	MARK/PART
1	Z1CX
2	SC484
3	Z1AX

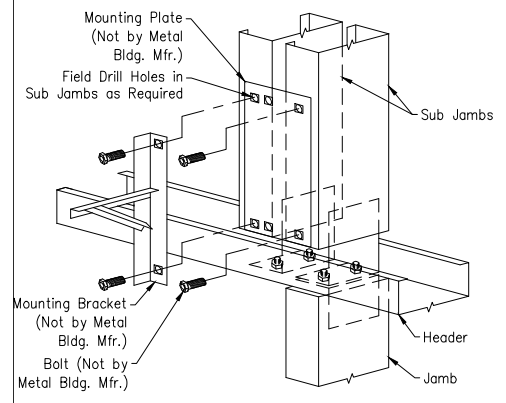


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR - Polar White



GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
 CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
 LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E5	A

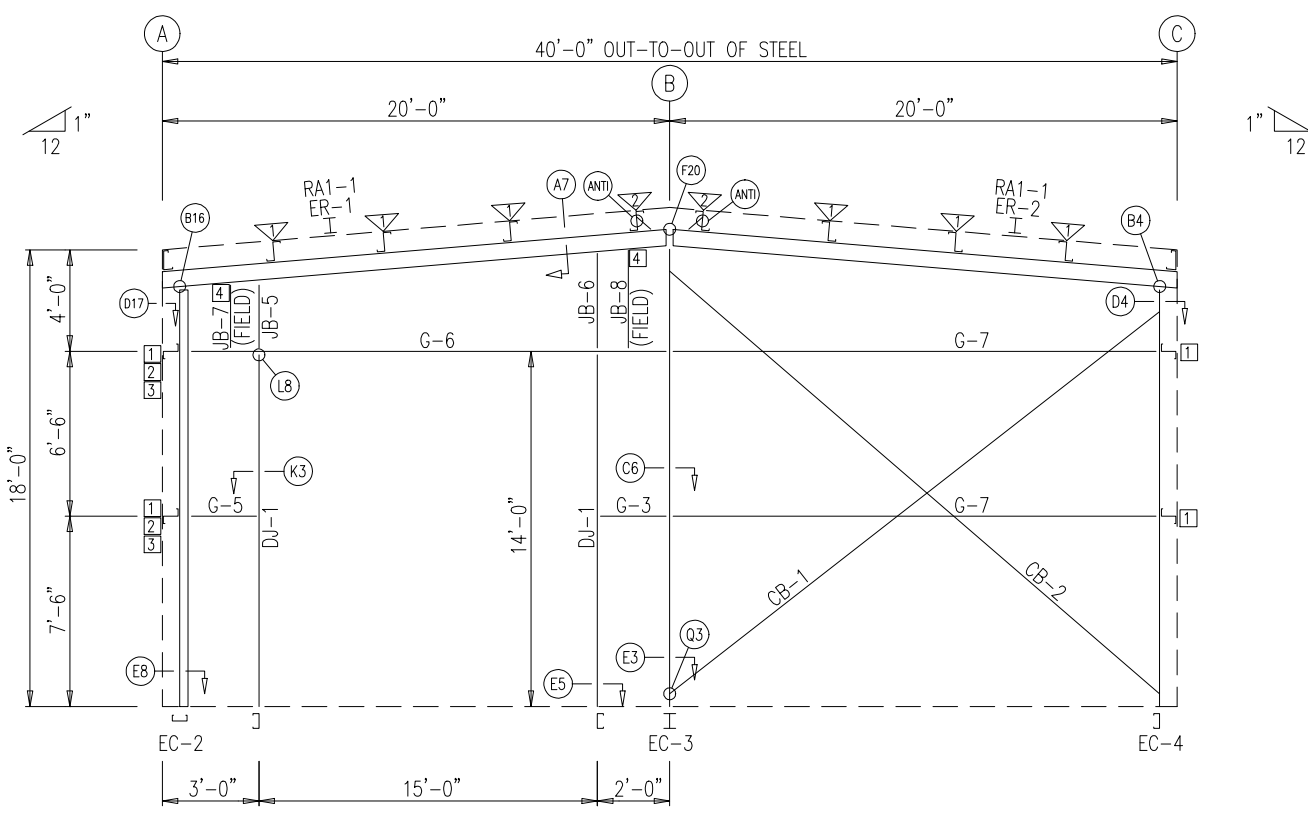
BEARING FRAME ONLY!
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL
 RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE.
 WASHER NOT NEEDED ON CLIP SIDE.

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

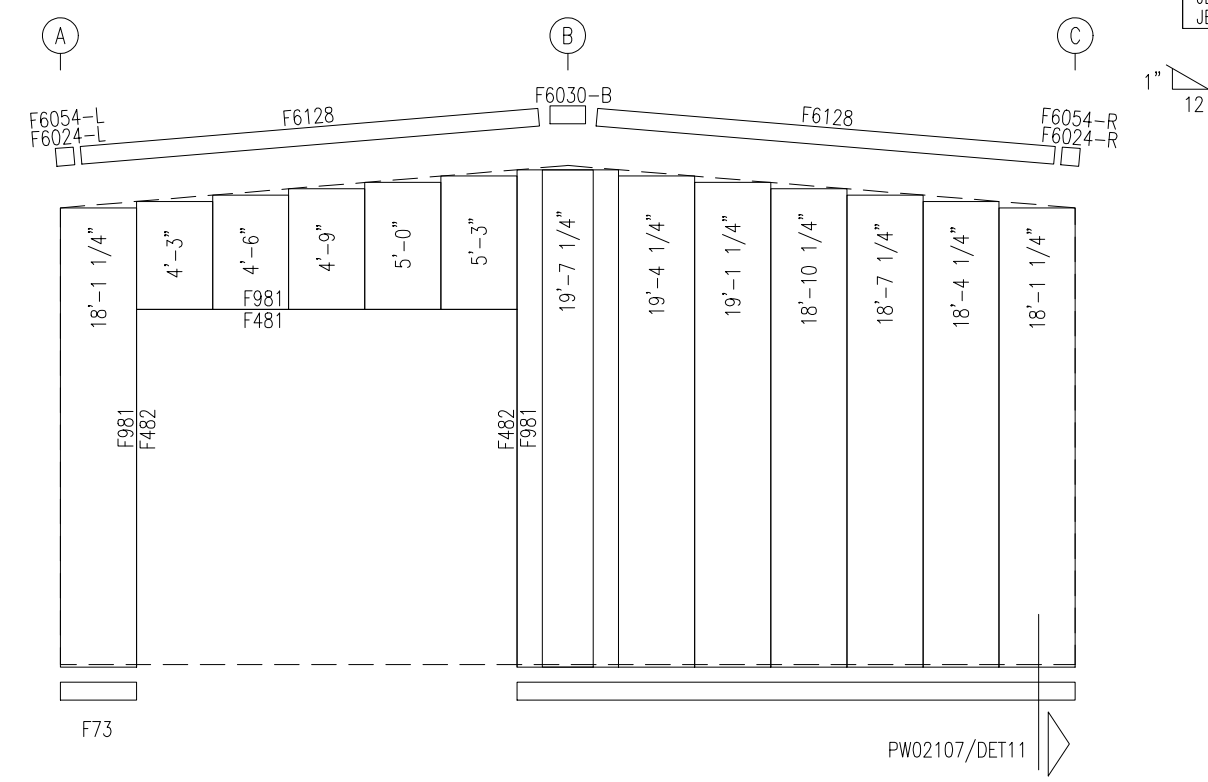
MEMBER TABLE FRAME LINE 4		
MARK	PART	LENGTH
EC-2	8F35C14	16'-7 1/8"
EC-3	W8X10	17'-10 3/16"
EC-4	8F35C12	16'-5 1/2"
ER-1	W8X10	20'-1 1/4"
ER-2	W8X10	20'-1 1/4"
DJ-1	8X35C12	14'-0"
G-3	8X25Z16	1'-4 1/4"
G-5	8X25Z16	1'-3 3/4"
G-6	8X25C16	18'-3 1/2"
G-7	8X25Z16	18'-7 3/4"
CB-1	1/2" DIA. ROD	25'-2"
CB-2	1/2" DIA. ROD	26'-1"
JB-5	8F35C14	2'-7 13/16"
JB-6	8F35C14	3'-10 13/16"
JB-7	8F35C14	2'-7 13/16"
JB-8	8F35C14	3'-10 13/16"

FLANGE BRACE TABLE FRAME LINE 4			
ID	MARK	PART	LENGTH
1	FB29.5	L2X2X1/4G	2'-5 1/2"
2	FB6-1	L2X2X1/8"	2'-5 1/2"

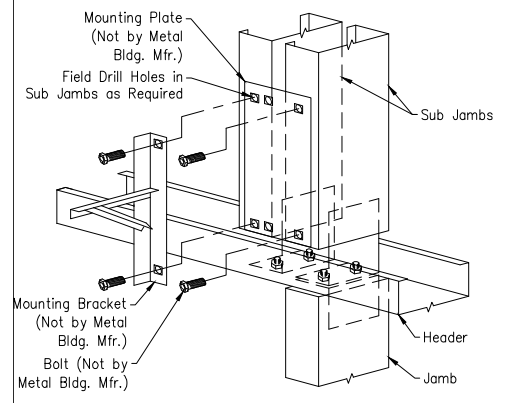
CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	SC-5
2	PC22
3	PC30
4	AX1



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4
 PANELS: 26 Gauge PBR - Polar White



GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
 CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
 LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E6	A

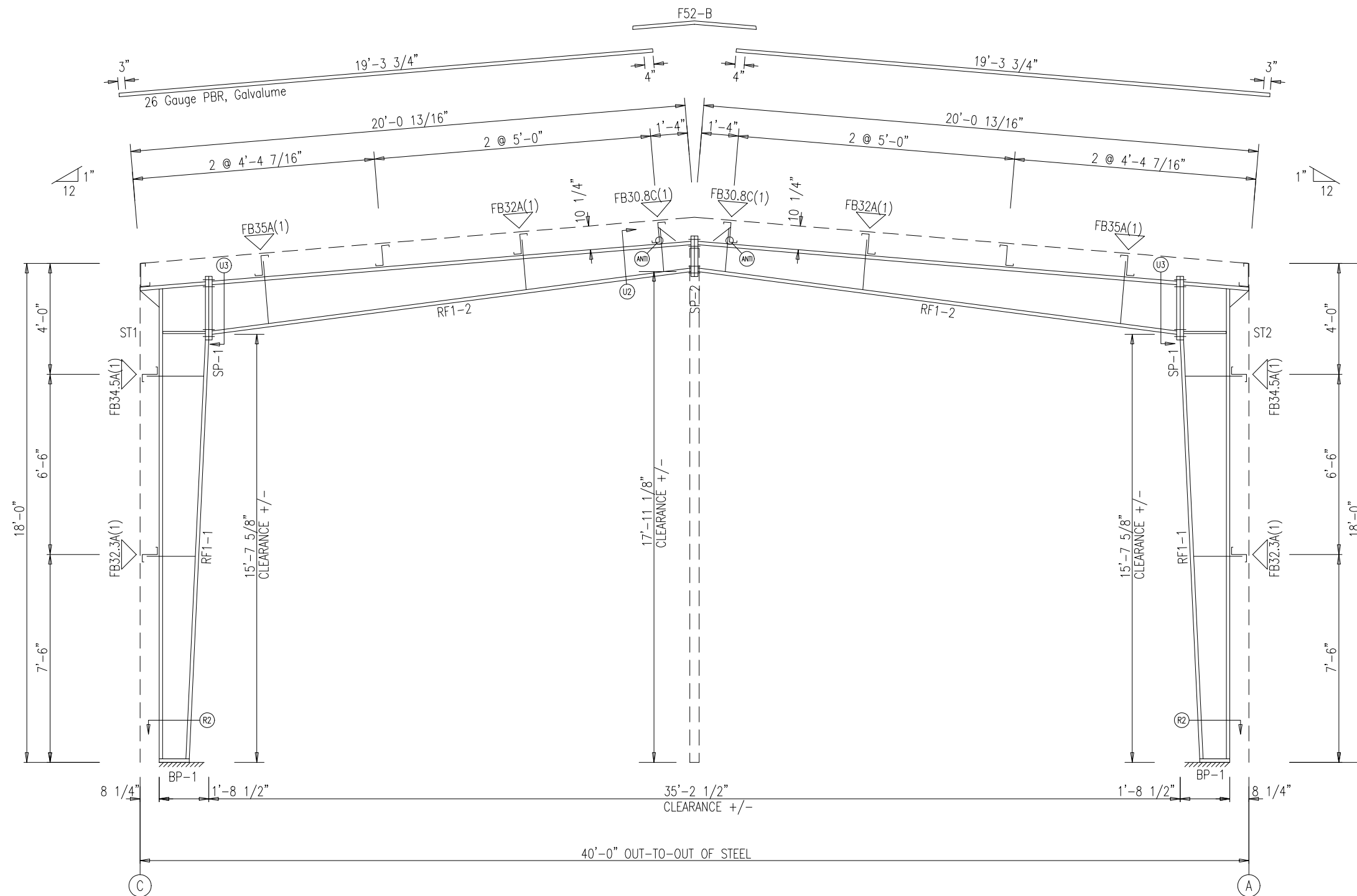
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2"	6"	1/2"	2'-2 7/8"
SP-2	4	4	0	A325	3/4"	2"	6"	1/2"	1'-4 3/4"

STIFFENER TABLE				
Mark	Stiff Mark	Width	Plate Size Thick	Length
RF1-1	ST1	2	1/2" x 1/4"	20"

BASE PLATE TABLE			
Col Mark	Width	Plate Size Thick	Length
BP-1	6"	3/8"	10 1/2"

MEMBER TABLE					
Mark	Web Depth		Web Plate		Outside Flange
	Start/End	Thick	Length	W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	10.0/20.0	0.134	207.5	5 x 1/4" x 205.8	5 x 1/4" x 184.3
RF1-2	20.0/10.0	0.134	212.4	5 x 1/4" x 210.7	5 x 1/4" x 211.8

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X1/4G
 C - L2X2X1/8G



RIGID FRAME ELEVATION: FRAME LINE 1

GENERAL NOTES:

- FULLY TIGHT - BOLT TIGHTENING-BOLTED JOINTS WITH A325 1 BOLTS GREATER THAN 1/2" DIAMETER ARE SPECIFIED AS PRETENSIONED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DECEMBER 31, 2009. PRE-TENSIONING CAN BE ACCOMPLISHED BY USING THE TURN-OF-NUT METHOD OF TIGHTENING, CALIBRATED WRENCH, TWIST OFF TYPE TENSION CONTROL BOLTS OR DIRECT TENSION INDICATOR AS ACCEPTABLE TO THE INSPECTING AGENCY AND BUILDING OFFICIAL. INSTALLATION INSPECTION REQUIREMENTS FOR PRE-TENSIONED JOINTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.2) USING TURN-OF-NUT METHOD IS SUGGESTED. THE CONNECTIONS ON THIS PROJECT ARE NOT SLIP CRITICAL.
- ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.
- INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	E7	A

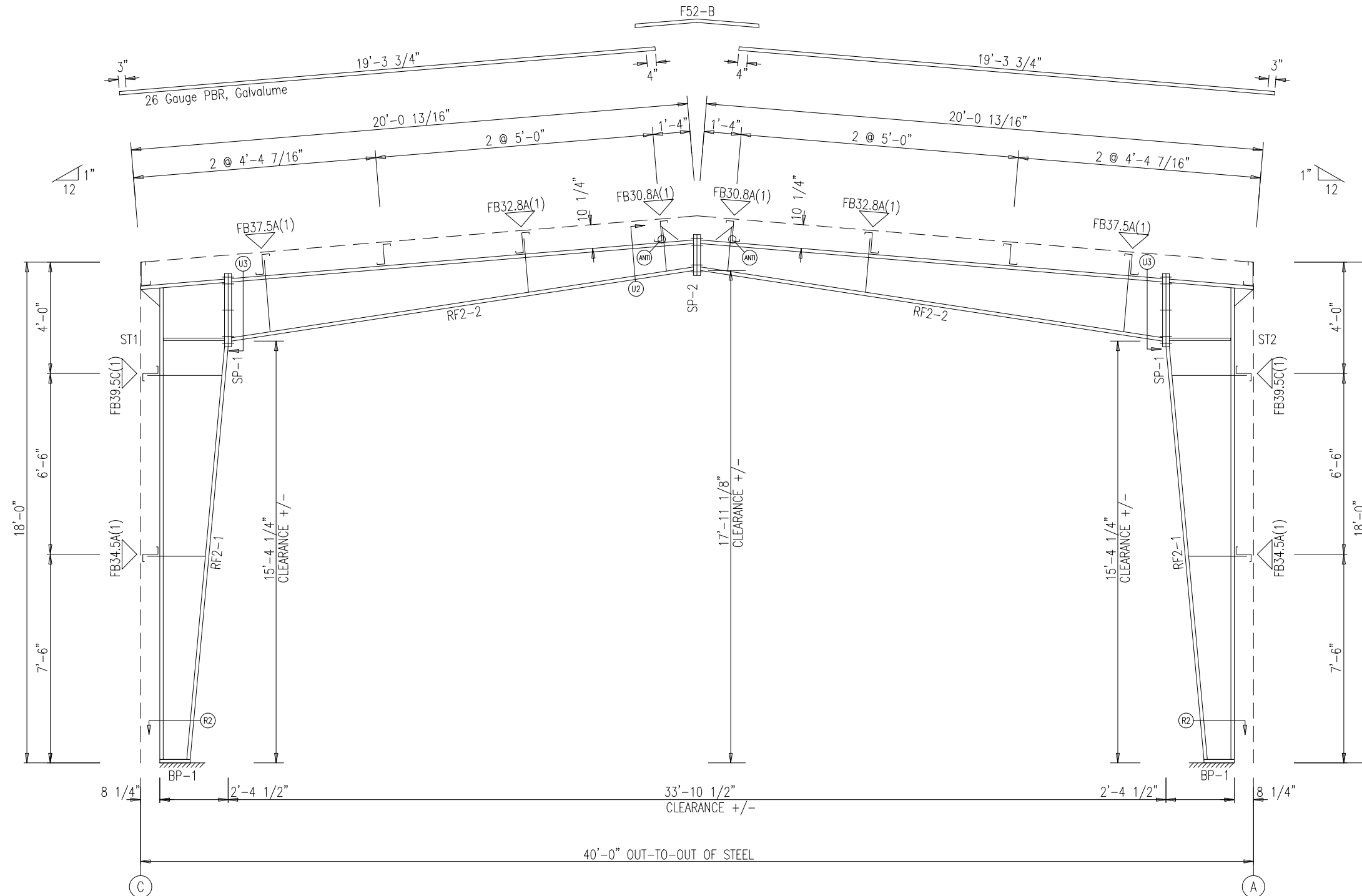
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	6"	1/2"	2'-6 7/8"
SP-2	4	4	0	A325	3/4"	2"	6"	1/2"	1'-4 3/4"

MEMBER TABLE						
Mark	Web Depth		Web Plote		Outside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length	
RF2-1	10.0/28.0	0.134	208.1	5 x 1/4" x 205.8		
				5 x 1/4" x 36.6		
RF2-2	24.0/10.0	0.134	204.7	5 x 1/4" x 202.7		
				5 x 1/4" x 204.3		

STIFFENER TABLE				
Mark	Stiff Mark	Width	Plate Size Thick	Length
RF2-1	ST1	2 1/2	1/4"	28"

BASE PLATE TABLE			
Col Mark	Width	Plate Size Thick	Length
BP-1	6"	3/8"	10 1/2"

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X1/4G
 C - L2X2X1/8



RIGID FRAME ELEVATION: FRAME LINE 2 3

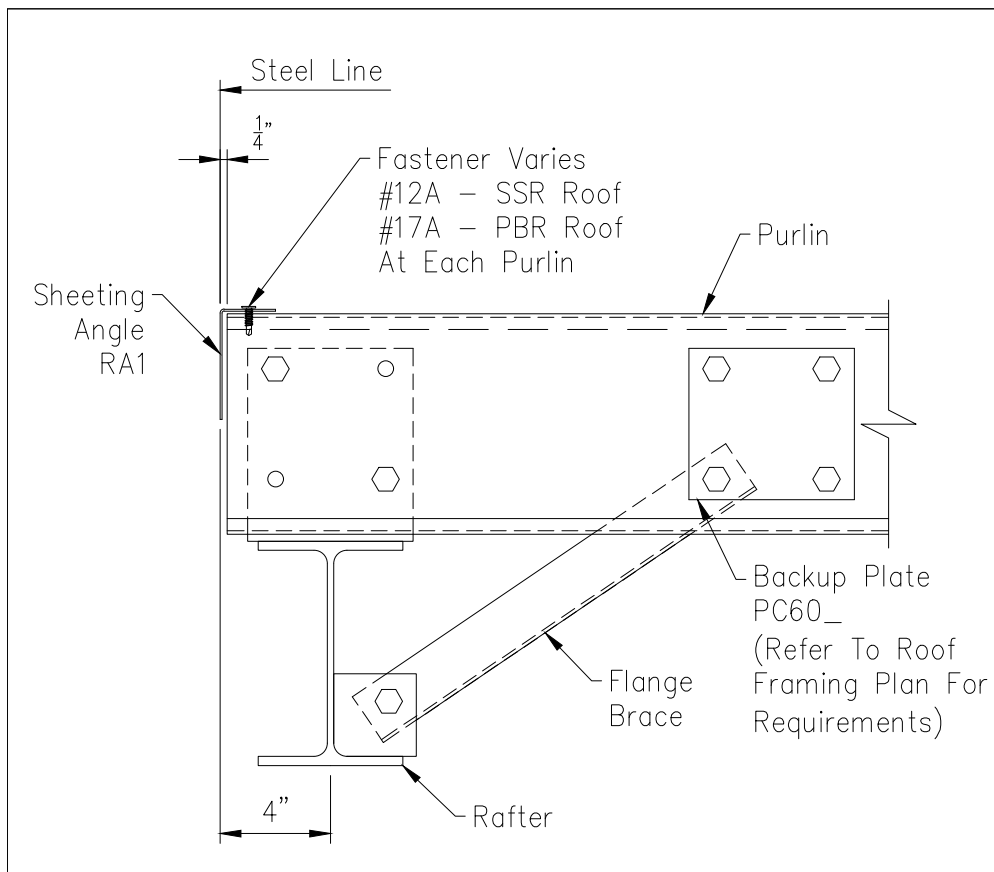
GENERAL NOTES:

- FULLY TIGHT - BOLT TIGHTENING--BOLTED JOINTS WITH A325 1 BOLTS GREATER THAN 1/2" DIAMETER ARE SPECIFIED AS PRETENSIONED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DECEMBER 31, 2009. PRE-TENSIONING CAN BE ACCOMPLISHED BY USING THE TURN-OF-NUT METHOD OF TIGHTENING, CALIBRATED WRENCH, TWIST OFF TYPE TENSION CONTROL BOLTS OR DIRECT TENSION INDICATOR AS ACCEPTABLE TO THE INSPECTING AGENCY AND BUILDING OFFICIAL. INSTALLATION INSPECTION REQUIREMENTS FOR PRE-TENSIONED JOINTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.2) USING TURN-OF-NUT METHOD IS SUGGESTED. THE CONNECTIONS ON THIS PROJECT ARE NOT SLIP CRITICAL.
- ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.
- INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

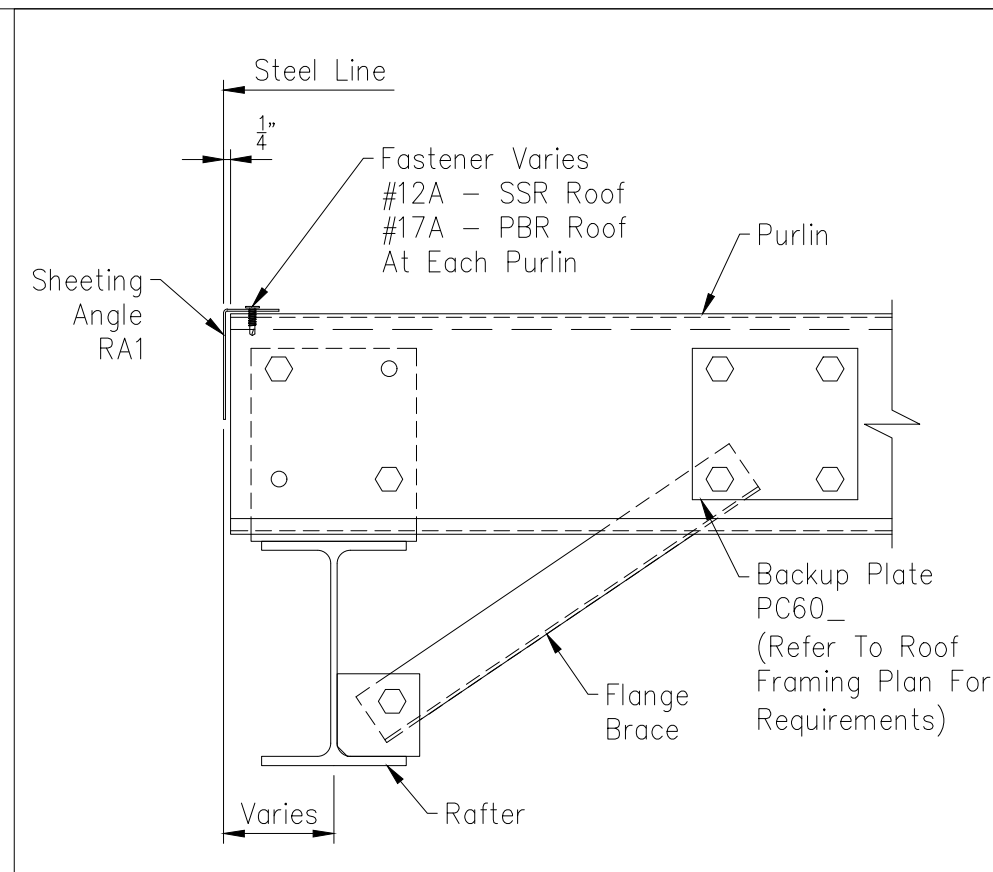
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

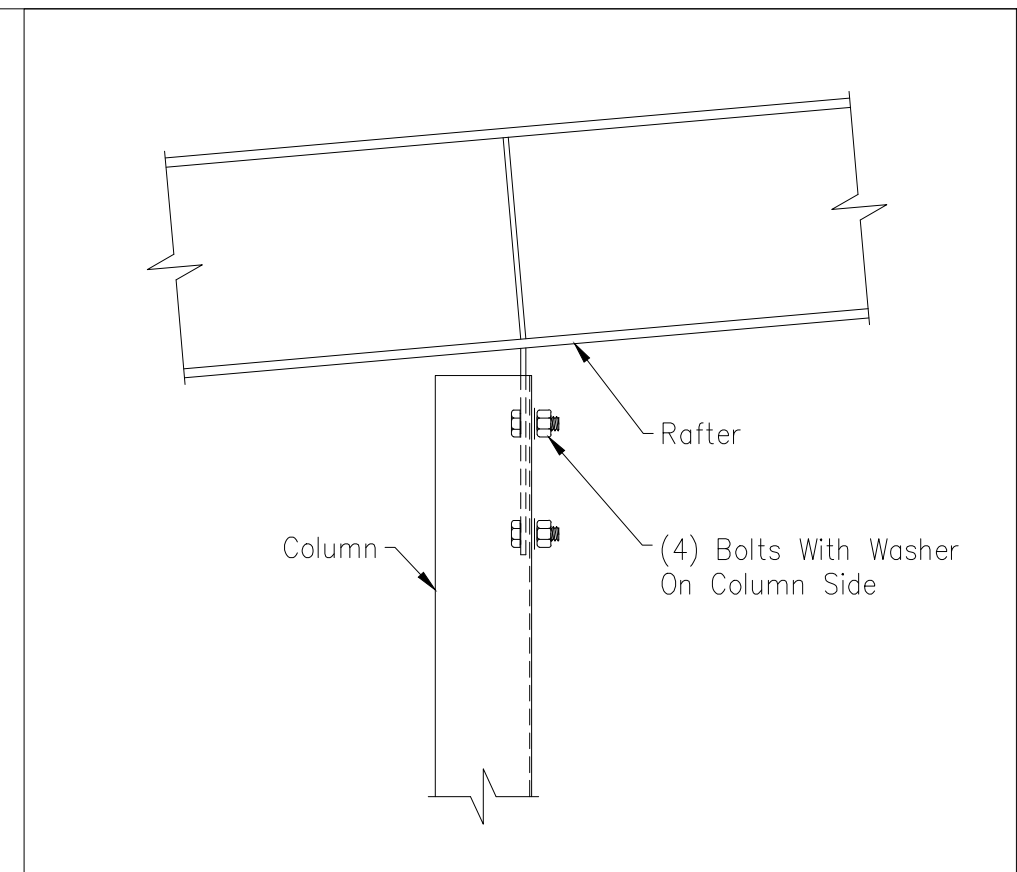
PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN	
CUSTOMER: KEN KAPPERMAN		OWNER: KEN KAPPERMAN	
LOCATION: SUN VALLEY, NV 89433-7859 US			
CAD	DATE	SCALE	PHASE
	4/26/22	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	18-B-52164	E8	A



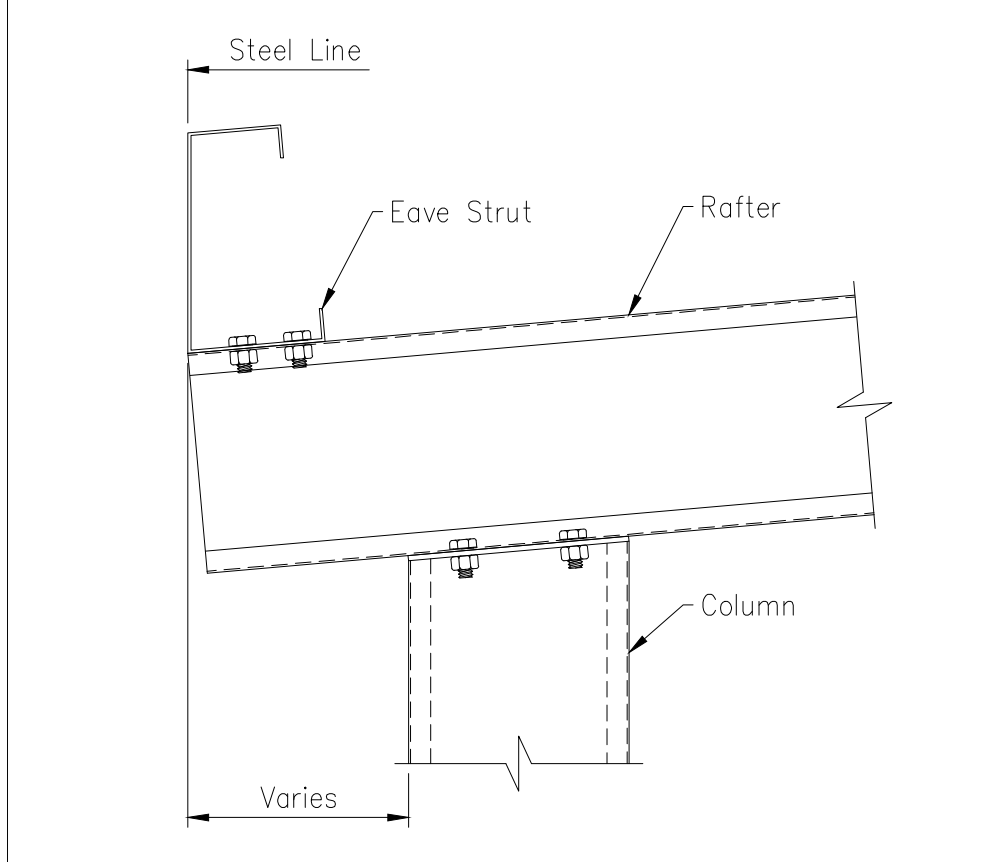
A7 Purlin To Bearing Frame Hot Rolled Rafter
 Date Jul '21
 Rev 02
 Page MB-A7



A10 Purlin To Rigid Frame
 Date Jul '21
 Rev 02
 Page MB-A10



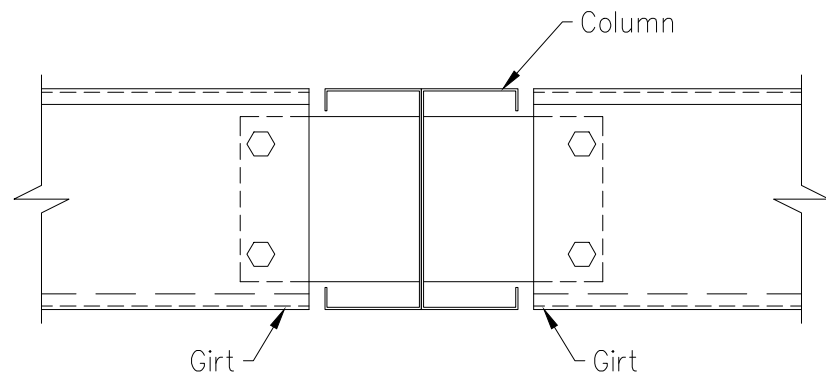
B4 Cold Form Endwall Column To Rafter
 Date Aug '20
 Rev 01
 Page MB-B4



B16 Corner Column To Bearing Frame Single Cold Form Rafter
 Date Jun '17
 Rev 00
 Page MB-B16

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS 5230 CARROLL CANYON RD STE 300 SAN DIEGO, CA 92121-1781 US							
PROJECT: KAPPERMAN, KEN				OWNER: KEN KAPPERMAN			
CUSTOMER: KEN KAPPERMAN				LOCATION: SUN VALLEY, NV 89433-7859 US			
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET1	A

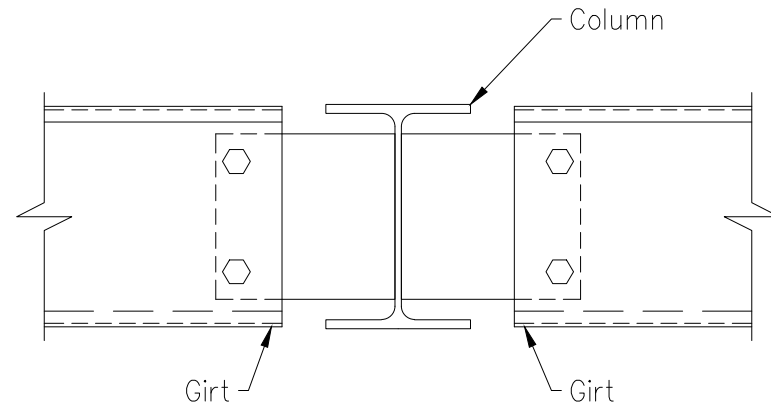


C5

Girt To Double Cee Cold Form Endwall Column

Date
Dec '17
Rev
00

Page
MB-C5

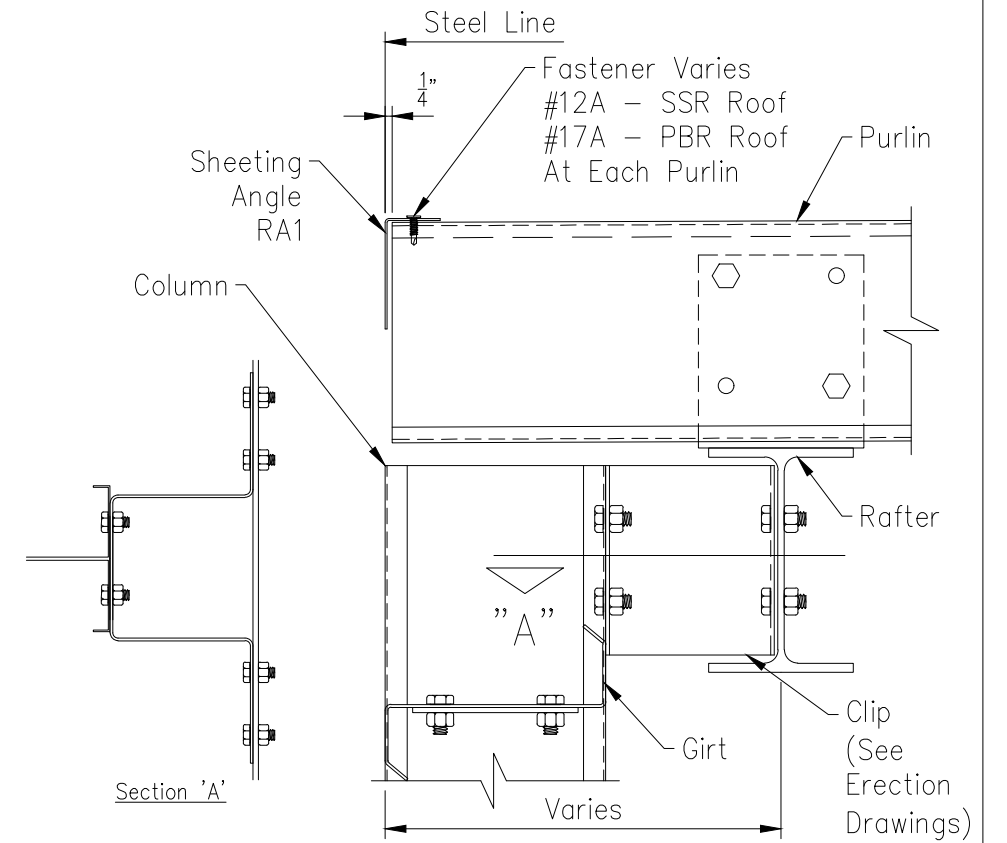


C6

Girt To Hot Rolled Endwall Column

Date
Jun '17
Rev
00

Page
MB-C6

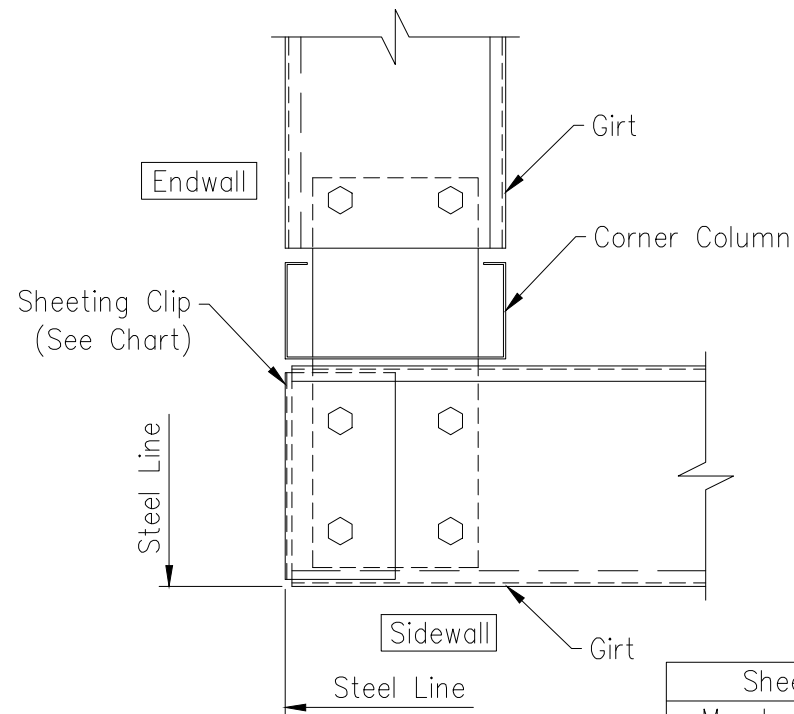


B33

Endwall Column To Rigid Frame Rafter

Date
Nov '19
Rev
01

Page
MB-B33



D4

Girt To Cold Form Corner Column

Date
Oct '19
Rev
01

Page
MB-D4

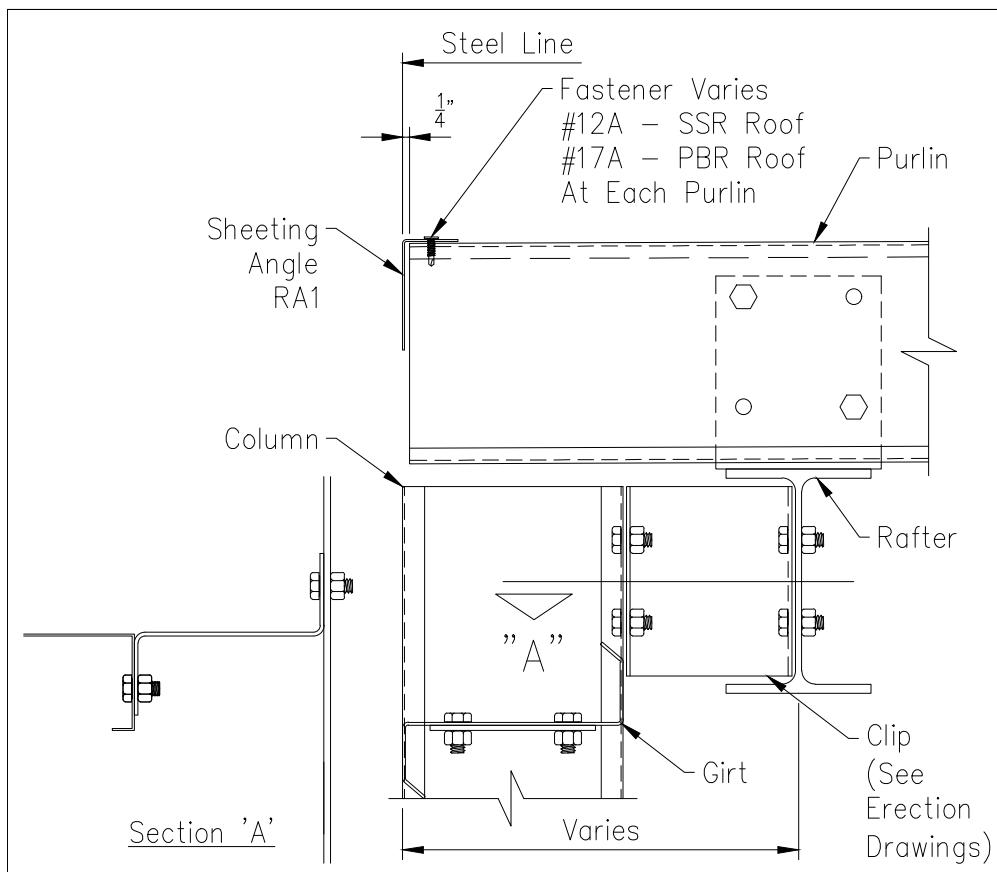
Sheeting Clip	
Member	Piece Mark
8"	SC5
10"	SC54
12"	SC55

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

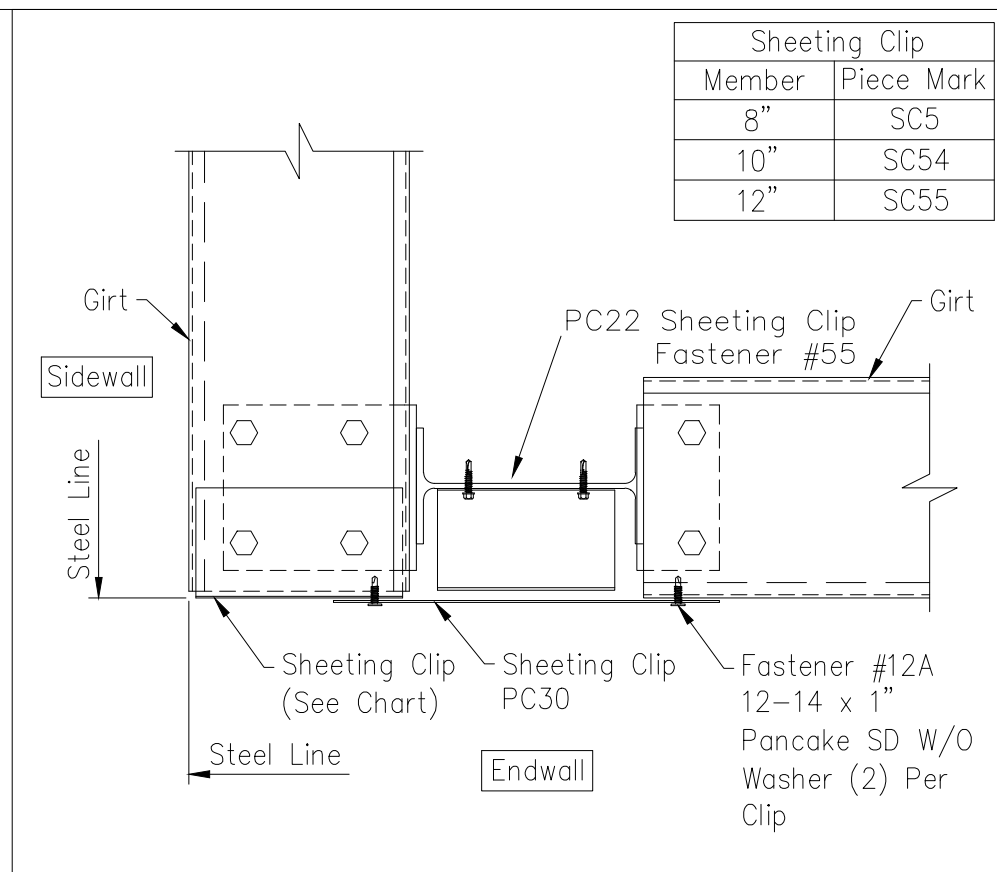
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

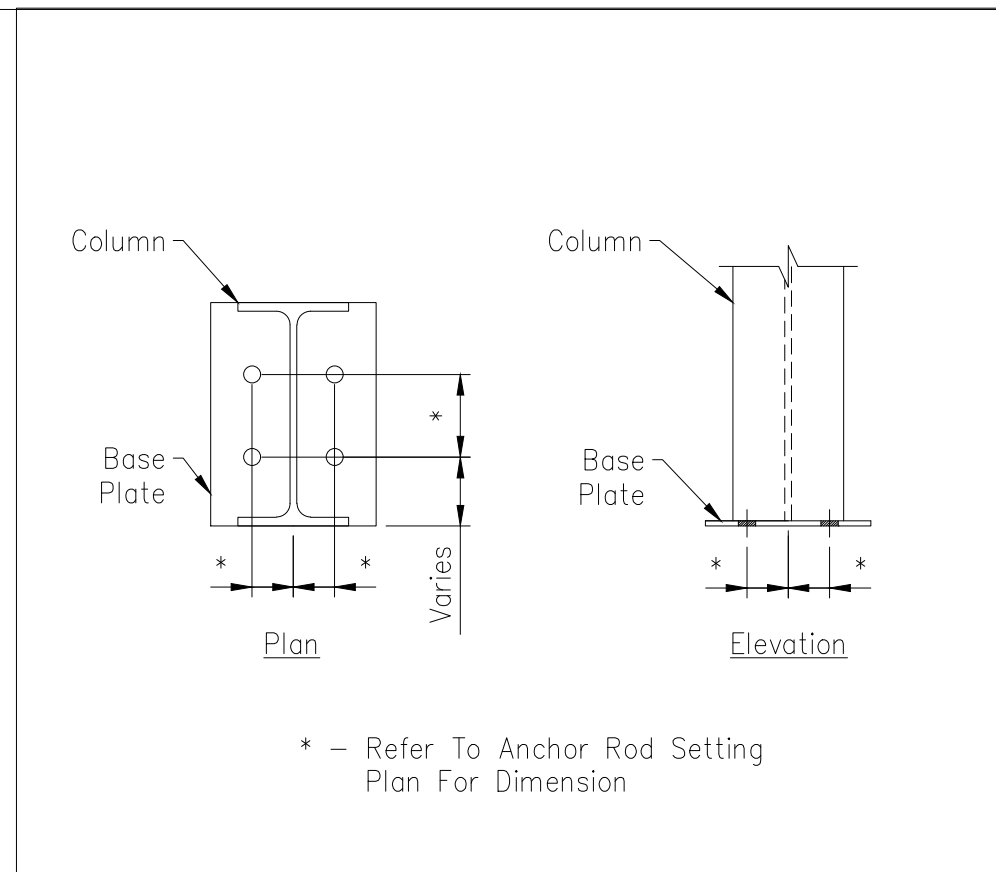
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET2	A



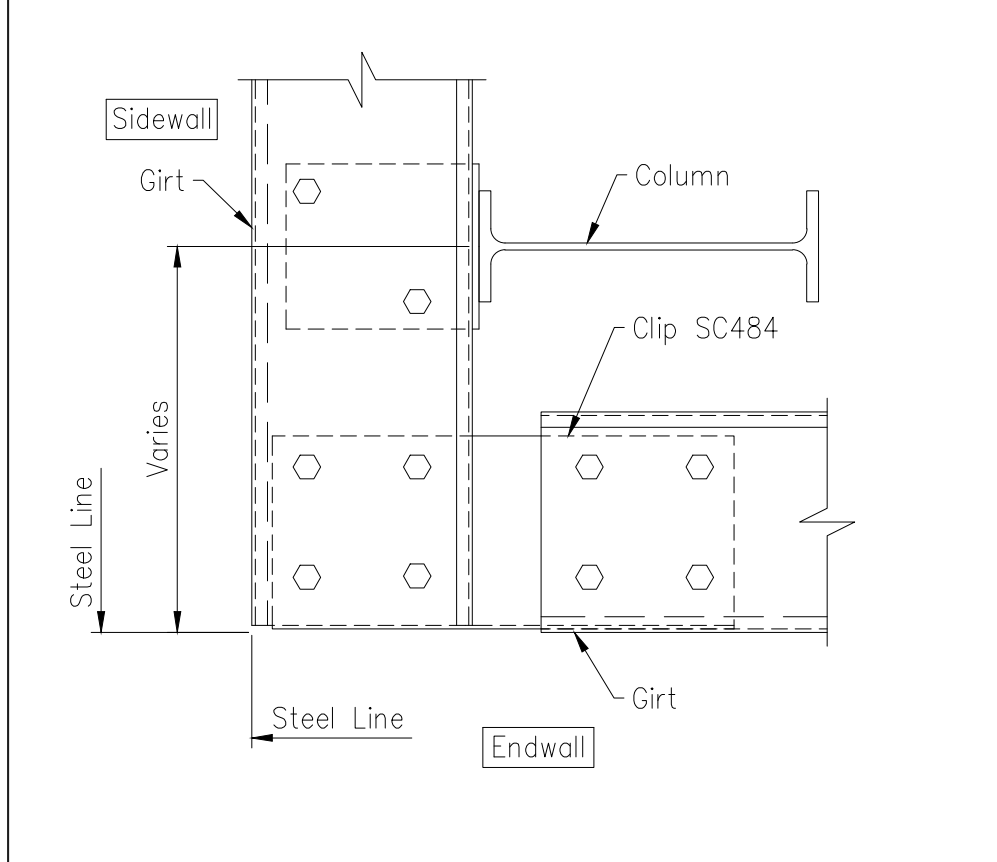
B32	Endwall Column To Rigid Frame Rafter	Date Nov '19
Page MB-B32		Rev 01



D17	Girt To Cold Form Rotated Corner Column	Date Jun '17
Page MB-D17		Rev 00



E3	Endwall Column Base Plate	Date Dec '18
Page MB-E3		Rev 01



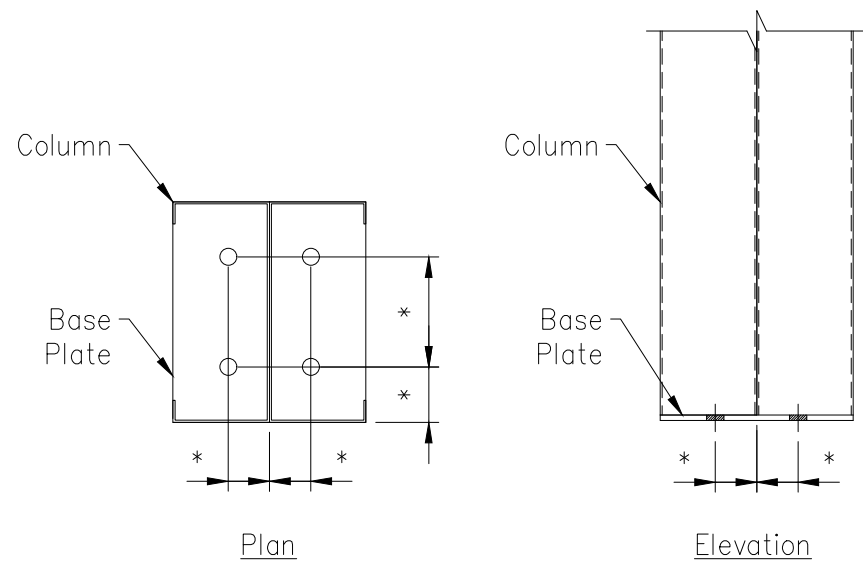
D16	Girt To Rigid Frame Endwall Column	Date Jun '17
Page MB-D16		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

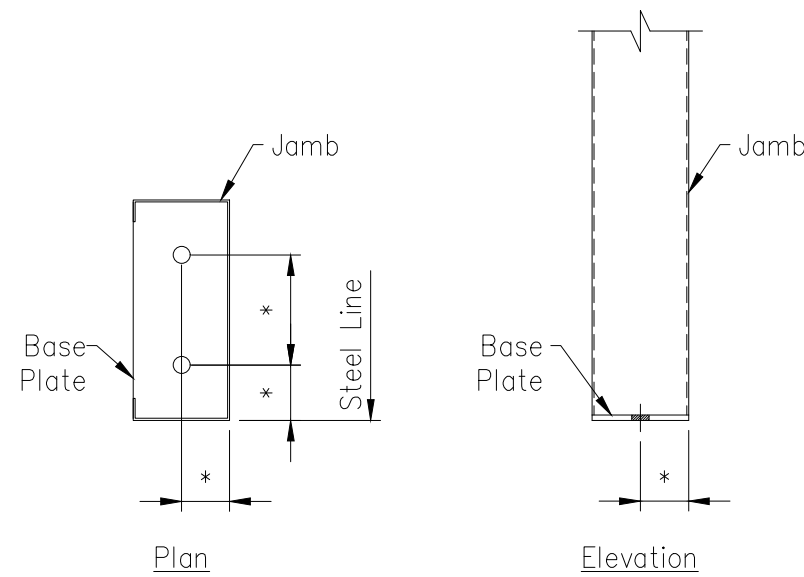
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

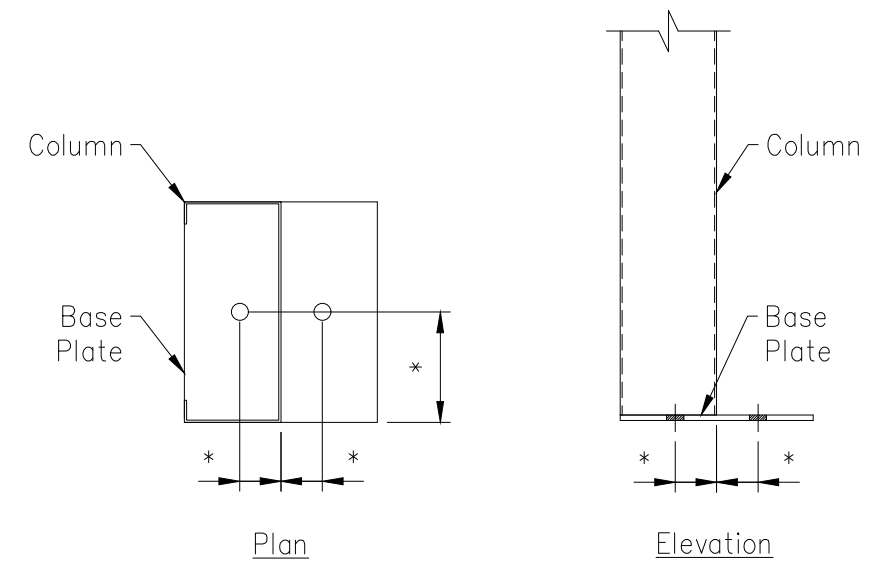
CAD	DATE 4/26/22	SCALE N.T.S.	PHASE 1	BUILDING ID A	JOB NUMBER 18-B-52164	SHEET NUMBER DET3	ISSUE A
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* - Refer To Anchor Rod Setting Plan For Dimension



* - Refer To Anchor Rod Setting Plan For Dimension

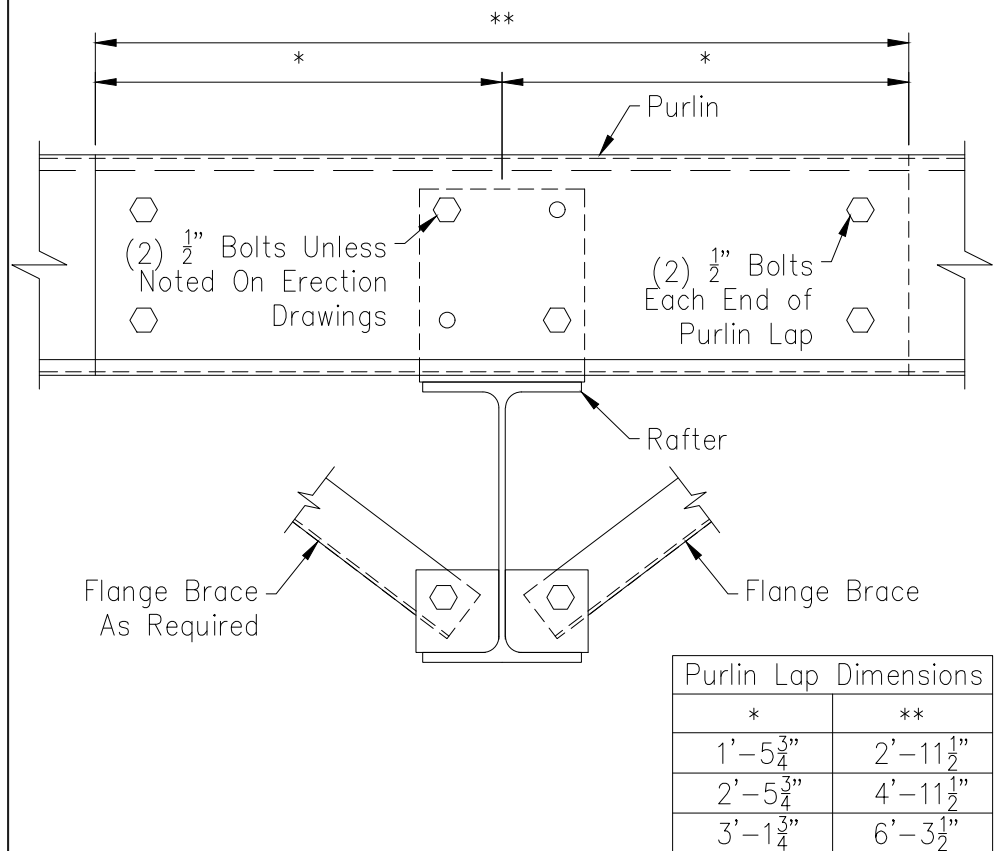


* - Refer To Anchor Rod Setting Plan For Dimension

E4	Double Cee Cold Form Endwall Column Or Door Jamb Base Plate	Date Dec '18
Page MB-E4		Rev 01

E5	Door Jamb Base Plate	Date Dec '18
Page MB-E5		Rev 01

E8	Cold Form Endwall Column Base Plate	Date Dec '18
Page MB-E8		Rev 01

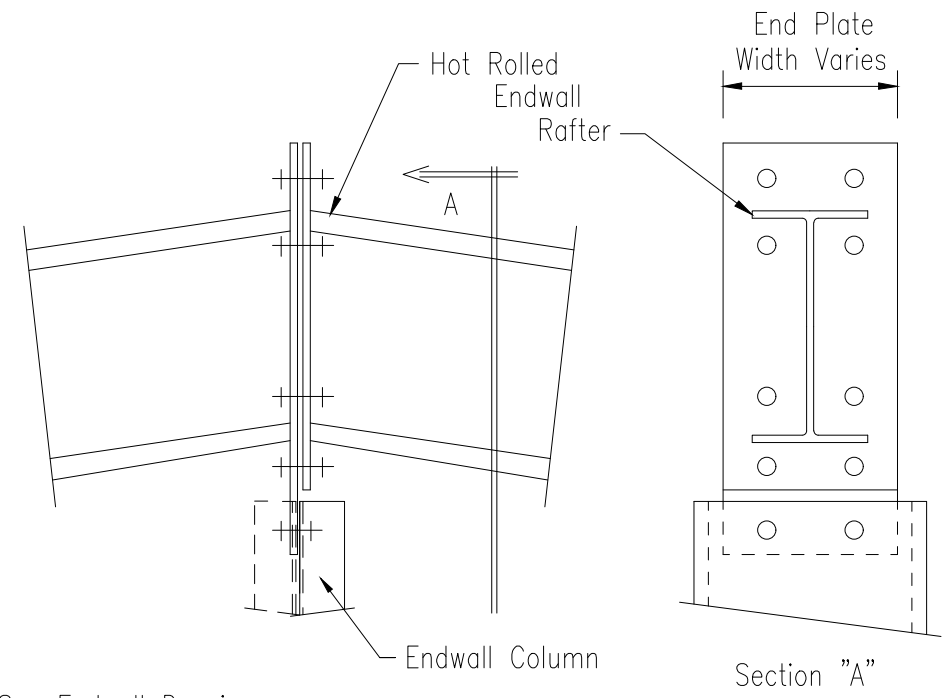


G2	Purlin To Rigid Frame	Date Sep '19
Page MB-G2		Rev 01

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN	
CUSTOMER: KEN KAPPERMAN			
LOCATION: SUN VALLEY, NV 89433-7859 US			
CAD	DATE 4/26/22	SCALE N.T.S.	PHASE 1
BUILDING ID A	JOB NUMBER 18-B-52164	SHEET NUMBER DET4	ISSUE A

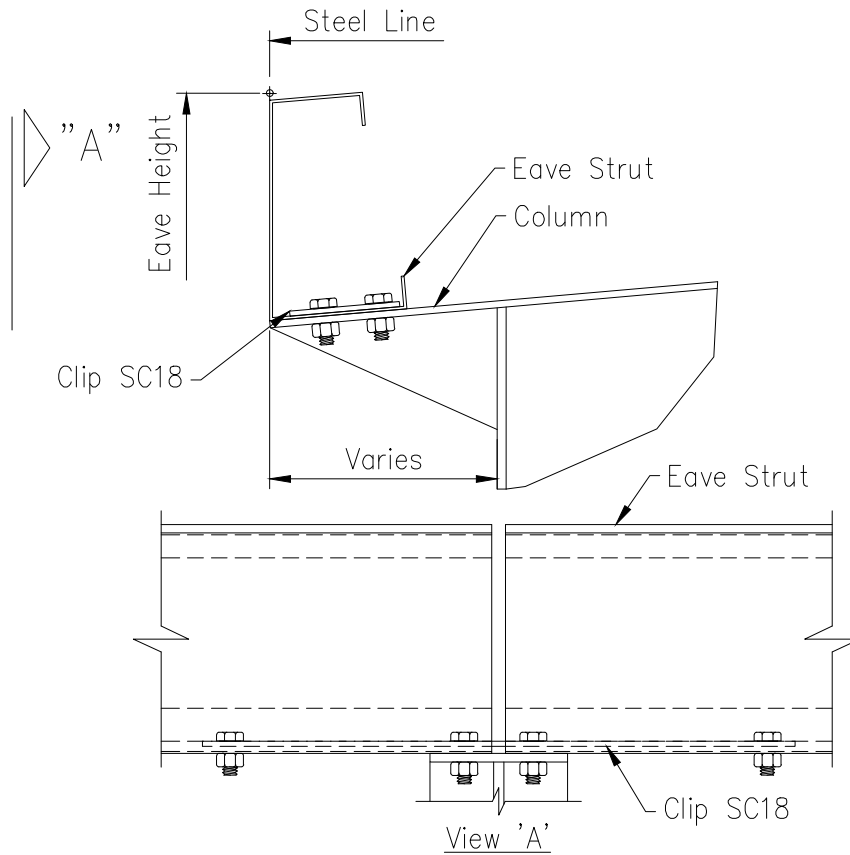


See Endwall Drawing For Bolt Dia. And Type.

F20

RAFTER SPLICE AT SURFACE CHANGE

Page MB-F20



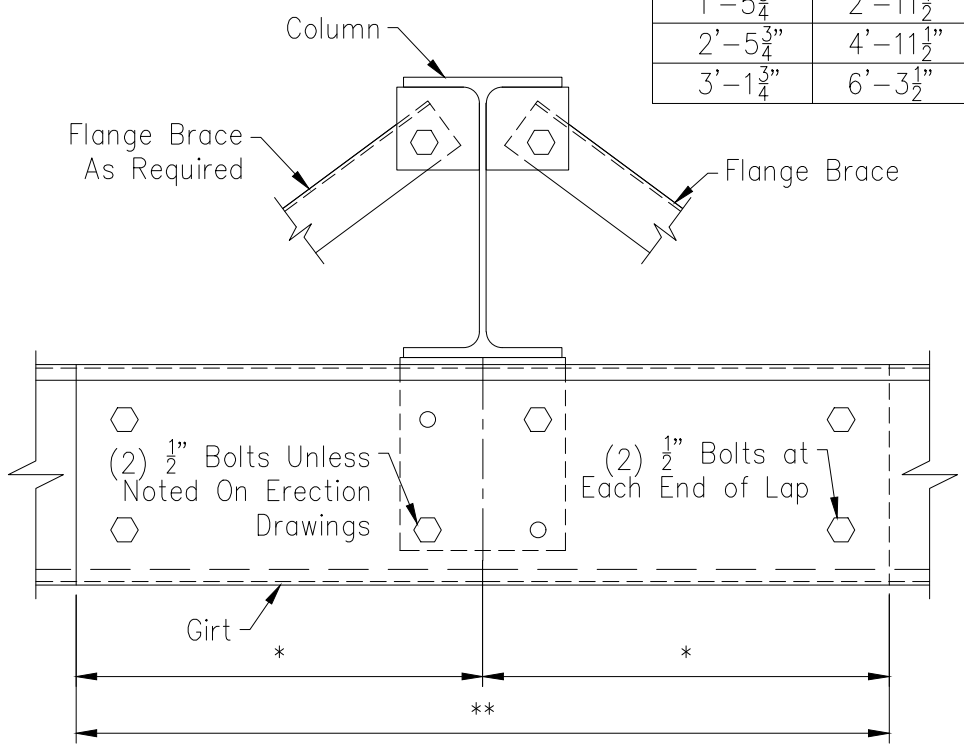
J4

Eave Strut To By-Pass Rigid Frame At Interior

Date Jun '17
Rev 00

Page MB-J4

Girt Lap Dimensions	
*	**
1'-5 ³ / ₄ "	2'-11 ¹ / ₂ "
2'-5 ³ / ₄ "	4'-11 ¹ / ₂ "
3'-1 ³ / ₄ "	6'-3 ¹ / ₂ "



H2

Girt To Rigid Frame

Page MB-H2

Date Sep '19
Rev 01

18

Low Side Eave Strut To Bearing Frame - Hot Rolled

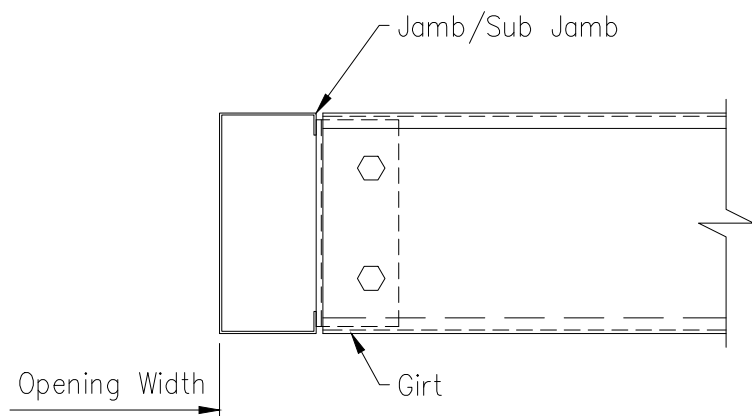
Page MB-18

Date Jun '17
Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET5	A

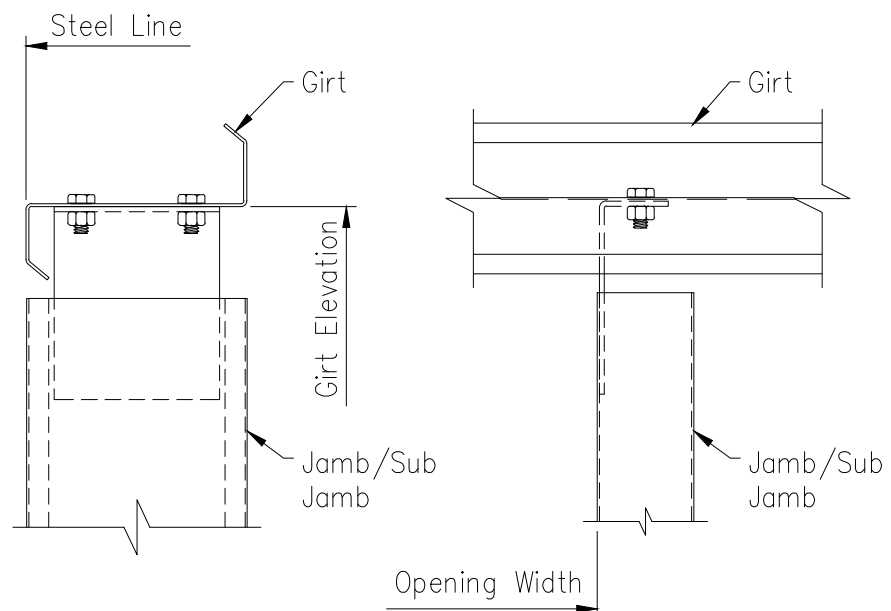


K3

Girt To Single Cold Form
Jamb/Sub Jamb

Date
Dec '17
Rev
00

Page
MB-K3

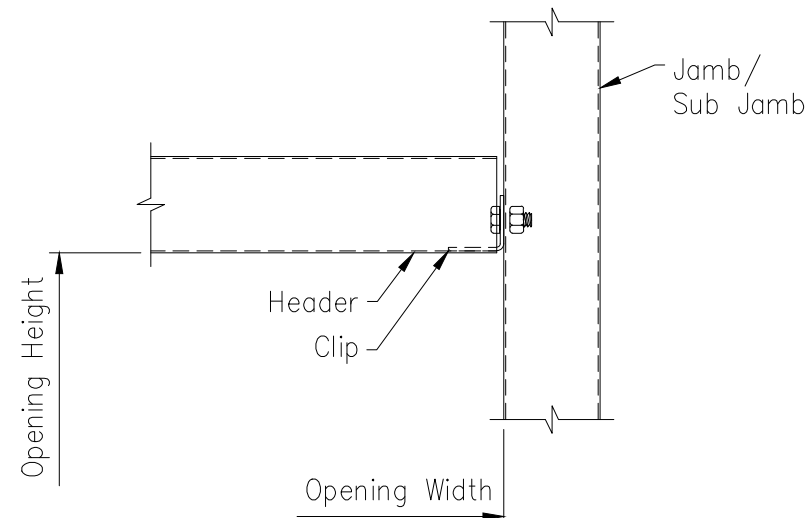


L8

Single Cold Form Jamb/
Sub Jamb To Girt

Date
Jun '17
Rev
00

Page
MB-L8

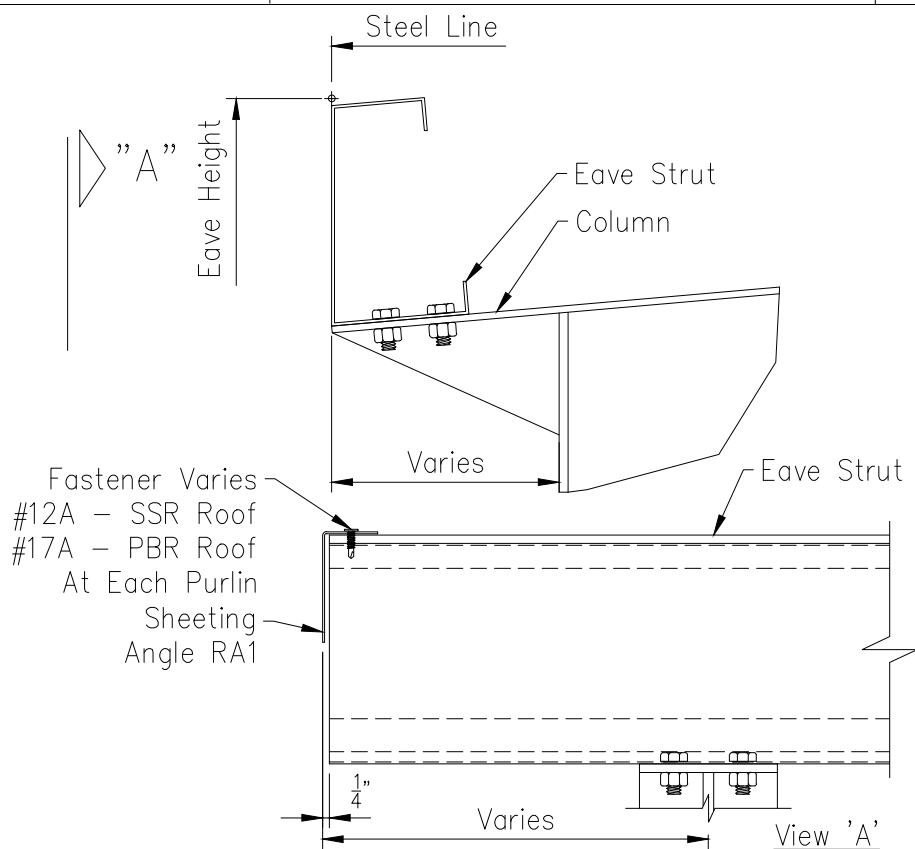


M3

Header To Cold Form
Jamb/Sub Jamb

Date
Dec '17
Rev
00

Page
MB-M3



J24

Eave Strut To By-Pass Rigid
Frame At Endwall

Date
Jun '17
Rev
00

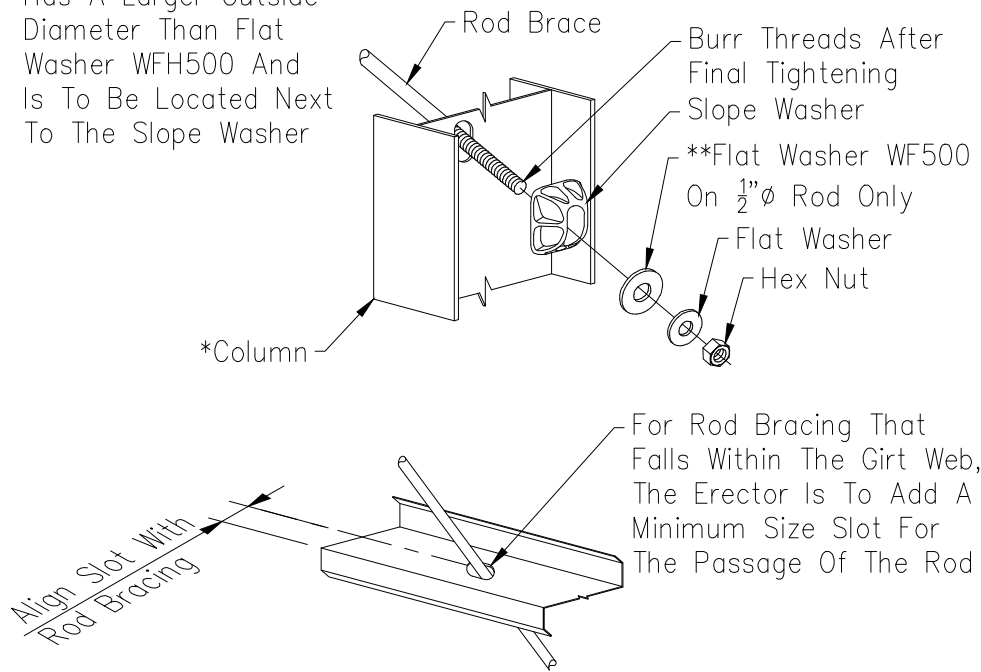
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MB-J24

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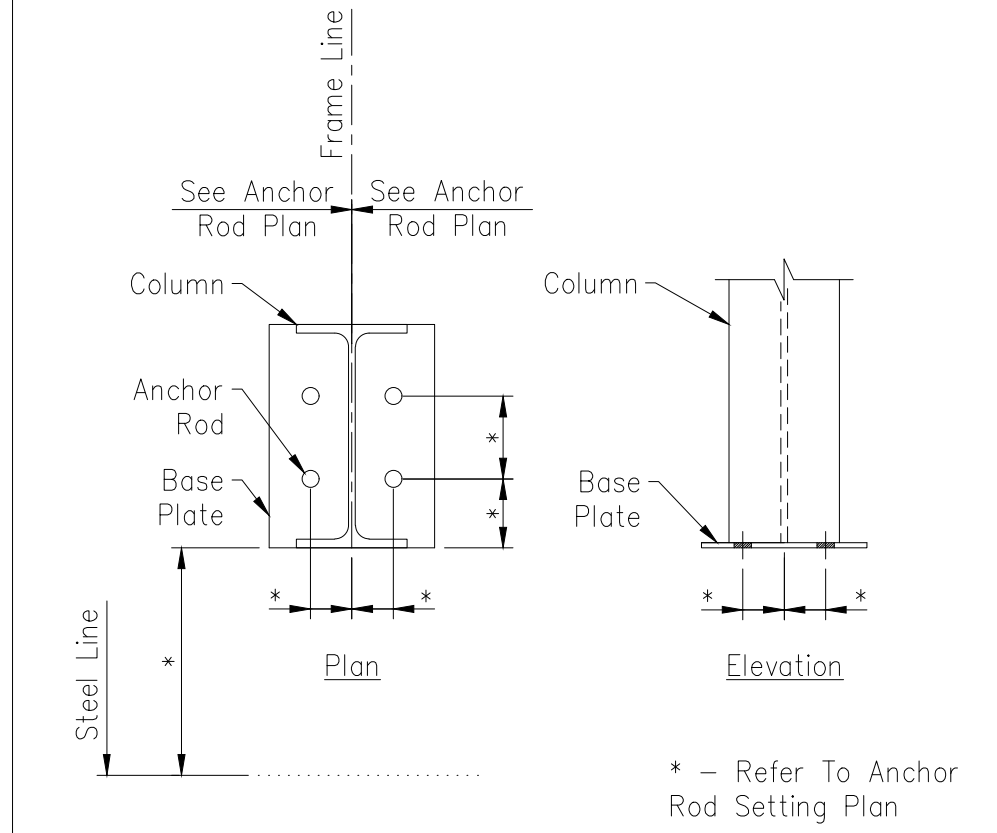
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET6	A

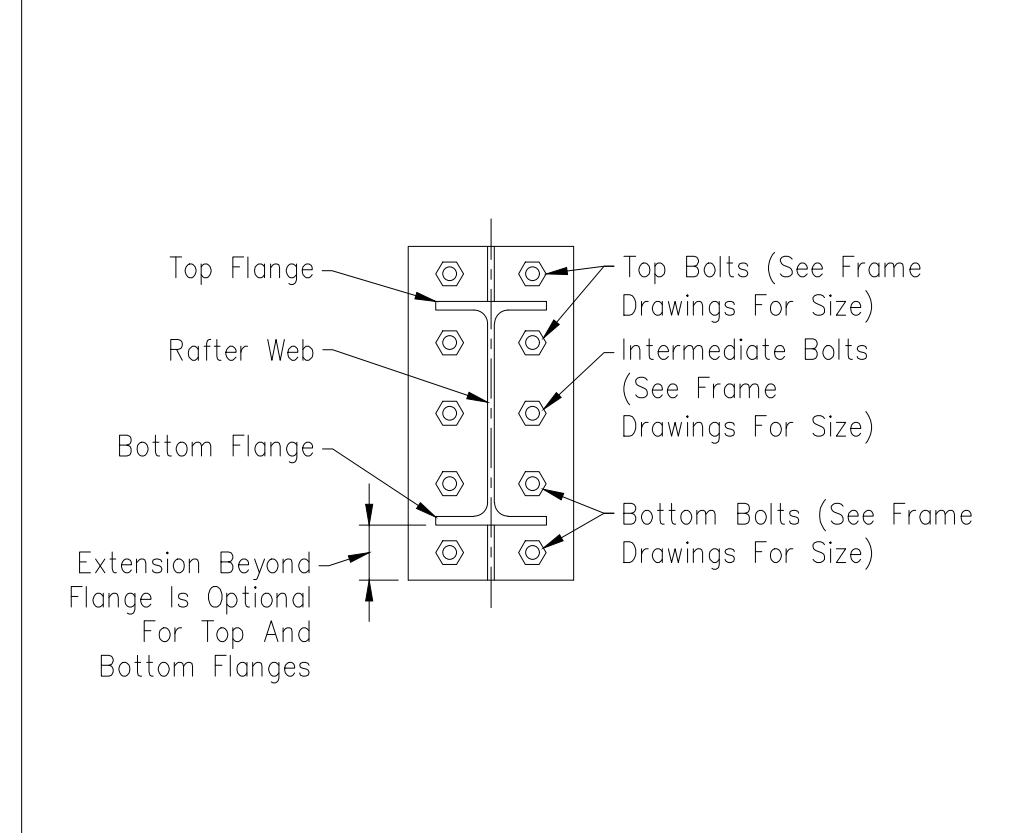
* Similar Connection at Rafter
 ** Flat Washer WF500 Has A Larger Outside Diameter Than Flat Washer WFH500 And Is To Be Located Next To The Slope Washer



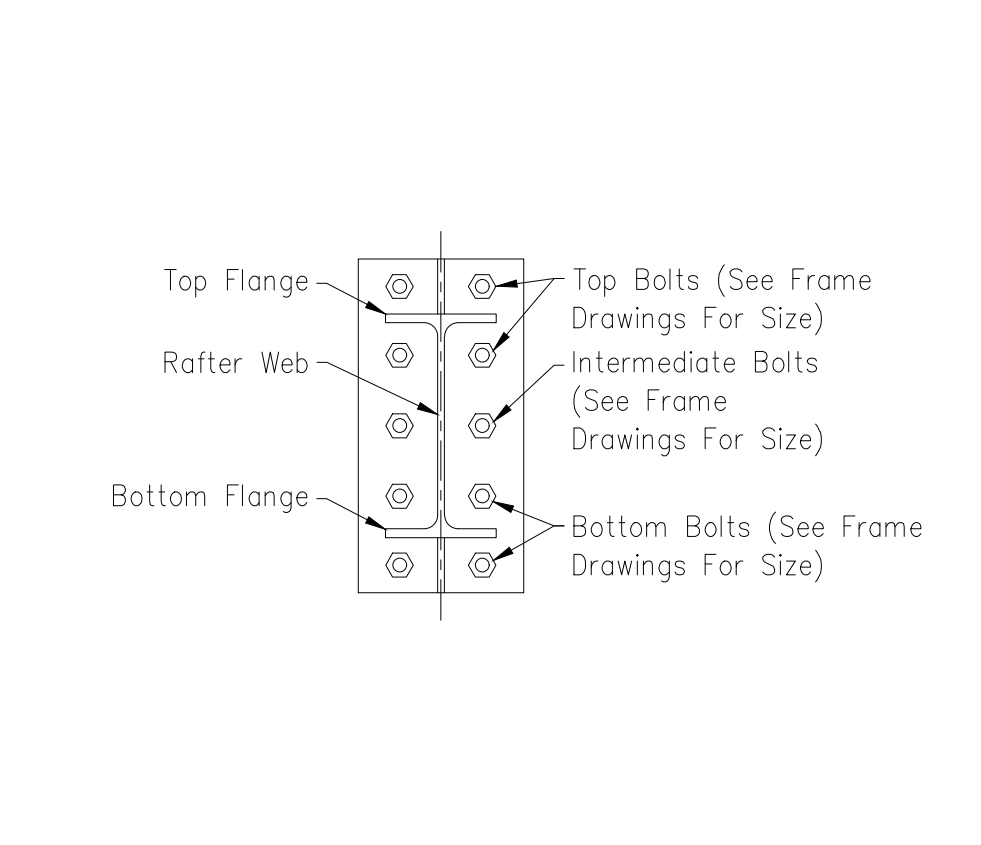
Q3 Rod Brace Attachment At Web
 Date: Mar '18
 Rev: 01
 Page: MB-Q3



R2 Anchor Rods At Frame Column
 Date: Dec '17
 Rev: 00
 Page: MB-R2

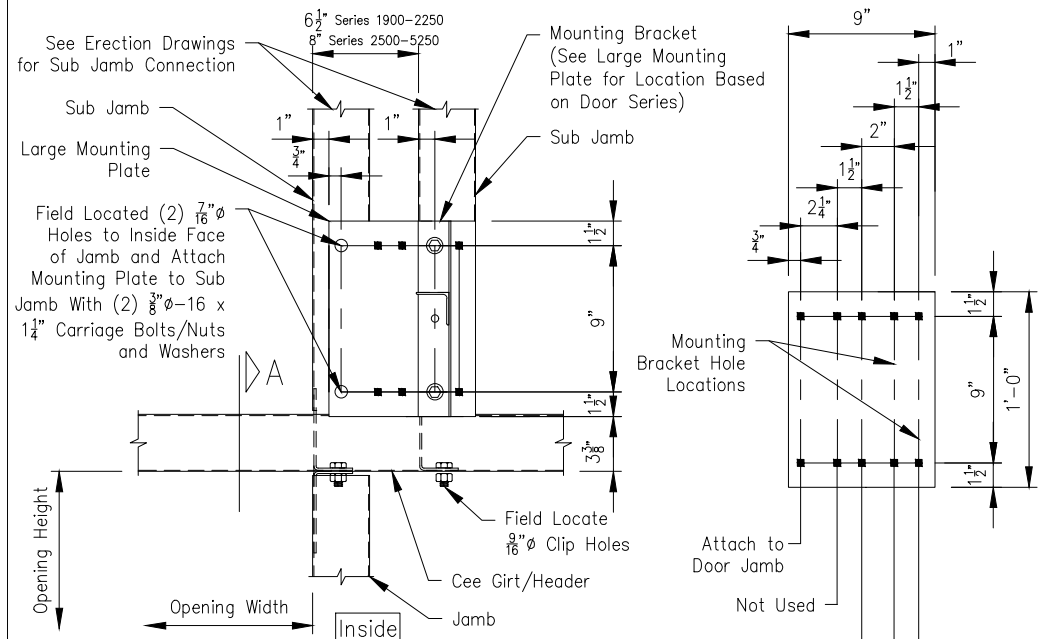


U2 Bolts At Rigid Frame Ridge Rafter Connection
 Date: Jun '17
 Rev: 00
 Page: MB-U2

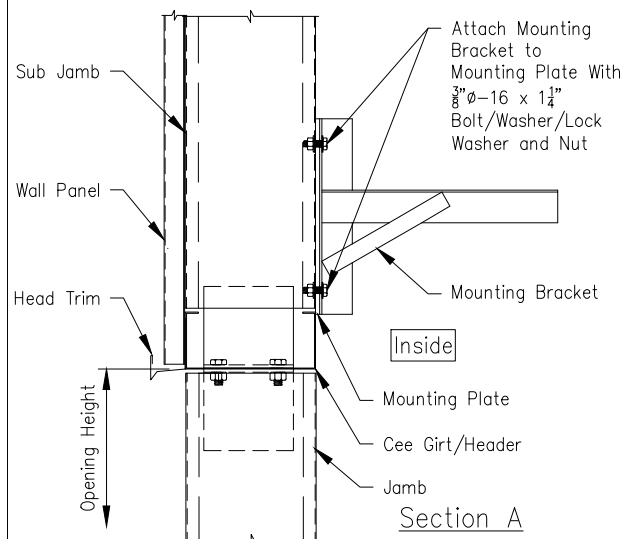


U3 Bolts At Rigid Frame Rafter To Column Connection
 Date: Jun '17
 Rev: 00
 Page: MB-U3

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN	EMPIRE STEEL BUILDINGS 5230 CARROLL CANYON RD STE 300 SAN DIEGO, CA 92121-1781 US							
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM	PROJECT: KAPPERMAN, KEN						OWNER: KEN KAPPERMAN	
						CUSTOMER: KEN KAPPERMAN						LOCATION: SUN VALLEY, NV 89433-7859 US	
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
							4/26/22	N.T.S.	1	A	18-B-52164	DET7	A



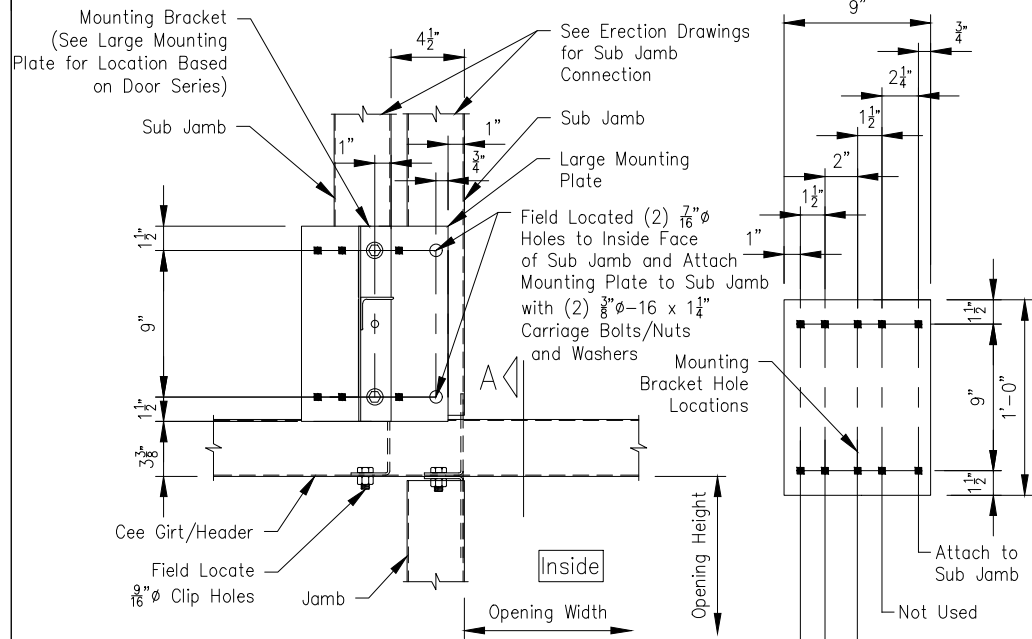
Large Mounting Plate/Bracket Elevation



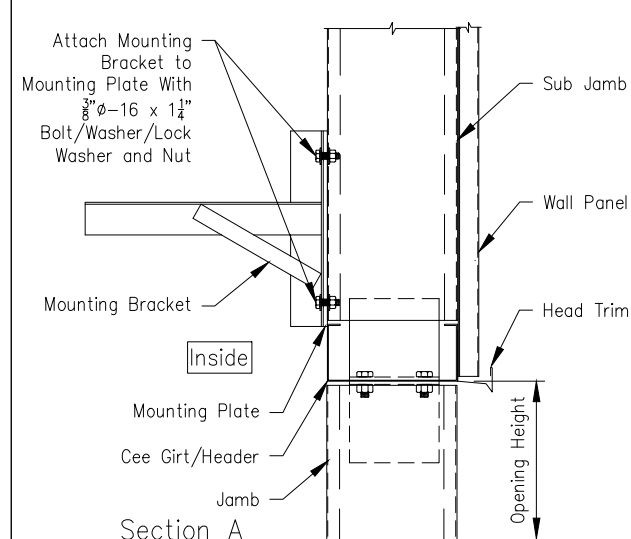
Section A

- Notes:
1. Drawing is to be Used In Conjunction With DBCI Installation Manual.
 2. Mounting Plate, Mounting Bracket and Attachment Bolts, nuts and Washer Provided by DBCI.
 3. Drive Side can be on the Left or Right Sub Jamb.
 4. Drawing Shows the Drive Side of the Door on the Right Sub Jamb Viewed From the Inside.

Drive Side
 Series 1900 - 2250
 Drive Side
 Series 2500 - 5250
 Large Mounting Plate
 (Drive Side)



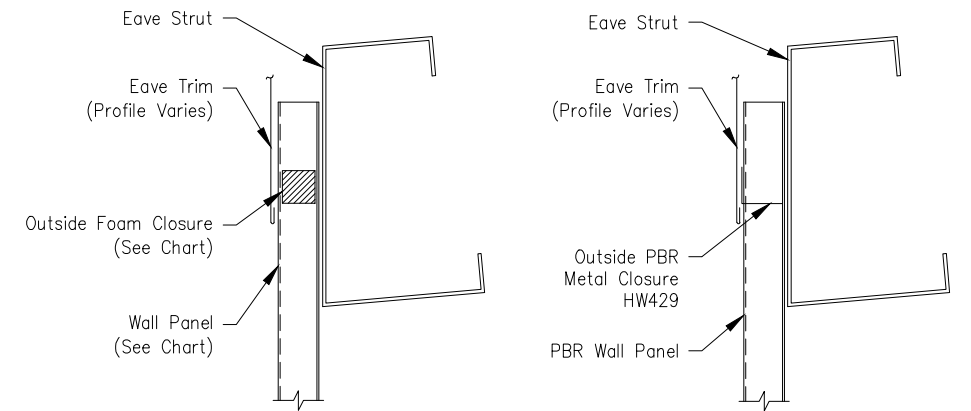
Large Mounting Plate/Bracket Elevation



Section A

- Notes:
1. Drawing is to be Used In Conjunction With DBCI Installation Manual.
 2. Mounting Plate, Mounting Bracket and Attachment Bolts, nuts and Washer Provided by DBCI.
 3. Non Drive Side can be on the Left or Right Sub Jamb.
 4. Drawing Shows the Non Drive Side of the Door on the Left Sub Jamb Viewed From the Inside.

Large Mounting Plate
 (Non Drive Side)



Detail at Foam Closure
 (Low Eave Shown High Eave Similar)

Detail at Optional Metal Closure
 For PBR Panel Only
 (Low Eave Shown High Eave Similar)

Note:
 Foam Closures Are Required When Job Requires Air Infiltration Or Sealed Wall Requirements, See GD16002.

Wall Panel	Foam Closure
PBR	HW456
AVP	HW465
PBU	HW460
VistaShadow	HW465
NuWall	HW424
PBC	HW462
PBD	HW463
ShadowRib	HW412
Designer Series (Fluted Only)	HW4037
RBR (Reverse Rolled PBR)	HW455
RBU (Reverse Rolled PBU)	HW459
7.2	HW461

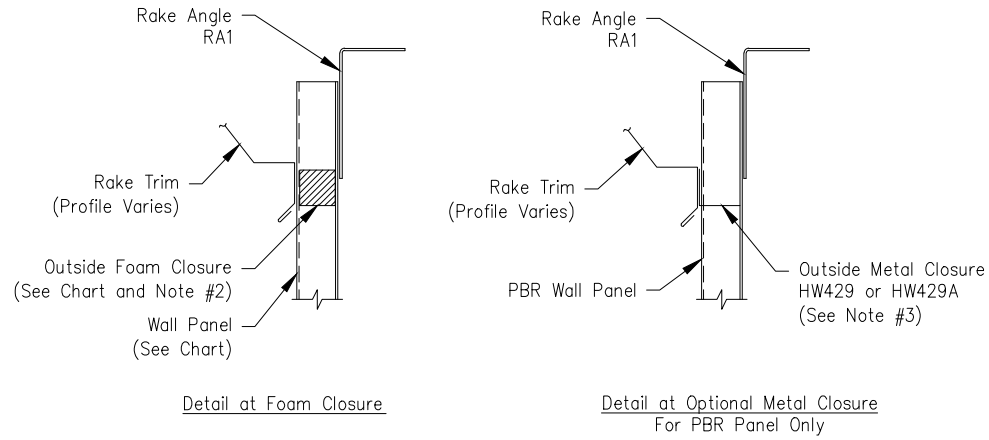
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

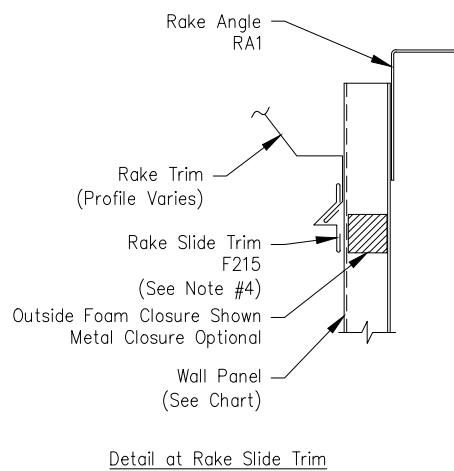
PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET8	A

Single Skin Wall Panel Outside Closure Requirements at Rake

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GD06003
Date
Feb '19
Rev
02



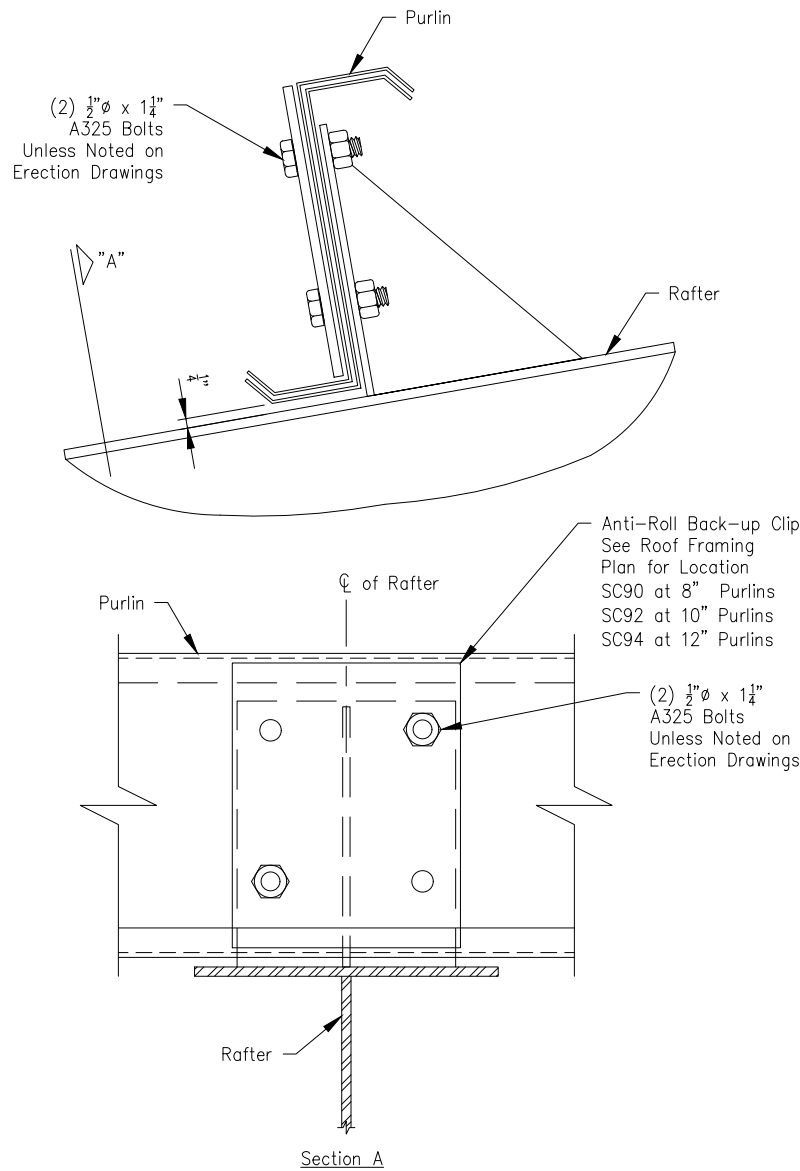
- Notes:
1. Outside Panel Closures are Required at all Sheeted Endwalls.
 2. PBR Wall Panel Outside Foam Closures HW456 Required for Roof Slope 4:12 or Less and HW422 for Roof Slope Greater Than 4:12. Field Form/Notch HW422 to Panel Profile.
 3. PBR Wall Panel Outside Metal Closure HW429 for Roof Slope 0 :12 Thru 1 1/2 :12 and HW429A for Roof Slope Greater Than 3 1/2 :12 Thru 4 1/2 :12.
 4. Rake Slide Trim Required for All Standing Seam Roofs and at Screw Down Roof Runs Greater Than 100'-0"
 5. Foam Closures are Required when Job Requires Air Infiltration or Sealed Wall Requirements, See GD16002.



Wall Panel	Foam Closure
PBR	HW456/HW422
AVP	HW465
PBU	HW460
VistaShadow	HW465
NuWall	HW424
PBC	HW462
PBD	HW463
ShadowRib	HW412
Designer Series (Fluted Only)	HW4037
RBR (Reverse Rolled PBR)	HW455
RBU (Reverse Rolled PBU)	HW459
7.2	HW461

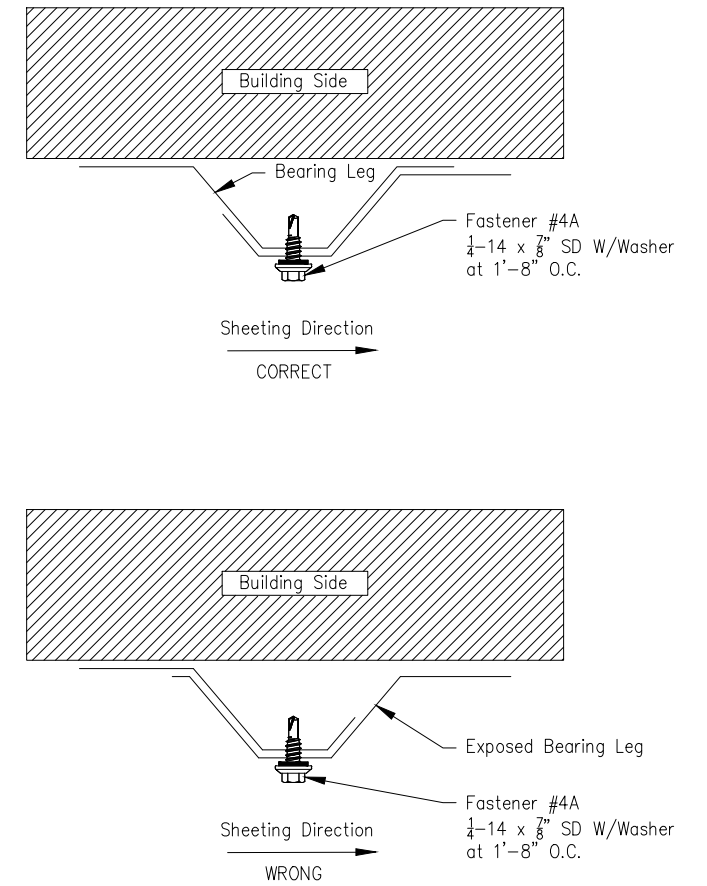
Purlin with Anti-Roll Back-up Clip at Rafter

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CF02035
Date
Dec '14
Rev
04



PBR Wall Panel Panel Side Lap

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PW05002
Date
Mar '19
Rev
03



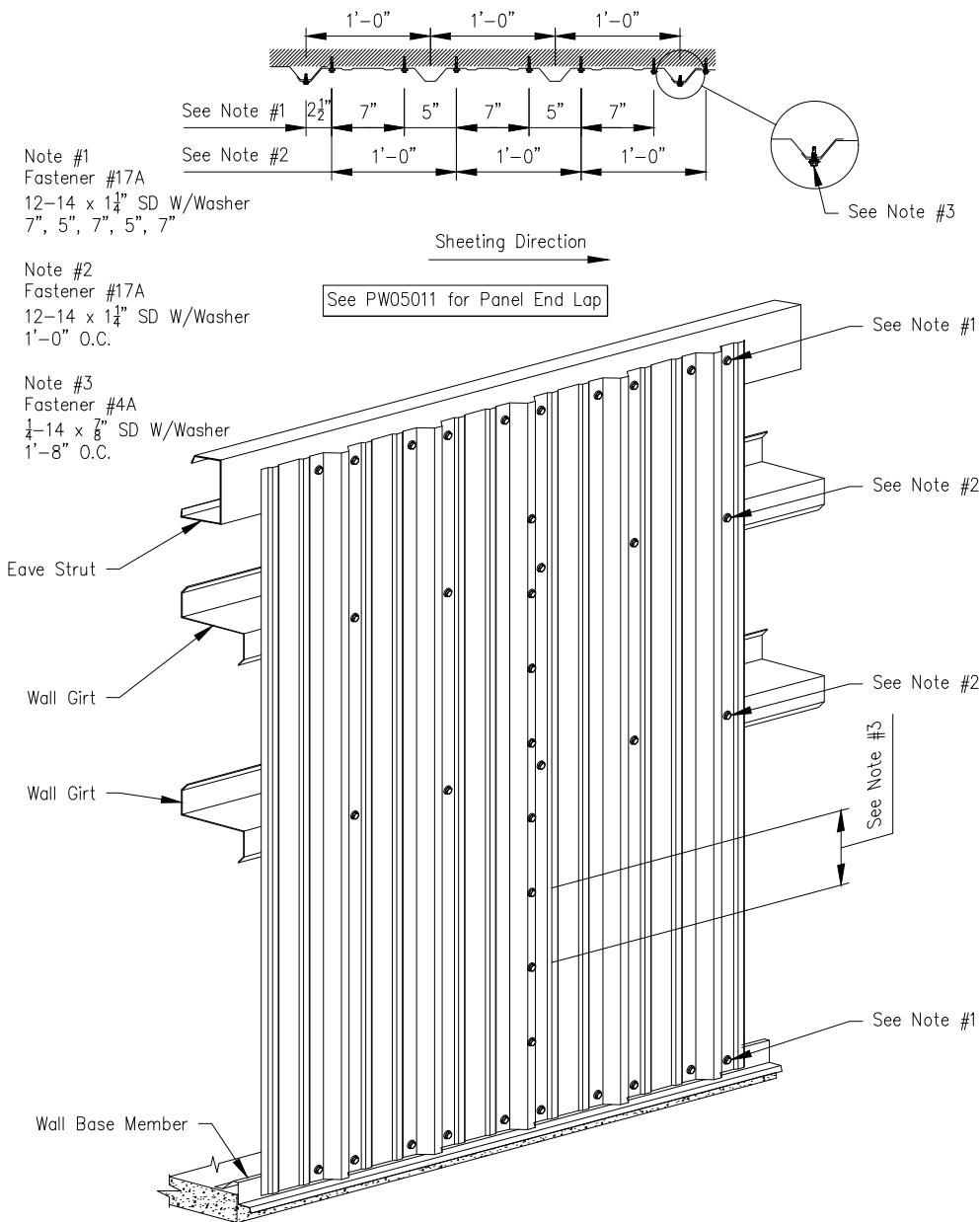
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET9	A

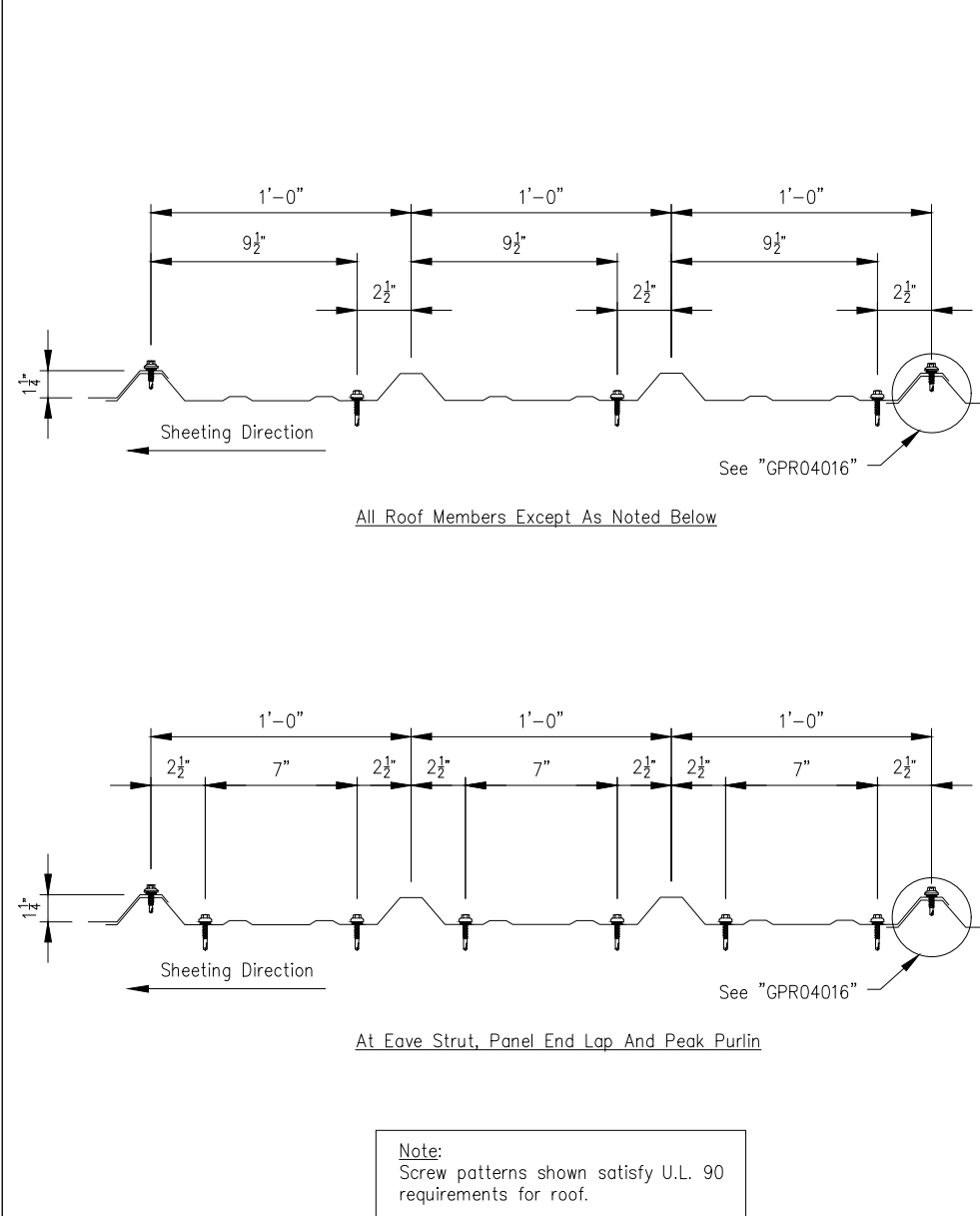
**PBR Wall Panel
Fastener Location**

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PW05003
Date Aug '15 Rev 04



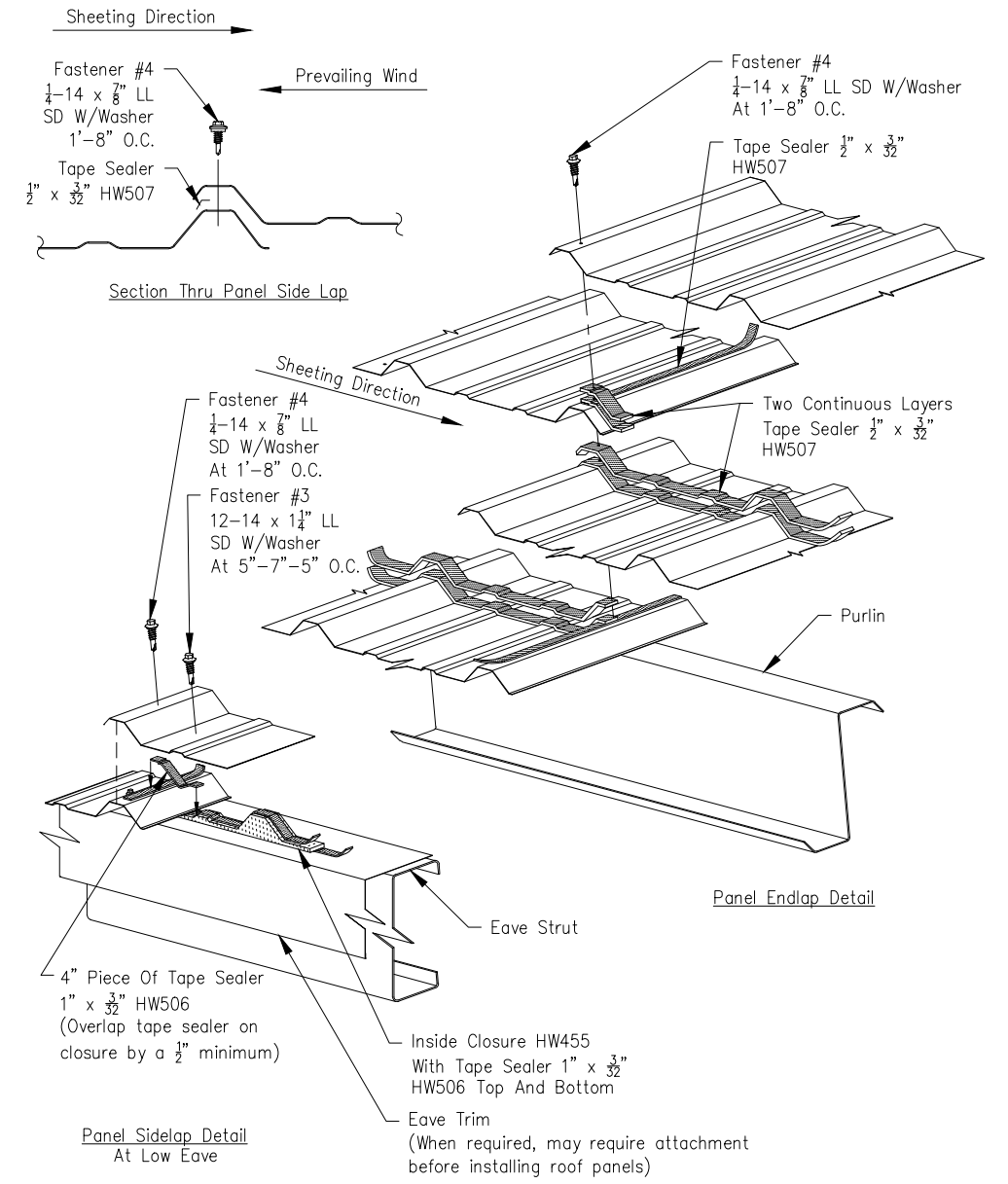
**PBR Roof Panel
Fastener And Tape Sealant Location**

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GPR00011
Date Apr '19 Rev 01



**PBR Roof Panel
Side Lap And End Lap Details**

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GPR04016
Date Apr '19 Rev 04



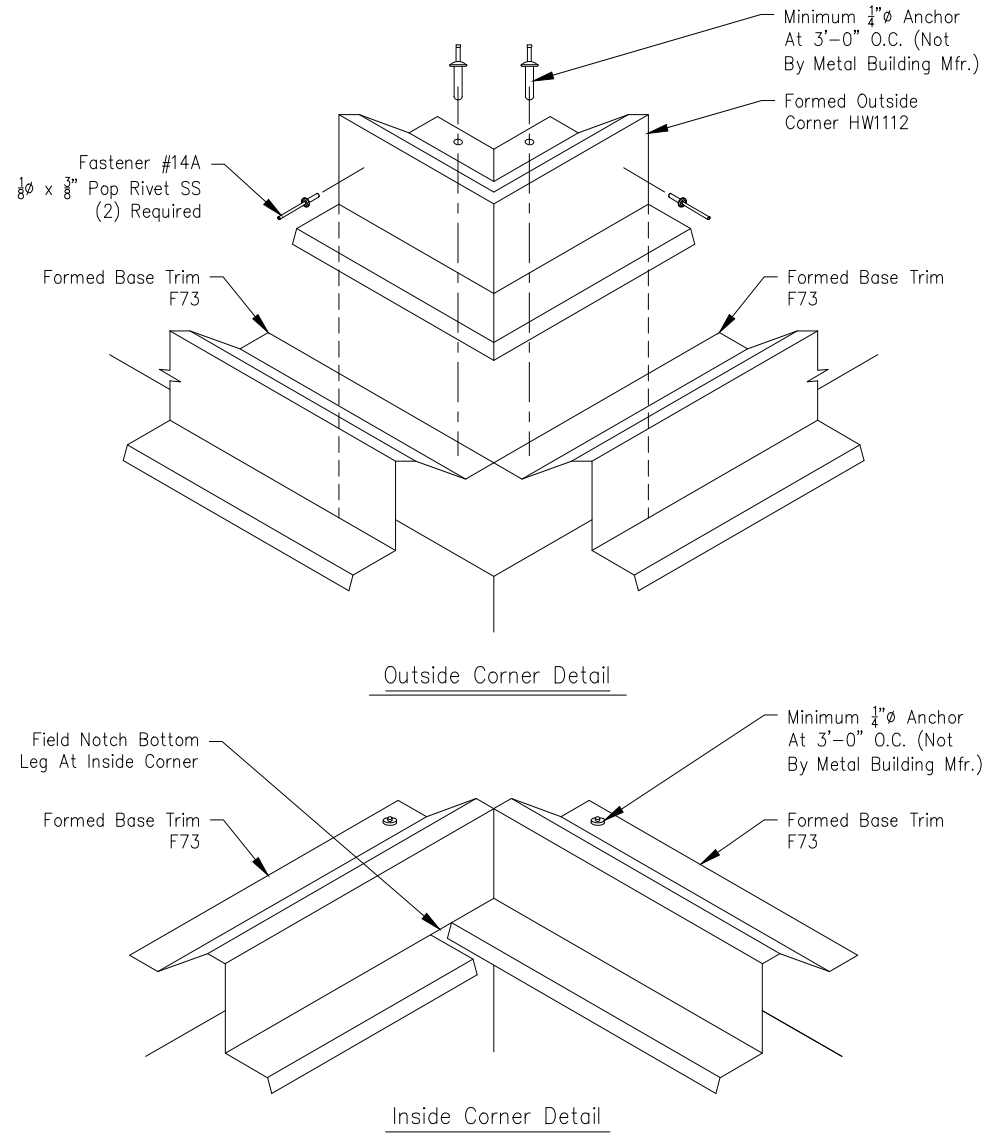
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET10	A

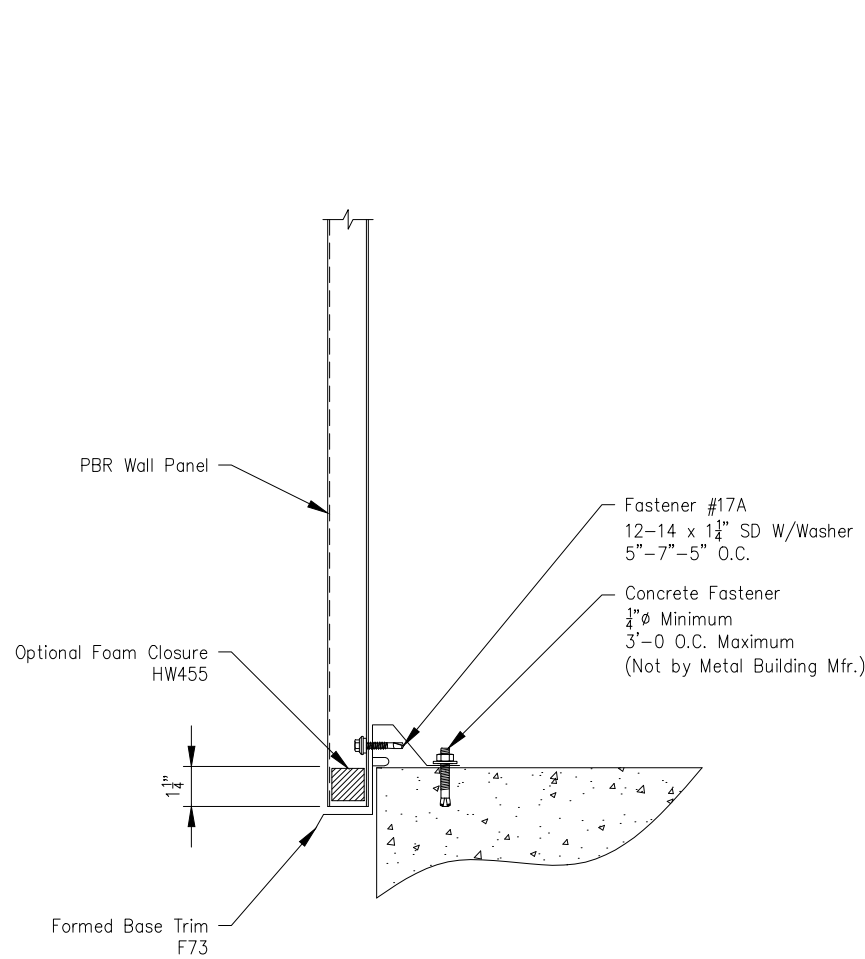
Formed Base Trim Details

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PW02010
Date
Feb '18
Rev
01



PBR Wall Panel
F73 Formed Base Trim Without Panel Recess

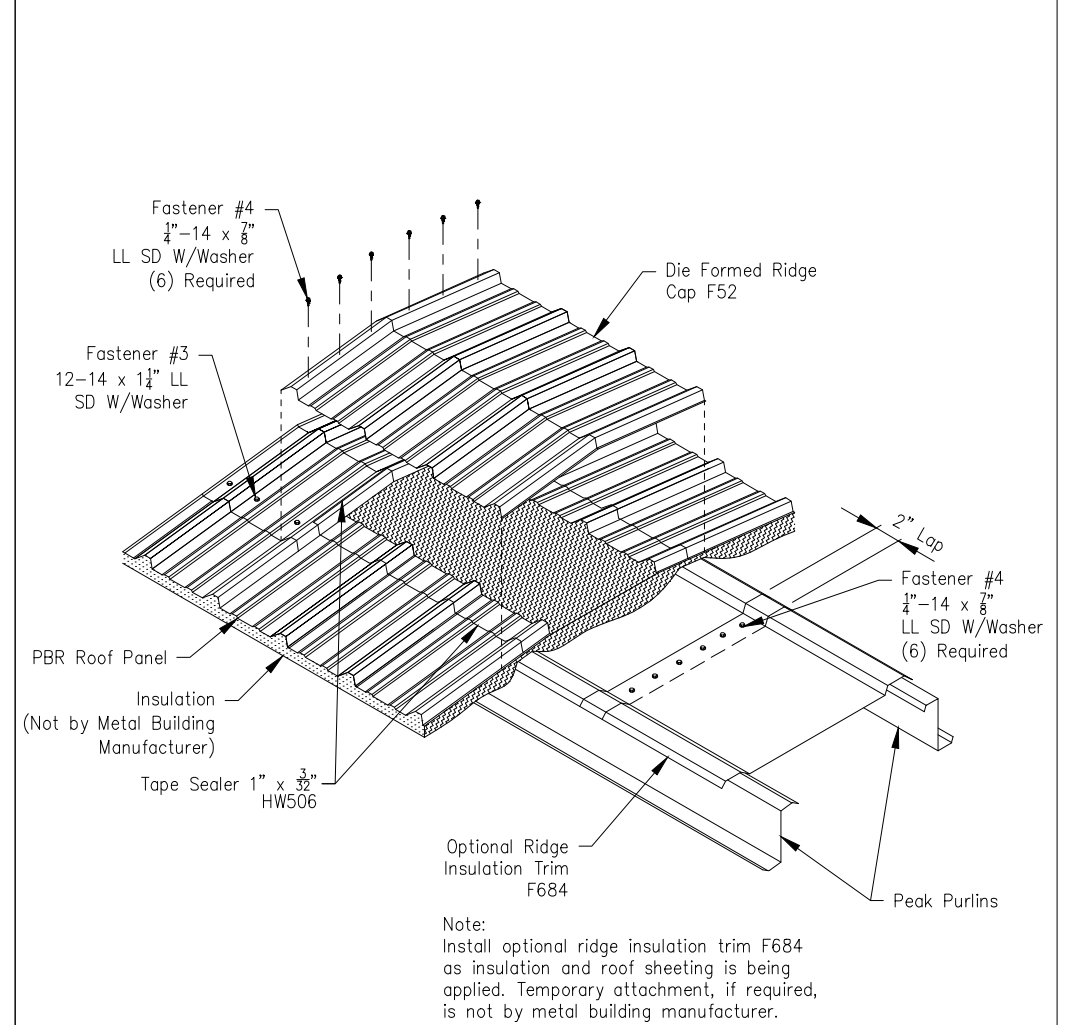
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PW02107
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01



Wall panel must be held off of base trim a minimum of 1/4" to prevent bottom of wall panel from rusting.

PBR Roof Panel
Fixed Ridge Detail

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GPR06003
Date
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Rev
04



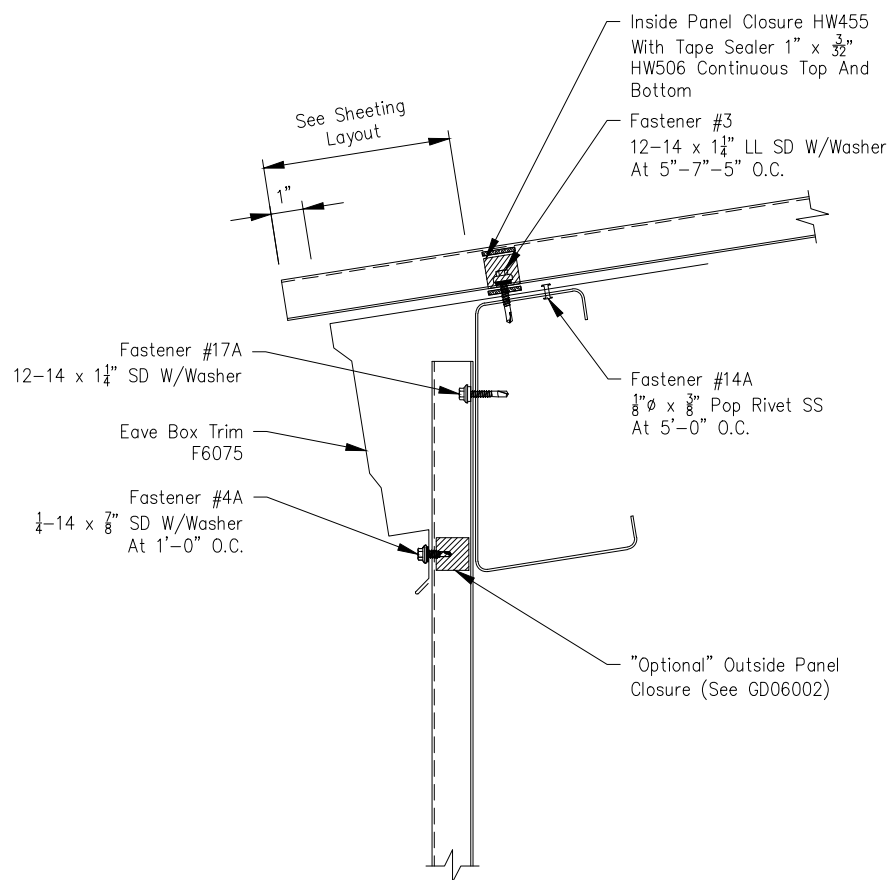
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET11	A

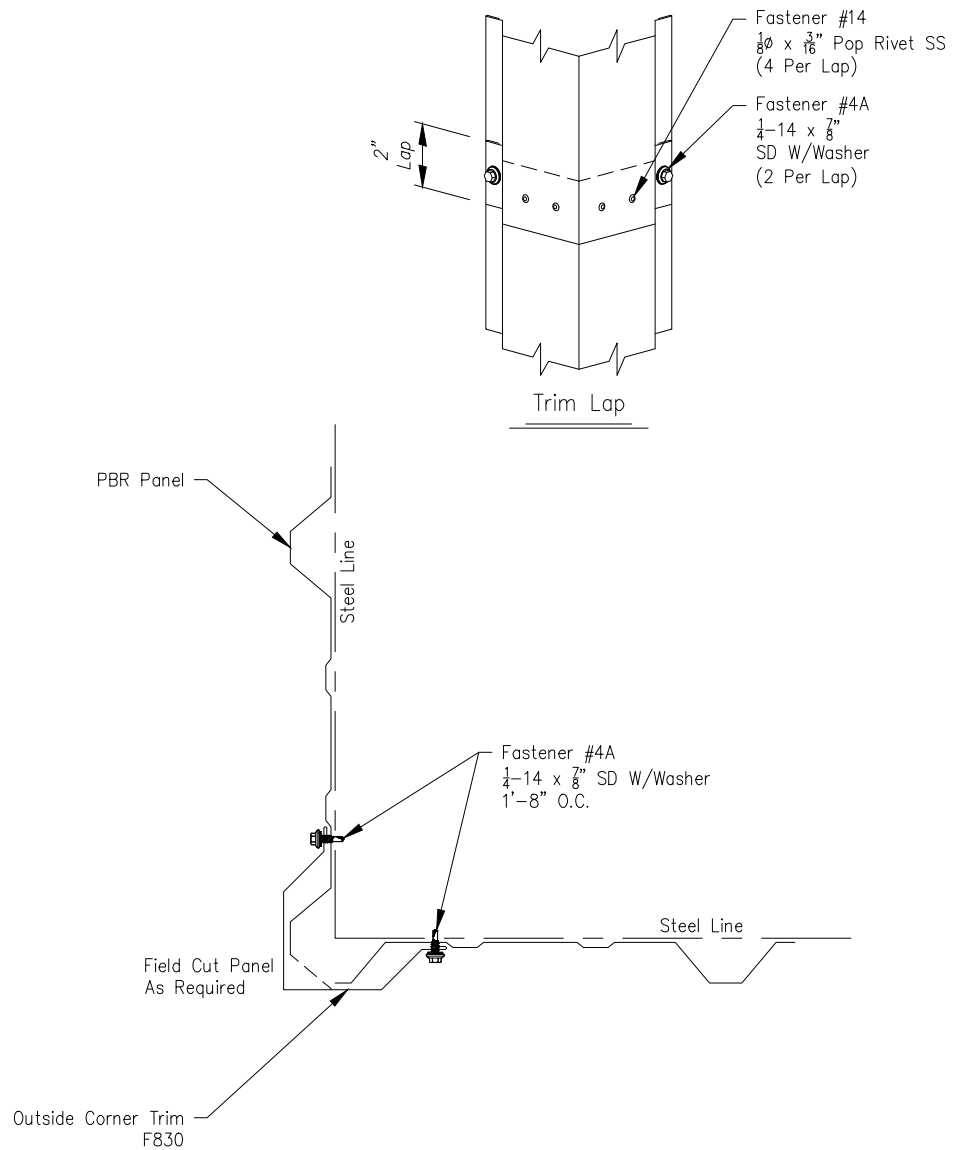
PBR Roof Panel - Edgcraft Eave Box Trim
Sheeted Wall

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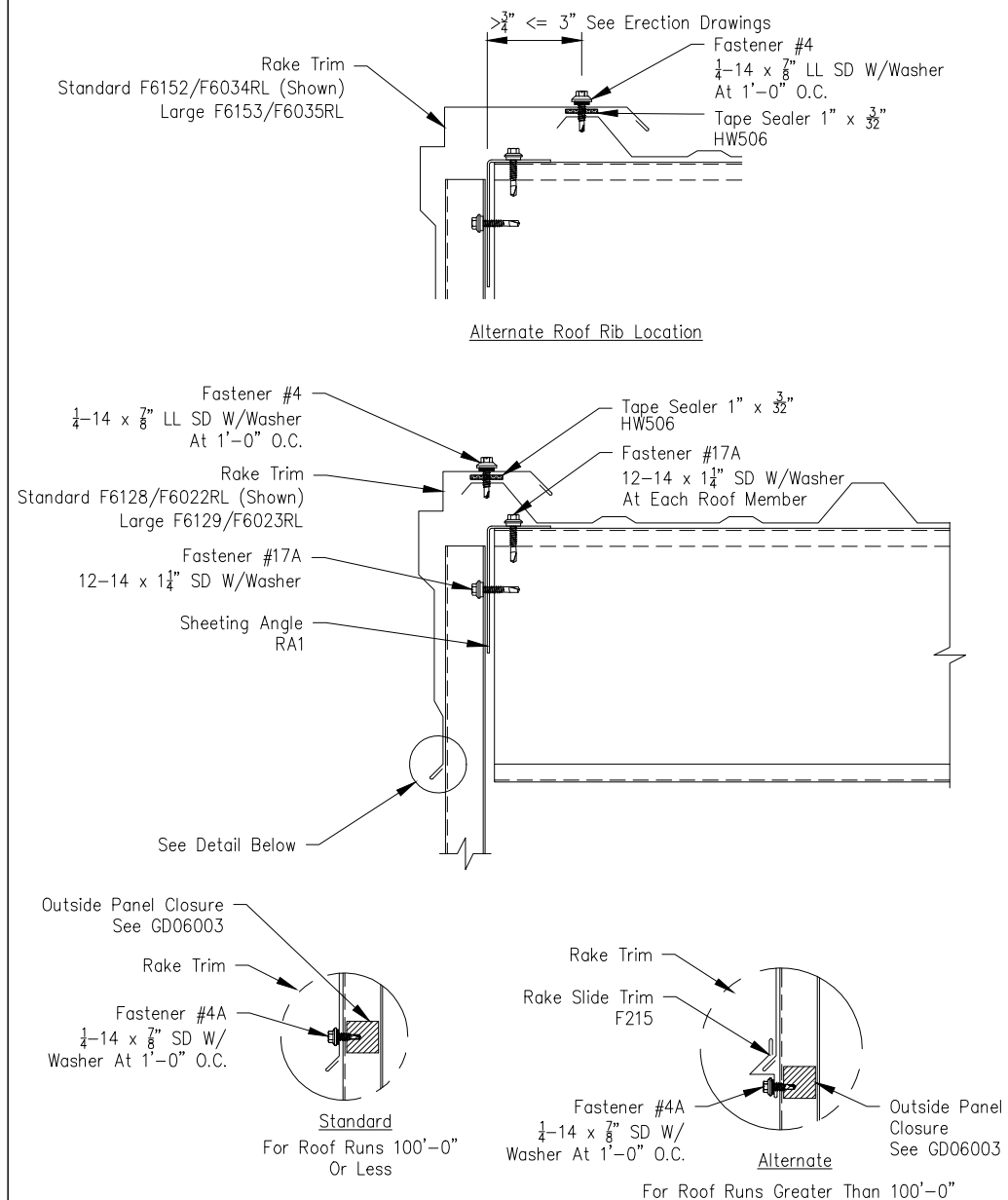
PBR Wall Panel
Outside Corner - On Module

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PBR Roof Panel - Northern Standard And Northern Large
Edgcraft Rake Trim - Sheeted Wall

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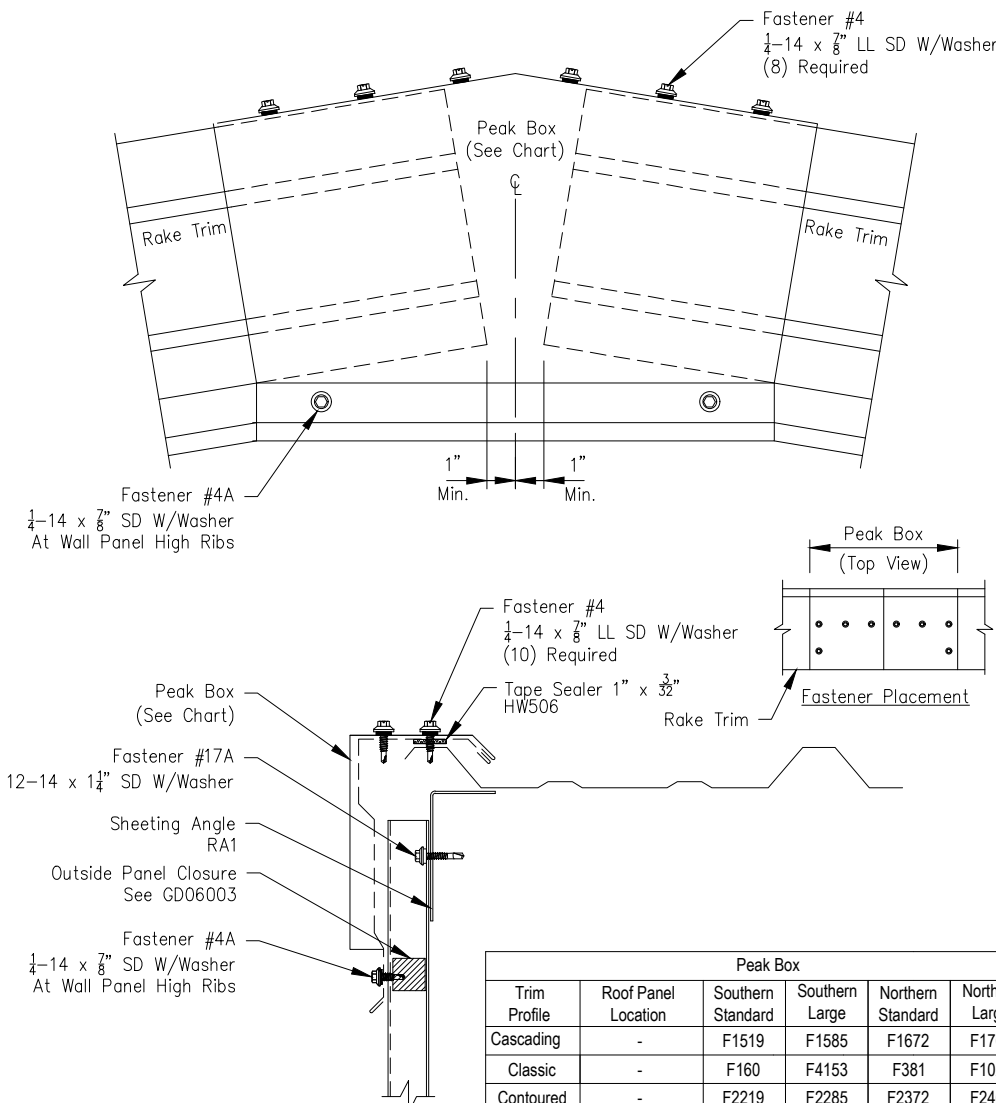
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN		LOCATION: SUN VALLEY, NV 89433-7859 US					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET12	A

**PBR Roof Panel
Peak Box At Fixed Ridge**

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Date
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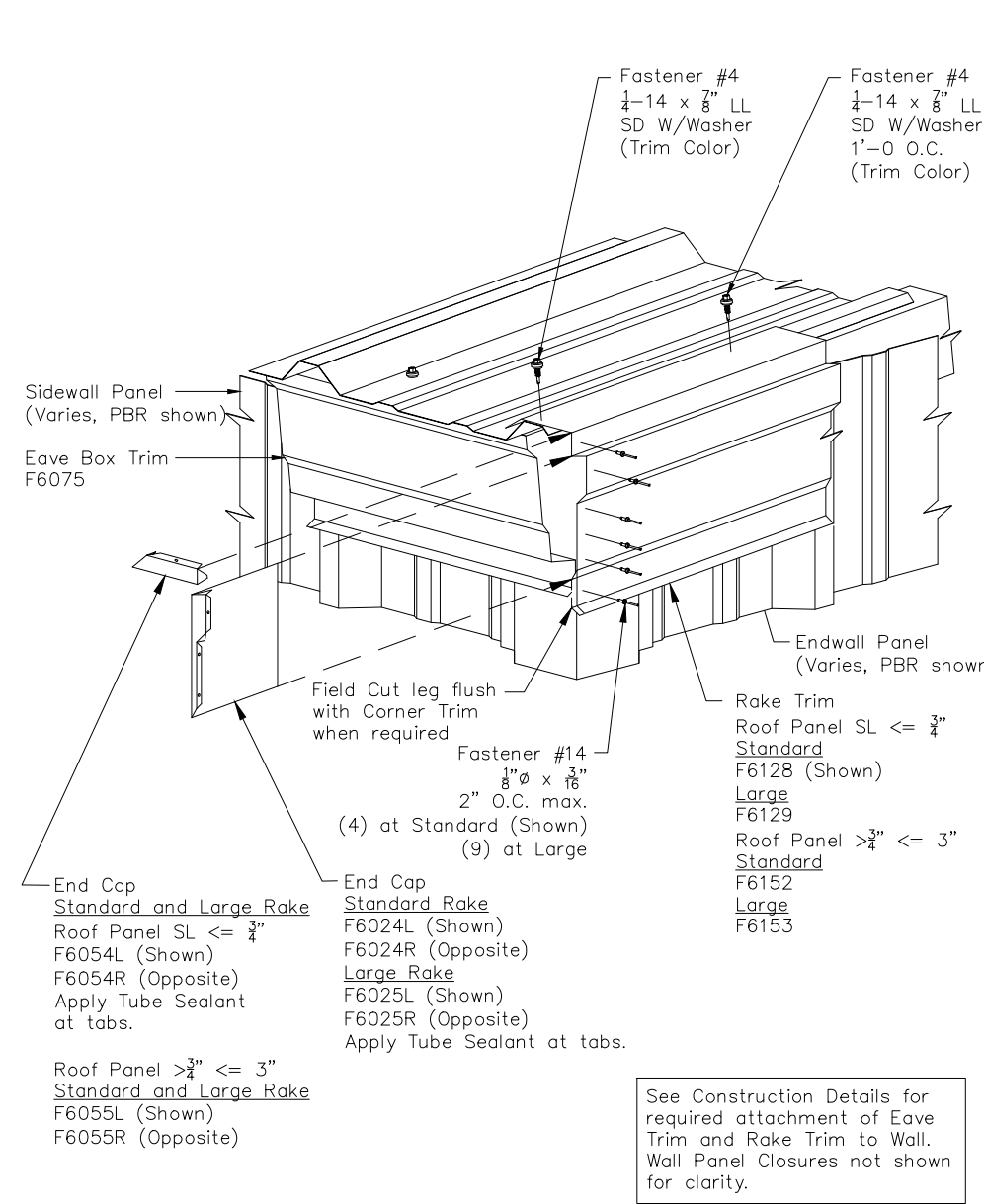


Trim Profile	Roof Panel Location	Peak Box			
		Southern Standard	Southern Large	Northern Standard	Northern Large
Cascading	-	F1519	F1585	F1672	F1760
Classic	-	F160	F4153	F381	F1024
Contoured	-	F2219	F2285	F2372	F2460
Signature	-	F916	F3853	F236	F1018
Edgecraft	SL <= 3/4"	F6028	F6029	F6030	F6031
Edgecraft	> 3/4" <= 3"	F6036	F6037	F6038	F6039
Sculptured	SL <= 3/4"	F7052	F7055	F7058	F7061
Sculptured	> 3/4" <= 3"	F7064	F7067	F7070	F7073

Note:
Flashing profile varies dependent on the building order. Attachment as illustrated is applicable for all profiles.

**PBR Roof Panel - Northern Standard And Northern Large Edgecraft
Low Eave Rake Corner With Eave Box Trim - 3/4" Thru 1 3/4" Wall Panel**

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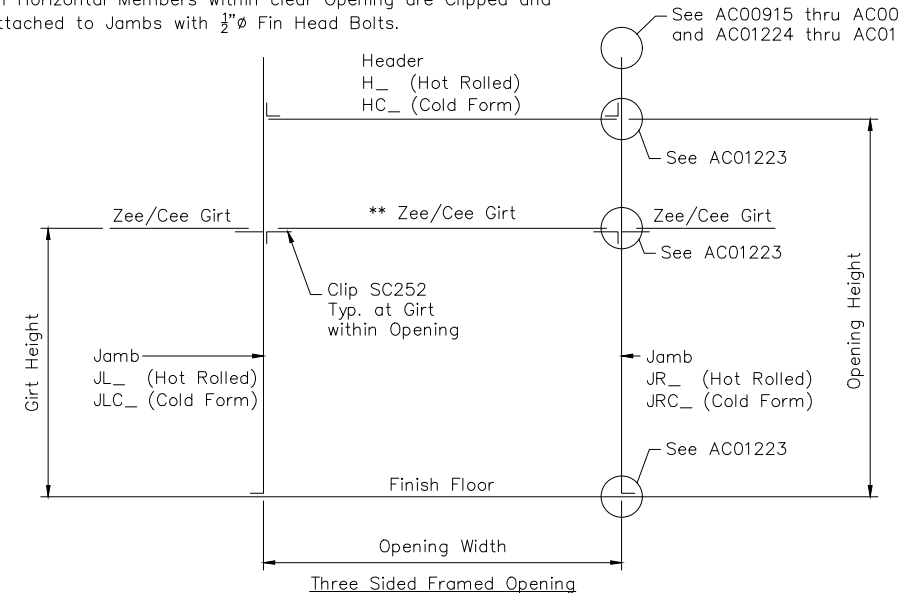


See Construction Details for required attachment of Eave Trim and Rake Trim to Wall. Wall Panel Closures not shown for clarity.

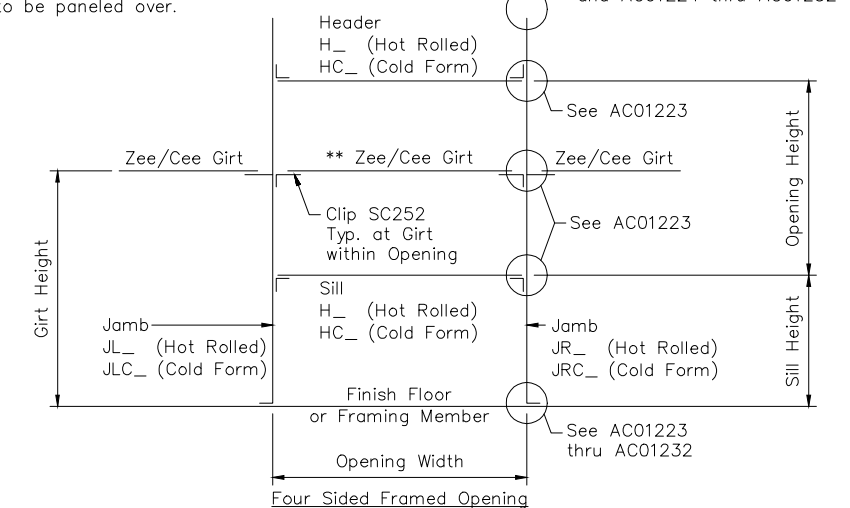
**Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled
Cee - Three and Four Sided Openings**

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AC01220
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Note:
All Horizontal Members within clear Opening are Clipped and attached to Jamb with 1/2" Fin Head Bolts.



** Girt within opening is provided when Framed Opening is to be paneled over.



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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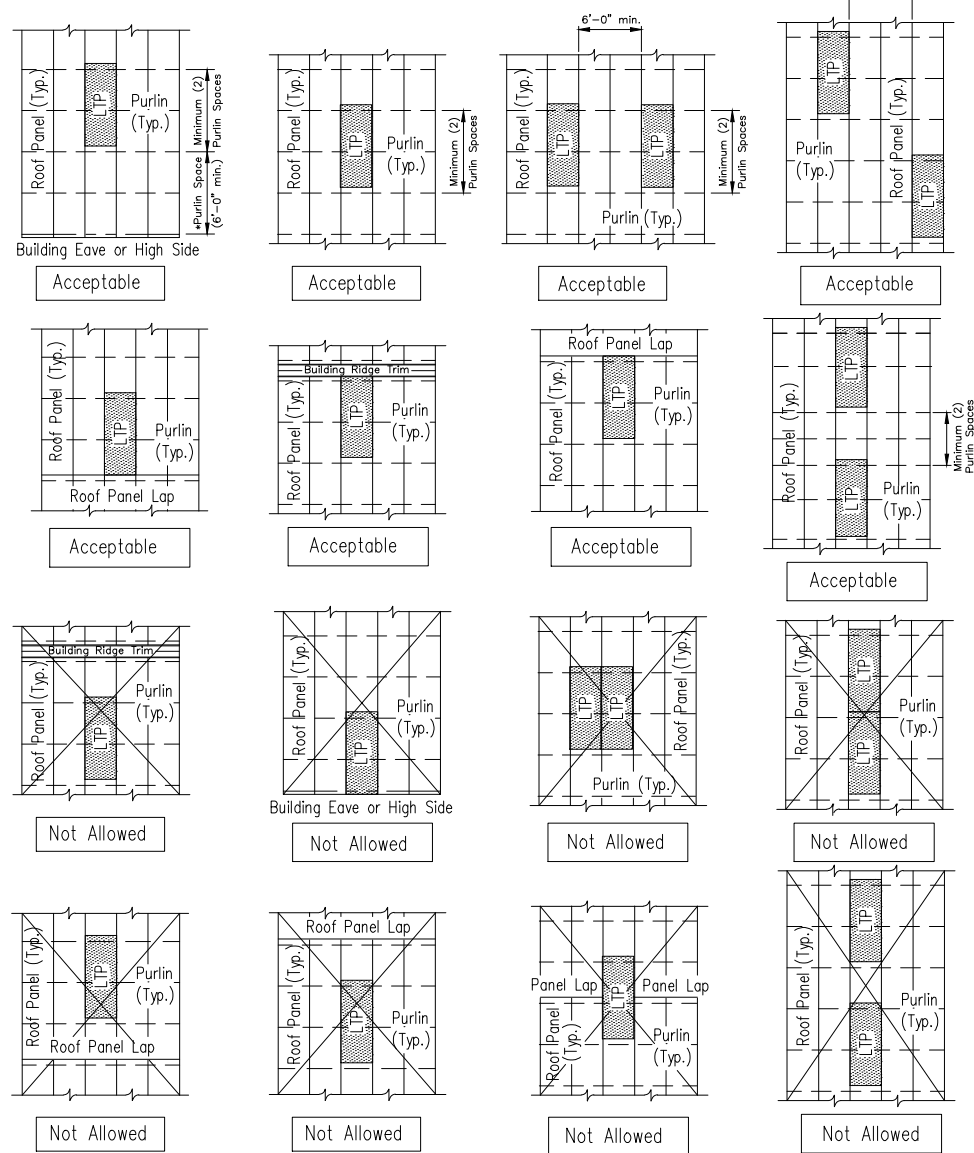
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET13	A

Light Transmitting Panel (LTP)
PBR Roof Panel
Standard Placement Guidelines

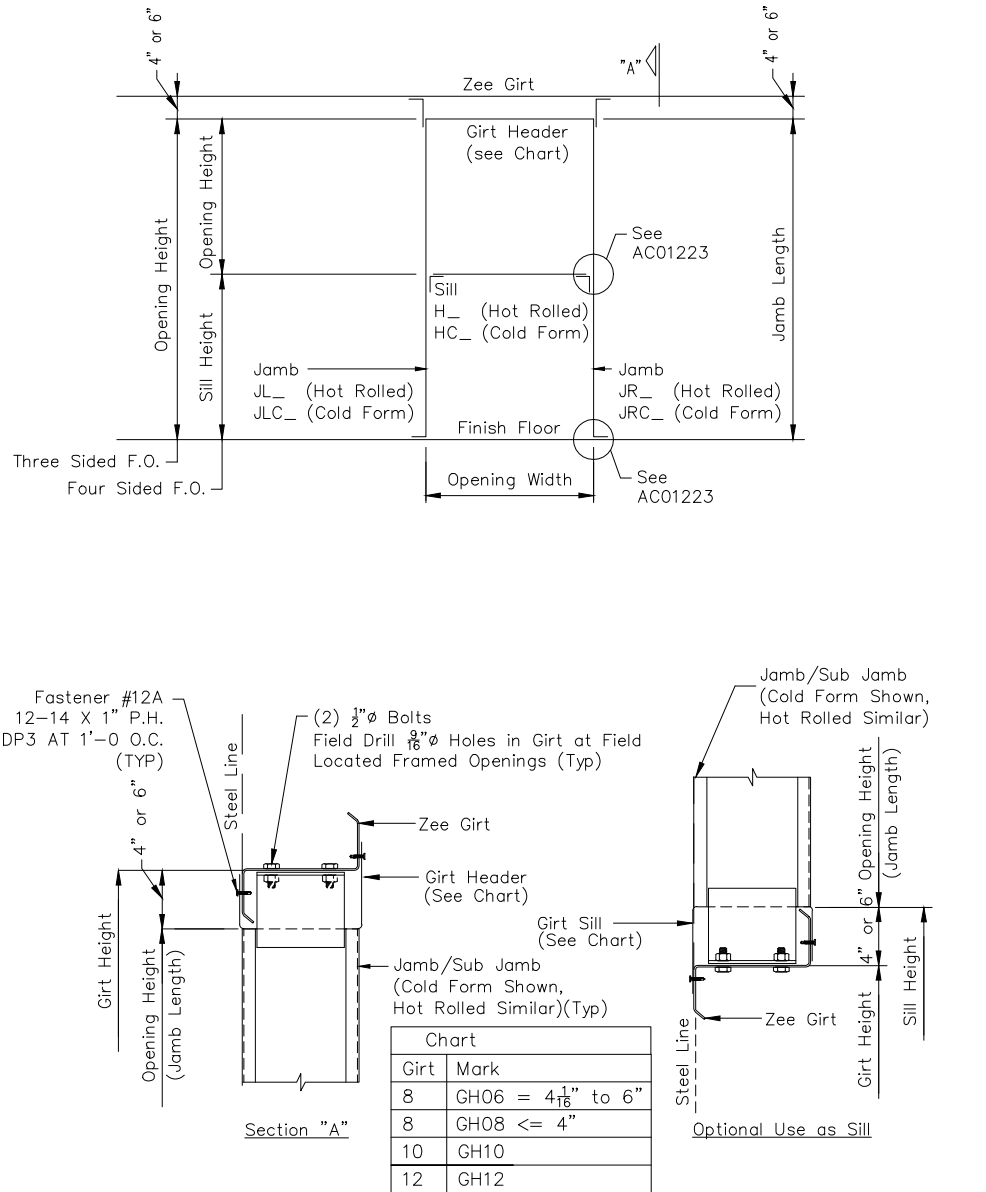
Page GPR25102
Date Apr '17 Rev 00

*Note: Roof Panel and Light Transmitting Panel to span a minimum of (2) purlin spaces.
A minimum of 4" is required for panel endlaps. The non-insulated LTP may be field cut or endlap under the up-hill roof panel a maximum of 1'-0". Insulated LTP should not be cut in field.



Welded Clips - Framed Opening Connections - Three and Four Sided
Openings - Girt Header

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Date Apr '20 Rev 03



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

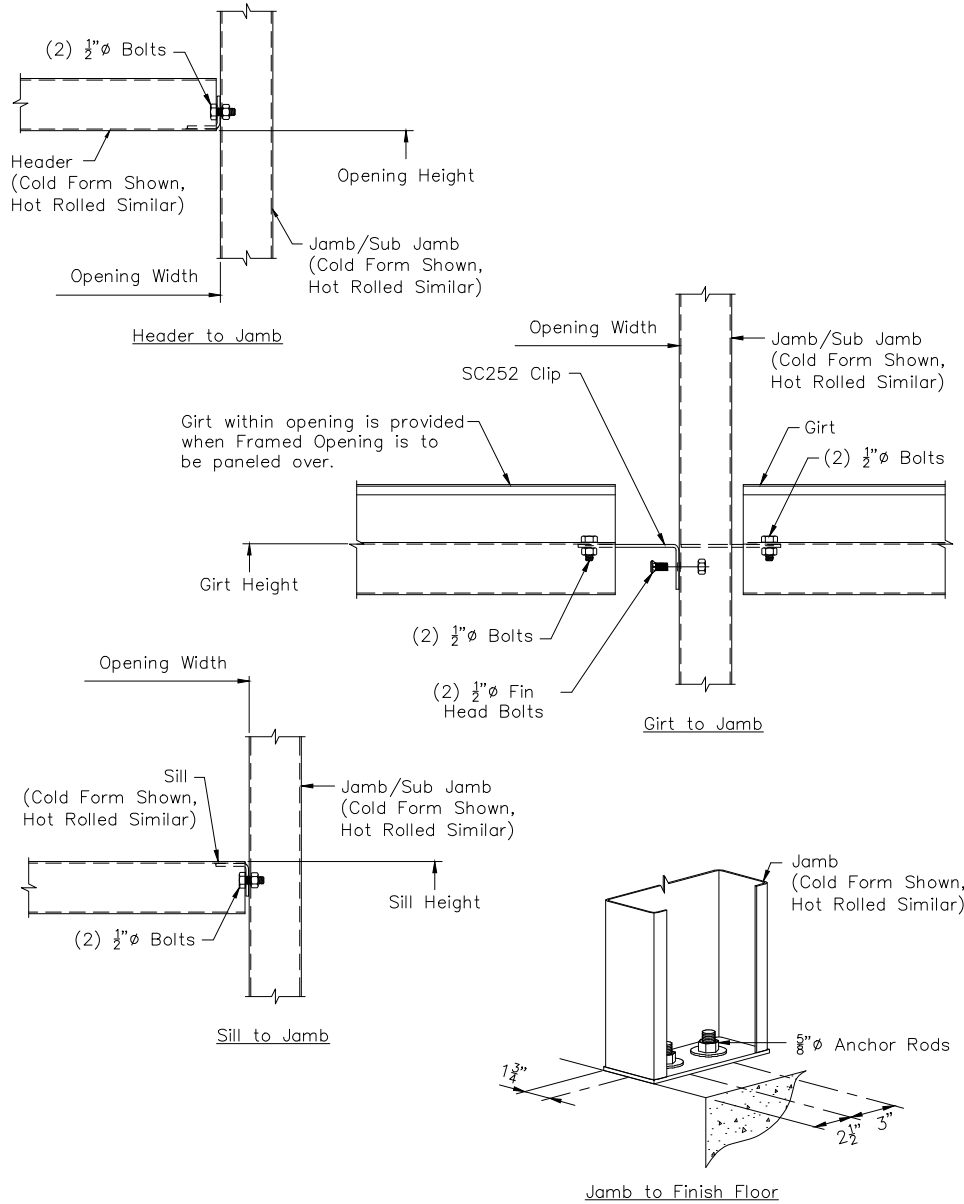
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET14	A

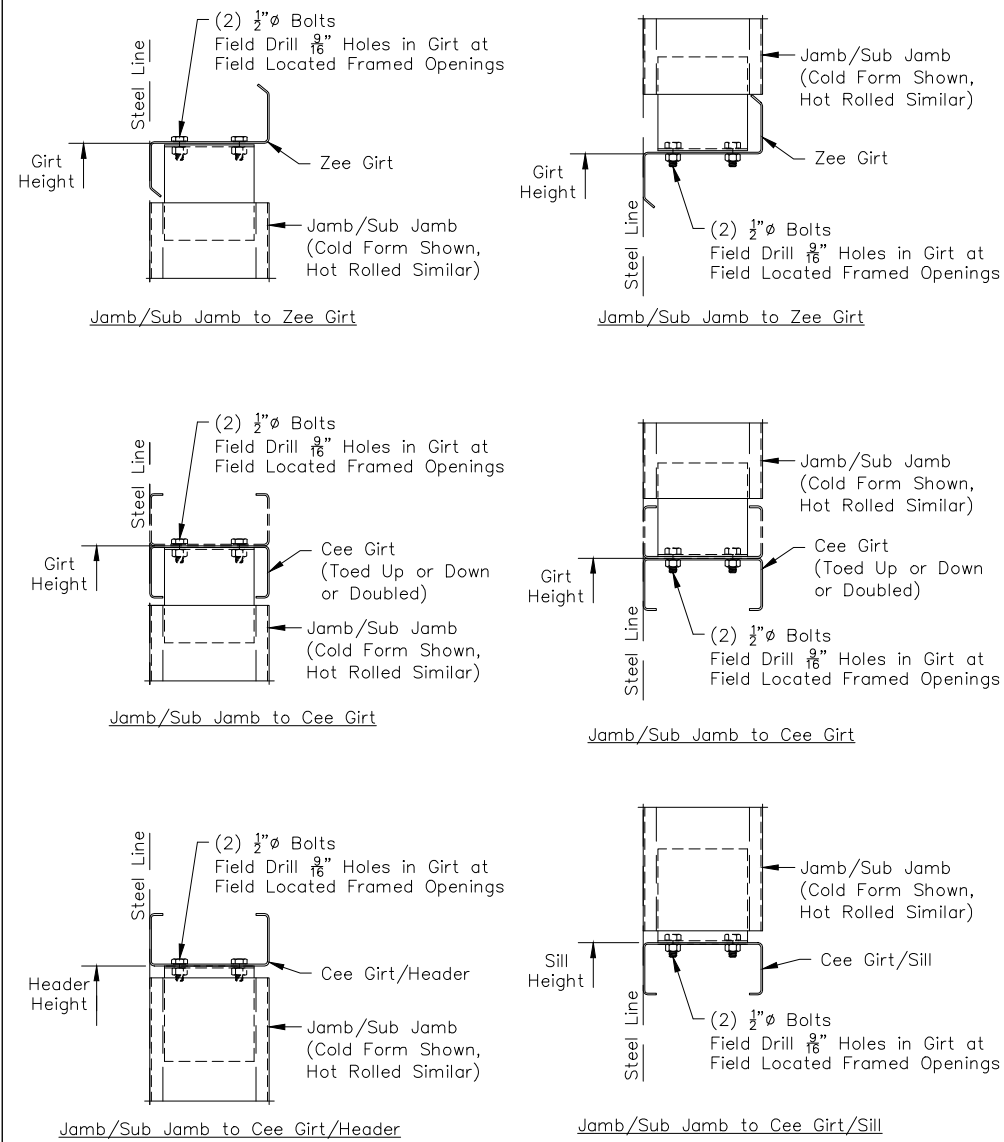
Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled
Base, Girt, Header, and Sill to Jamb

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Date May '19 Rev 02



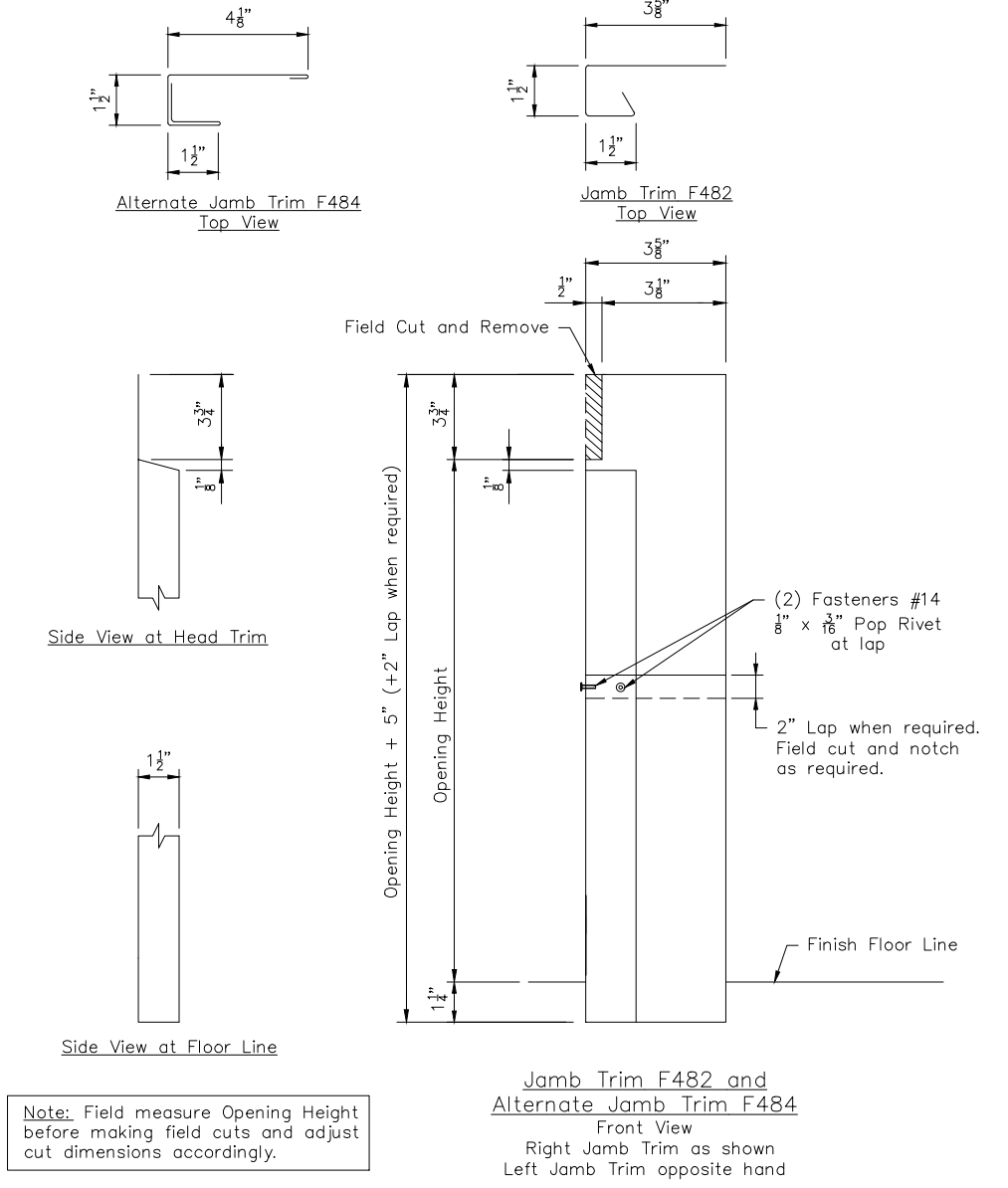
Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled
Jamb/Sub Jamb to Zee/Cee Girt or Header/Sill

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Date May '19 Rev 01



PBR Wall Panel - Three Sided Framed Opening
Jamb Trim Field Cut Details

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Date Mar '20 Rev 04

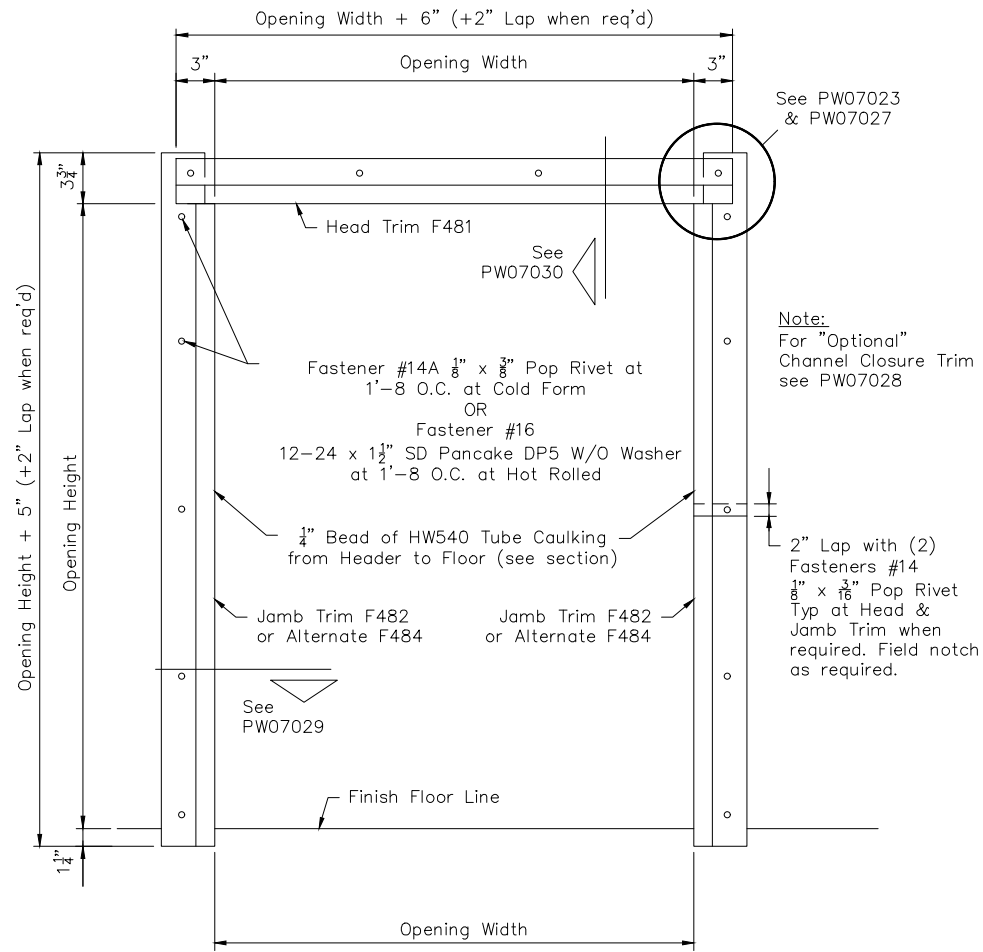


ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

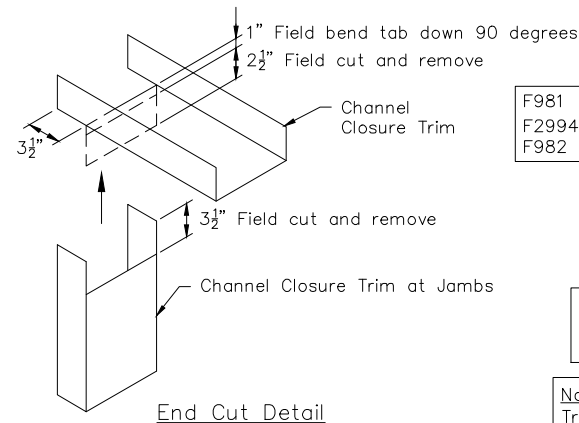
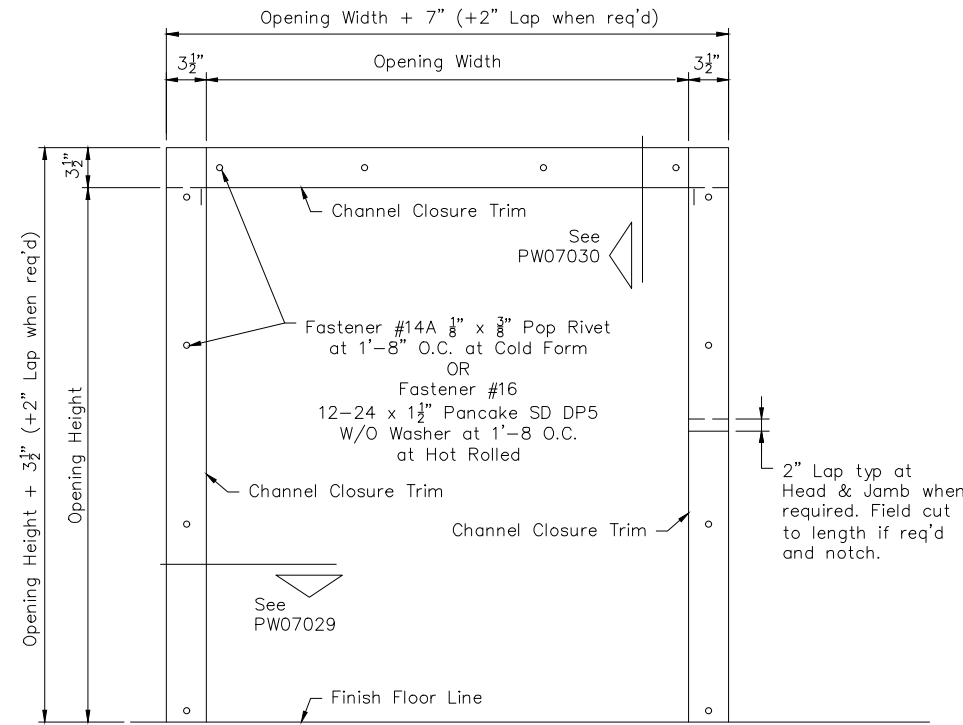
PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET15	A

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.



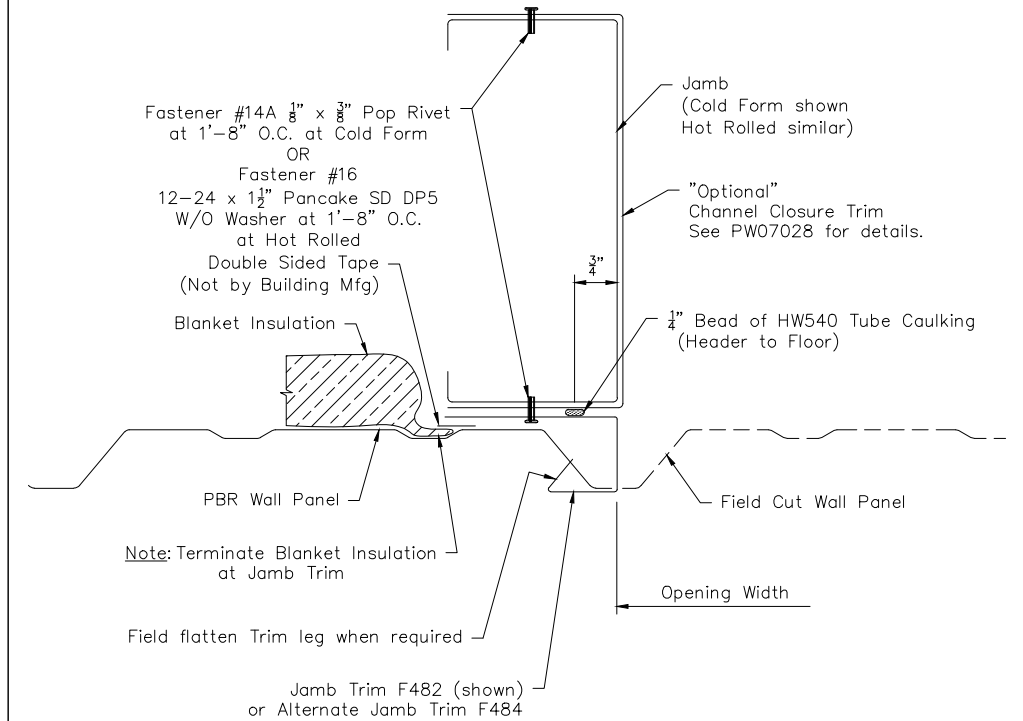
Optional Channel Closure Trim Piece Mark

F981 - 8" Member	F2993 - 10 1/4" Member
F2994 - 8 1/2" Member	F169 - 12" Member
F982 - 10" Member	F2995 - 12 1/4" Member

Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

Note: The interior leg of the Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the Header or Jamb.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Opening on 1'-0" module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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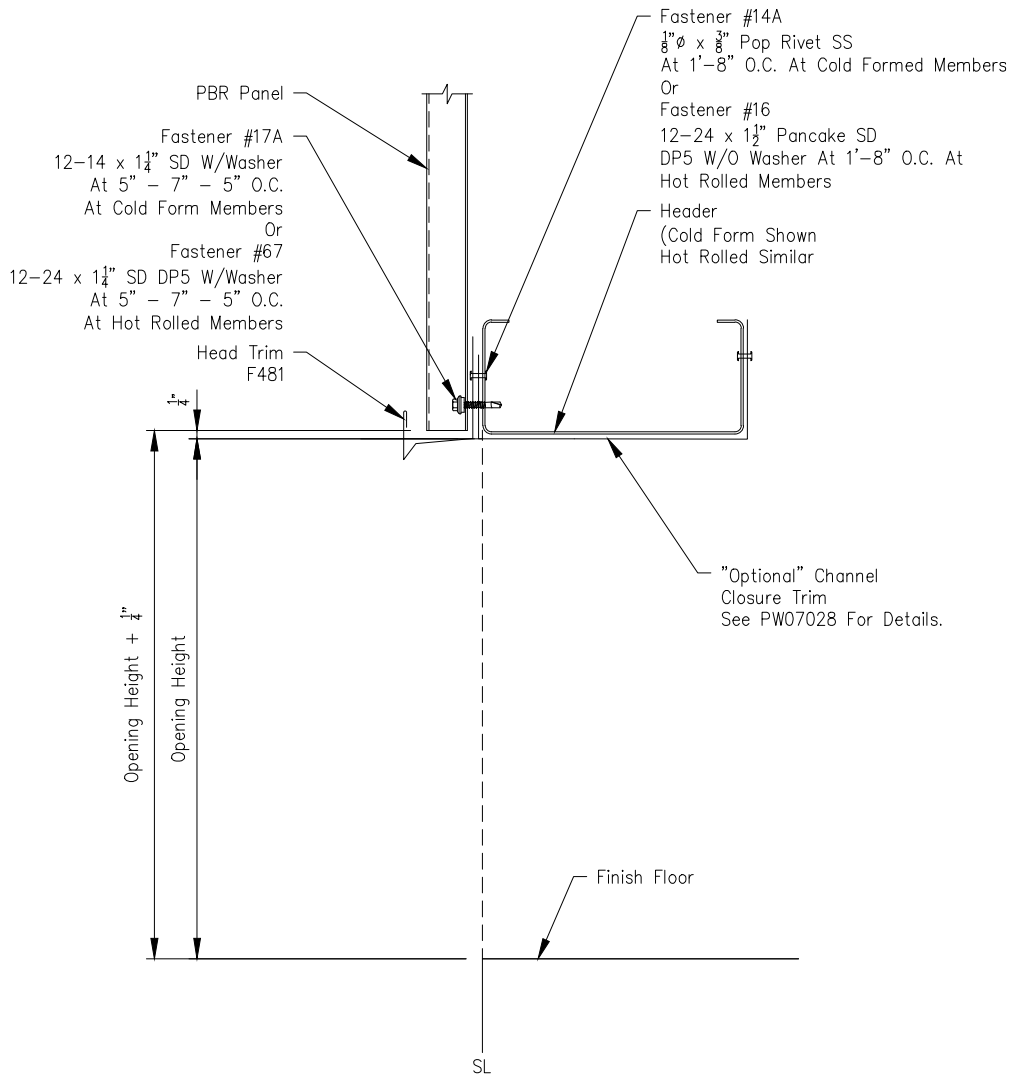
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN
OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET16	A

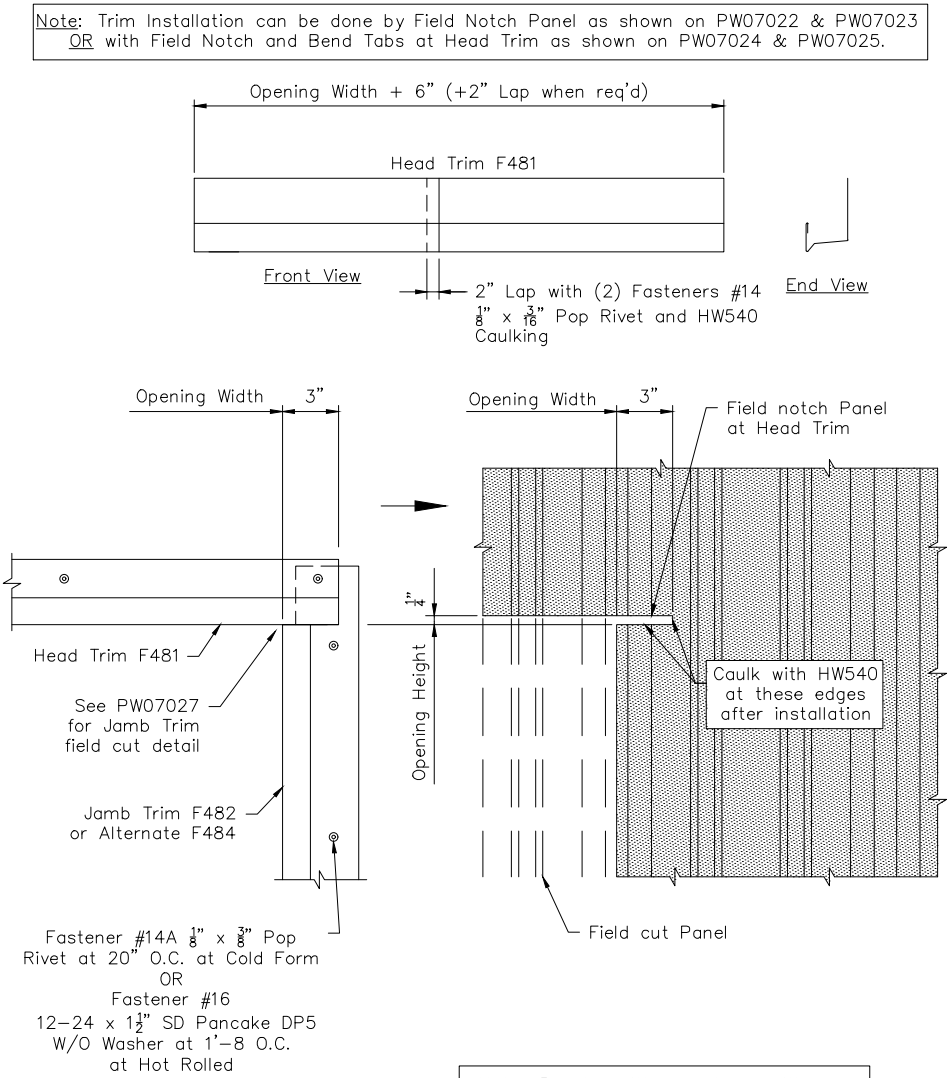
PBR Wall Panel - Three Sided Framed Opening
Head Trim Installation

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Date Oct '19 Rev 03



PBR Wall Panel - Three Sided Framed Opening
Field Notch Panel at Head Trim

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Date Mar '20 Rev 05

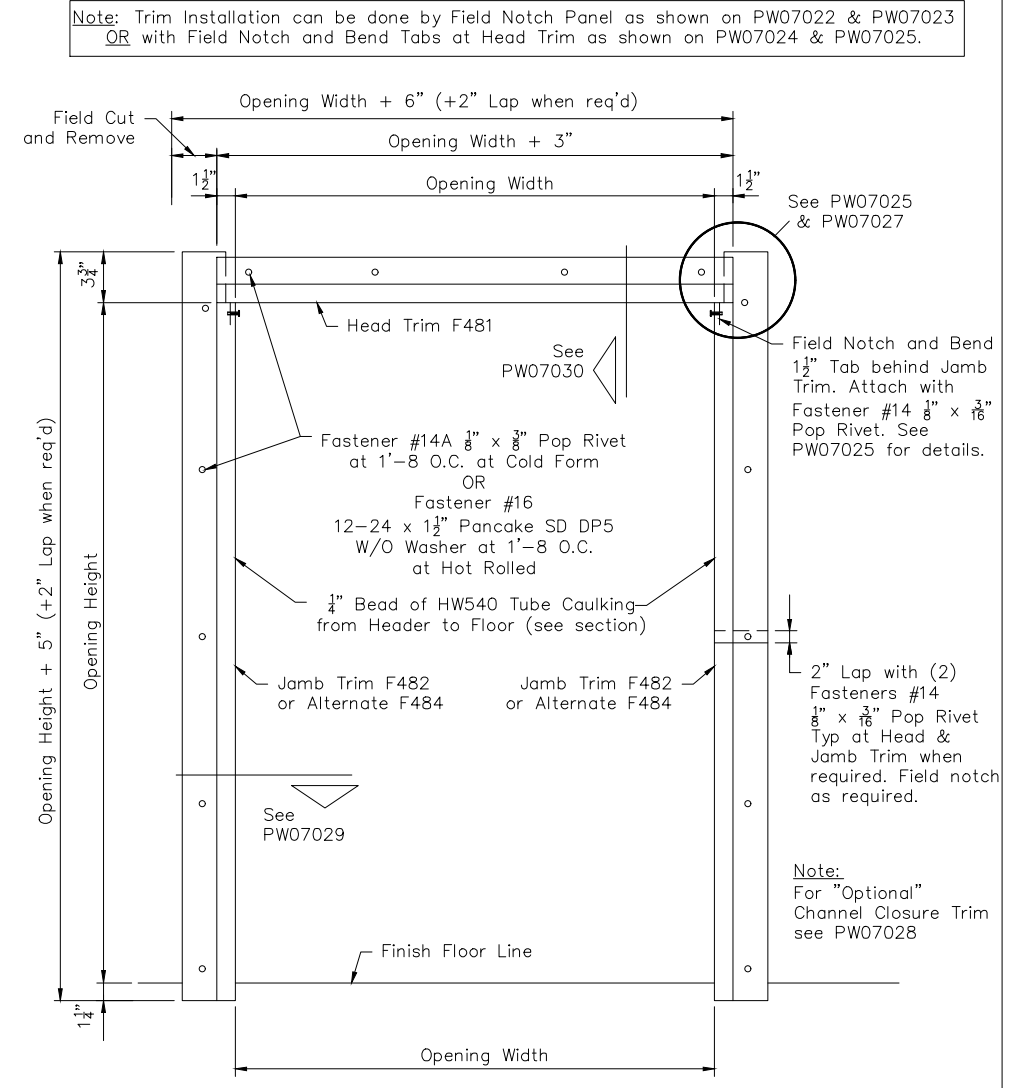


Note: All trim is to be installed BEFORE blanket insulation is applied to walls

Note: Panel position is shown with Panel Rib and Opening on 1'-0 module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Three Sided Framed Opening - Trim Installation with Field Notch and Bend Tabs at Head Trim

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Date Mar '20 Rev 05



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

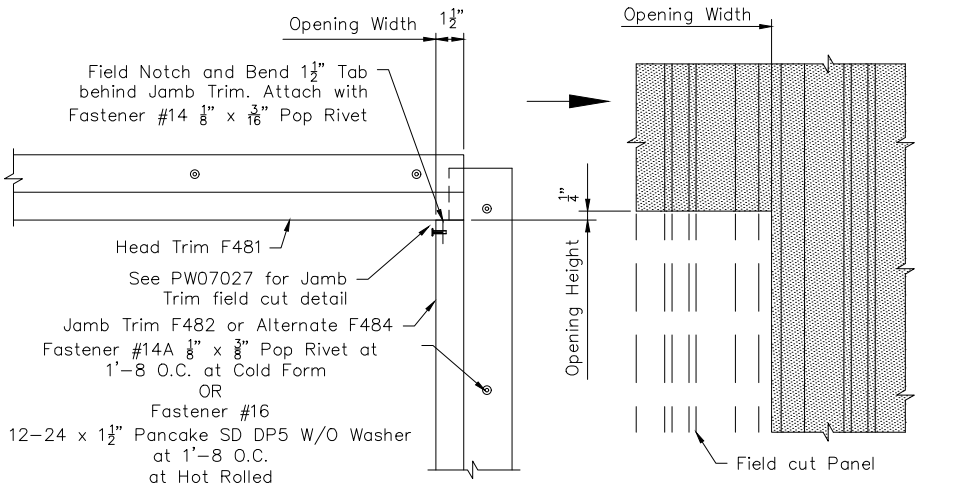
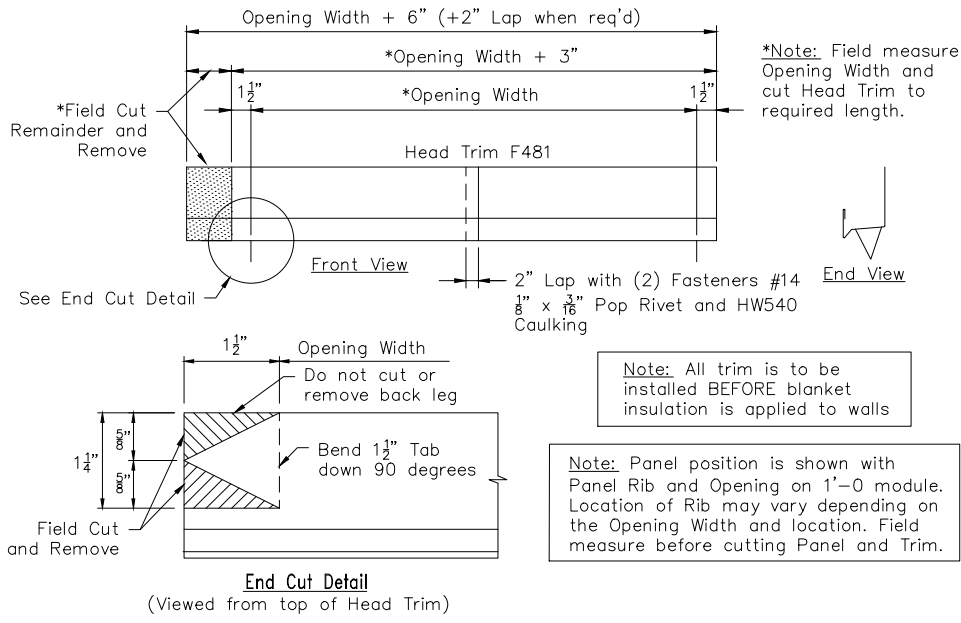
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN			OWNER:	KEN KAPPERMAN		
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET17	A

PBR Wall Panel - Three Sided Framed Opening - Field Notch and Bend Tabs at Head Trim

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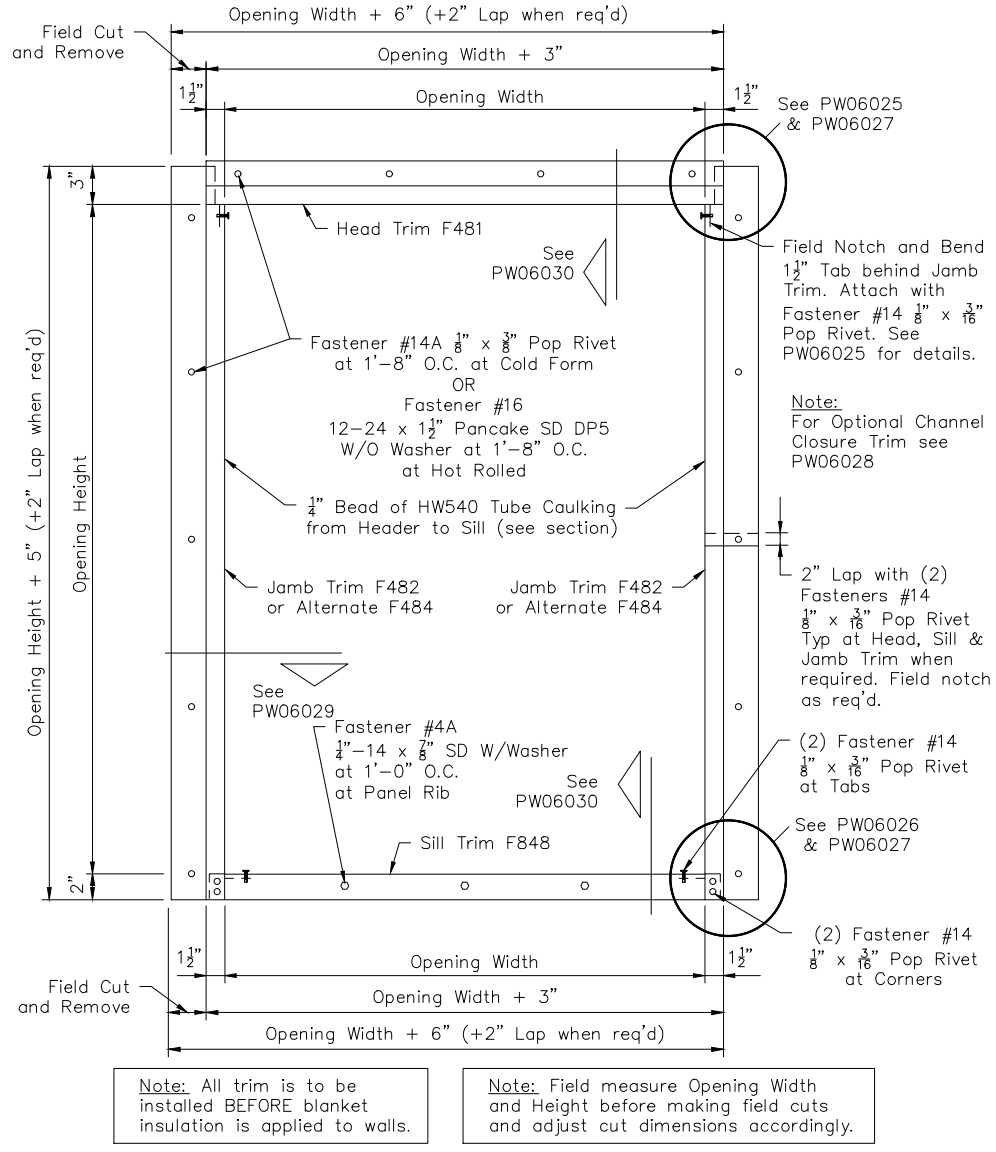
Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



PBR Wall Panel - Four Sided Framed Opening Trim Installation With Field Notch and Bend Tabs at Head Trim

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PW06024
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06

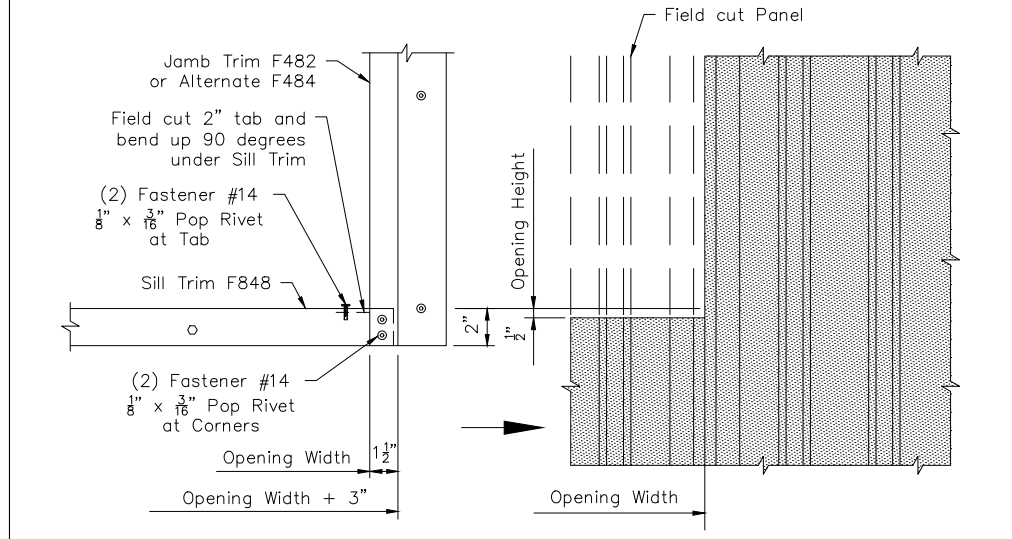
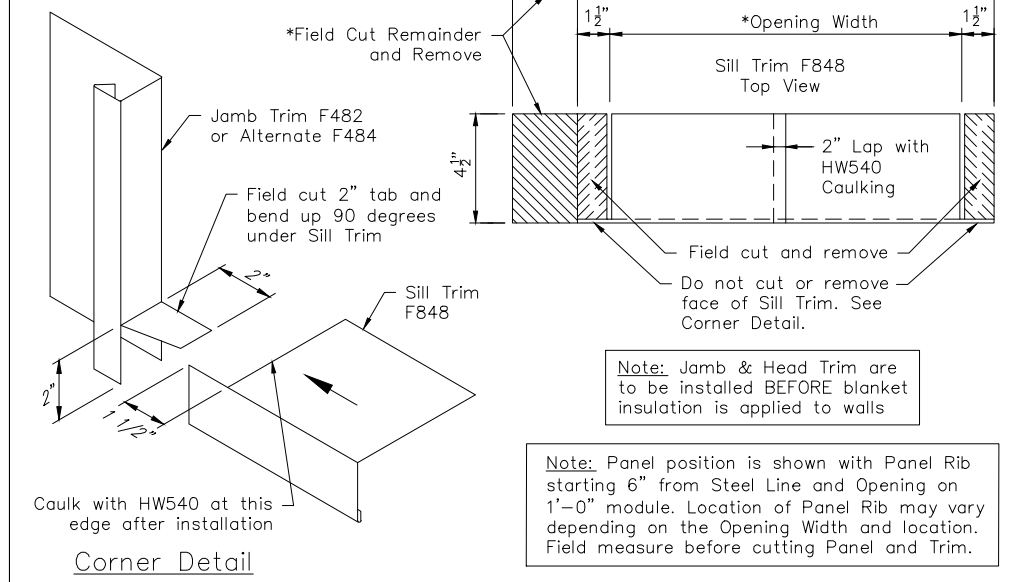
Note: Trim Installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



PBR Wall Panel - Four Sided Framed Opening Sill Trim Installation

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*Note: Field measure Opening Width and cut Sill Trim to required length.



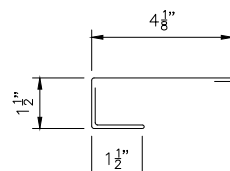
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EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

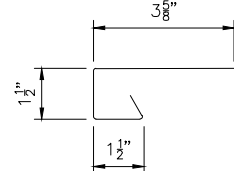
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CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET18	A

PBR Wall Panel - Four Sided Framed Opening
Jamb Trim Field Cut Details

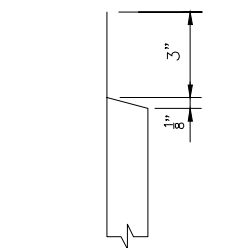
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Date Mar '20 Rev 04



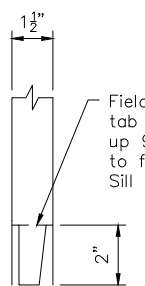
Alternate Jamb Trim F484
Top View



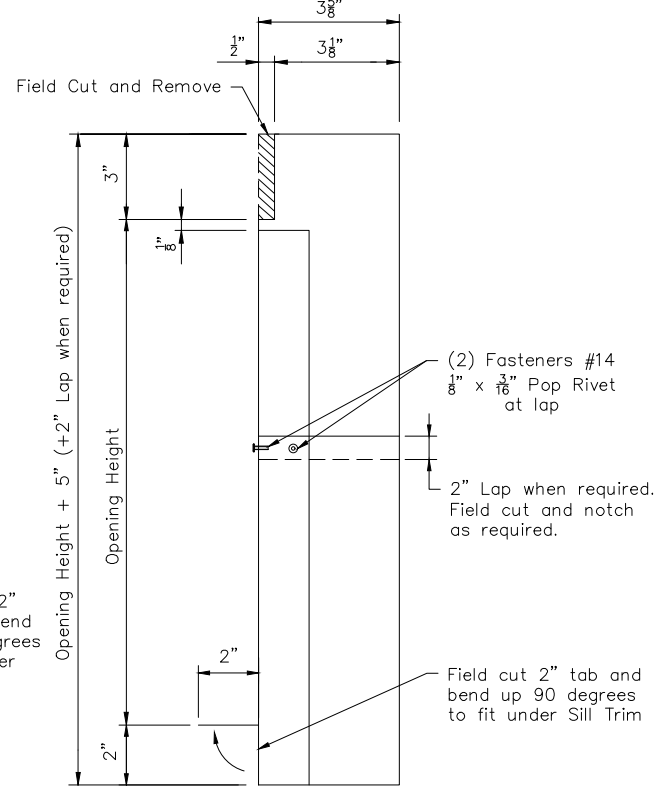
Jamb Trim F482
Top View



Side View at Head Trim



Side View at Sill Trim

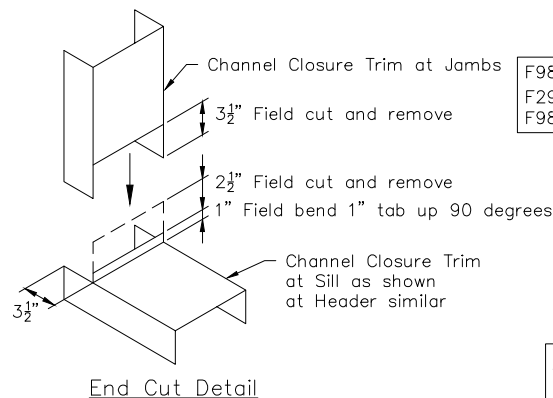
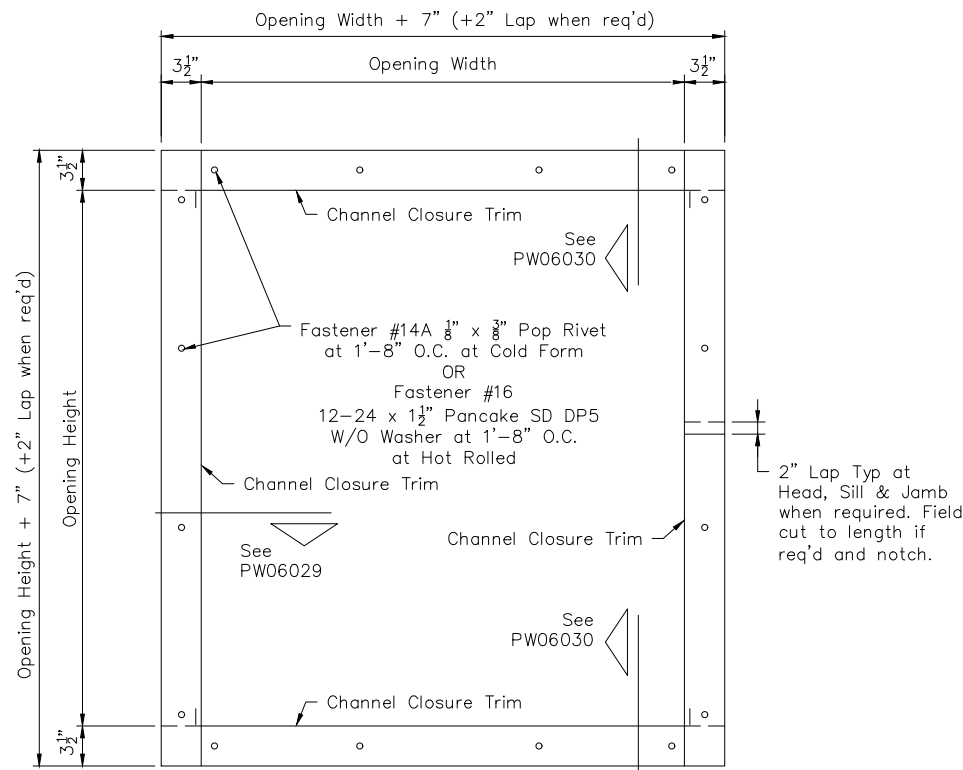


Jamb Trim F482 and
Alternate Jamb Trim F484
Front View
Right Jamb Trim as shown
Left Jamb Trim opposite hand

Note: Field measure Opening Height before making field cuts and adjust cut dimensions accordingly so that Jamb Trim fits to Head and Sill Trim.

PBR Wall Panel - Four Sided Framed Opening
Optional Channel Closure Trim

Page PW06028
Date Sep '16 Rev 04



End Cut Detail

Optional Channel Closure Trim Piece Mark

F981 - 8" Member	F2993 - 10 1/2" Member
F2994 - 8 1/4" Member	F169 - 12" Member
F982 - 10" Member	F2995 - 12 1/4" Member

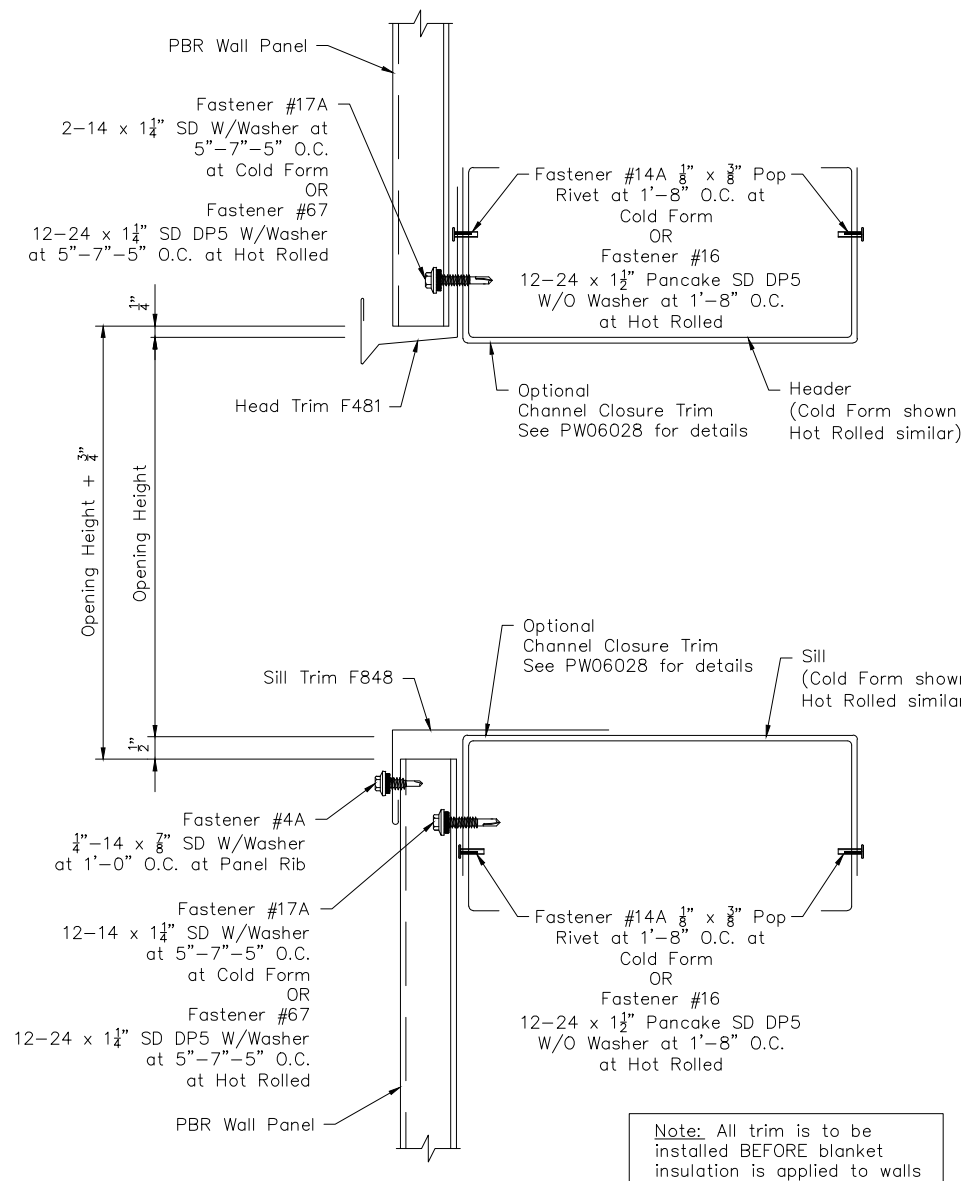
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

Note: The interior leg of the Channel Closure Trim is to be oriented ($\pm 1/8"$) to match the interior leg of the Header or Jamb.

PBR Wall Panel - Four Sided Framed Opening
Head and Sill Trim Installation

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Date Sep '16 Rev 02



Note: All trim is to be installed BEFORE blanket insulation is applied to walls

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

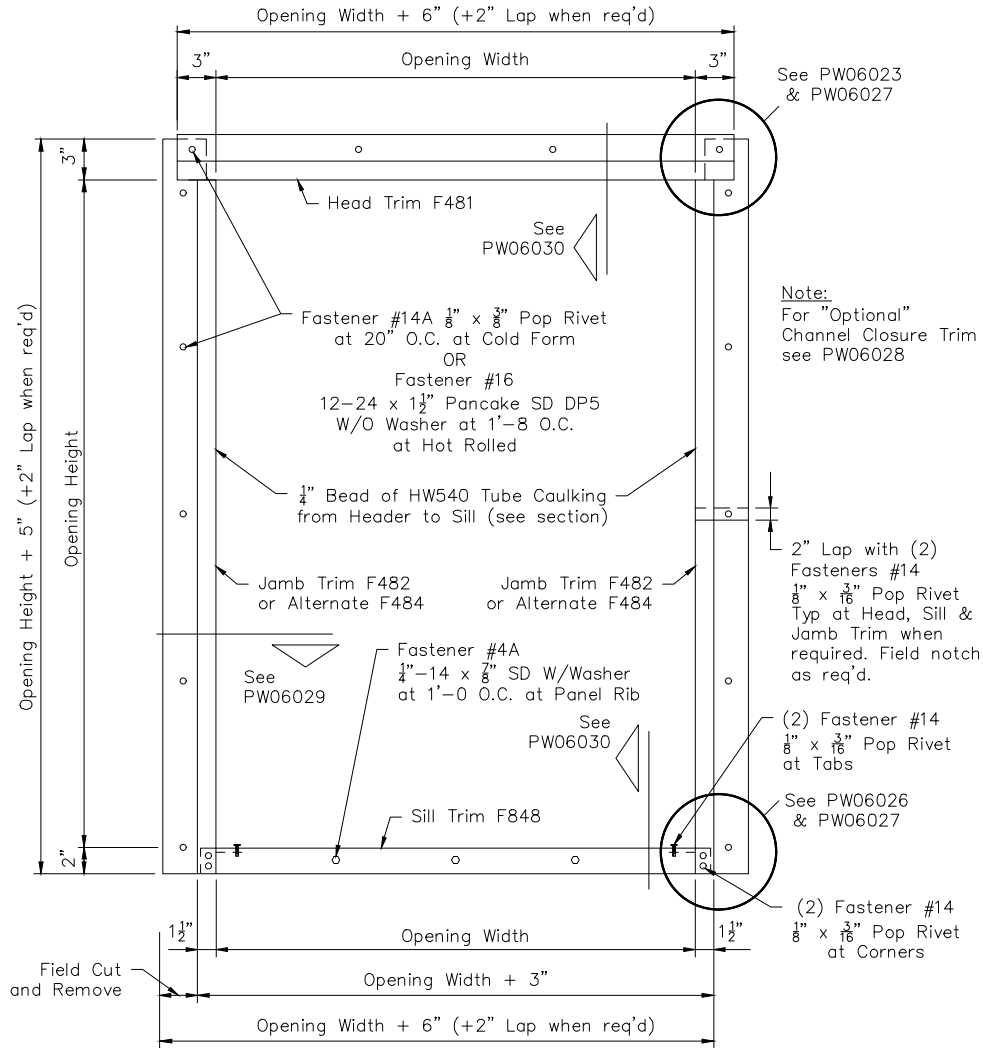
EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET19	A

PBR Wall Panel - Four Sided Framed Opening - Trim Installation with Field Notch Panel at Head Trim

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Note: Trim Installation can be done by Field Notch Panel as shown on PW06022 & PW06023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW06024 & PW06025.



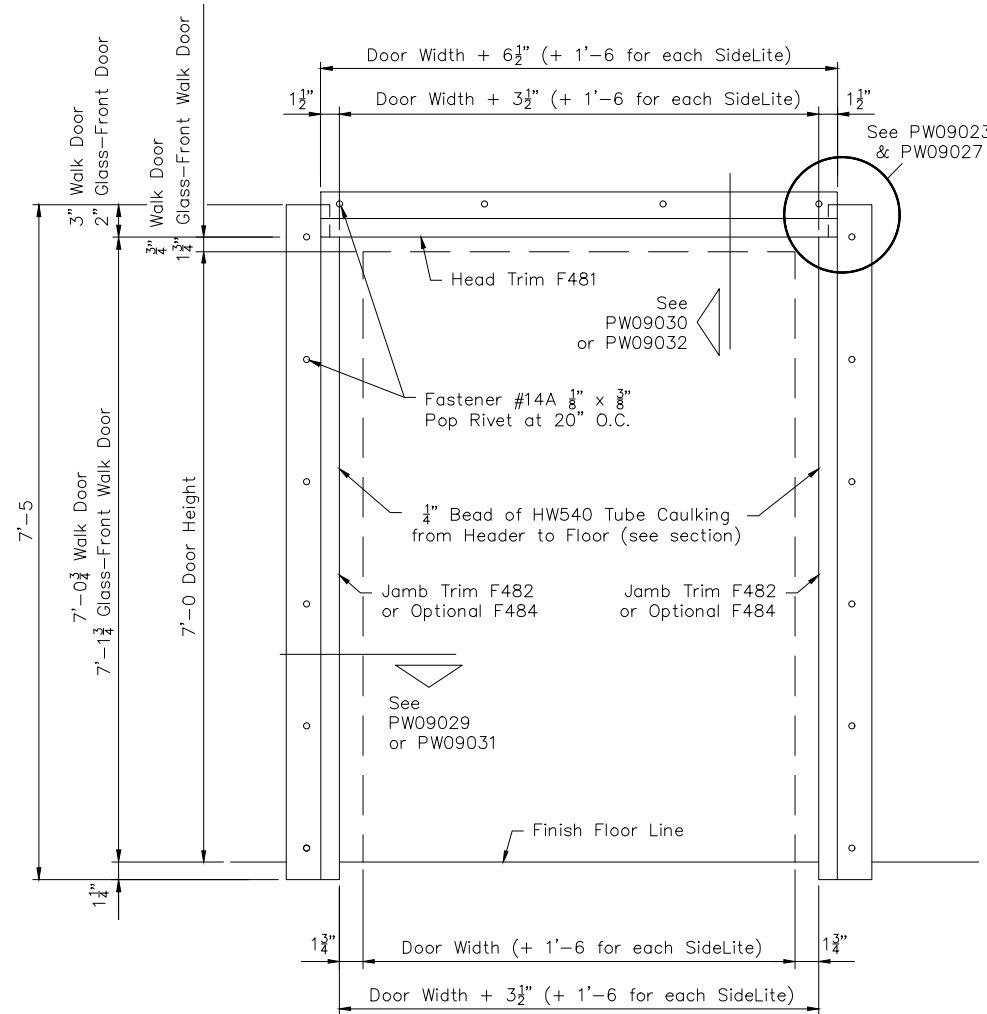
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door & Glass-Front Walk Door - Trim Installation with Field Notch Panel at Head Trim

Page PW09022
Date Mar '20 Rev 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



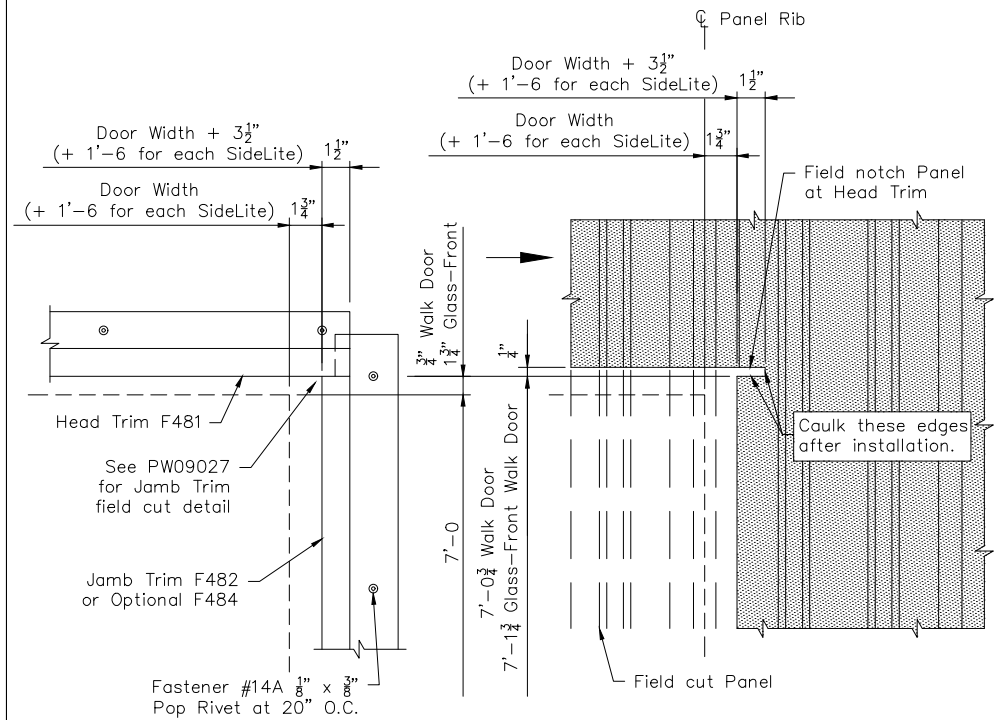
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door And Glass-Front Walk Door Field Notch Panel at Head Trim

Page PW09023
Date Mar '20 Rev 02

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Door on 1'-0" module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

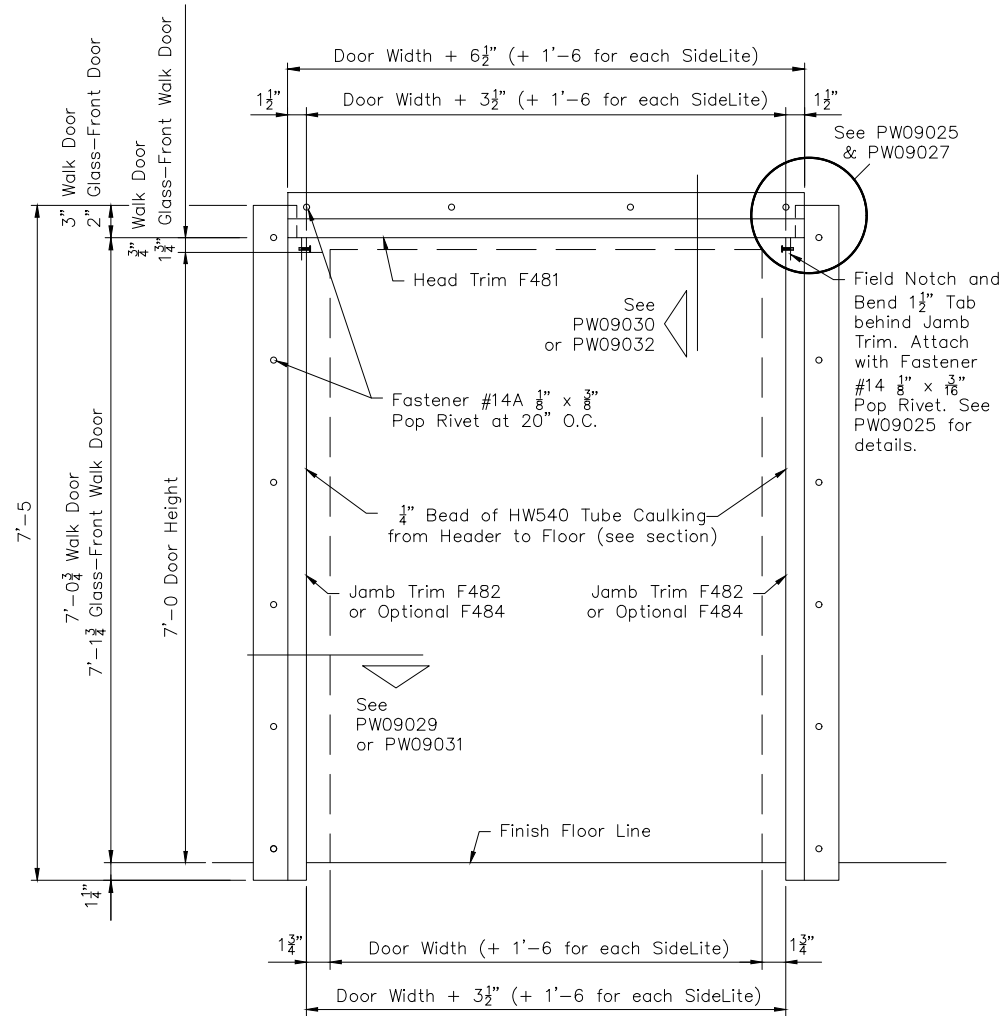
PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET20	A

PBR Wall Panel - Walk Door & Glass-Front Walk Door - Trim Installation with Field Notch and Bend Tabs at Head Trim

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Rev
03

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



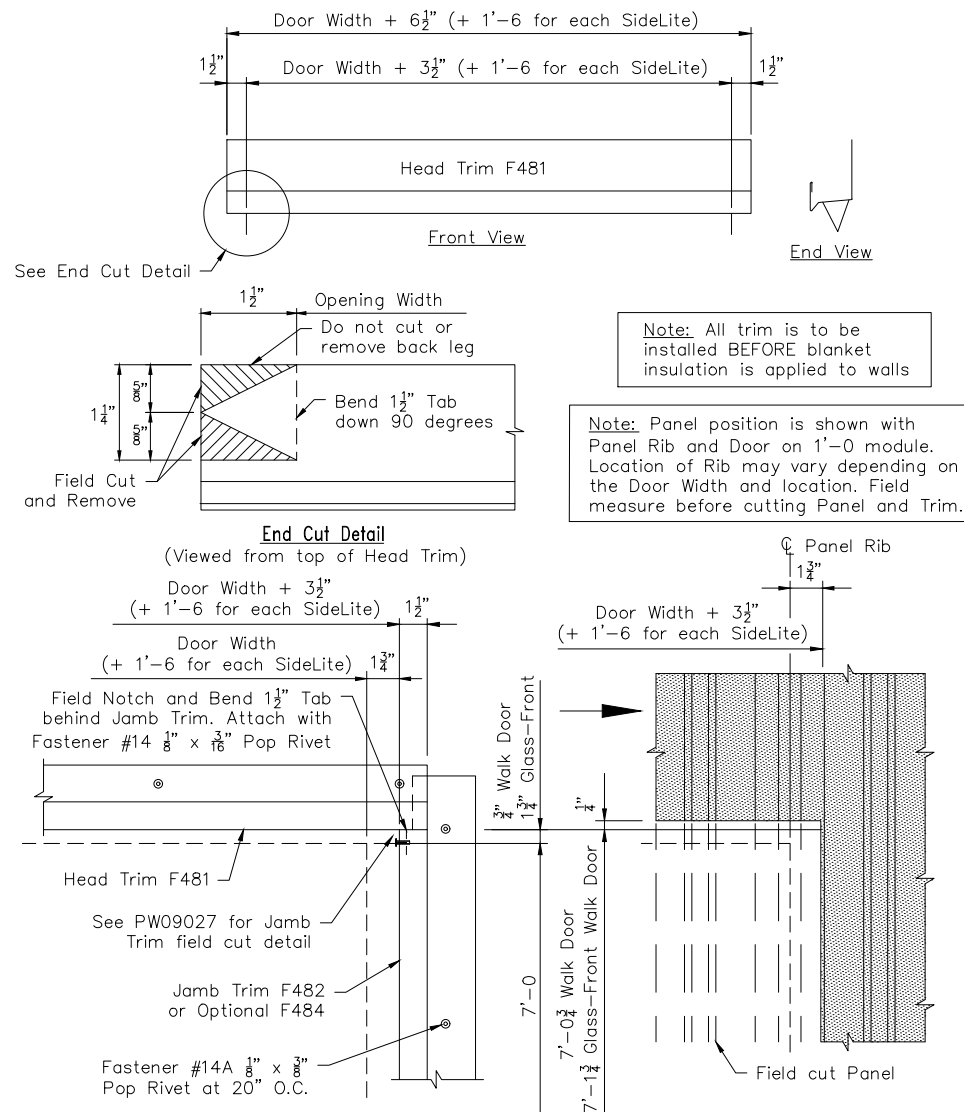
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door And Glass-Front Walk Door - Field Notch and Bend Tabs at Head Trim

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PW09025
Date
Mar '20
Rev
02

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.

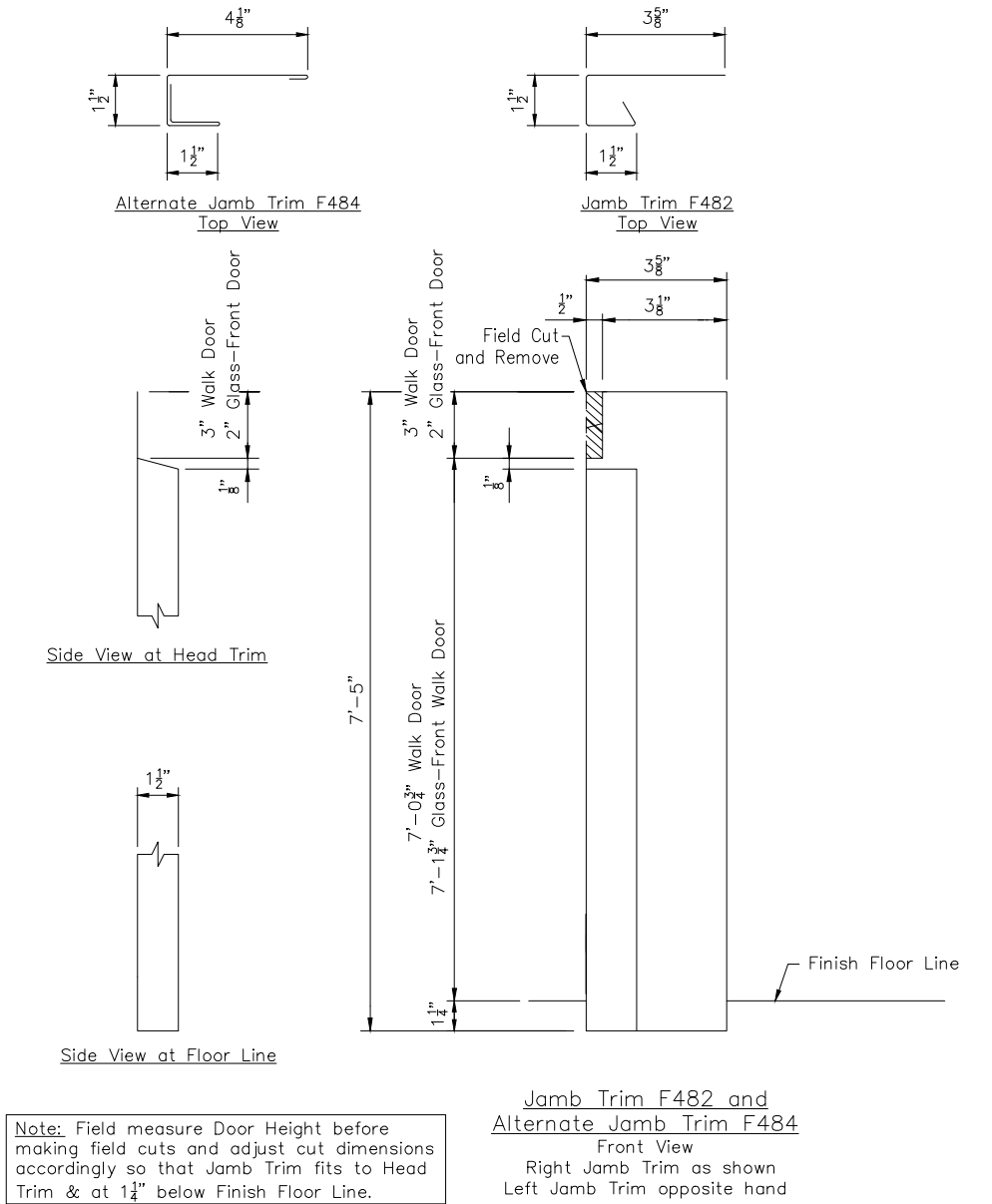


Note: All trim is to be installed BEFORE blanket insulation is applied to walls

Note: Panel position is shown with Panel Rib and Door on 1'-0 module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Walk Door And Glass-Front Walk Door Jamb Trim Field Cut Details

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03



Note: Field measure Door Height before making field cuts and adjust cut dimensions accordingly so that Jamb Trim fits to Head Trim & at 1 1/4" below Finish Floor Line.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

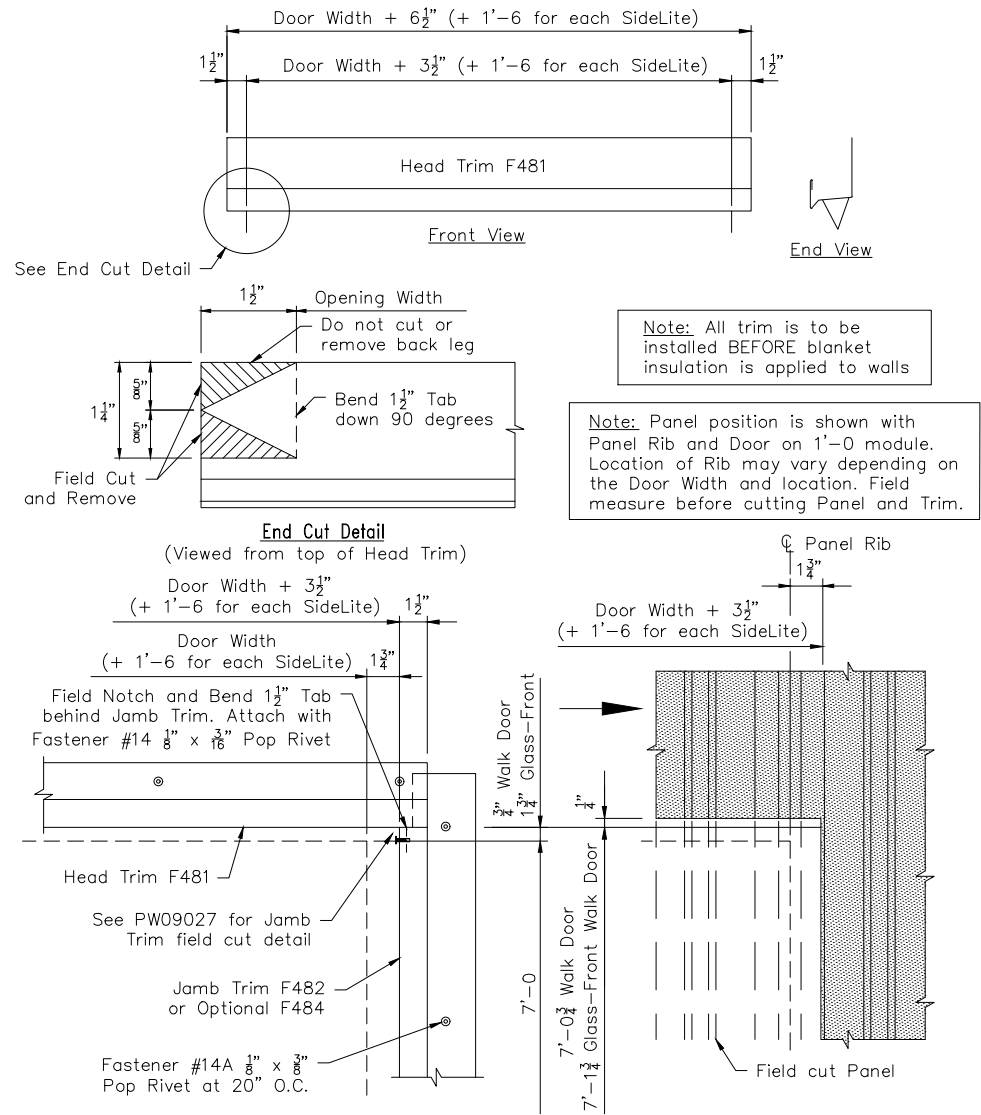
PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN
OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET21	A

PBR Wall Panel - Walk Door And Glass-Front Walk Door - Field Notch and Bend Tabs at Head Trim

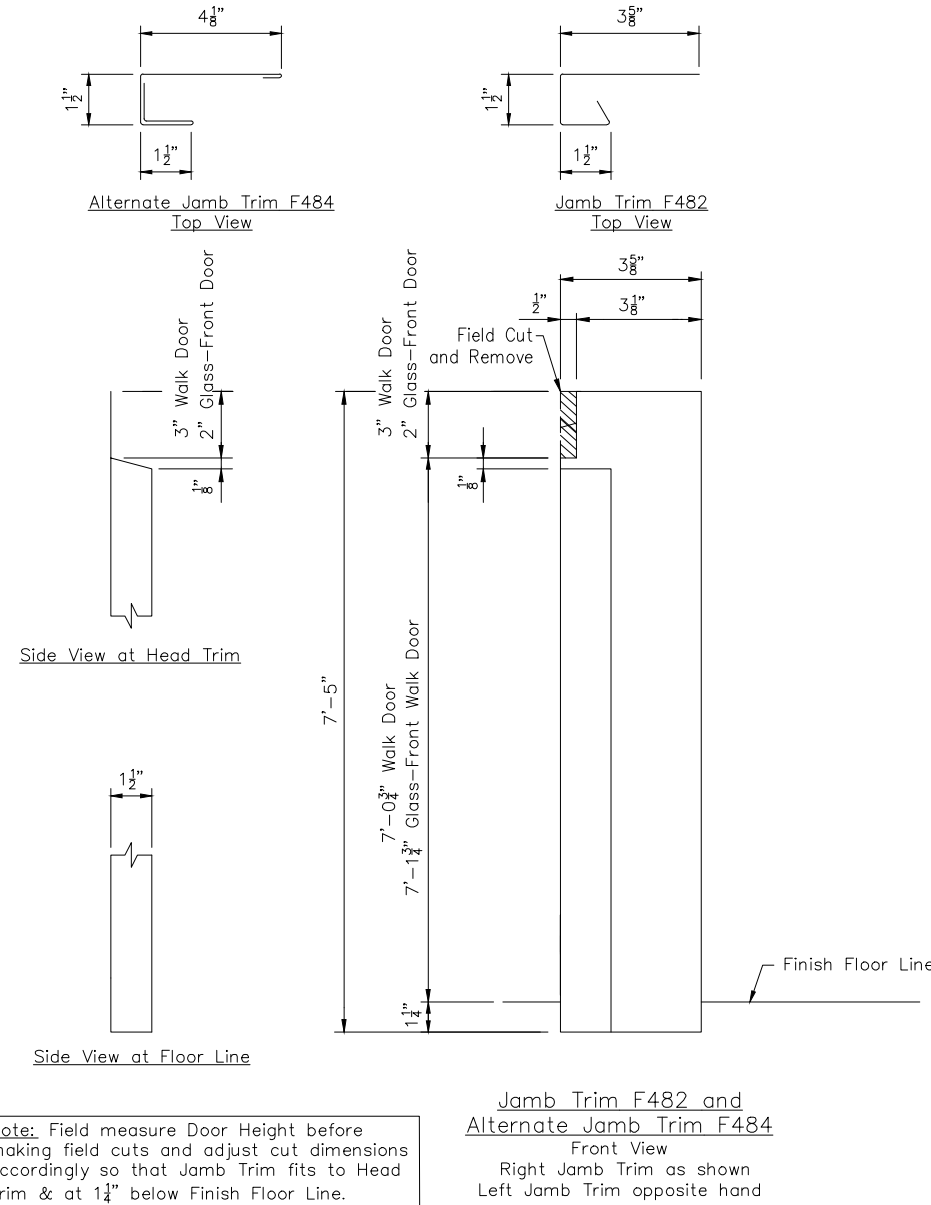
Page PW09025
Date Mar '20 Rev 02

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



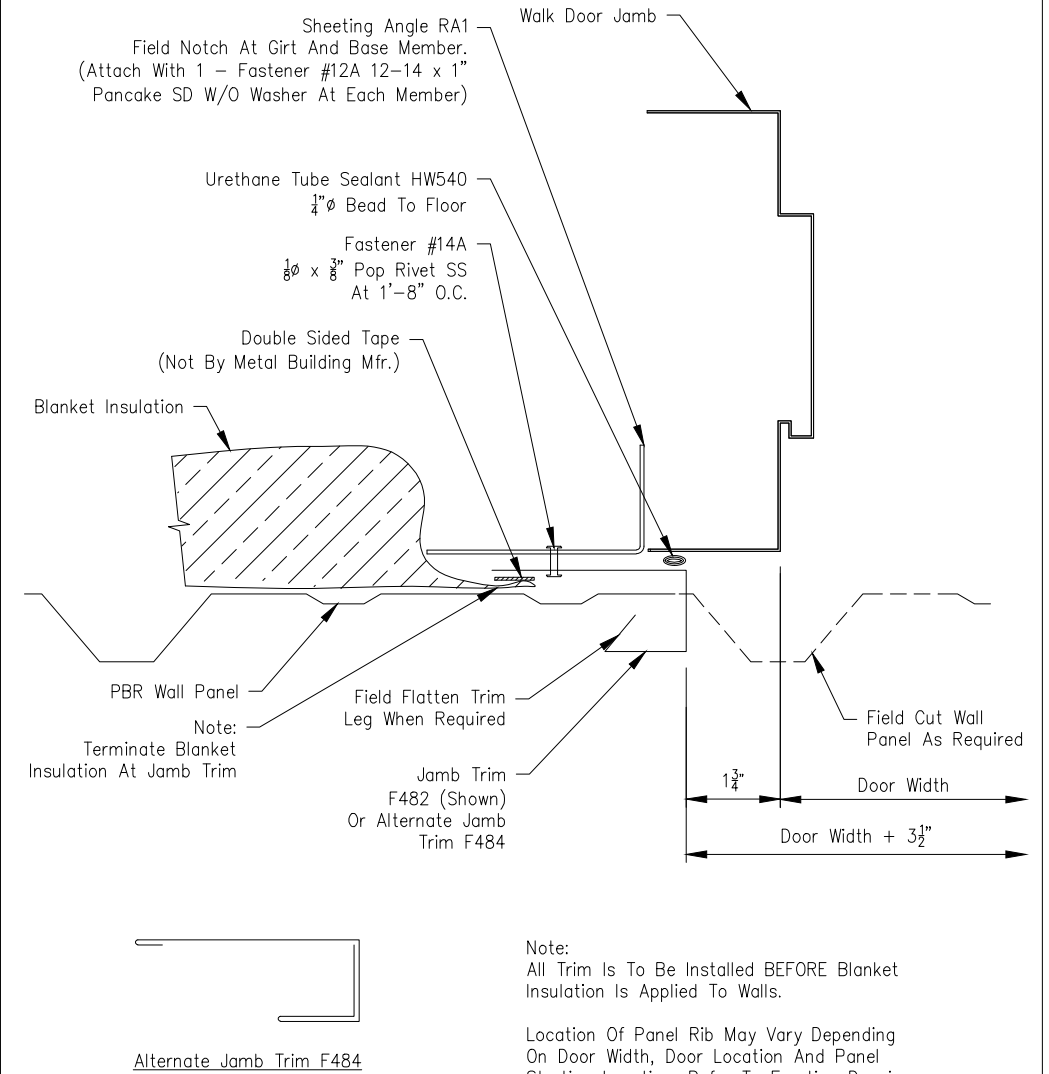
PBR Wall Panel - Walk Door And Glass-Front Walk Door Jamb Trim Field Cut Details

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PBR Wall Panel - Knock Down Door Jamb Trim Installation

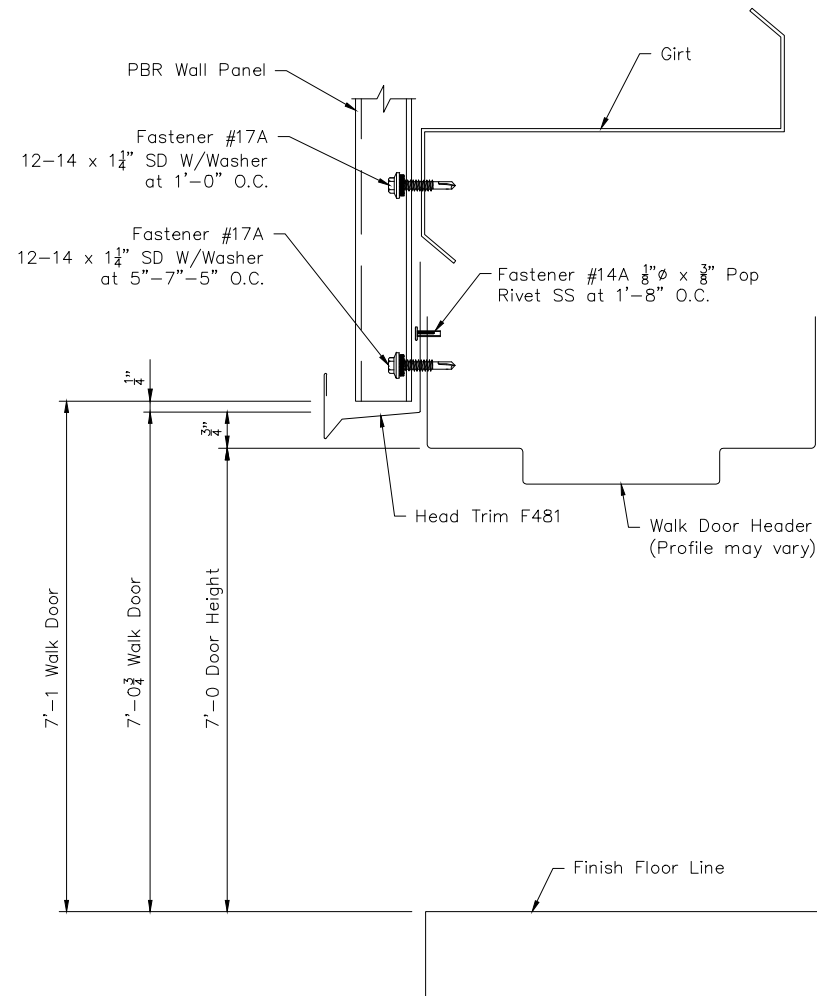
Page PW09031
Date Mar '20 Rev 07



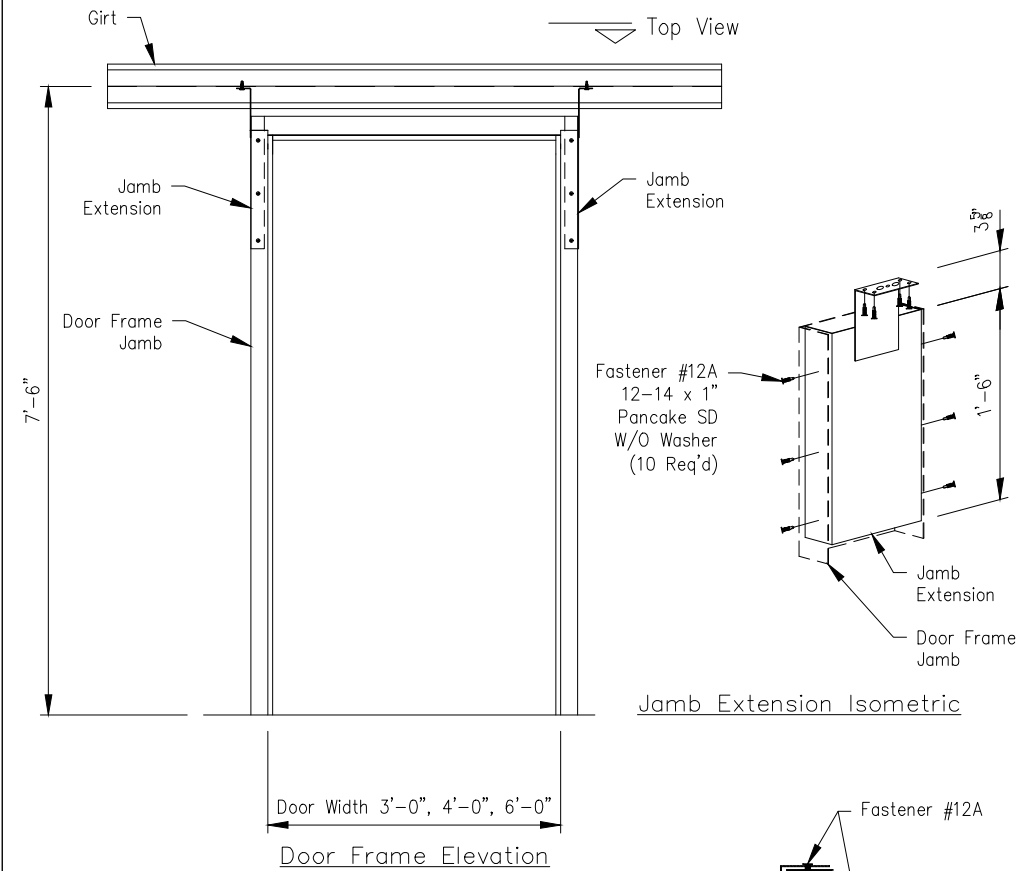
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN			OWNER:	KEN KAPPERMAN		
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET22	A

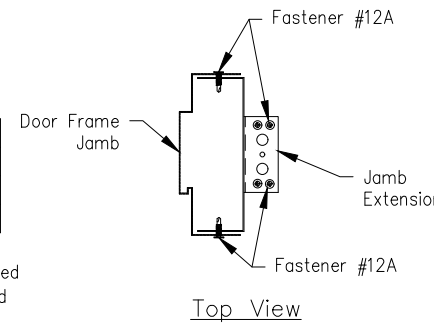


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.



Piece Mark	Description	Color	Weight Each
HW9582	Jamb Extension WR 8 1/4"	Unpainted	3#
HW9876	Jamb Extension WR 10 1/4"	Unpainted	3#
HW9877	Jamb Extension WR 12 1/4"	Unpainted	3#

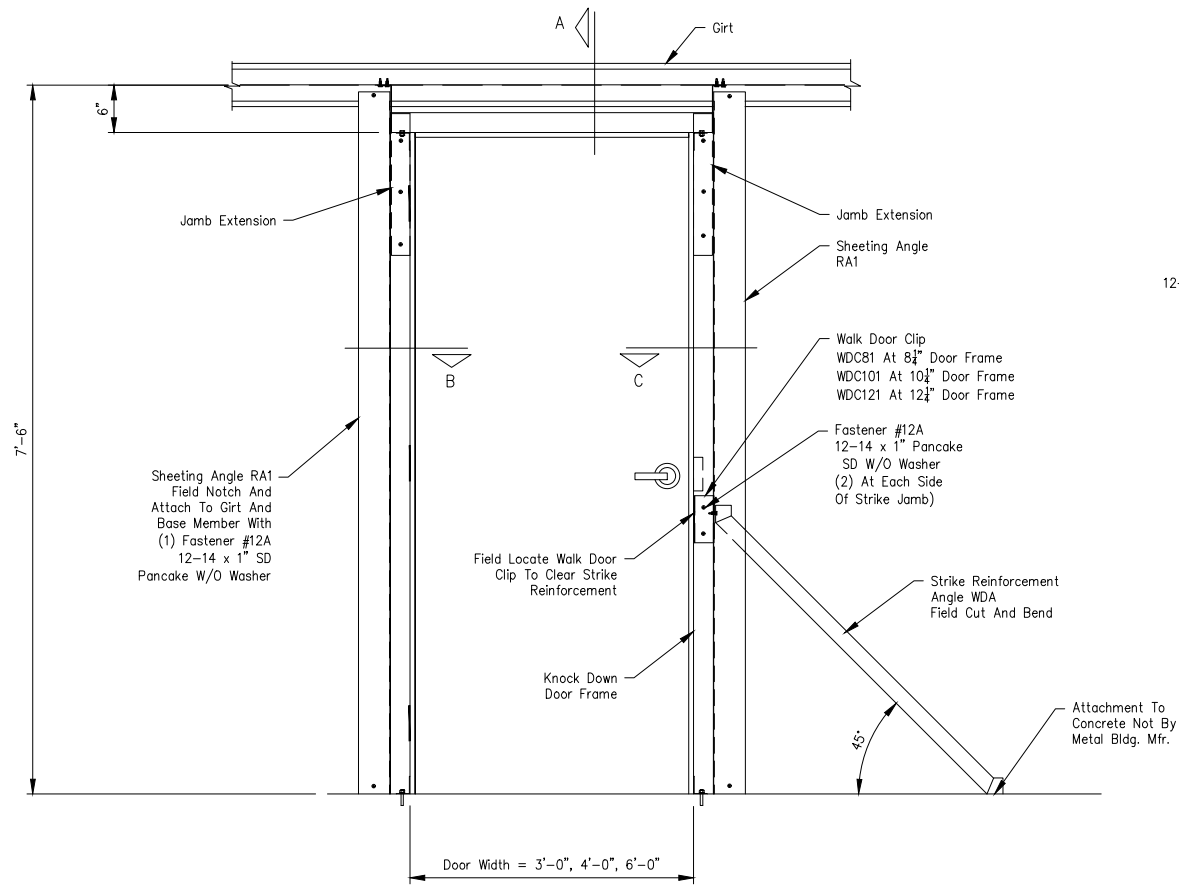
Jamb Extensions Are A Vendor Fabricated Item And Are Required For All Knock Down Doors. (2) Are Required For Each Door And Are Listed On The Bill Of Materials.
For Girt Elevations Above 7'-6" Refer To AC05132 For Jamb Extension Requirements.



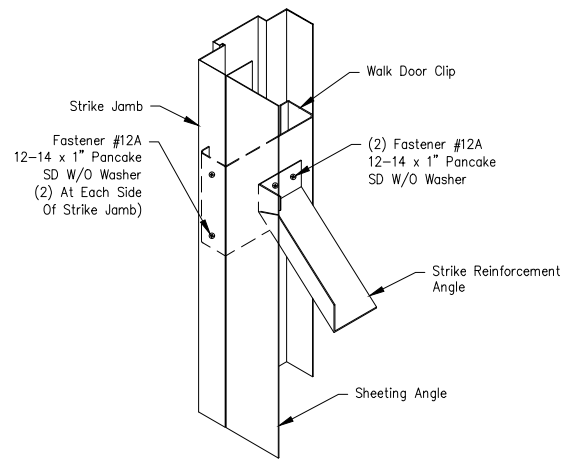
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

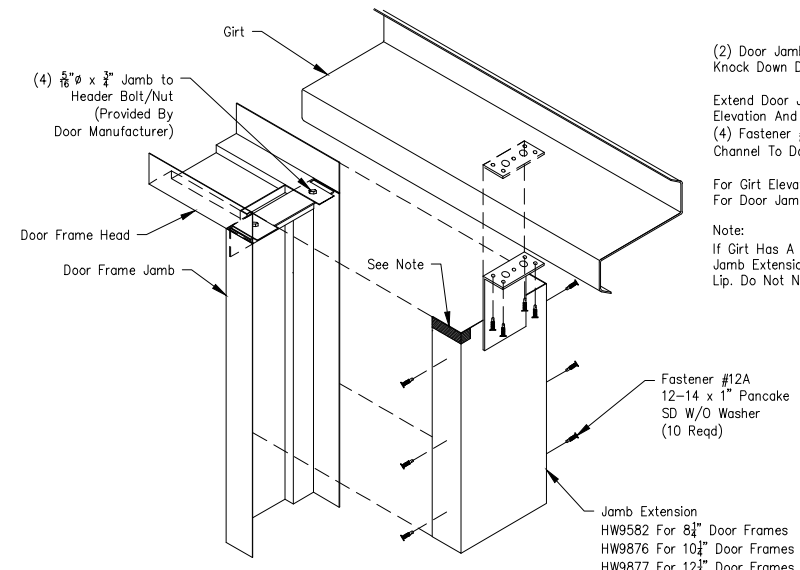
PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN		LOCATION: SUN VALLEY, NV 89433-7859 US					
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET23	A



Door Elevation

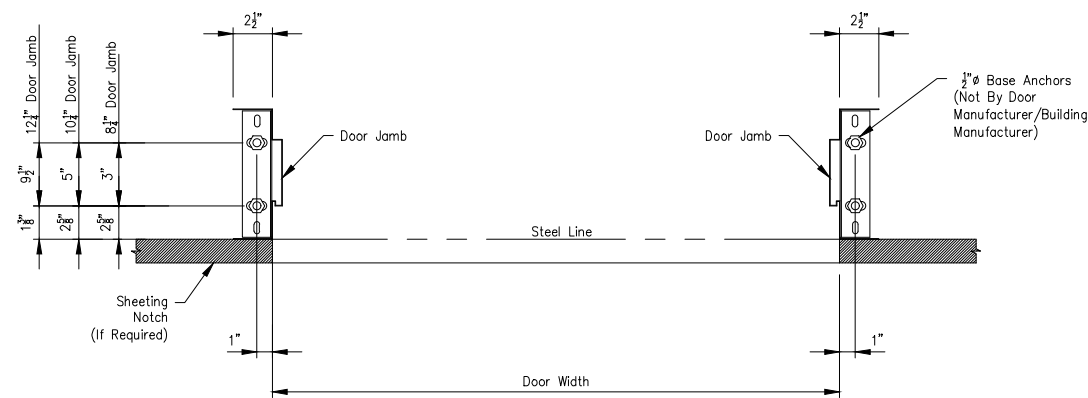


Walk Door Clip/Strike Reinforcement Angle Isometric



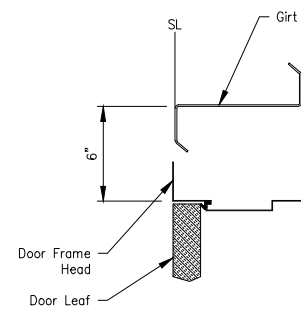
Door Jamb Extension Isometric

(2) Door Jamb Extensions Are Required For All Knock Down Doors.
 Extend Door Jamb Extension To The 7'-6" Girt Elevation And Attach To The Web Of The Girt With (4) Fastener #12A, Attach Door Jamb Extension Channel To Door Jamb With (6) Fastener #12A.
 For Girt Elevations Above 7'-6" Refer To AC05132 For Door Jamb Extension Requirements.
 Note:
 If Girt Has A 3/4" Flange, Field Notch Jamb Extension Channel To Clear Girt Lip. Do Not Notch Girt Lip.

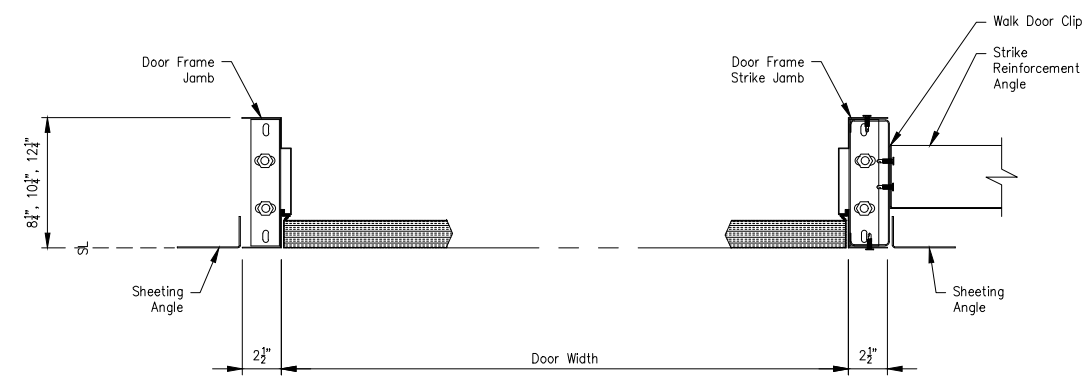


Knock Down Door Anchor Placement

The Adequacy Of The 3/4" Base Anchor Is Not The Responsibility Of The Building Manufacturer. The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.
 Verify Door Jamb Base Clip Dimensions With Patterns Shown Prior To Placement Of Door Anchors And Adjust Patterns If Needed.
 Note: 12 1/4" Frames May Not Have Kerf Door Frame Feature Depending On Door Manufacturer.



Section A



Section B

Section C

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
 5230 CARROLL CANYON RD STE 300
 SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
 CUSTOMER: KEN KAPPERMAN OWNER: KEN KAPPERMAN
 LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET24	A

NOTE:
If additional purlins occur between purlins shown in the isometric view add 9 Fastener #43L and 8 ft. of Tri-Bead Tape Sealer HW504 for each additional purlin.

HW1490 (*)
PBR Light Transmitting Panel Insulated
Length: 11'-0"
Color: White (Unpainted)

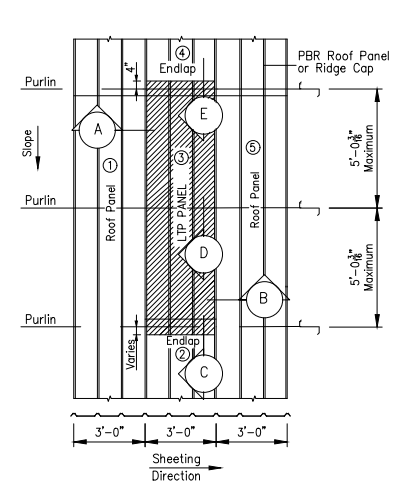
(*) HW1490 is not UL 90 Rated Approved

- Fastener #44L 1/4-14 x 3/8" LL SD w/ 1/8" Washer
Color: Polar White
26 Required for Each LTP Sidelap Fastener
- Fastener #43L 1/4-14 x 1 1/4" LL SD w/ 1/8" Washer
Color: Polar White
18 Required for Each LTP LTP to Purlin Fastener
- Fastener #3 12-14 x 1 1/4" LL SD w/Washer
Color: Match Roof Panel Color/Finish
9 Required for Each LTP
- HW504 At Endlaps And Mid-Span Purlin
Tri-Bead Tape Sealer 7/8" Wide x 3/16 x 25' 24 ft. Required for Each LTP
- HW507 at Sidelaps
Tape Sealer 1/2" Wide x 3/32 x 50' 25 ft. Required for Each LTP

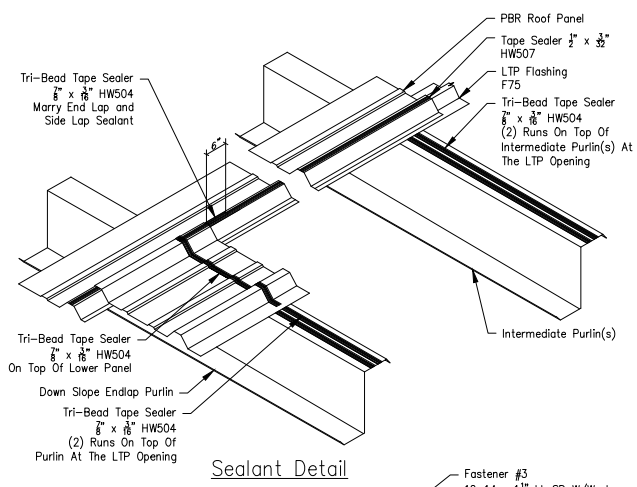
PBR Light Transmitting Panel Assembly Parts

GENERAL NOTES:
1. The light transmitting panels are not designed or intended to bear the weight of any person walking, stepping, standing, or resting on them. THE MANUFACTURER DISCLAIMS ANY WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, that any person can safely walk, step, stand, or rest on or near the light transmitting panels, or that they comply with any OSHA regulation. It is the Users responsibility to ensure that the installation and use of the light transmitting panels comply with State, Federal and OSHA regulations and laws, including, but not limited to, guarding all light transmitting panels with screens, fixed standard railings, or other acceptable safety controls that prevent fall-through.
2. Insulated light transmitting panels should not be cut in the field. See Section C and E for Endlap Details.
3. It is suggested to pre-drill the light transmitting panels before installing fasteners. This will help prevent fractures which may cause possible leaks.
4. Remove drill shavings and metal filings from the surface of the panels at the end of each work day. Rust caused by these items can destroy the panel finish and void warranties.

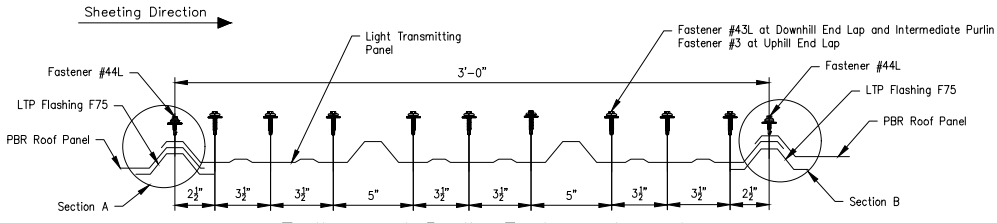
INSTALLATION NOTES:
1. Apply (2) runs of Tape Sealer HW504 side by side on top of the down slope and intermediate purlins at the LTP opening.
2. Install roof panel and insulation according to standard procedures up to the desired location of the LTP shown on the "ROOF SHEETING PLAN". Install the LTP Flashing F75 at both sides of the LTP opening. Apply double face tape to the sides of the LTP Flashing F75 to secure the insulation see Sections A and B.
3. Install insulation above and below the LTP opening. Apply double face tape to the purlins to secure the insulation see Sections C and E.
4. Apply Tape Sealer HW507 at the panel sidelap as shown in Section A and the isometric view.
5. Apply Tape Sealer HW504 on top of the lower roof panel endlap (panel 2) and extend Tape Sealer HW507 6" over the top of the roof panel sidelap Tape Sealer HW507. See Section C and the isometric view.
6. Apply Tape Sealer HW507 on top of the LTP sidelap and Tape Sealer HW504 at upper endlap. Extend Tape Sealer HW507 6" over the top of the lower roof panel sidelap Tape Sealer HW507 and the upper roof panel endlap (panel 4). See section E and the isometric view.
7. Attach LTP panel at sidelaps with sidelap fastener at 10" o.c. and endlaps and purlins as shown in "Endlap and Purlin Fastener Layout".



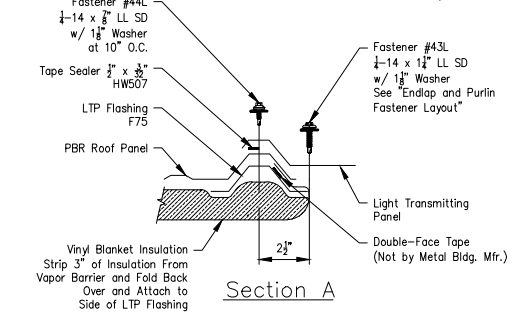
Standard LTP Location
See GPR25102 for Standard Placement Guidelines



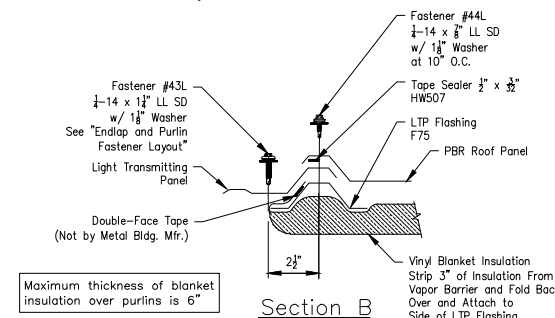
Sealant Detail



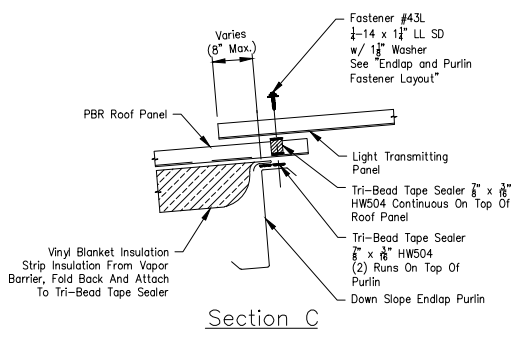
Endlap and Purlin Fastener Layout



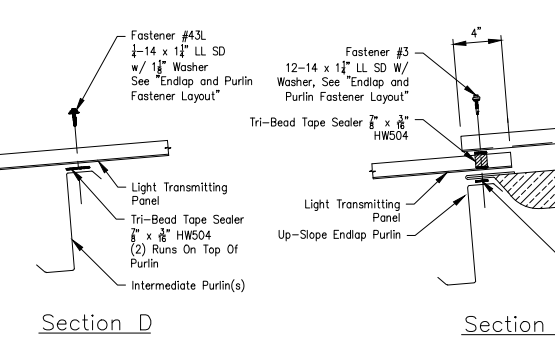
Section A



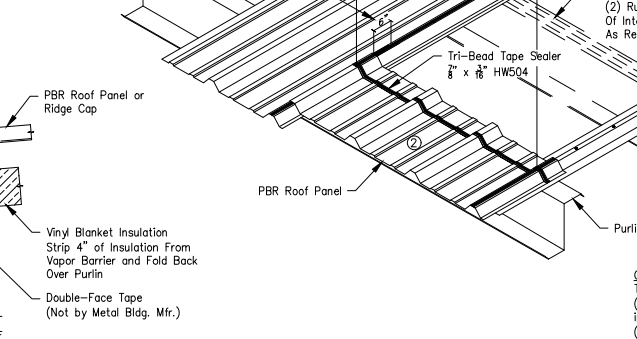
Section B



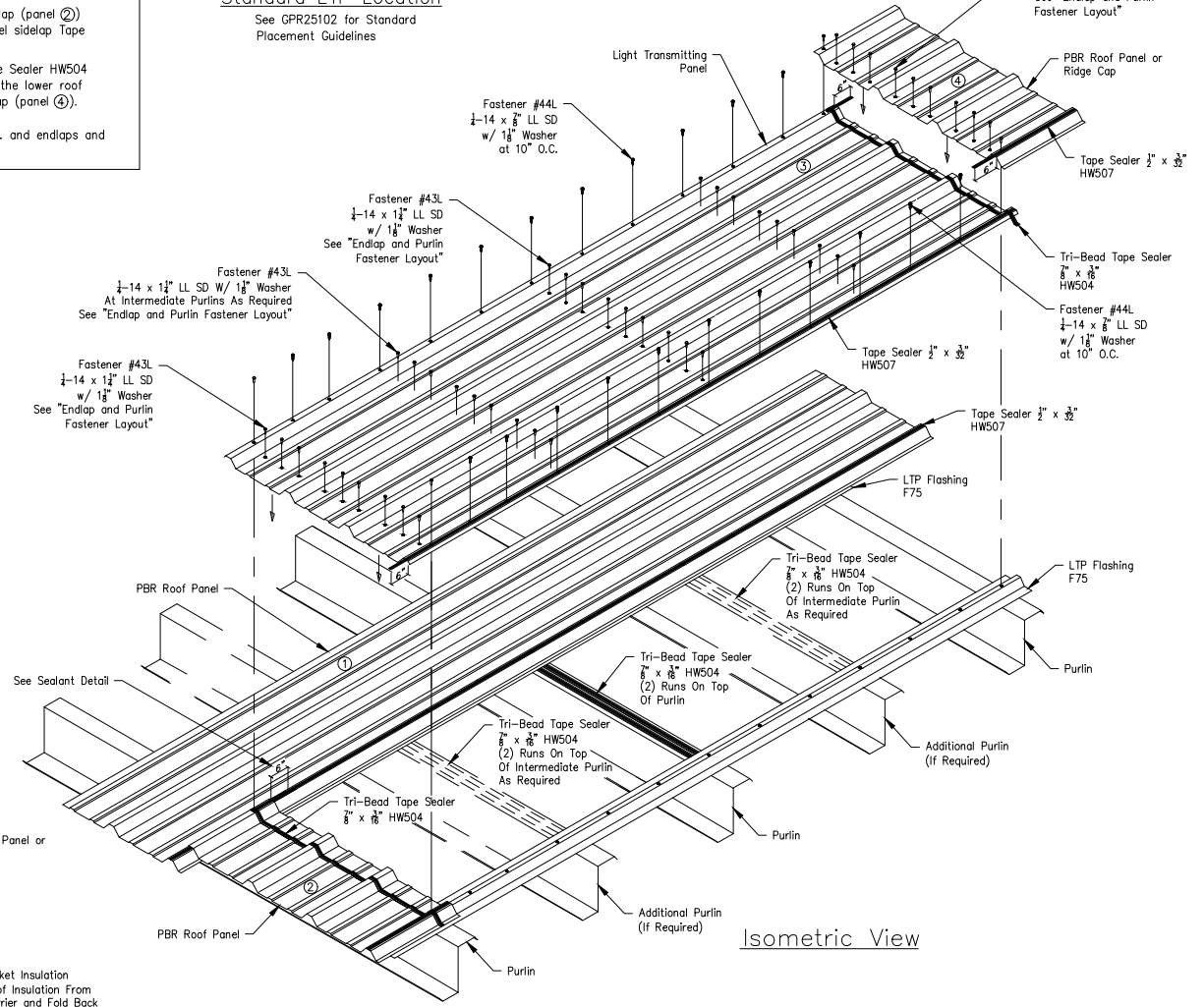
Section C



Section D



Section E



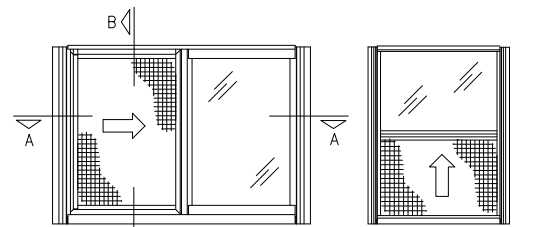
Isometric View

Caution:
The following are examples of conditions that may cause condensation on Light Transmitting Panels
(A) Projects where outside winter temperatures below 40° F are anticipated and where average winter interior relative humidity of 45% or greater is expected.
(B) Building usages with high humidity interiors, such as indoor swimming pools, textile manufacturing operations, food, paper or other wet process industrial plants.
(C) Construction elements that may release moisture after the roof is installed, such as interior concrete and masonry, plaster finishes, and fuel burning heaters. The Building Manufacturer is not responsible for determining if condensation will be an issue on any particular application.

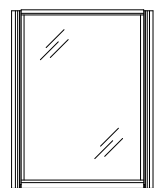
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

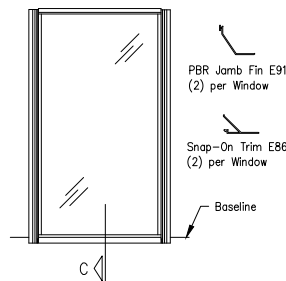
PROJECT:	KAPPERMAN, KEN						
CUSTOMER:	KEN KAPPERMAN	OWNER: KEN KAPPERMAN					
LOCATION:	SUN VALLEY, NV 89433-7859 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET25	A



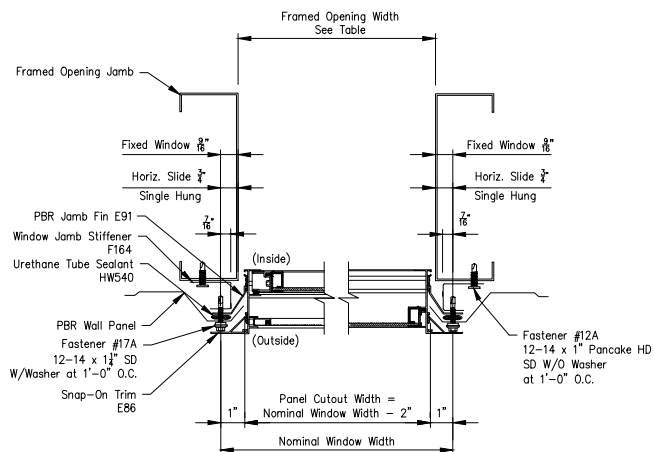
Horizontal Slide Window Single Hung Window



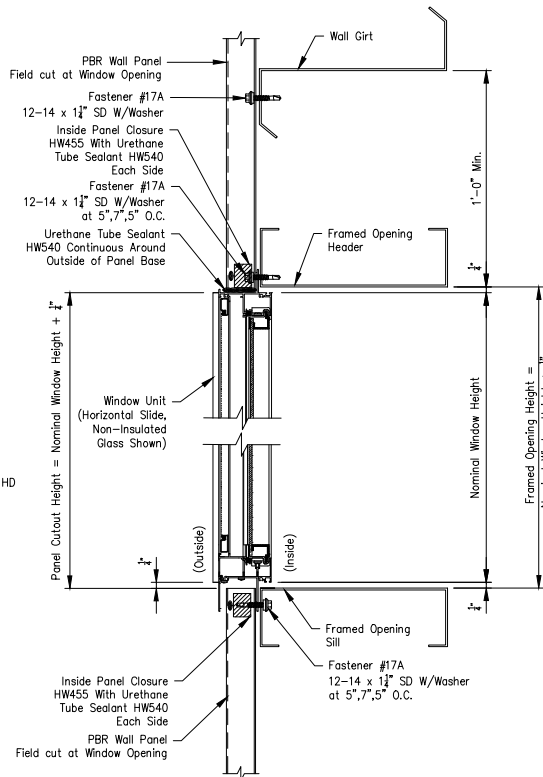
Fixed Window
(FW2056, FW2060, FW3040, FW4040)



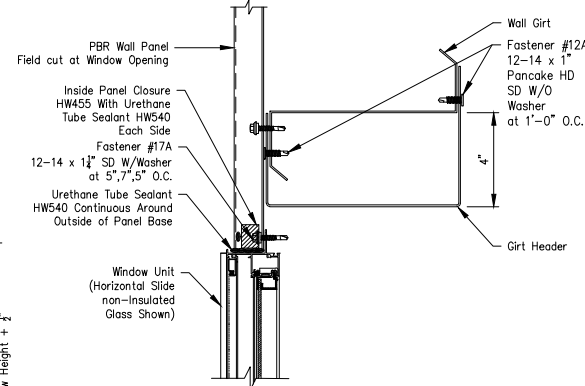
Fixed Window
(FW1070, FW2070)



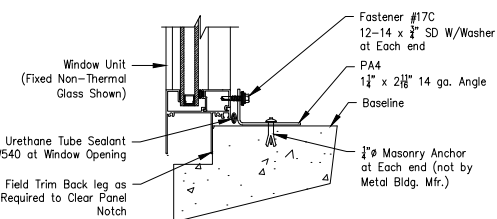
Section A - Jamb PBR Panel



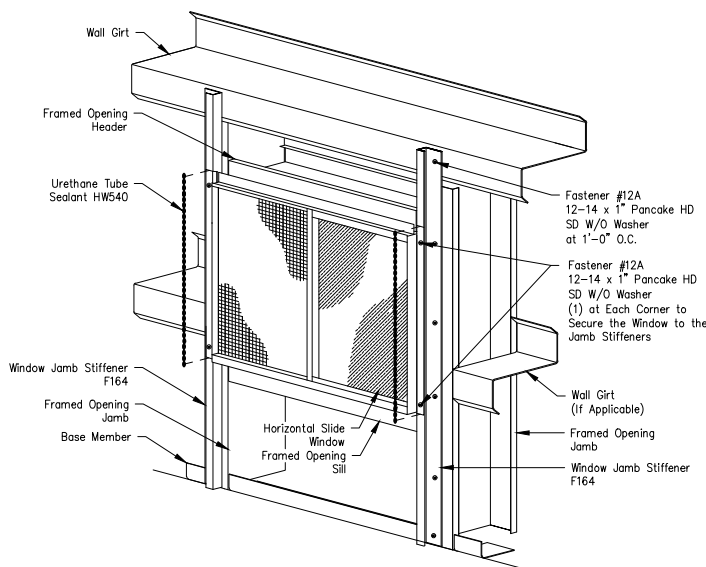
Section B - Head/Sill



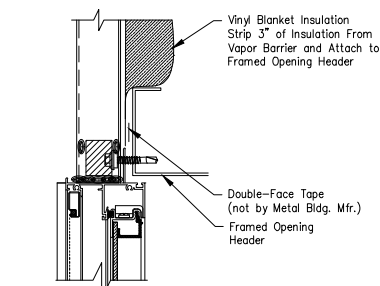
Section B - Head with Girt Header



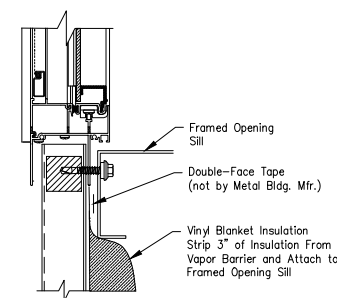
Section C - Sill at Baseline



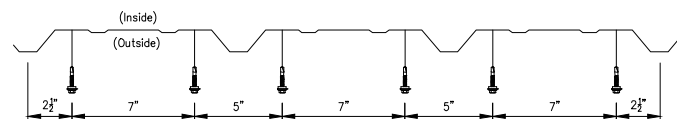
Framed Opening/Window Isometric



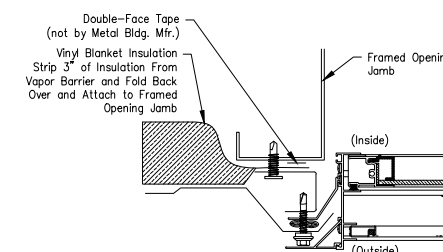
Insulation Section at Window Head



Insulation Section at Window Sill



Fastener Spacing at Head and Window Sill



Insulation Section at Window Jamb

Installation Notes:

See reference drawings for framed opening installation.

Window jamb fins are designed for installation at major panel ribs only. Typically windows are located between the 7'-6" girt and the baseline of the applicable wall.

Windows are typically packaged with two PBR Jamb Fins E91 that are not installed on the window unit. Prior to window installation, install the jamb fins into the extruded grooves on each side of the window by sliding the fin in from the bottom of the window. The jamb fin should end flush with the top of the window head fin.

As the wall panels are installed, locate jamb stiffeners at the framed opening jamba. Attach jamb stiffeners to framed opening jamba with Fastener #12A at 1'-0" O.C. Major panel ribs should be located at jamb stiffeners, see Section A and Framed Opening/Window Isometric. Locate and mark panels from the outside of the building, see Panel Cutout table for cutout width and height. Make sure the panel cutout height is correct and panel is cut square. Push window up until the window head contacts the upper wall panels. Make sure window is square and level. Attach window unit with jamb fins installed to jamb stiffeners with Fastener #12A at each corner. Apply Urethane Tube Sealant HW540 to both jamb fins, see Framed Opening/Window Isometric.

Apply Urethane Sealant to both sides of the inside panel closure and insert the closures between the wall panel and insulation at the window head and sill, see Section B.

Attach window head and sill to wall panels with Fastener #17A at 5", 7", 5" O.C., see Fastener Spacing at Window Head and Sill. Note: Fasteners are installed from the inside of the building at the window sill. Attach wall panels to window jamb fins/jamb stiffeners with Fastener #17A at 1'-0" O.C., see Section A.

Apply Urethane Tube Sealant HW540 along both sides between the window jamba and the wall panel to close any gaps. From the outside apply a continuous bead around the outside of the panel profile at the panel base, see Section B.

Install Snap-On Trim E86 at each jamb.

Window ID	Panel Cutout		Framed Opening Size		
	Horizontal Slide	Horizontal Slide	Horizontal Slide	Horizontal Slide	
	Width	Height	Width	Height	
HS2016	1'-10"	1'-6 1/2"	1'-10"	1'-6 1/2"	
HS3020	2'-10"	2'-0 1/2"	2'-10"	2'-0 1/2"	
HS3030	2'-10"	3'-0 1/2"	2'-10"	3'-0 1/2"	
HS3040	2'-10"	4'-0 1/2"	2'-10"	4'-0 1/2"	
HS4030	3'-10"	3'-0 1/2"	3'-10"	3'-0 1/2"	
HS4040	3'-10"	4'-0 1/2"	3'-10"	4'-0 1/2"	
HS5030	4'-10"	3'-0 1/2"	4'-10"	3'-0 1/2"	
HS6020	5'-10"	2'-0 1/2"	5'-10"	2'-0 1/2"	
HS6030	5'-10"	3'-0 1/2"	5'-10"	3'-0 1/2"	
HS6040	5'-10"	4'-0 1/2"	5'-10"	4'-0 1/2"	
		Single Hung		Single Hung	
Window ID	Width	Height	Width	Height	Height
H3030	2'-10"	3'-0 1/2"	2'-10"	3'-0 1/2"	3'-0 1/2"
H3040	2'-10"	4'-0 1/2"	2'-10"	4'-0 1/2"	4'-0 1/2"
H3050	2'-10"	5'-0 1/2"	2'-10"	5'-0 1/2"	5'-0 1/2"

Window ID	Panel Cutout		Framed Opening Size	
	Fixed	Fixed	Fixed	Fixed
	Width	Height	Width	Height
FW1070	0'-10"	7'-0 1/2" (*)	0'-10"	7'-0 1/2" (*)
FW2056	1'-10"	5'-6 1/2"	1'-10"	5'-6 1/2"
FW2060	1'-10"	6'-0 1/2"	1'-10"	6'-0 1/2"
FW2070	1'-10"	7'-0 1/2" (*)	1'-10"	7'-0 1/2" (*)
FW3040	2'-10"	4'-0 1/2"	2'-10"	4'-0 1/2"
FW4040	3'-10"	4'-0 1/2"	3'-10"	4'-0 1/2"

Details shown are for horizontal slide windows. Single hung and fixed window installation details are similar.

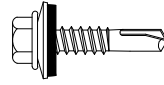
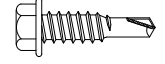



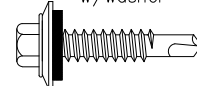
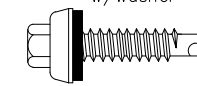
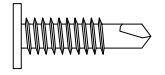

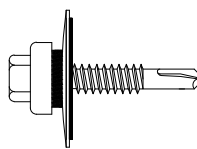
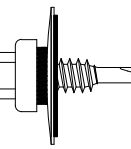
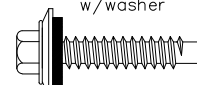
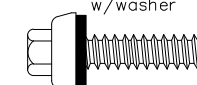
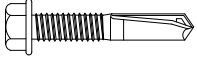

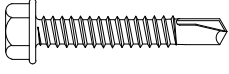
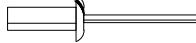


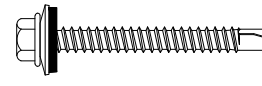

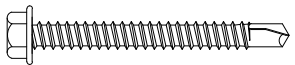
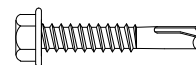
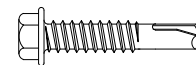
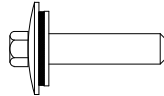
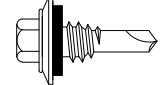
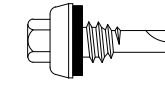
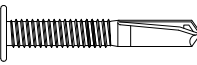
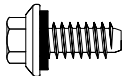
(*) Dimension is from baseline

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN
CUSTOMER: KEN KAPPERMAN
OWNER: KEN KAPPERMAN
LOCATION: SUN VALLEY, NV 89433-7859 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET26	A

Various Fasteners			Fasteners			PBR, PBU, AVP, Vistashadow, RBR, RBU Panel Fasteners			
Page G000009			Page G000004			Page G000006			
Date Nov '16 Rev 11			Date Jul '17 Rev 05			Date May '19 Rev 09			
Fastener #17 12-14 x 1" SD W/Washer 5/16" Hex Head 	Fastener #38 1/4-14 x 7/8" SD W/O Washer 5/16" Hex Head 		Fastener #14  1/8" x 3/16" Pop Rivet Stainless Steel	Fastener #14A  1/8" x 3/8" Pop Rivet Stainless Steel	Fastener #24  8 x 5/8" Nibbed Driller	Wall Fasteners Member Screw Fastener #17A 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 	Roof Fasteners Long Life (Optional at Wall) Member Screw Fastener #3 12-14 x 1 1/4" 5/16" Hex Washer Head w/washer 		
	Fastener #12A 12-14 x 1" Pancake SD W/O Washer 		Fastener #35  #14 x 1 1/8" O.D. Bonded Washer	Fastener #43L  L.T.P. Member Screw (Long Life) 1/4"-14 x 1 1/4" 5/16" Hex Washer Head W/ 1 1/8" O.D. Washer	Fastener #44L  L.T.P. Stitch Screw (Long Life) 1/4"-14 x 7/8" 5/16" Hex Washer Head W/ 1 1/8" O.D. Washer	Member Screw Optional Fastener #17B 12-14 x 1 1/2" 5/16" Hex Washer Head w/washer 	Member Screw Optional Fastener #3A 12-14 x 1 1/2" 5/16" Hex Washer Head w/washer 		
Fastener #55 12-24 x 1 1/4" SD DP5 W/O Washer 5/16" Hex Head 	Fastener #70 12-24 x 1 1/2" SD DP5 W/O Washer 5/16" Hex Head 	Fastener #142 1/4-14 x 1 1/2" SD W/O Washer 5/16" Hex Head 	Fastener #226  3/16" x 9/16" Closed End Rivet	Fastener #228  10 x 1/2" Grommet Washer	Fastener #271  8-18 x 1/2" Trim Screw	Member Screw Optional Fastener #28 12-14 x 2" 5/16" Hex Washer Head w/washer 	Member Screw Optional Fastener #58 12-14 x 2" 5/16" Hex Washer Head w/washer 		
Fastener #76 12-14 x 2" SD W/O Washer 5/16" Hex Head 	Fastener #61 12-14 x 1 1/4" SD W/O Washer 5/16" Hex Head 	Fastener #1B 1/4-14 x 1 1/4" SD W/O Washer 5/16" Hex Head 	Fastener HW399  #6 x 1" Rubber Grommet 1/4" Hex Head w/ Washer			Stitch Screw Fastener #4A 1/4-14 x 7/8" 5/16" Hex Washer Head w/washer 	Stitch Screw Fastener #4 1/4-14 x 7/8" 5/16" Hex Washer Head w/washer 		
Fastener #16 12-24 x 1 1/2" Pancake SD DP5 W/O Washer 	NOTE: Refer to Bill of Materials for Specific job Requirements	Fastener #46 1/4-14 x 3/8" LL ST Type B W/Washer 5/16" Hex Head 	Note: Refer to bill of materials for specific job requirements.			NOTE: Refer to bill of materials for specific job requirements			

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	4/26/22	FOR CONSTRUCTION PERMIT	ZMM	ZMM	CM

EMPIRE STEEL BUILDINGS
5230 CARROLL CANYON RD STE 300
SAN DIEGO, CA 92121-1781 US

PROJECT: KAPPERMAN, KEN		OWNER: KEN KAPPERMAN					
CUSTOMER: KEN KAPPERMAN							
LOCATION: SUN VALLEY, NV 89433-7859 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	4/26/22	N.T.S.	1	A	18-B-52164	DET27	A