Rhino Steel Bldg. Systems

4305 I-35 NORTH
DENTON, TX. 76207

PHONE:
(940) 383-9566 (888) 320-7466

FAX:
(940) 484-6746

DRAWING INDEX

BUILDING DESCRIPTION

BUILDING SIZE: 100.00' x 220.00' x 16.00' *SLOPE:* 2.0:12
BUILDING SIZE: _____ *SLOPE:* _____
BUILDING SIZE: _____ *SLOPE:* _____
BUILDING SIZE: _____ *SLOPE:* _____

(BUILDING DIMENSIONS ARE NOMINAL, REFER TO PLANS)

This is to certify that this structure is designed utilizing the loads indicated and applied as required by the building code shown below. The certification is limited to the structural design of the framing and covering parts manufactured by the building manufacturer and is specified in the contract. Accessory items such as doors, window, louvers, translucent panels, and ventilators are not included. Also excluded are other parts of the project not provided by the building manufacturer such as foundations, masonry walls, mechanical equipment and erection of the building. The building should be erected on a properly designed foundation in accordance with the building manufacturer's design manual, the attached drawings and good erection practices.

Design Code IBC 15

General Loads		
Roof Dead Load (D)	3.000	psf
Roof Collateral Load (C)	1	psf
Roof Live Load (Lr)	30.00	psf
Tributary Live Load Reduction	No	
Snow Load		
Flat-Roof Snow Load (Pf)	84.7000	psf
Ground Snow Load (Pg)	110.0000	psf
Snow Exposure Factor (Ce)	1	
Snow Load Importance Factor (Is)	1.0000	
Thermal Factor (Ct)	1.10	
Wind Load		
Wind Speed (V 3S)	N/A	
Wind Speed (Vult & Vasd)	115.0000 mph	89.0785 mph
Occupancy / Risk Category	II - Normal	
Wind Exposure Category	C	
Internal Pressure Coefficient (GCpi)	+/- 0.18	
Wind Enclosure	Closed	
Wind Importance Factor	N/A	
Seismic Load		
Seismic Importance Factor (Ie)	1.00	
Spectral Response Accelerations (Ss and S1)	0.2700	0.0740
Site Class	D	
Spectral Response Coeffecients (Sds and Sd1)	0.2851	0.1184
Seismic Design Category	B	
Basic Seismic-Force-Resisting System(s) *		
	Longitudinal	Lateral
Total Design Base Shear (V)	52.19 Kips	52.16 Kips
Seismic Response Coefficient(s) (Cs)	0.0951	0.0951
Response Modification Factor(s) (R)	3.0000	3.0000
Analysis Procedure: Equivalent Lateral Force		

* Steel Systems Not Specifically Detailed For Seismic Resistance

PANEL, TRIM AND FRAMING INFORMATION

ROOF PANELS

TYPE: PBR GAUGE: 26 COLOR: Need Std. Color
UL90 CERTIFICATION: No
INSULATION: 6 in. (By Others)
MASTIC: Standard

WALL PANELS

TYPE: PBR GAUGE: 26 COLOR: Need Std. Color
INSULATION: 4 in. (By Others)

WAINSCOT PANELS

TYPE: PBR GAUGE: 26 COLOR: Need Std. Color

SOFFIT PANELS

TYPE: PBR GAUGE: 26 COLOR: Need Std. Color

TRIM

RAKE:	COLOR: Need Std. Color
EAVE:	COLOR: Need Std. Color
GUTTER:	COLOR: Need Std. Color
DOWNSPOUT:	COLOR: Need Std. Color
VALLEY GUTTER:	COLOR:
HEADER:	COLOR: Need Std. Color
SILL:	COLOR: Need Std. Color
JAMB:	COLOR: Need Std. Color
BASE TRIM:	COLOR: Need Std. Color
CORNER:	COLOR: Need Std. Color
LINER:	COLOR:
SOFFIT:	COLOR:
FASCIA SILL:	COLOR:
CAP TRIM:	COLOR:

PRIMARY FRAMING

(MAIN FRAMES & ENDWALL FRAMES) Red-Oxide
(WIND COLUMNS & BENTS)

SECONDARY FRAMING

(GIRTS, EAVE STRUTS, PURLINS Red-Oxide
DOOR/FRAMED OPNG. & CLIPS ETC.)

DN2
For permit: These drawings, being for permit, are by definition not final in that, as a minimum, piece marks are not identified. Only drawings issued 'For Construction? can be considered as complete.

DN9
Loads, as noted, are as given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for local provisions that may apply or for site specific parameters. The manufacturer's engineer's certification is limited to designs supplied by and/or engineer of record for the overall construction project.

DN10
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.

DN15
20% roof snow load has been utilized for determination of seismic design forces.

DN18
"X"-Bracing is to be installed to a taut condition with all slack removed. Do not tighten beyond this state.

DN28
The framed opening support members provided are designed ONLY for wind load forces exerted "normal (perpendicular) to the opening". No additional loads are included.

Registration # F-12852

IAS Certification Accredited
Certification # MB-188

DSN. APR.
ARR. DATE

COLORADO LICENSED
PATRICK W. DARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

These drawings and the metal building they represent are the product of Schulte Building Systems- 17600 Badtke Road, Hockley, Texas, 77447. The engineer whose seal appears hereon is employed by Schulte Building Systems and is not the engineer of record for this project.

DRAWING STATUS

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

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4305 I-35 NORTH DENTON, TX. 76207
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FAX (940) 484-6746

DESCRIPTION	COVER PAGE				SIZE	REFER TO C1		
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	ENGR BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (Area)	SHEET NO.	ISSUE
JGA	JJG	8/ 9/18	N.T.S.	142578			C1 of 2	A

GENERAL NOTES

1. The seal that appears on these drawings is the seal of the engineer for this building manufacturer who is NOT the engineer of record.
2. This building manufacturer is not responsible for errors, omissions or damages incurred in the erection of building components, nor for the inspection of erected components to ascertain same.
3. Temporary bracing must be installed by erector to provide adequate stability during erection. Bracing indicated on the erection drawings is critical to the stability of the completed structure and shall not be removed.
4. Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels is prohibited.
5. "Oil-canning", a perceived waviness inherent to light gauge metal, may exist. This condition does not affect the finish or structural integrity of the panel, and is therefore not a cause for rejection.
6. Trim part marks are as shown: ex. FL-32-20'-2"
   - FL = trim identification number
   - 32 = trim length in feet and inches.

APPROVAL NOTES

The following conditions apply in the event that these drawings are used as approval drawings:
A) It is imperative that any changes to these drawings:
   1) Be made in contrasting ink.
   2) Have all instances of change clearly indicated.
   3) Be legible and unambiguous.
B) Dated signature is required on all pages.
C) Manufacturer reserves the right to re-submit drawings with extensive or complex changes required to avoid misfabrications. This may impact the delivery schedule.
D) Approval of these drawings indicates conclusively that the manufacturer has correctly interpreted the contract requirements, and further constitutes agreement that the building as drawn, or as drawn with indicated changes represents the total of the materials to be supplied by manufacturer.
E) Any changes noted on the drawings not in conformance with the terms and requirements of the contract between manufacturer and its customer are not binding on manufacturer unless subsequently specifically acknowledged and agreed to in writing by change order or separate documentation. Manufacturer recognizes that rubber stamps are routinely used in indicating approval, disapproval, rejection, or mere review of the drawings submitted. However, manufacturer does not accept changes or additions to contractual terms and conditions that may appear with the use of a stamp or similar indication of approval, disapproval, etc. Such language applied to the manufacturer's drawings by the customer, architect, engineer, or any other party will be considered as unacceptable alterations to these drawing notes, and will not alter the contractual rights and obligations existing between manufacturer and its customer.

SAFETY COMMITMENT

The building manufacturer has a commitment to manufacture quality building components that can be safely erected, however, the safety commitment and job site practices of the erector are beyond the control of the building manufacturer. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, state and federal safety and health standards, whether standard statutory or customary, should always be followed to help insure worker safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees. Daily meetings highlighting safetyprocedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.

BOLT TIGHTENING

The proper tightening and inspection of all fasteners is the responsibility of the erector. All high strength (A325, A490) bolts and nuts must be tightened by the "turn-of the nut" method unless otherwise specified by the end customer in the contract documents. Inspection of high strength bolt and nut installation by other than the erector must also be specified in the contract documents and the erector is responsible for ensuring that the installation and inspection procedures are compatible prior to the start of erection. (MBMA 2006 iv 6.9)

BUILDER/CONTRACTOR RESPONSIBILITIES

It is the responsibility of the builder/contractor to insure that all project plans and specifications comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that the building manufacturer or its design engineer is acting as the engineer of record or design professional for a construction project. The contractor must secure all required approval and permits from the appropriate agency as required. Approval of the manufacturer's drawings and calculations indicate that the building manufacturer correctly interpreted and applied the requirements of the contract drawings and specifications. (sect. 4.4.1 AISC code of standard practices, 13th ed.) Where discrepancies exist between the manufacturer's structural steel plans and the plans for other trades, the structural steel plans shall govern. (sect. 3.3 AISC code of standard practice 13th ed.) Design considerations of any material in the structure which are not furnished by the building manufacturer are the responsibility of the contractors and engineers other than the building manufacturer's engineer unless specifically indicated. The contractor is responsible for all erection of steel and associated work in compliance with the building manufacturer's "for erection installation" drawings. Products shipped to builder or his customer shall be inspected by builder immediately upon arrival. Claims for shortages or defective material, if not packaged, must be made to the manufacturer in writing within five (5) days after receipt of the shipment. However, if a defect is of such nature that reasonable visual inspection would fail to disclose it, then the claim must be made within five (5) days after the builder learns of the defect. The manufacturer will not be liable for any defect unless claim is made one (1) year after date of the original shipment by the manufacturer to builder or his customer. The manufacturer will be given a reasonable opportunity to inspect defective materials upon receipt of claim by builder. If a defect is of such nature that it can be remedied by a field operation at the job site without the necessity of returning the material to the manufacturer, then upon written authorization of the manufacturer, the builder may repair or cause the material to be repaired and the manufacturer will reimburse the builder for the cost of the repair in accordance with the written authorization. Unless noted otherwise, all bracing as shown and provided by the manufacturer for this building is required and shall be installed by the erector as a permanent part of the structure. Temporary supports, such as temporary guys, braces, false work, cribbing or other elements required for the erection operation will be determined and furnished and installed by the erector. These temporary supports will secure the steel framing, or any partly assembled steel framing, against loads comparable in intensity to those for which the structure was designed, resulting from wind, seismic forces and erection operations, but not the loads resulting from the performance of work by or the acts of others, nor such unpredictable loads as those due to tornado, explosion or collision. (sect. 7.10.3 AISC code of standard practice, 13th ed.) Design of gutter and downspout is a function of the rainfall intensity and area to be drained. Design parameters utilized are in accordance with the 2006 low rise building systems manual and/or the 12th edition of the architectural graphic standards, as applicable. Proper owner maintenance dictates that the drainage system be kept free of debris and/or ice at all times to ensure proper function of the gutter and downspout. In those cases where the owner/tenant of a property is unwilling or unable to provide proper maintenance, elimination of gutter should be considered as an alternative.

PRODUCT CERTIFICATION

The building manufacturer is member of the Metal Building Manufacturers Associations.
The building manufacturer's fabrication and products are covered by one or more of the following certification:
1. Approved fabricator of prefabricated buildings and components. Reference IAS(MB-188)
2. City of Houston approved fabricator (registration no. 721)

International Building Code (IBC)

Material properties of steel plate used in the fabrication of primary rigid frames, and primary structural exclusive of cold-formed sections, conform to ASTM-A529 or A-572. Flanges with thickness of 1"or less and width of 12"or less conformed to A-529 with minimum yield point of 55,000 PSI. Flanges greater than ½"in thickness and 12" in width conformed to A-572 with min. yield point of 50,000 PSI. Flanges with a thickness greater than 1" thick and a width less than 12" conform to A-572 with a min. yield point of 50,000 PSI. Material properties of pipe sections conform to ASTM-A53 type E, Grade B with a min. yield point 35,000. Material properties of hot rolled steel members conform to the requirements of ASTM-A992 or A-572 with a min. yield point of 50,000 PSI. Material properties of cold formed light gauge steel members conform to ASTM-A1011 Grade 55 with a min. yield point of 55,000 PSI.
Materials properties of roof/wall sheeting, base material conform to ASTM-A792 Grades 50 or 80 with min. yield point of 50,000 PSI an 80,000 PSI respectively, as required by design Coating & base material is 55% aluminum-zinc alloy in accordance with AZ55 for unpainted or AZ50 for painted specification.Cable utilized for bracing conforms to ASTM A475.Cable bracing is to be installed to a tout condition with all slack removed. Rod & angle utilized for bracing members conform to ASTM A36.
Structural joints with ASTM A-325 high strength bolts, where indicated on the drawings, shall be assembled and the fasteners tightened in accordance with the bolt tightening procedure per MBMA '96 IV 6.9. All joints will be assembled without washers unless otherwise noted.
All steel members except bolts, fasteners & cable shall receive one shop coat of iron oxide corrosion inhibitive primer, meeting the performance requirements of SSPC paint Specification #15.
Shop & field inspections and associated fees are the responsibility of the contractor, unless stipulated otherwise in the contract.

Packing List: 12345

Ship To: LUIS MARTINEZ
5487 FM 744
PAWNDE, TX, 71576

Truck ID: EXPRESS

Carton ID	Piece Mark	Description	Dims/Qty	Length	Unit Weight	Gross Weight	Order#	Line#	CustPO#
C128590		BUILDING SERVICE	0x0x0			661			
	RF1-1	BUILT UP SECTION	2	8' 3-7/16"	124.0	248	12345	1	896790
	RF1-2	BUILT UP SECTION	2	10' 7-5/8"	154.0	308	12345	2	896790
	RF2-1	BUILT UP SECTION	1	8' 3-7/16"	125.0	125	12345	3	896790
C128845		BUILDING SERVICE	0x0x0			190			
	EC-1	ENDWALL COLUMN 8X35C16	2	9' 10-15/16"	27.5	55	12345	8	896790
	EC-2	ENDWALL COLUMN 8X35C16	2	11' 3-7/16"	33.3	67	12345	9	896790
	ER-1	ENDWALL RAFTER 8X35C14	2	8' 9-5/8"	25.1	50	12345	10	896790
	ER-2	ENDWALL RAFTER 8X35C14	2	8' 9-5/8"	25.1	50	12345	11	896790
----PA12E9697B4-		26ga PBR DESERT SAND PANEL SMP	178x0x0			222			
	LEFT ENDWALL	26GA PBR ENDWALL PANEL	2	14' 9-1/2"	39.5	79	12345	35	896790
	LEFT ENDWALL	26GA PBR ENDWALL PANEL	2	13' 9-1/2"	37.0	74	12345	39	896790
	LEFT ENDWALL	26GA PBR ENDWALL PANEL	2	12' 9-1/2"	34.5	69	12345	41	896790
----C127443-BUNDLE ZEE		BUNDLE ZEE	0x0x0			190			
	G-1	ZEE 8 X 2-3/8 X 2-1/8 16GA RED OXIDE	4	4' 7-1/2"	12.7	51	12345	17	896790
	G-2	ZEE 8 X 2-3/8 X 2-1/8 16GA RED OXIDE	2	12' 7-1/2"	35.0	70	12345	18	896790
	G-3	ZEE 8 X 2-3/8 X 2-1/8 16GA RED OXIDE	4	4' 3-1/2"	11.7	47	12345	19	896790
	G-4	ZEE 8 X 2-3/8 X 2-1/8 16GA RED OXIDE	1	8' 1-1/2"	22.0	22	12345	20	896790
----C127089-WAREHOUSE		WAREHOUSE BOX 1	0x0x0			222			
		R PANEL OUTSIDE CLOSURE STRIP 36"	22		0.0	1	12345	81	896790
		TUBE CAULKING SILICONE CLEAR 10.3 OZ TUBE	14		1.1	16	12345	83	896790
		12 X 1-1/4 SELF DRILLING CARBON SCREW LIGHT STONE	750		0.0	15	12345	91	896790
----C126431-trim box 1		trim box 1	21x0x0			149			
		FL-31 26GA EAVE TRIM - (ALL PANELS) - LIGHT STONE SMP	2	20' 2"	13.5	27	12345	59	896790
		FL-21 26GA SCULTURE RAKE END - ("R PANEL) LIGHT STONE SMP	4	15' 3"	22.2	89	12345	60	896790
		FL-10 26GA CORNER TRIM - OUTSIDE ("R" AND "A" PANEL) DESERT SAND SMP	4	10' 0"	8.2	33	12345	63	896790

Page 1

PACKING LIST EXAMPLE

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE

DATE	CARRIER	BILL OF LADING #
10/07/11	JOE TRUCKING	54321

SHIPPER AND ORIGIN	CONSIGNEE AND DESTINATION
ABC BUILDINGS 17612 BROWN RD HOUSTON, TX	BOB'S BUILDING c/o LARRY UNDERWOOD 3387 DELTA RD HUEYTOWN, AL 35023 County of:
Route: Phase: Load: Trailer # 50582 Tracking # Freight PO# 41433	Order # 12345 Ship Status: Order Type: ABC Building Addl Order #s

COD AMOUNT: $0.00

FOR FREIGHT COLLECT SHIPMENTS: Subject to section 7 of conditions of applicable Bill of Lading, if the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and other lawful charges.

# PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	WEIGHT	CLASS OR RATE
1	LOT MISC. BUILT UP / STRUCTURAL / COLD FORM / PANEL / TRIM / CANOPY / 2 BUNDLES OF RED & GALV ANGLE	35260	

Carrier: Print Name: _____ Tractor #: _____ TOTAL WEIGHT (LBS) 35,260

RECEIVED, subject to the classifications and the tariffs in effect on the date of issue of the Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents in packages unknown), marked, consigned and destined as indicated above, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery, as said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any part of said property over all of any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Straight Bill of Lading set forth (1) in the National Motor Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Any alteration, addition, or erasure in this bill of lading shall be made with the special notation hereon of the party assuming this Bill of Lading shall be without effect in the absence of such notation, and this Bill of Lading shall be enforceable according to its original tenor.

THIS MATERIAL MUST BE DELIVERED BY: _____

Receiver Signature: _____ Date Picked Up: _____ Time: _____

	The property described above is in apparent good order, except as noted (contents and condition in packages unknown), marked, labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation.
	Consignee's Signature: _____ Date: _____

BILL OF LADING EXAMPLE

COLD FORM AND PANEL LABEL

Customer: ABC CONSTRUCTION
Customer PO Number: 07522
Carton ID: PA12E9697B4
Job Number: 12345

PART NAME	DESCRIPTION	LENGTH	QTY
LEFT ENDWALL	26 GA. PBR SIDEWALL PANEL	14' 9-1/2"	2
LEFT ENDWALL	26 GA. PBR SIDEWALL PANEL	13' 9-1/2"	2
LEFT ENDWALL	26 GA. PBR SIDEWALL PANEL	12' 9-1/2"	2

TRIM PIECE LABEL

Piece Mark: FL-31 — Job Number: 12345
Length: 20' 2" — Line Number: L-59

TRIM BUNDLE AND WAREHOUSE LABEL

Carton ID: C126431
Customer: ABC CONSTRUCTION
Job Number: 12345

BUNDLE LABEL EXAMPLES

BUILT UP, STRUCTURAL AND FAB. COLD FORM LABEL

Job Number: 12345
Piece Mark: RF1-1

PIECE LABEL EXAMPLES

DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

DRAWING STATUS

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A	8/13/18	FOR PERMIT	JGA	DC

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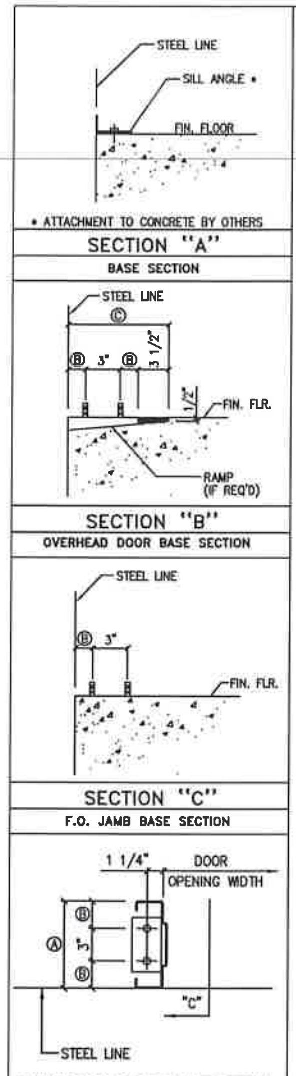
Rhino Steel Bldg. Systems
4300 I-35 SOUTH
DENTON, TX. 76207
PHONE: (940) 383-9393 (866) 350-7466
FAX: (940) 484-6746

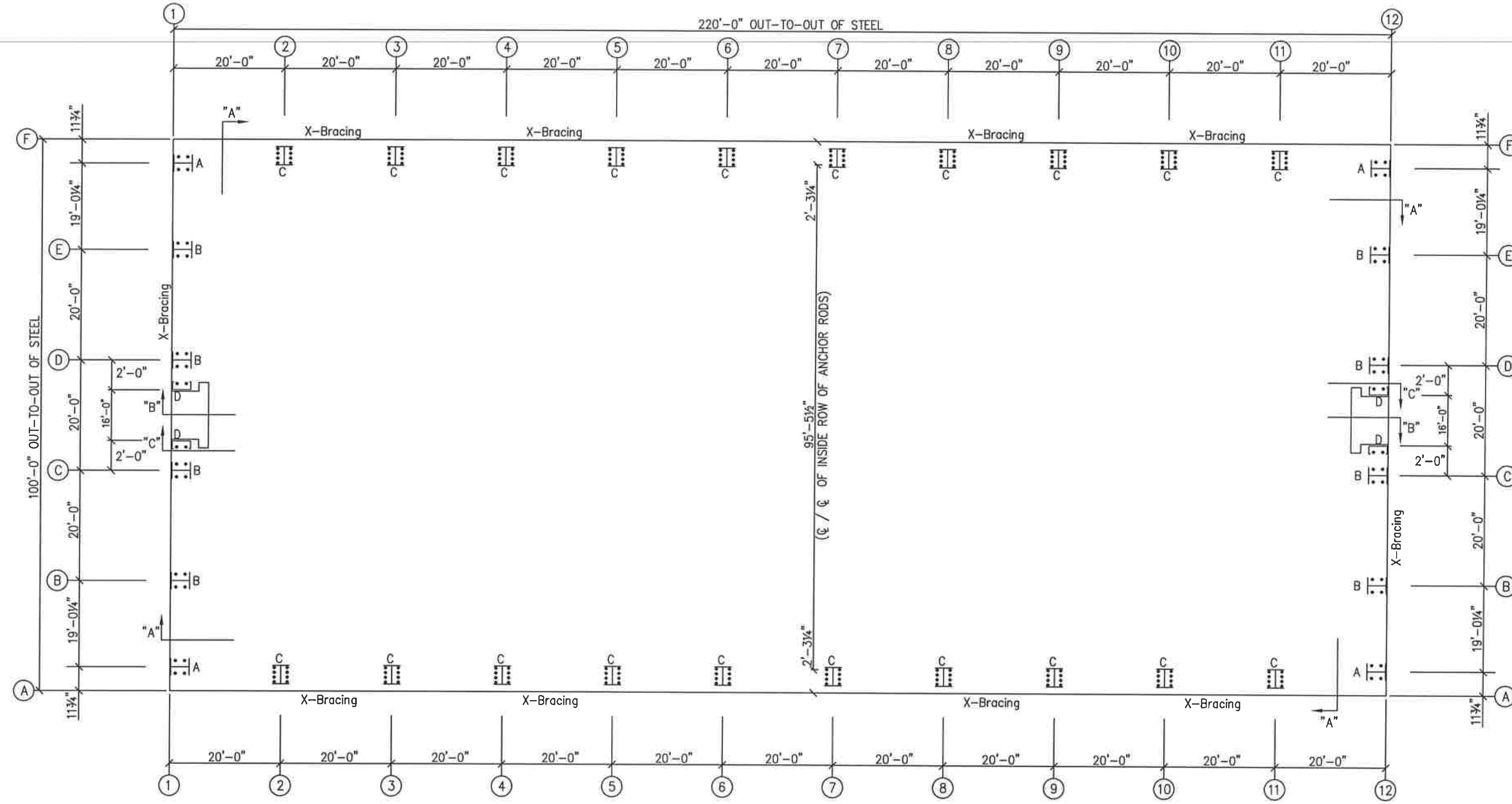
DESCRIPTION	COVER PAGE				SIZE	REFER TO C1			
OWNER OR PROJECT	Dwayne Osadchuk								
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467								
CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (Acad)	SHEET NO.	ISSUE
JGA	JJG	8/ 9/18	N.T.S.	142578			C2 of 2	A



WALKDOOR BASE PLATE DETAIL

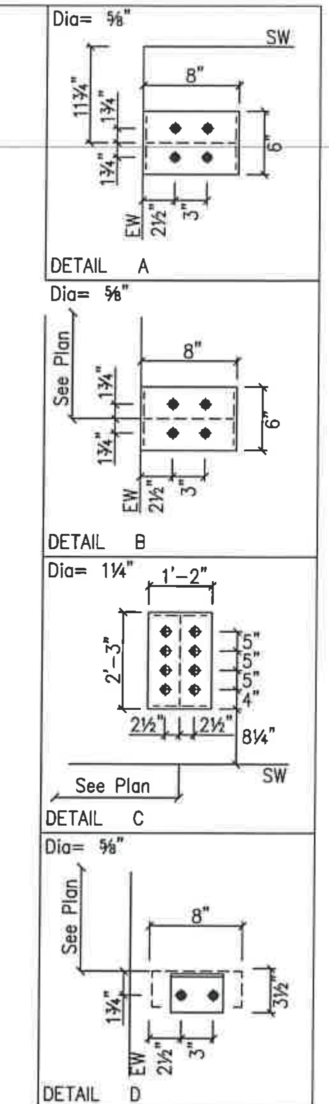
A. RODS 1/2"Ø | BASE PL THK. 1/4"

Girt Width	Walk Door Frame Ⓐ	Dim. Ⓑ	Ramp Width Ⓒ
8"	8"	2 1/2"	11 1/2"
10"	10"	3 1/2"	1'-1 1/2"
12"	12"	4 1/2"	1'-3 1/2"



ANCHOR ROD PLAN

NOTE: All Base Plates @ 100'-0" (FINISH FLOOR)(UNLESS NOTED)

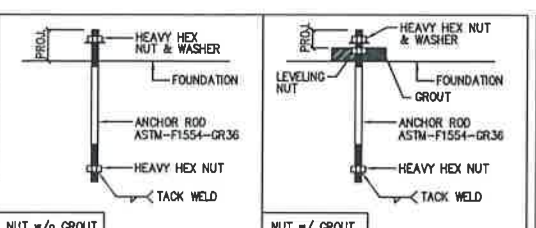


ANCHOR RODS HAVE BEEN DESIGNED FOR SHEAR AND TENSION LOADS ONLY, PER APPENDIX D OF ACI 318-08.

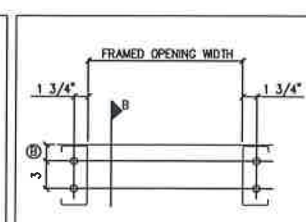
DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER AND PROVIDED BY OTHERS.

ANCHOR ROD PROJECTION IS FROM BOTTOM OF BASE PLATE, UNLESS GROUT IS REQUIRED.

DIA.	PROJ.
1/2"	1 1/2"
5/8"	2"
3/4"	2 1/2"
7/8"	3 1/2"
1"	3 1/2"
1 1/4"	3 1/2"



ANCHOR RODS (BY OTHERS)



FRAMED OPENING ANCHOR ROD DETAIL

A. RODS 5/8"Ø | BASE PL THK. 1/4"

F.O. SIZE	QTY.	SHOP LOCATE	FIELD LOCATE	TYPE/REMARKS
16'-0" X 14'-0"	2	X		FOR O.H. DOOR

FRAMED OPENING SCHEDULE

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Sealed: 8/17/18

DSN. APR. | APR. DATE

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REVISIONS

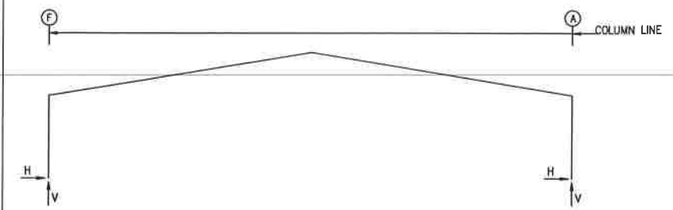
NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

DESCRIPTION	ANCHOR ROD PLAN			SIZE	REFER TO C1			
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL, OAK CREEK, CO 80467							
CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC.	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			F1 of 2	A

FRAME LINES: 2 3 4 5 6 7 8 9 10 11



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
2*	F	1	87.6	100.0	2	−7.4	−8.0	8	1.250	14.00	27.00	0.625	0.0
					4	−4.3	−8.1						
2*	A	3	7.4	−8.0	1	−87.6	100.0	8	1.250	14.00	27.00	0.625	0.0
		1	−87.6	100.0	5	4.3	−8.1						

2* Frame lines: 2 3 4 5 6 7 8 9 10 11

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis
L_EW	1	E,D	2.2	2.3	2.6	2.7		
F_SW	A	2,3	2.3	1.6	6.5	4.6		
		4,5	2.3	1.6	6.5	4.6		
		8,9	2.3	1.6	6.5	4.6		
		10,11	2.3	1.6	6.5	4.6		
R_EW	12	B,C	2.2	2.3	2.6	2.7		
B_SW	F	11,10	2.3	1.6	6.5	4.6		
		9,8	2.3	1.6	6.5	4.6		
		5,4	2.3	1.6	6.5	4.6		
		3,2	2.3	1.6	6.5	4.6		

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	= 100.0
Length (ft)	= 220.0
Eave Height (ft)	= 16.0/ 16.0
Roof Slope (rise/12)	= 2.0/ 2.0
Dead Load (psf)	= 3.0
Collateral Load (psf)	= 1.0
Live Load (psf)	= 30.0
Snow Load (psf)	= 84.7
Wind Speed (mph)	= 115.0
Wind Code	= IBC 15
Exposure	= C
Closed/Open	= C
Importance Wind	= 1.00
Importance Seismic	= 1.00
Seismic Zone	= B
Seismic Coeff (Fa*Ss)	= 0.43

ID	Description
1	Dead+Collateral+Snow
2	0.6Dead+0.6Wind_Left1
3	0.6Dead+0.6Wind_Right1
4	0.6Dead+0.6Wind_Long1L
5	0.6Dead+0.6Wind_Long2L
6	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
7	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
8	Dead+Collateral+E1UNB_SL_L
9	0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
10	0.6Dead+0.6Wind_Suction+0.6Wind_Long2L
11	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
12	Dead+Collateral+E1UNB_SL_R
13	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
14	Dead+Collateral+E2UNB_SL_L
15	Dead+Collateral+E2UNB_SL_R

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
1	F	0.6	0.1	3.1	10.8	0.0	−3.5	0.0	−3.0	0.0	−2.6	0.0	−2.1	−1.6
1	E	1.2	0.2	6.7	18.6	2.2	−9.3	0.0	−1.5	2.2	−7.2	0.0	0.7	−3.7
1	D	1.1	0.2	6.0	17.1	0.0	−2.3	2.2	−5.6	0.0	−0.8	2.2	−4.1	−4.5
1	C	1.1	0.2	6.0	17.1	0.0	−2.9	0.0	−4.6	0.0	−1.4	0.0	−3.1	−4.5
1	B	1.2	0.2	6.7	18.6	0.0	−4.2	0.0	−6.9	0.0	−2.1	0.0	−4.8	−3.7
1	A	0.6	0.1	3.1	10.8	0.0	−3.0	0.0	−3.5	0.0	−2.1	0.0	−2.6	−1.6

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	E1UNB_SL_L− Horz	E1UNB_SL_L− Vert
1	F	1.8	0.0	−2.5	0.0	−1.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.7
1	E	4.1	0.0	−5.7	1.1	−5.1	2.6	−2.6	0.0	3.1	0.0	4.5	0.0	21.5
1	D	5.0	1.1	−6.7	0.0	−2.3	0.0	2.6	2.6	−3.0	0.0	4.0	0.1	24.5
1	C	5.0	0.0	−3.5	0.0	−5.4	0.0	0.2	0.0	−0.2	0.0	4.0	0.0	6.7
1	B	4.1	0.0	−4.0	0.0	−7.0	0.0	−0.1	0.0	0.1	0.0	4.5	0.0	5.4
1	A	1.8	0.0	−1.4	0.0	−2.5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2

Frm Line	Col Line	E1UNB_SL_R− Horz	E1UNB_SL_R− Vert
1	F	0.0	2.2
1	E	0.1	5.2
1	D	0.0	6.9
1	C	0.0	24.6
1	B	0.0	21.4
1	A	0.0	6.7

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
12	A	0.6	0.1	3.1	10.8	0.0	−3.5	0.0	−3.0	0.0	−2.6	0.0	−2.1	−1.6
12	B	1.2	0.2	6.7	18.6	2.2	−9.3	0.0	−1.5	2.2	−7.2	0.0	0.7	−3.7
12	C	1.1	0.2	6.0	17.1	0.0	−2.3	2.2	−5.6	0.0	−0.8	2.2	−4.1	−4.5
12	D	1.1	0.2	6.0	17.1	0.0	−2.9	0.0	−4.6	0.0	−1.4	0.0	−3.1	−4.5
12	E	1.2	0.2	6.7	18.6	0.0	−4.2	0.0	−6.9	0.0	−2.1	0.0	−4.8	−3.7
12	F	0.6	0.1	3.1	10.8	0.0	−3.0	0.0	−3.5	0.0	−2.1	0.0	−2.6	−1.6

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
12	A	1.8	0.0	−2.5	0.0	−1.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	6.7
12	B	4.1	0.0	−5.7	1.1	−5.1	2.6	−2.6	0.0	3.1	0.0	4.5	0.0	21.5
12	C	5.0	1.1	−6.7	0.0	−2.3	0.0	2.6	2.6	−3.0	0.0	4.0	0.1	24.5
12	D	5.0	0.0	−3.5	0.0	−5.4	0.0	0.2	0.0	−0.2	0.0	4.0	0.0	6.7
12	E	4.1	0.0	−4.0	0.0	−7.0	0.0	−0.1	0.0	0.1	0.0	4.5	0.0	5.4
12	F	1.8	0.0	−1.4	0.0	−2.5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2

Frm Line	Col Line	E2UNB_SL_R− Horz	E2UNB_SL_R− Vert
12	A	0.0	2.2
12	B	0.1	5.2
12	C	0.0	6.9
12	D	0.0	24.6
12	E	0.0	21.4
12	F	0.0	6.7

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick	Grout (in)
1	F	6	1.1	−1.7	7	−1.0	−1.1	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	6	1.1	−1.7						
1	E	6	2.5	−4.9	7	−2.2	−2.7	4	0.625	6.000	8.000	0.375	0.0
		8	0.0	22.9	6	2.5	−4.9						
1	D	9	3.0	−3.4	7	−2.7	−3.4	4	0.625	6.000	8.000	0.375	0.0
		8	0.0	25.8	9	3.0	−3.4						
1	C	10	3.0	−2.6	11	−2.7	−2.6	4	0.625	6.000	8.000	0.375	0.0
		12	0.0	26.0	10	3.0	−2.6						
1	B	10	2.5	−3.5	11	−2.2	−3.5	4	0.625	6.000	8.000	0.375	0.0
		12	0.0	22.8	10	2.5	−3.5						
1	A	13	1.1	−1.7	11	−1.0	−1.1	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	13	1.1	−1.7						
12	A	6	1.1	−1.7	7	−1.0	−1.1	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	6	1.1	−1.7						
12	B	6	2.5	−4.9	7	−2.2	−2.7	4	0.625	6.000	8.000	0.375	0.0
		14	0.0	22.9	6	2.5	−4.9						
12	C	9	3.0	−3.4	7	−2.7	−3.4	4	0.625	6.000	8.000	0.375	0.0
		14	0.0	25.8	9	3.0	−3.4						
12	D	10	3.0	−2.6	11	−2.7	−2.6	4	0.625	6.000	8.000	0.375	0.0
		15	0.0	26.0	10	3.0	−2.6						
12	E	10	2.5	−3.5	11	−2.2	−3.5	4	0.625	6.000	8.000	0.375	0.0
		15	0.0	22.8	10	2.5	−3.5						
12	F	13	1.1	−1.7	11	−1.0	−1.1	4	0.625	6.000	8.000	0.375	0.0
		1	0.0	11.5	13	1.1	−1.7						

RIGID FRAME: BASIC COLUMN REACTIONS (k)

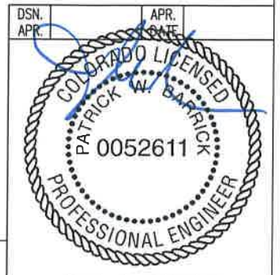
Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2*	F	5.9	7.5	1.0	1.1	28.8	31.2	80.7	91.5	−18.2	−20.8	−11.7	−15.4
2*	A	−5.9	7.5	−1.0	1.1	−28.8	31.2	−80.7	91.5	11.7	−15.4	18.2	−20.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	F	−11.9	−11.9	−5.3	−6.4	−13.1	−21.0	−14.4	−17.4	−2.4	−0.6	2.4	0.6
2*	A	5.3	−6.4	11.9	−11.9	14.4	−17.4	13.1	−21.0	−2.3	0.6	2.3	−0.6

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	−MIN_SNOW− Horiz	−MIN_SNOW− Vert	F1UNB_SL_L− Horiz	F1UNB_SL_L− Vert	F1UNB_SL_R− Horiz	F1UNB_SL_R− Vert
2*	F	0.0	−4.6	19.3	20.0	68.4	83.8	68.1	48.0
2*	A	0.0	−4.6	−19.3	20.0	−68.1	48.0	−68.4	83.8

2* Frame lines: 2 3 4 5 6 7 8 9 10 11

DSN. APR. APR. DATE



Sealed: 8/17/18

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DRAWING STATUS

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems
4265 I-35 NORTH
DENTON, TX 76207
PHONE: (940) 383-8888 (888) 330-7466
FAX: (940) 484-8746

DESCRIPTION	REACTIONS	SIZE	REFER TO C1
OWNER OR PROJECT	Dwayne Osadchuk		
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467		

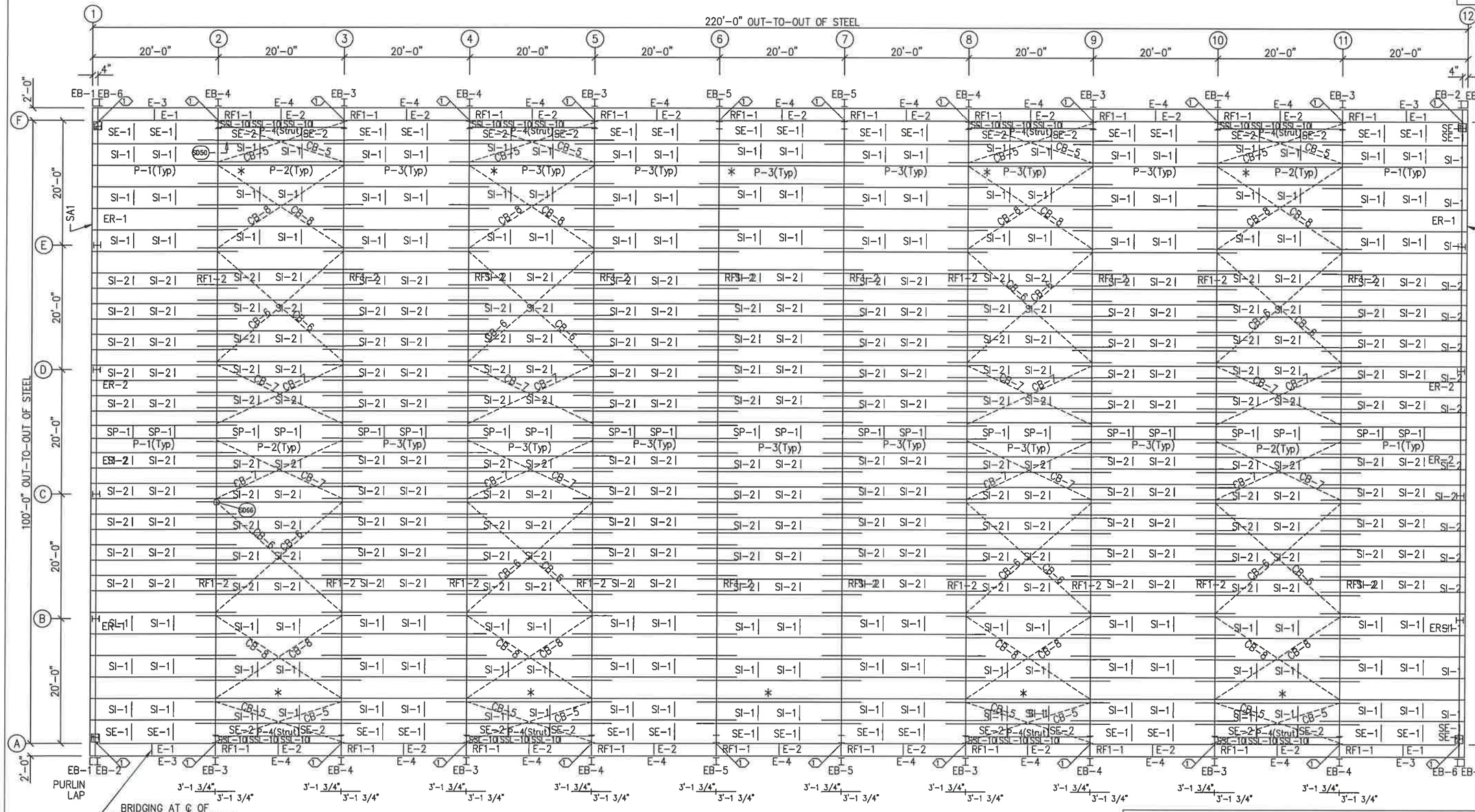
CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (Qty)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			F2 of 2	A

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-2	4	A325	1/2"	1 1/2"
EB-3	4	A325	1/2"	1 1/2"
EB-4	4	A325	1/2"	1 1/2"
EB-5	4	A325	1/2"	1 1/2"
EB-6	4	A325	1/2"	1 1/2"

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

MEMBER TABLE ROOF PLAN	
MARK	PART
EB-1	10X3CH14
EB-2	W10X12
EB-3	W10X12
EB-4	W10X12
EB-5	W10X12
EB-6	W10X12
P-1	10X25Z12
P-2	10X25Z12
P-3	10X25Z14
P-4	10X25Z14
E-1	10.25E12
E-2	10.25E12
E-3	10X35C12
E-4	10X35C12
CB-5	CB0313
CB-6	CB0250
CB-7	CB0250
SP-1	BRZ-1
SI-1	BRZ-1
SI-2	BRZ-1
SE-1	BRZ-1
SE-2	BRZ-1
SSL-10	SSL-10

CONNECTION PLATES ROOF PLAN	
ID	MARK/PART
1	d1
2	d2



ROOF FRAMING PLAN

MISCELLANEOUS ACCESSORIES		
MK.	NO.	DESCRIPTION
	0	N/A

SKYLIGHTS		
MK.	NO.	DESCRIPTION
	148	5'-4" PBR

SWING DOORS		
MK.	NO.	DESCRIPTION
	4	3070 INS. RD

FRAMED OPENINGS			
MK.	NO.	SIZE	DESCRIPTION
	2	16'-0" X 14'-0"	O.H. DOOR

WINDOWS		
MK.	NO.	DESCRIPTION
	0	N/A

VENTILATORS		
MK.	NO.	DESCRIPTION
	0	N/A

DRAWING STATUS

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A	8/13/18	FOR PERMIT	JGA	DC

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DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems
4200 I-35 NORTH
DENTON, TX. 76207
PHONE: (940) 383-5088 (888) 330-7466
FAX: (940) 484-4748

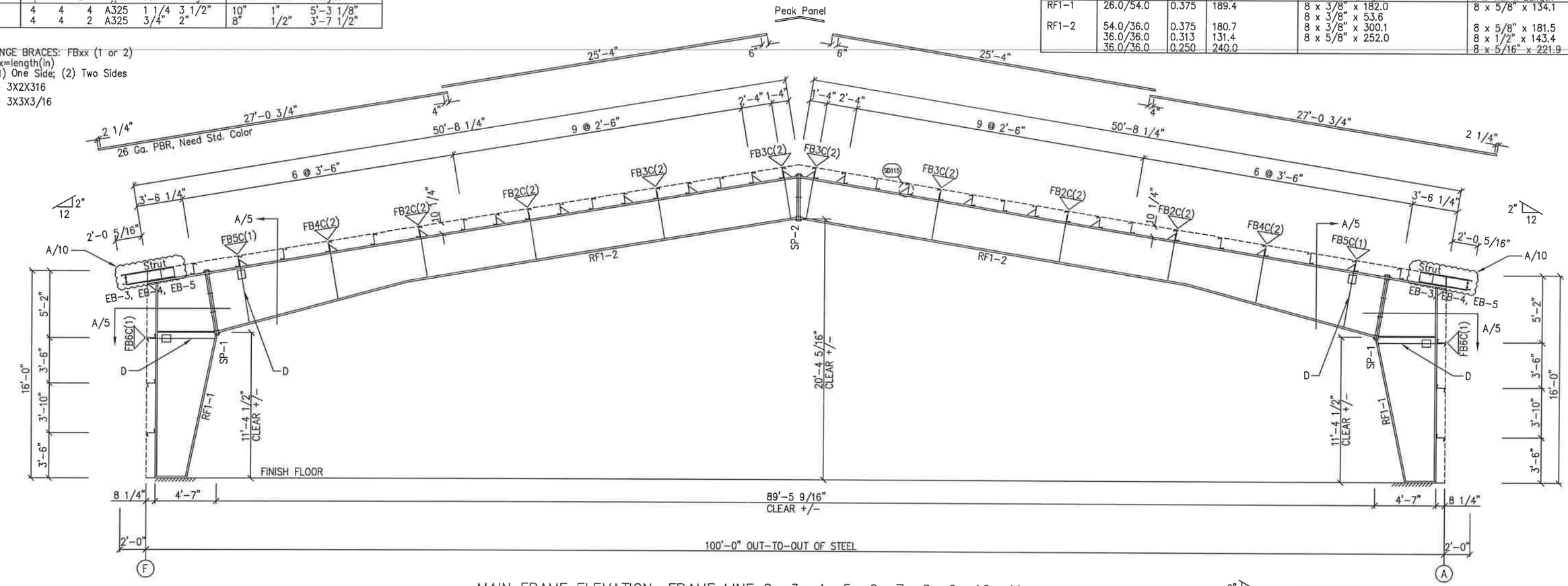
DESCRIPTION	ROOF FRAMING
SIZE	REFER TO C1
OWNER OR PROJECT	Dwayne Osadchuk
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467

CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (AISC)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E1 of 6	A

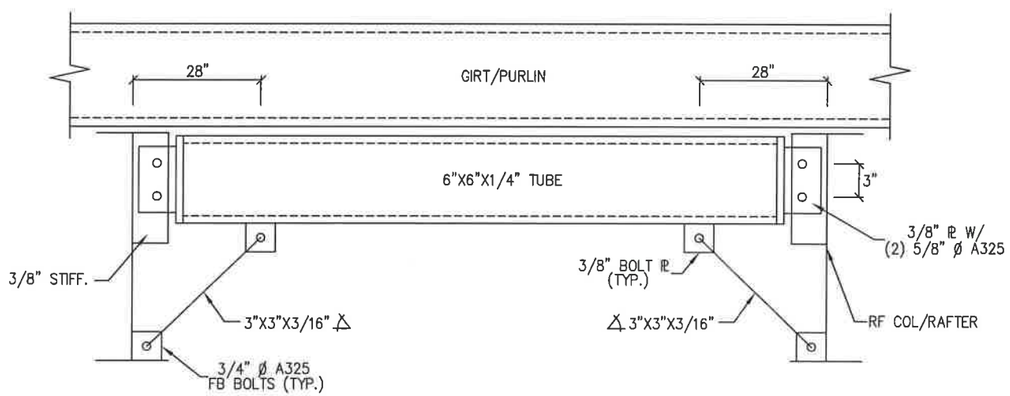
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	4	A325	1 1/4	3 1/2"	10"	1"	5'-3 1/8"
SP-2	4	4	2	A325	3/4"	2"	8"	1/2"	3'-7 1/2"

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	26.0/54.0	0.375	189.4	8 x 3/8" x 182.0 8 x 3/8" x 53.6	8 x 5/8" x 134.1
RF1-2	54.0/36.0	0.375	180.7	8 x 3/8" x 300.1	8 x 5/8" x 181.5
	36.0/36.0	0.313	131.4	8 x 5/8" x 252.0	8 x 1/2" x 143.4
	36.0/36.0	0.250	240.0		8 x 5/16" x 221.9

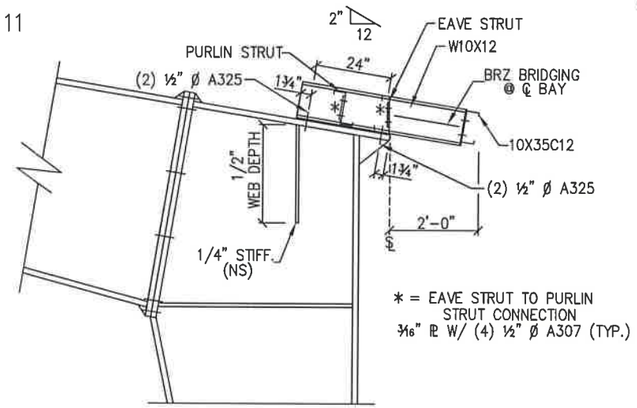
FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
C – 3X2X316
D – 3X3X3/16



MAIN FRAME ELEVATION: FRAME LINE 2 3 4 5 6 7 8 9 10 11



SECTION A/5



SECTION A/10

GENERAL NOTES:
SEE ROOF FRAMING PLAN AND SIDEWALL ELEVATIONS FOR MAIN FRAME PIECE MARKS.

DRAWING STATUS

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NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

These drawings and the metal building they represent are the product of Schulte Building Systems– 17600 Badtke Road, Hockley, Texas, 77447. The engineer whose seal appears hereon is employed by Schulte Building Systems and is not the engineer of record for this project.

DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

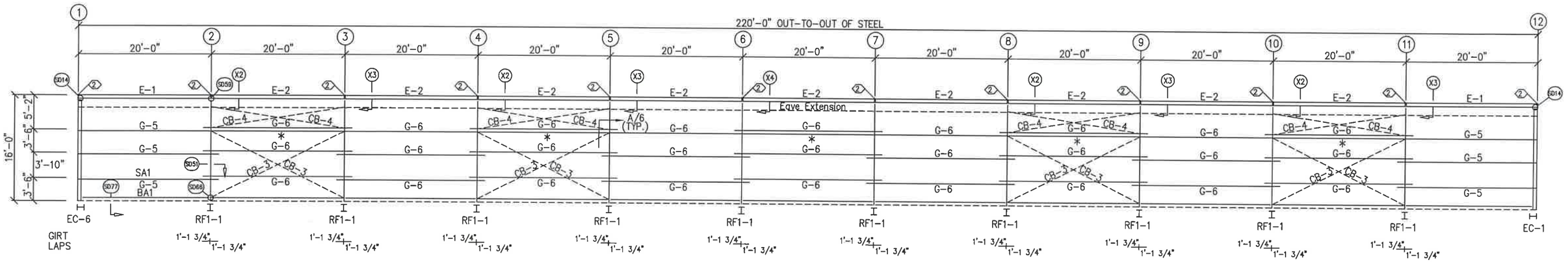
RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

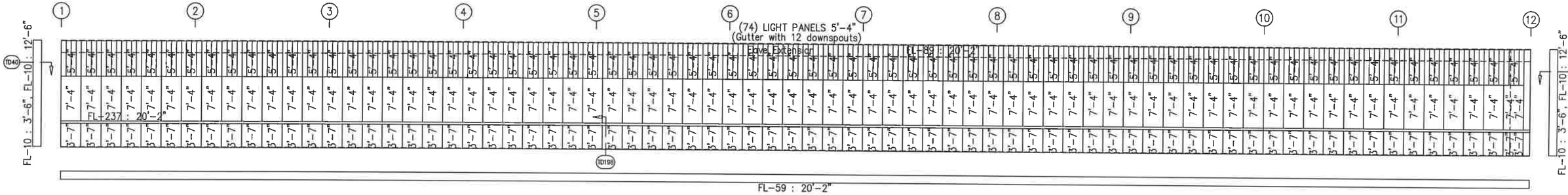
DESCRIPTION	CROSS SECTION			SIZE	REFER TO C1			
CONNECT OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	ENGR BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (APPR.)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E2 of 6	A

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

MEMBER TABLE FRAME LINE A	
MARK	PART
E-1	10.25E12
E-2	10.25E12
G-5	8X25Z16
G-6	8X25Z16
CB-3	CB0500
CB-4	CB0500

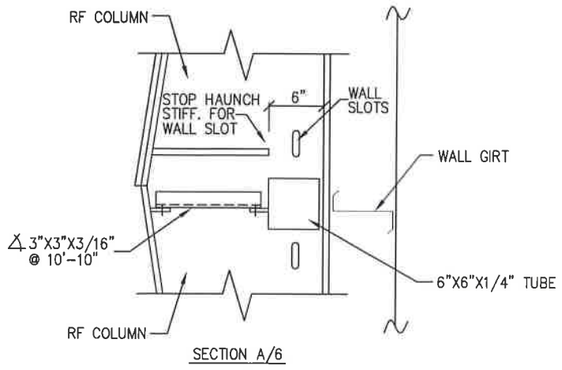


SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR – Need Std. Color



SECTION A/6

* = INDICATES 6"X6"X1/4" TUBE

GENERAL NOTES:

TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.
FIELD CUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.

DRAWING STATUS

- [X] 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 CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.
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- [ ] FOR CONSTRUCTION: FINAL DRAWINGS.

REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

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DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

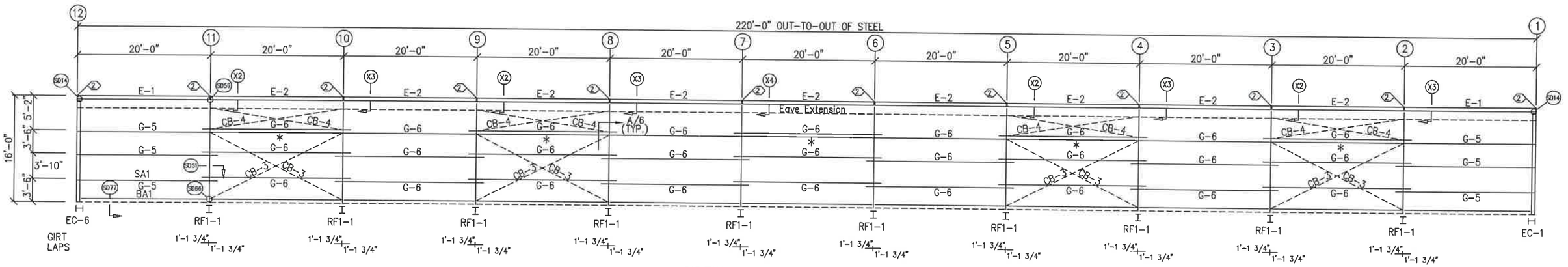
RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

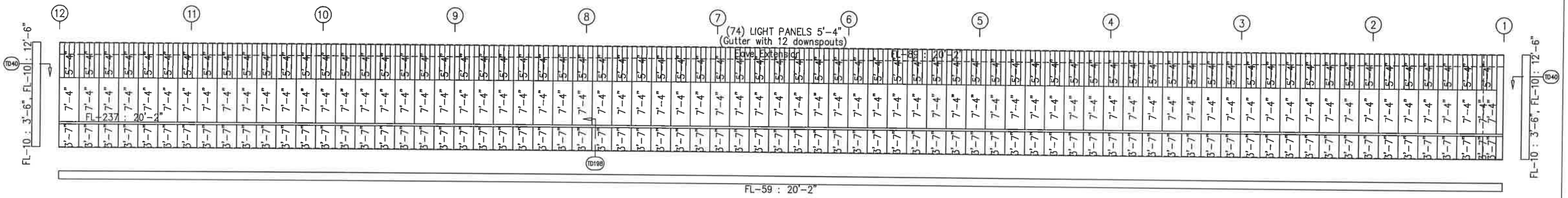
DESCRIPTION	SIDEWALL ELEVATION			SIZE	REFER TO C1			
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (WTW)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E3 of 6	A

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

MEMBER TABLE FRAME LINE F	
MARK	PART
E-1	10.25E12
E-2	10.25E12
G-5	8X25Z16
G-6	8X25Z16
CB-3	CB0500
CB-4	CB0500



SIDEWALL FRAMING: FRAME LINE F



SIDEWALL SHEETING & TRIM: FRAME LINE F

PANELS: 26 Ga. PBR – Need Std. Color

∗ = INDICATES 6"X6"X1/4" TUBE

DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BATRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

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DRAWING STATUS

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☐ FOR CONSTRUCTION:
FINAL DRAWINGS.

REVISIONS

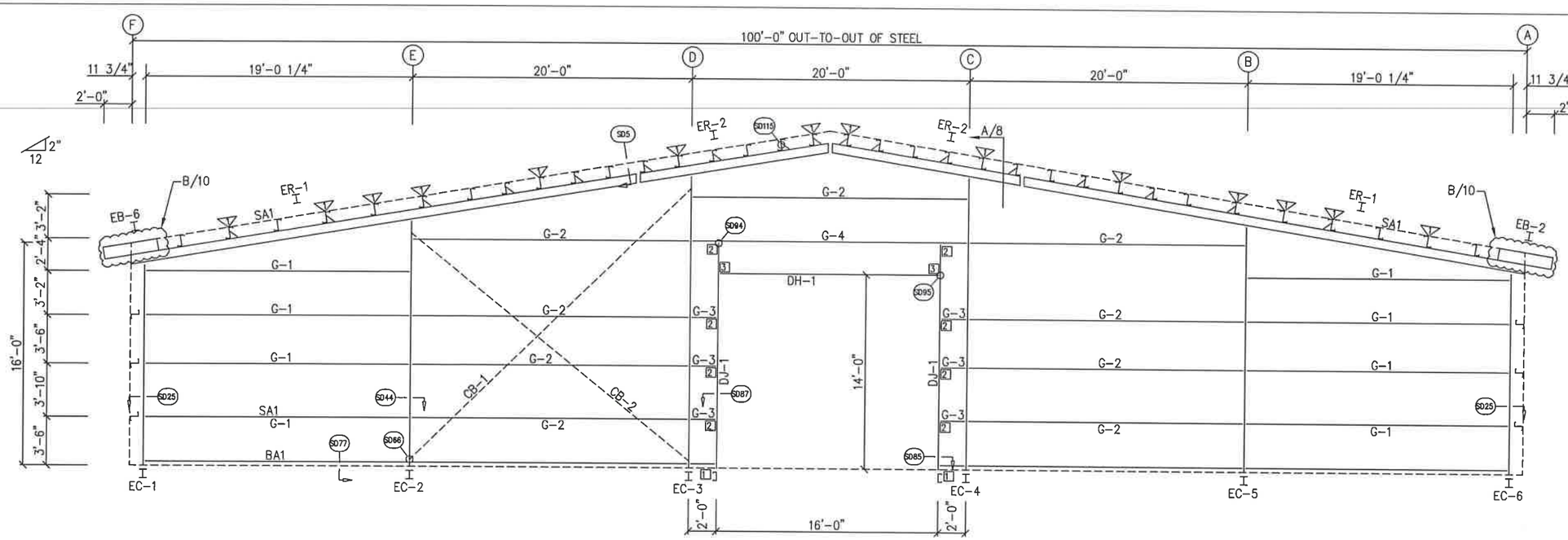
NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

RHINO STEEL BUILDING SYSTEMS

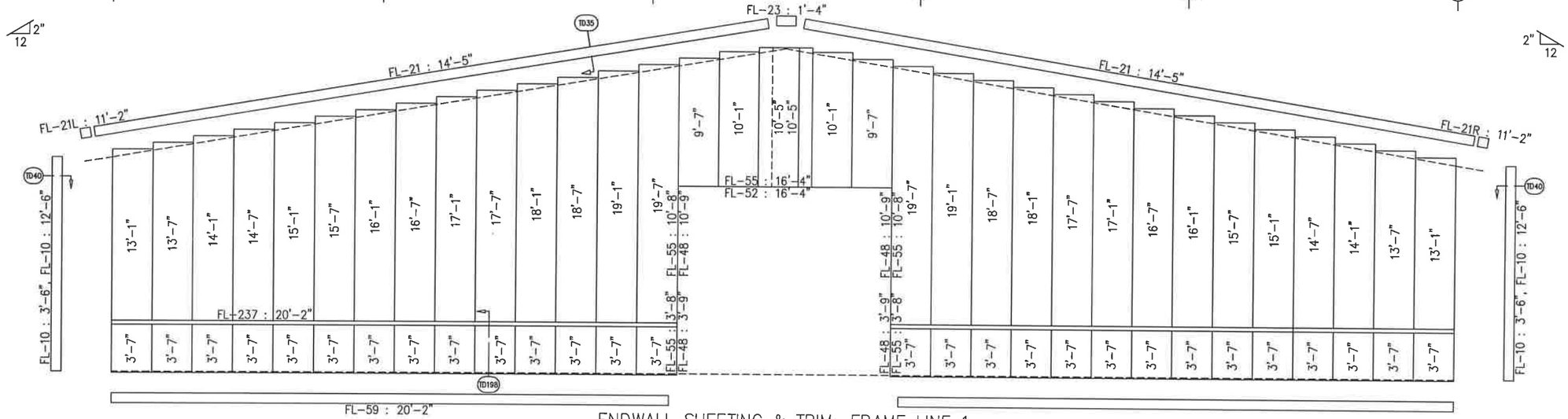
Rhino Steel Bldg. Systems

DESCRIPTION	SIDEWALL ELEVATION				SIZE	REFER TO C1		
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	ENGR BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (MFR)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E4 of 6	A

GENERAL NOTES:
TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.
FIELD CUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

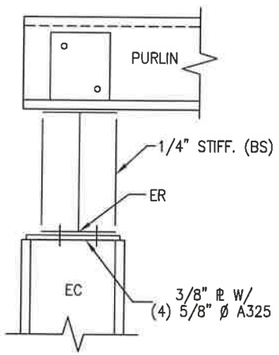
PANELS: 26 Ga. PBR – Need Std. Color

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

FLANGE BRACE TABLE FRAME LINE 1		
▽ID	MARK	LENGTH
1	FB1A	2'-11 1/2"

CONNECTION PLATES FRAME LINE 1	
□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100

MEMBER TABLE FRAME LINE 1	
MARK	PART
EB-2	W10X12
EB-6	W10X12
EC-1	W8X10
EC-2	W8X10
EC-3	W8X10
EC-4	W8X10
EC-5	W8X10
EC-6	W8X10
ER-1	W12X14
ER-2	W12X14
DJ-1	8X35C16
DH-1	8X25C16
G-1	8X25Z14
G-2	8X25Z14
G-3	8X25Z14
G-4	8X25Z14
CB-1	CB0375
CB-2	CB0375



SECTION A/8
TYP. ENDPOST TO
ENDWALL CONNECTION

GENERAL NOTES:

TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.
FIELD CUT PANELS AT FRAME OPENINGS, WALKDOORS, AND WINDOWS.
BEVELCUT ENDWALL PANELS AS REQUIRED.
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.

DSN. APR. | APR. DATE

COLORADO LICENSED
PATRICK W. BARRICK
0052611
PROFESSIONAL ENGINEER

Sealed: 8/17/18

DRAWING STATUS

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- ☐ FOR CONSTRUCTION: FINAL DRAWINGS.

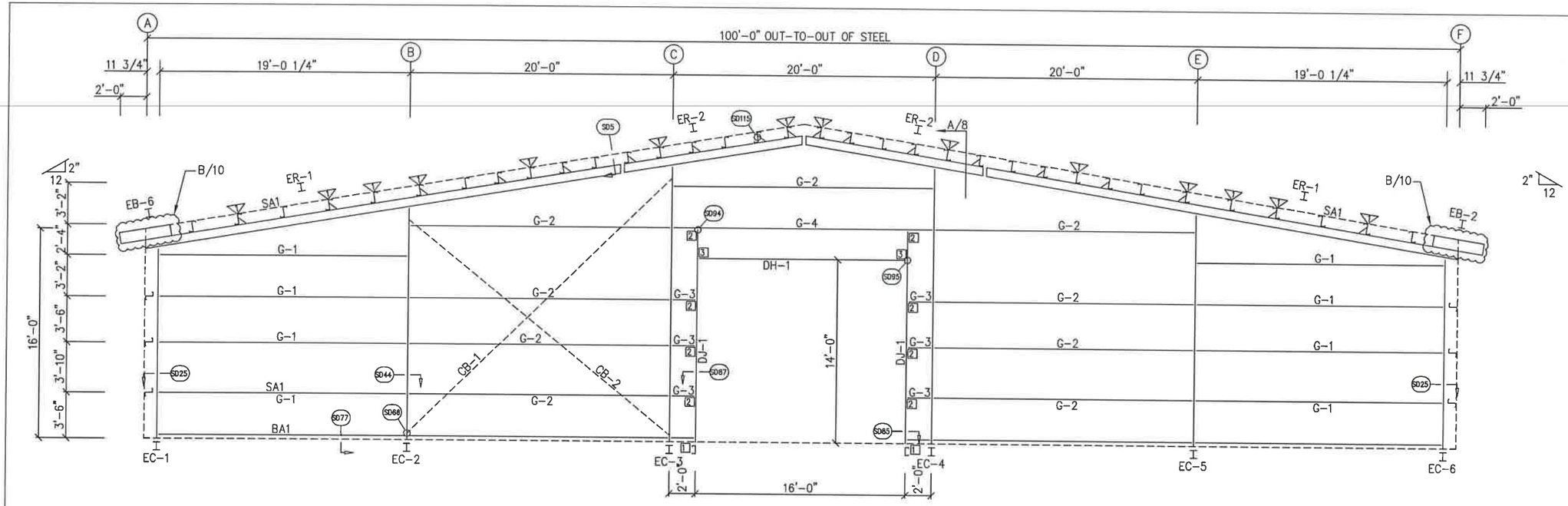
REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

DESCRIPTION	ENDWALL ELEVATION				SIZE	REFER TO C1		
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (Ext/Int)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E5 of 6	A



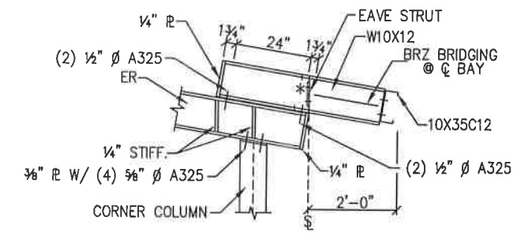
ENDWALL FRAMING: FRAME LINE 12

BOLT TABLE FRAME LINE 12				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	1 3/4"
ER-2/ER-2	8	A325	5/8"	1 3/4"
Columns/Raf	2	A325	5/8"	1 1/4"

FLANGE BRACE TABLE FRAME LINE 12		
▽ID	MARK	LENGTH
1	FB1A	2'-11 1/2"

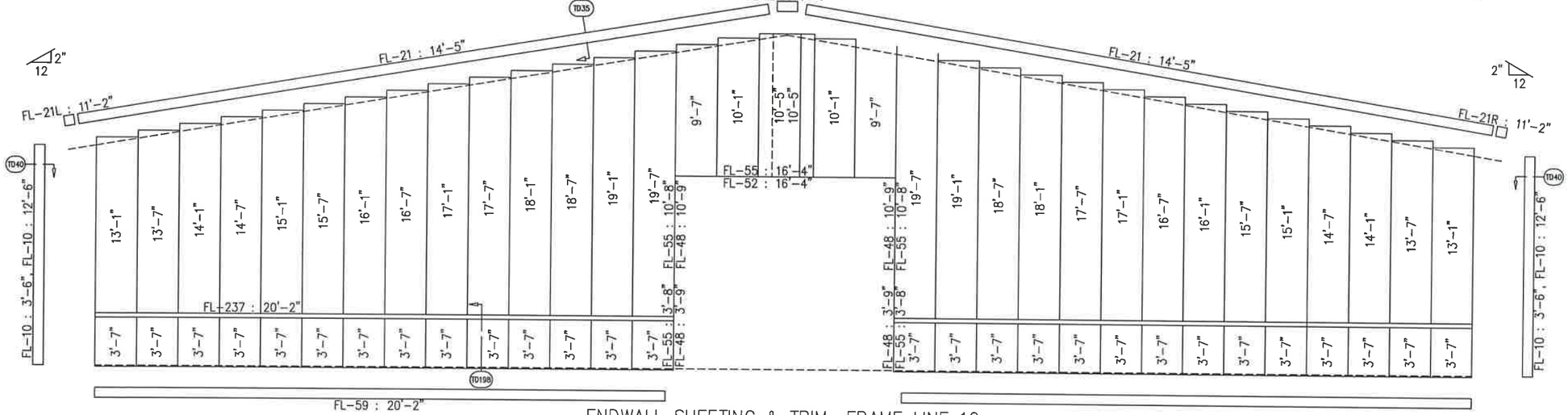
CONNECTION PLATES FRAME LINE 12	
□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100

MEMBER TABLE FRAME LINE 12	
MARK	PART
EB-2	W10X12
EB-6	W10X12
EC-1	W8X10
EC-2	W8X10
EC-3	W8X10
EC-4	W8X10
EC-5	W8X10
EC-6	W8X10
ER-1	W12X14
ER-2	W12X14
DJ-1	8X35C16
DH-1	8X25C16
G-1	8X25Z14
G-2	8X25Z14
G-3	8X25Z14
G-4	8X25Z14
CB-1	CB0375
CB-2	CB0375



SECTION B/10

* = EAVE STRUT TO PURLIN STRUT CONNECTION
⅜" PL W/ (4) ½" Ø A307 (TYP.)



ENDWALL SHEETING & TRIM: FRAME LINE 12

PANELS: 26 Ga. PBR – Need Std. Color

GENERAL NOTES:

TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.
FIELD CUT PANELS AT FRAME OPENINGS, WALKDOORS, AND WINDOWS.
BEVELCUT ENDWALL PANELS AS REQUIRED.
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.

DSN APR | APR. DATE

COLORADO LICENSED PATRICK W. BARRICK 0052611 PROFESSIONAL ENGINEER

Sealed: 8/17/18

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- ☐ FOR CONSTRUCTION: FINAL DRAWINGS.

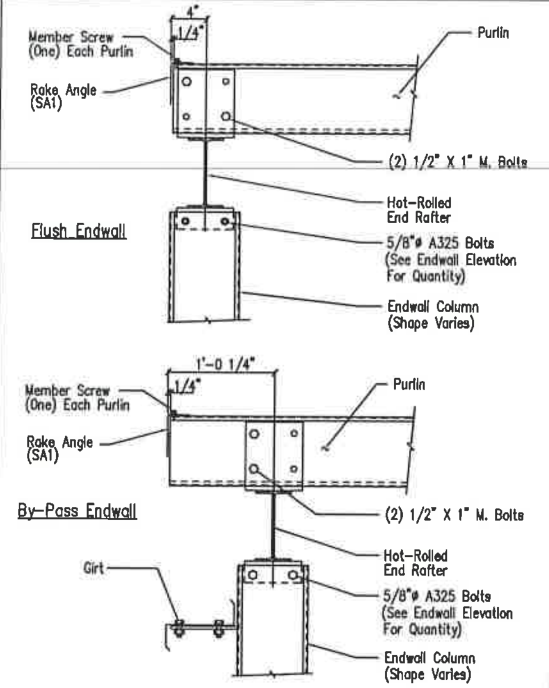
REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

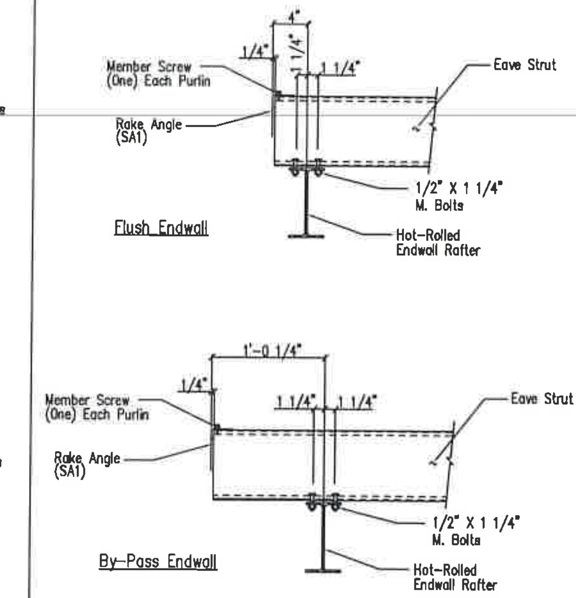
RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

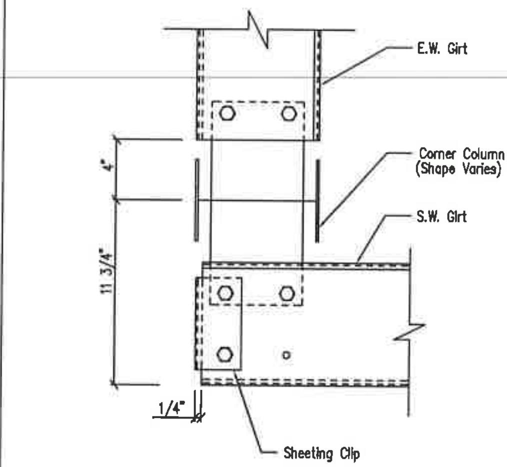
DESCRIPTION	ENDWALL ELEVATION			SIZE	REFER TO C1			
OWNER OR PROJECT	Dwayne Osadchuk							
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467							
CAD BY	DWN BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (ADM)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			E6 of 6	A



Section Thru Rake w/Hot Rolled Rafter — DRAWING NO. SD5

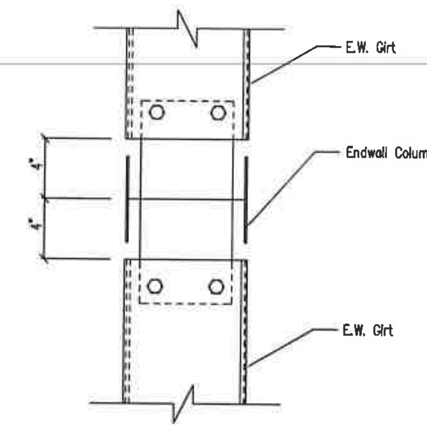


Eave Strut to Hot Rolled Rafter Connection — DRAWING NO. SD14



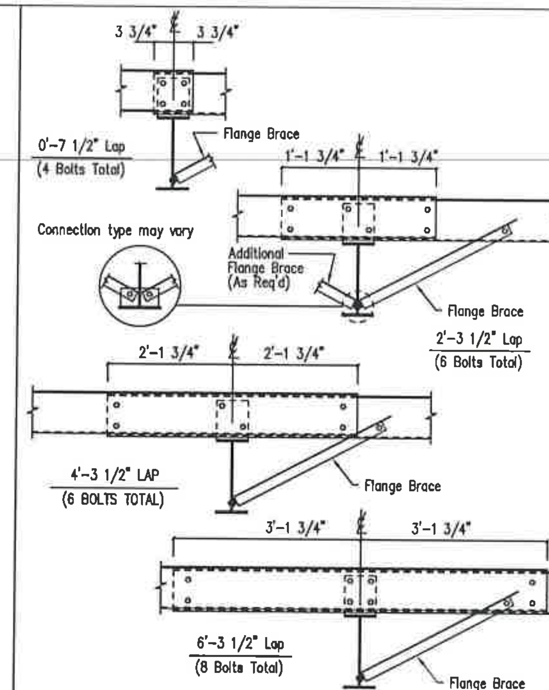
Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

Section at Hot Rolled Corner Column
Flush Endwall — DRAWING NO. SD25



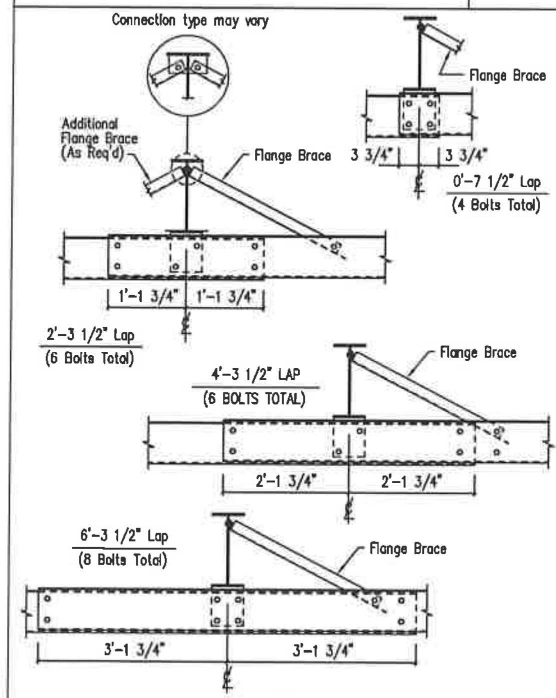
Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

Girt to Hot Rolled Endwall Column Connection — DRAWING NO. SD44



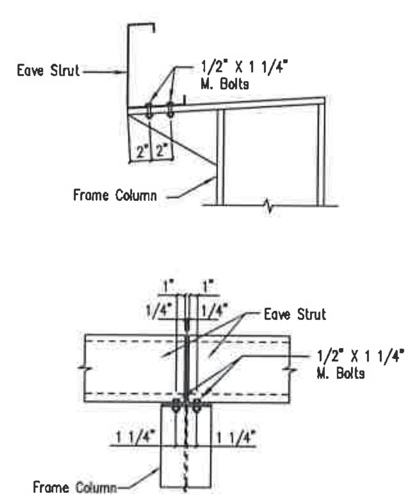
Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

Interior Bay Purlin Framing — DRAWING NO. SD50

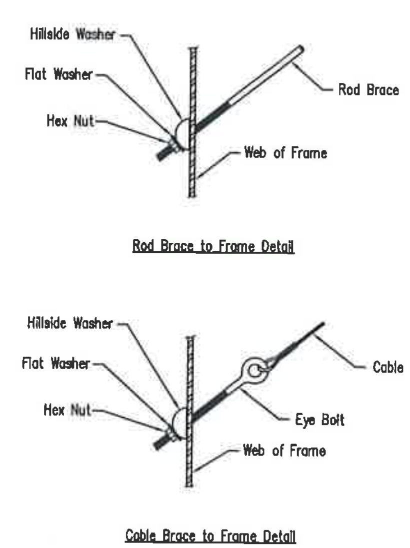


Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

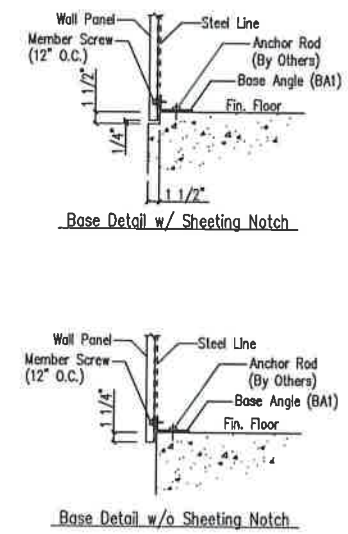
Interior Bay Girt Framing — DRAWING NO. SD51



Eave Strut at Interior Column
By-Pass Sidewall — DRAWING NO. SD59

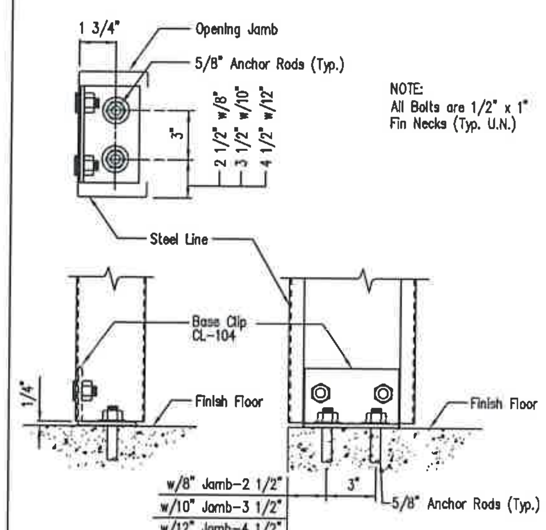


Cable or Rod Brace to Frame Connection — DRAWING NO. SD66



NOTE: If insulation is required install trim first.
NOTE: A minimum of 1/4" space should be allowed from the sheet end to any surface.

Base Angle w/o Trim — DRAWING NO. SD77



NOTE:
All Bolts are 1/2" x 1" Fin Necks (Typ. U.N.)

Jamb to Floor — DRAWING NO. SD85

DSN. APR. | APR. DATE

COLORADO LICENSED PATRICK W. BARRICK 0052611 PROFESSIONAL ENGINEER

Sealed: 8/17/18

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GENERAL NOTES:
SEE ELEVATIONS FOR TRIM MARKS, LENGTHS, LOCATION, AND QUANTITY.
ALL TAPE SEALANT IS CONTINUOUS UNLESS NOTED.
WALL PANELS, POP RIVETS, AND EAVE TRIM TO BE INSTALLED BEFORE ROOF INSULATION.
FOR CLARITY OF DETAIL, ROOF INSULATION IS NOT SHOWN.
△ 1" WIDE x 3/32" TAPE SEAL (OPTIONAL) MUST BE SPECIFIED ON THE WORK ORDER.
● TRIM PROFILE MAY VARY.

DRAWING STATUS

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[ ] FOR CONSTRUCTION: FINAL DRAWINGS.

REVISIONS

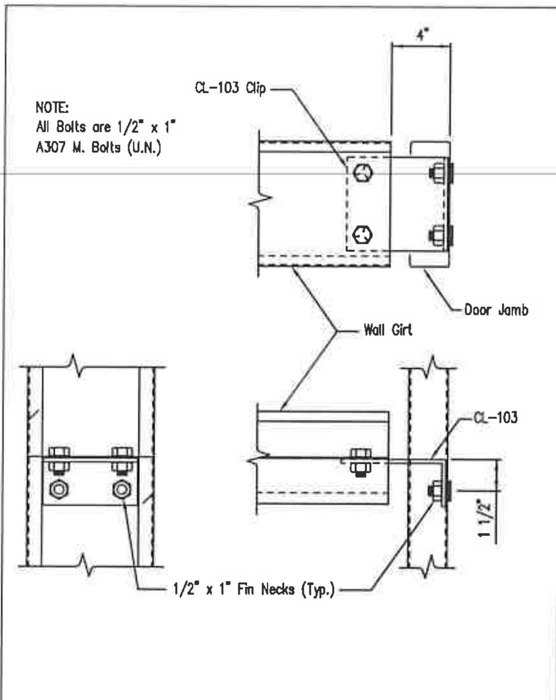
NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

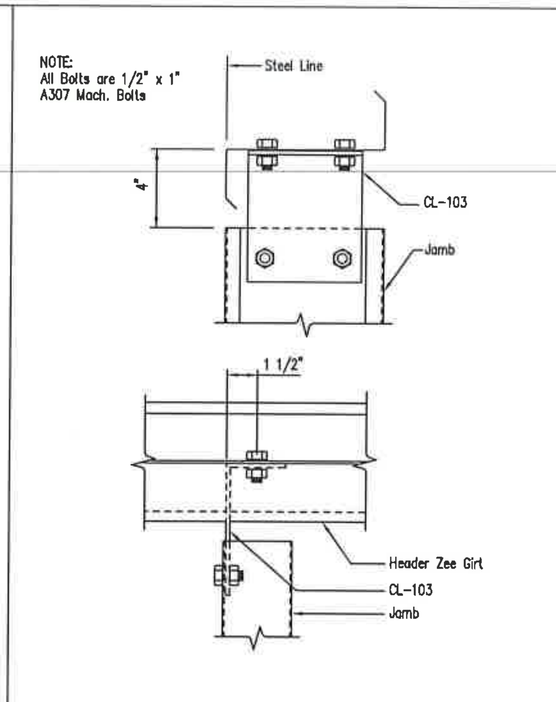
DESCRIPTION	DETAIL DRAWINGS
SIZE	REFER TO C1
OWNER OR PROJECT	Dwayne Osadchuk
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467

CAD BY	ENGR BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC.	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			D1 of 4	A



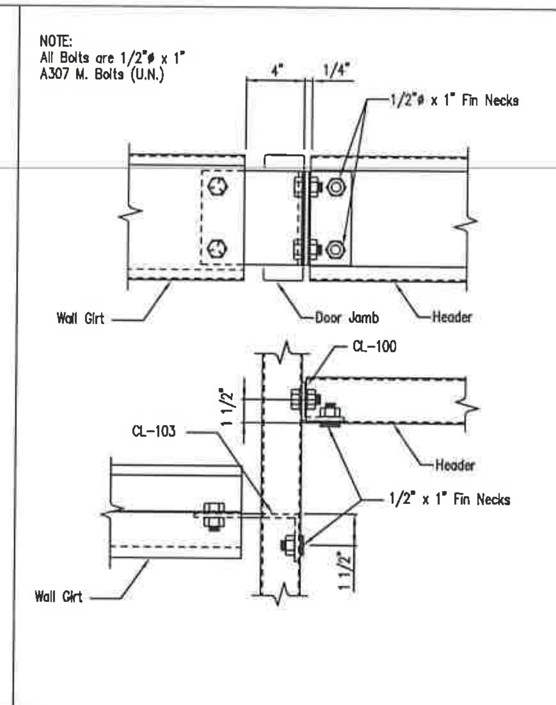
Girt to Jamb (Bolted Clips)

DRAWING NO. SD87



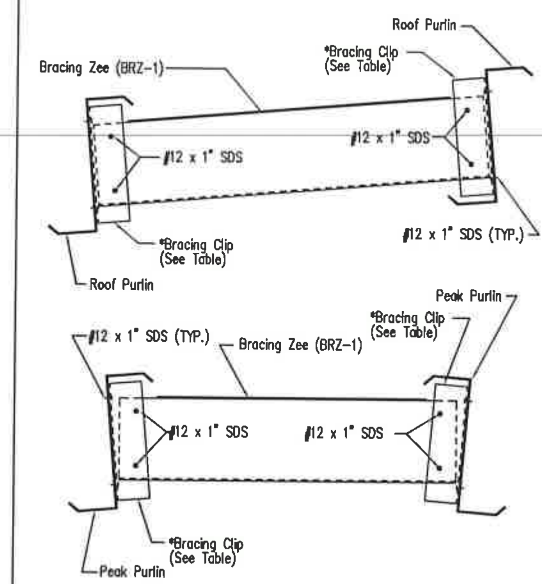
Jamb to Header Girt

DRAWING NO. SD94



Girt/Header to Jamb (Bolted Clips)

DRAWING NO. SD95

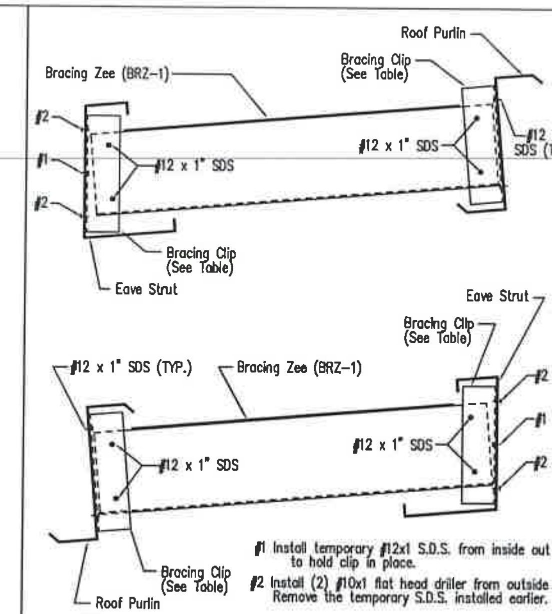


PURLIN DEPTH	BRACING CLIP
8"	BRC-7
10"	BRC-9
12"	BRC-11

Note: Bracing Clip locator buttons are to be placed in holes pre-drilled in purlins.

Intermediate Purlin Bridging

DRAWING NO. SD105

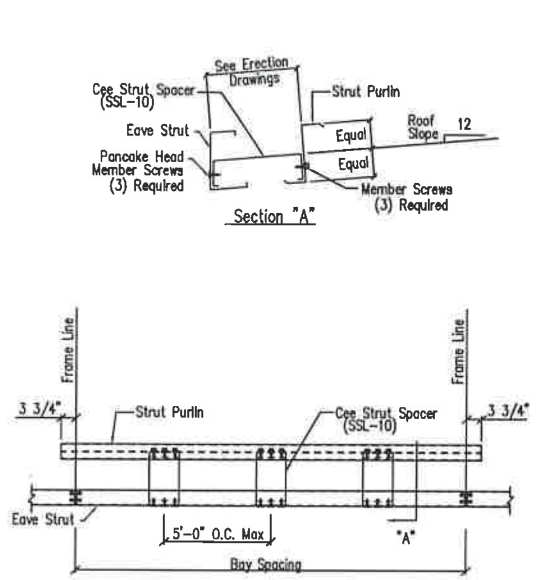


PURLIN DEPTH	BRACING CLIP
8"	BRC-7
10"	BRC-9
12"	BRC-11

Note: Bracing Clip locator buttons are to be placed in holes pre-drilled in purlins. These locators are not to be used on the eave strut webs.

Eave Bridging

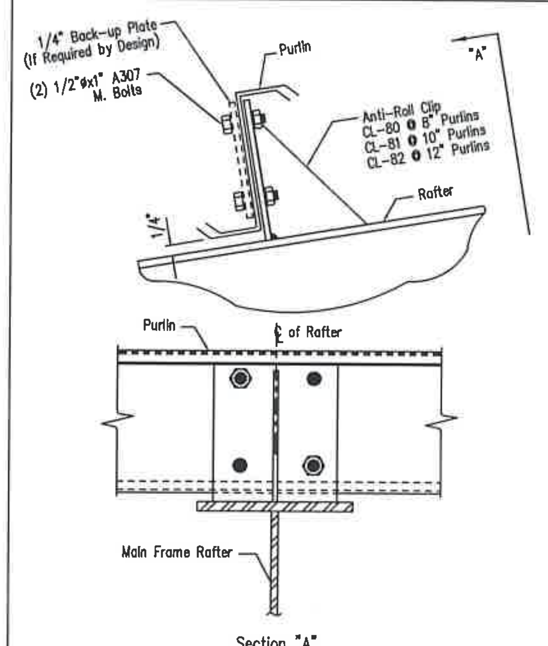
DRAWING NO. SD106



Strut Purlin and Spacer Detail

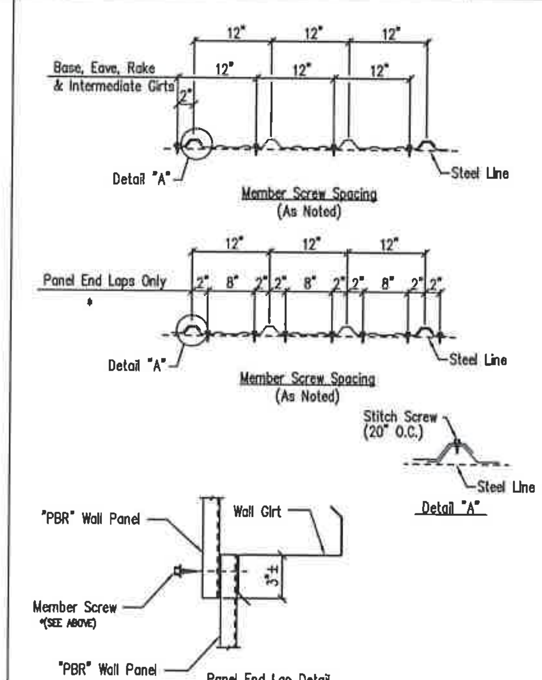
Low Eave

DRAWING NO. SD107



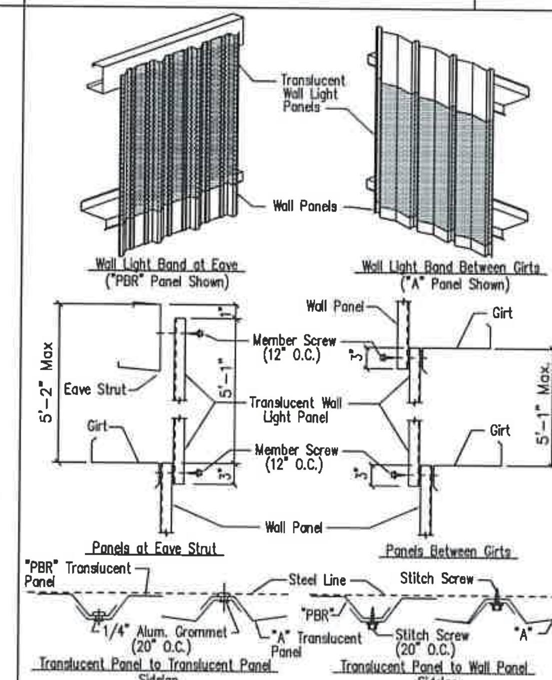
Purlin to Anti-Roll Clip Connection

DRAWING NO. SD115



Fastener Location "PBR" Panel at Wall

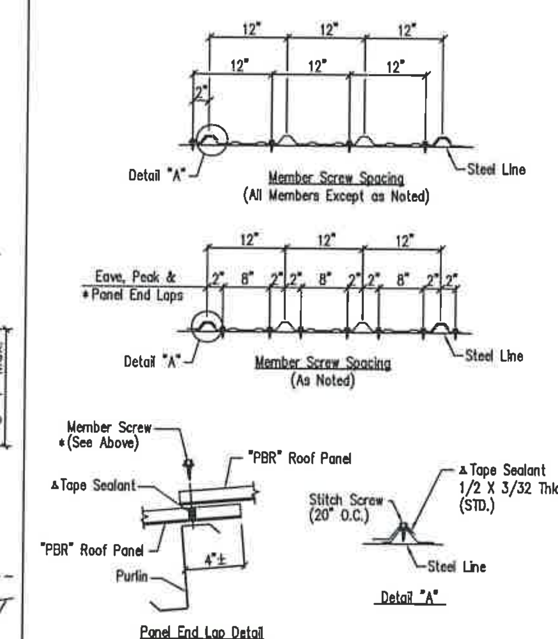
DRAWING NO. TD1



NOTE: Wall lights may require field cutting at top of endwalls.

"PBR" and "A" Translucent Wall Panels

DRAWING NO. TD4



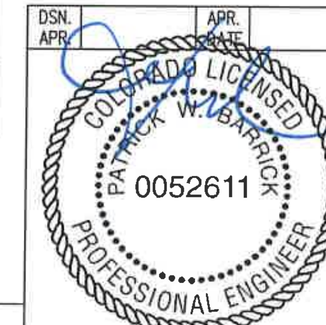
NOTE: Screw patterns shown satisfy U.L. 90 requirements for roof.

Fastener Location "PBR" Panel at Roof

DRAWING NO. TD7

DSN. APR.

APR. DATE



Sealed: 8/17/18

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DRAWING STATUS

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

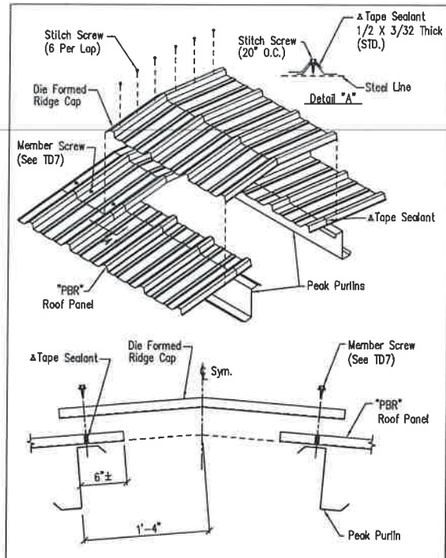
RHINO STEEL BUILDING SYSTEMS

Rhino Steel Bldg. Systems

DESCRIPTION	DETAIL DRAWINGS
SIZE	REFER TO C1
OWNER OR PROJECT	Dwayne Osadchuk
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467

CAD BY	ENG'R BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC.	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			D2 of 4	A

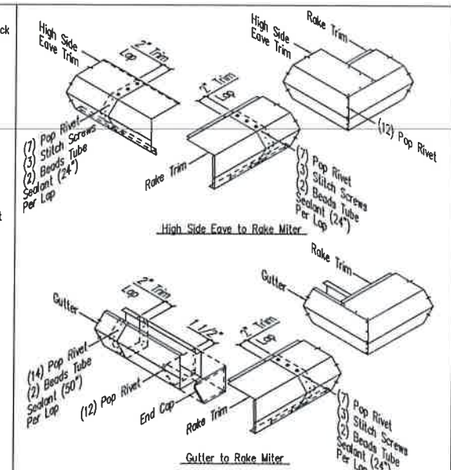
GENERAL NOTES:
SEE ELEVATIONS FOR TRIM MARKS, LENGTHS, LOCATION, AND QUANTITY.
ALL TAPE SEALANT IS CONTINUOUS UNLESS NOTED.
WALL PANELS, POP RIVETS, AND EAVE TRIM TO BE INSTALLED BEFORE ROOF INSULATION.
FOR CLARITY OF DETAIL, ROOF INSULATION IS NOT SHOWN.
▲ 1" WIDE x 3/32" TAPE SEAL (OPTIONAL) MUST BE SPECIFIED ON THE WORK ORDER.
* TRIM PROFILE MAY VARY.



Die Formed Ridge Detail – PBR

Up to a 3:12 Roof Slope

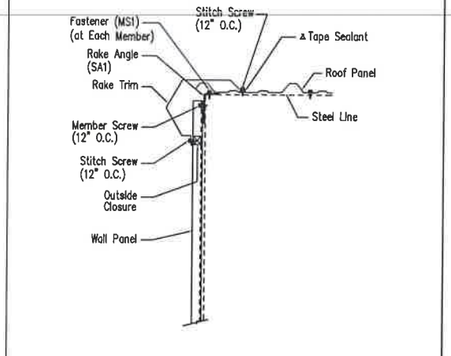
DRAWING NO. TD8



Locate the Gutter End Cap 1 1/2" from the end of the Gutter. Apply one bead of Tube Sealant between the End Cap surface and the Gutter. Attach the End Cap to the Gutter using (12) Pop Rivets. Check to make sure all edges are sealed with Tube Sealant. Insert the Gutter into the Rake Trim. Align the mitered edges and attach to the Rake Trim with (12) Pop Rivets.

PBR Standard Trim Detail

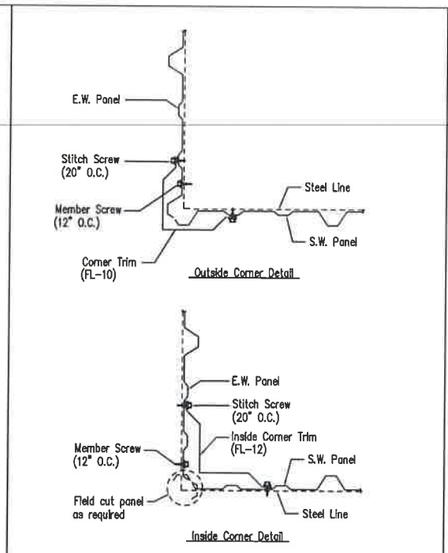
DRAWING NO. TD13



Rake Detail – PBR

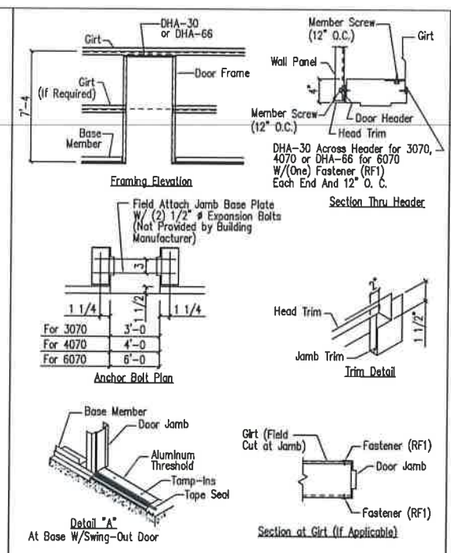
Standard Rake – Sheeted Wall

DRAWING NO. TD35



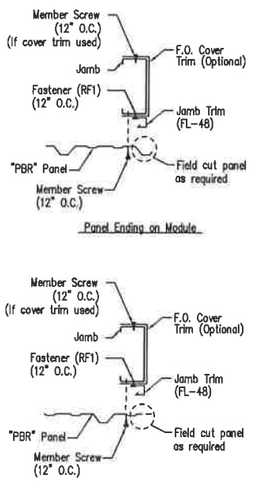
Section at Corner – PBR

DRAWING NO. TD40



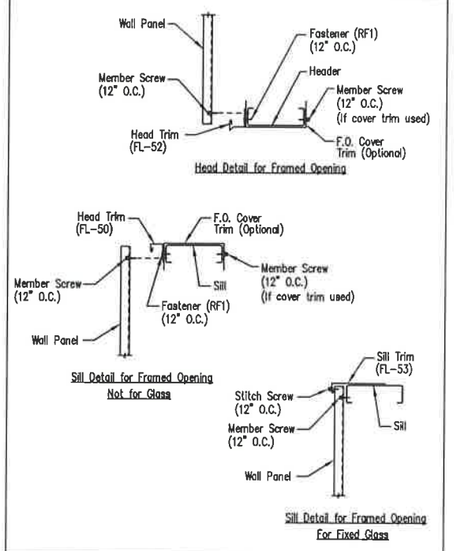
Personnel Doors (Walk Door Sections)

DRAWING NO. TD50



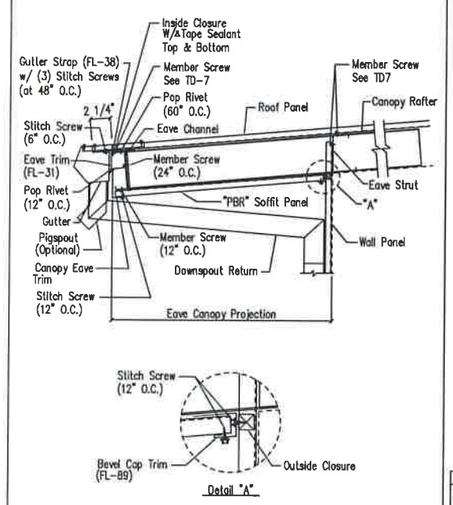
Jamb Detail For Framed Opening – PBR

DRAWING NO. TD51



Framed Opening Head and Sill Details

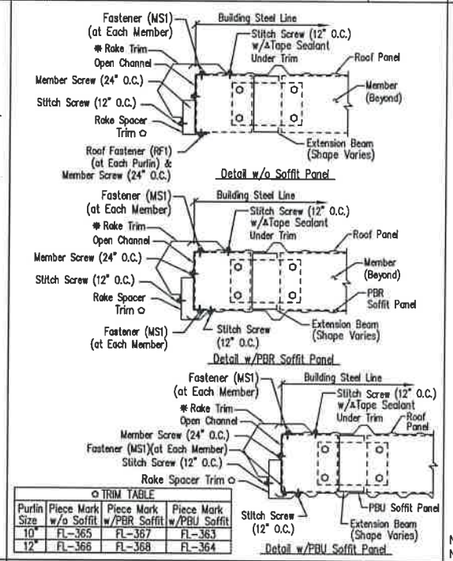
DRAWING NO. TD52



Flush Eave Line Canopy – PBR

PBR Soffit Panel

DRAWING NO. TD60



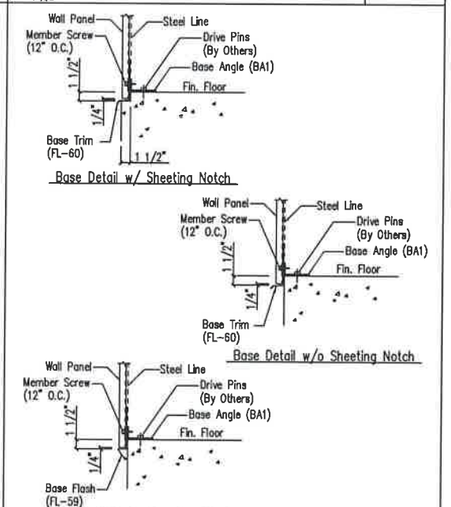
TRIM TABLE

Purlin Size	Piece Mark w/o Soffit	Piece Mark w/PBR Soffit	Piece Mark w/PBU Soffit
10"	FL-365	FL-367	FL-363
12"	FL-366	FL-368	FL-364

Flush Eave Extension Rake Detail – PBR Roof

Standard Rake – 10" & 12" Purlins

DRAWING NO. TD63



NOTE: If insulation is required install trim first.
NOTE: A minimum of 1/4" space should be allowed between the sheet end to any surface.

Base Angle w/Trim

DRAWING NO. SD74

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✱ TRIM PROFILE MAY VARY.

DRAWING STATUS

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CK'D
A	8/13/18	FOR PERMIT	JGA	DC

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DSN. APR. | APR. DATE

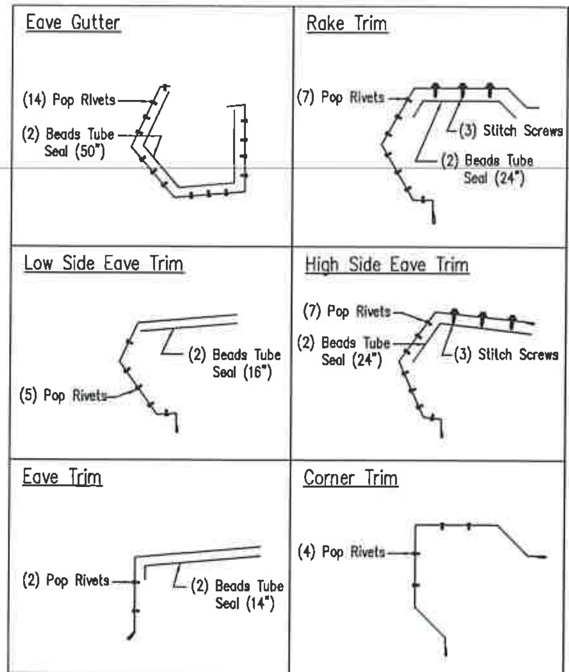
COLORADO LICENSED PATRICK W. BARRICK 0052611 PROFESSIONAL ENGINEER

Sealed: 8/17/18

RHINO STEEL BUILDING SYSTEMS

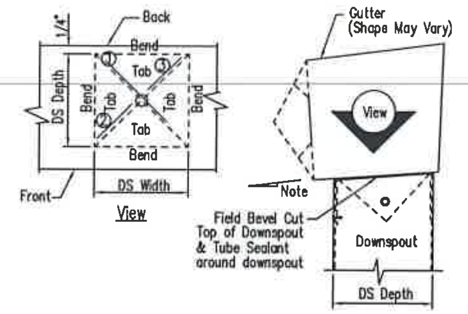
Rhino Steel Bldg. Systems
4300 I-35, NORTH DENTON, TX. 76207
PHONE: (940) 383-9393 (800) 280-7468
FAX: (940) 484-9746

DESCRIPTION	DETAIL DRAWINGS				SIZE	REFER TO C1			
OWNER OR PROJECT	Dwayne Osadchuk								
JOBSITE LOCATION	23850 TOBIANO TRAIL OAK CREEK, CO 80467								
CAD BY	ENGR BY	DATE	SCALE	JOB NO.	PH	BLDG. DESC. (OPTN'L)	SHEET NO.	ISSUE
JGA	JJG	8/13/18	N.T.S.	142578			D3 of 4	A



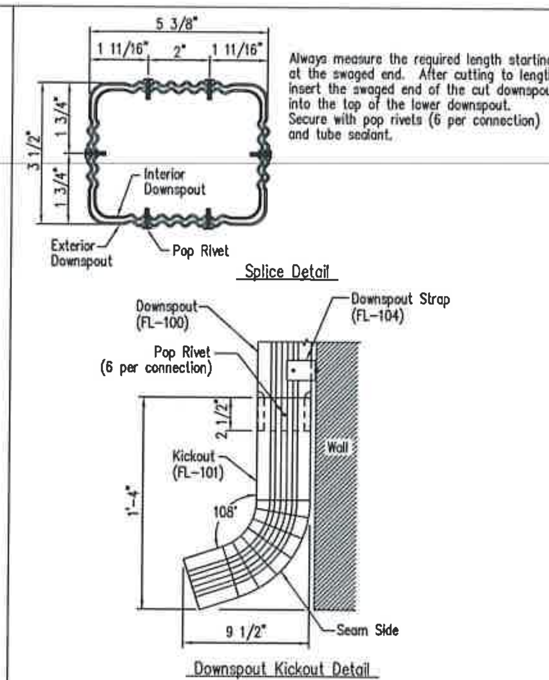
Note: Trim Profiles May Vary; Tube Seal = MS Tube Caulk
2" Min. Lap Unless Noted

Trim Laps – Standard Profile — DRAWING NO. TD85



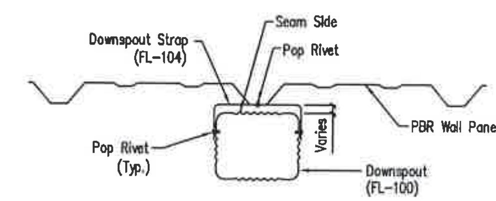
1. Refer to the building erection drawings for the location and spacing of the downspouts.
2. Locate all downspouts over a major panel rib if possible.
3. Make a cardboard template of the downspout shape. Place the template on the bottom of the gutter and trace the outline. Remove the template and draw a line from corner to corner, forming an "X" pattern.
4. Drill a hole at the center of the "X". Using tin snips, cut along the lines of the X only. Do not cut along the outside lines of the downspout square.
5. Bend each triangular tab down toward the ground, 90 Degrees to the bottom of the gutter.
6. Position the top of the downspout under the gutter. Make sure all four gutter tabs are on the inside of the downspout.
7. Install Pop Rivets through the downspout into the gutter tab. Only the two sides and the front of the downspout will receive Pop Rivets.

Downspout to Gutter Attachment Detail — DRAWING NO. TD95

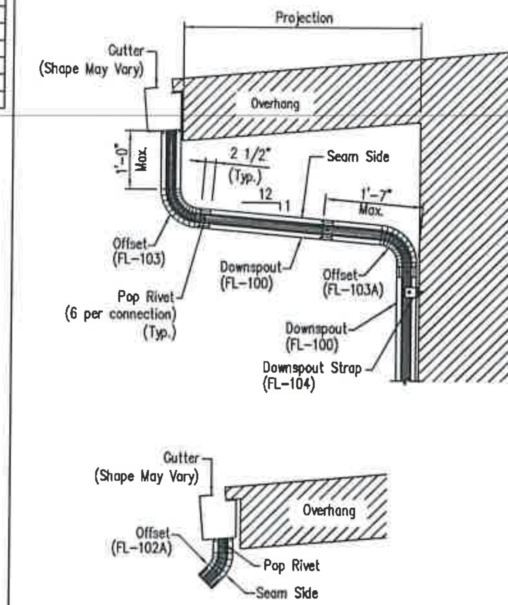


Downspout Kickout and Splice Detail — 3 1/2" x 5 3/8" Roll-Form — DRAWING NO. TD96

D.S. Strap Quantity	
Eave Height	Quantity
10'-0"	2
12'-0"	3
14'-0"	3
16'-0"	4
20'-0"	4
25'-0"	5

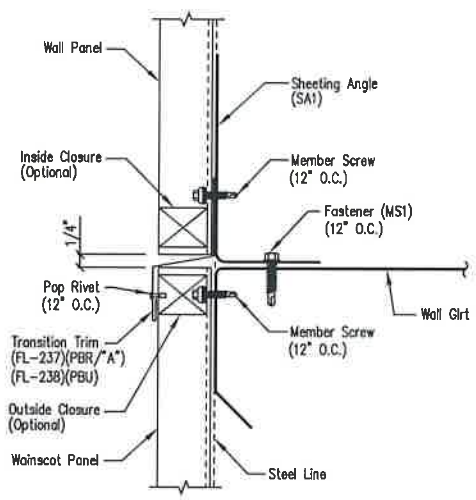


Downspout Strap Attachment Detail – PBR — 3 1/2" x 5 3/8" Roll-Form — DRAWING NO. TD98

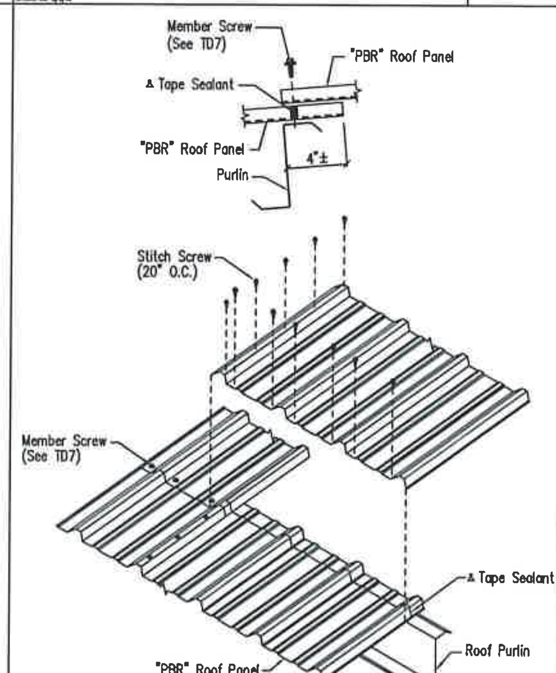


Reference drawing TD96 for splice detail.

Eave Canopy Downspout Detail — DRAWING NO. TD99



Wainscot With Panel Break — DRAWING NO. TD198



Panel Endlap Detail – PBR — DRAWING NO. TD206

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DSN. APR. | APR. DATE

COLORADO LICENSED PATRICK W. BARRICK 0052611 PROFESSIONAL ENGINEER

Sealed: 8/17/18

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RHINO STEEL BUILDING SYSTEMS — Rhino Steel Bldg. Systems

DESCRIPTION	DETAIL DRAWINGS
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OWNER OR PROJECT	Dwayne Osadchuk
JOBSITE LOCATION	23850 TOBIANO TRAIL, OAK CREEK, CO 80467
CAD BY	JGA
ENG'R BY	JJG
DATE	8/13/18
SCALE	N.T.S.
JOB NO.	142578
SHEET NO.	D4 of 4
ISSUE	A