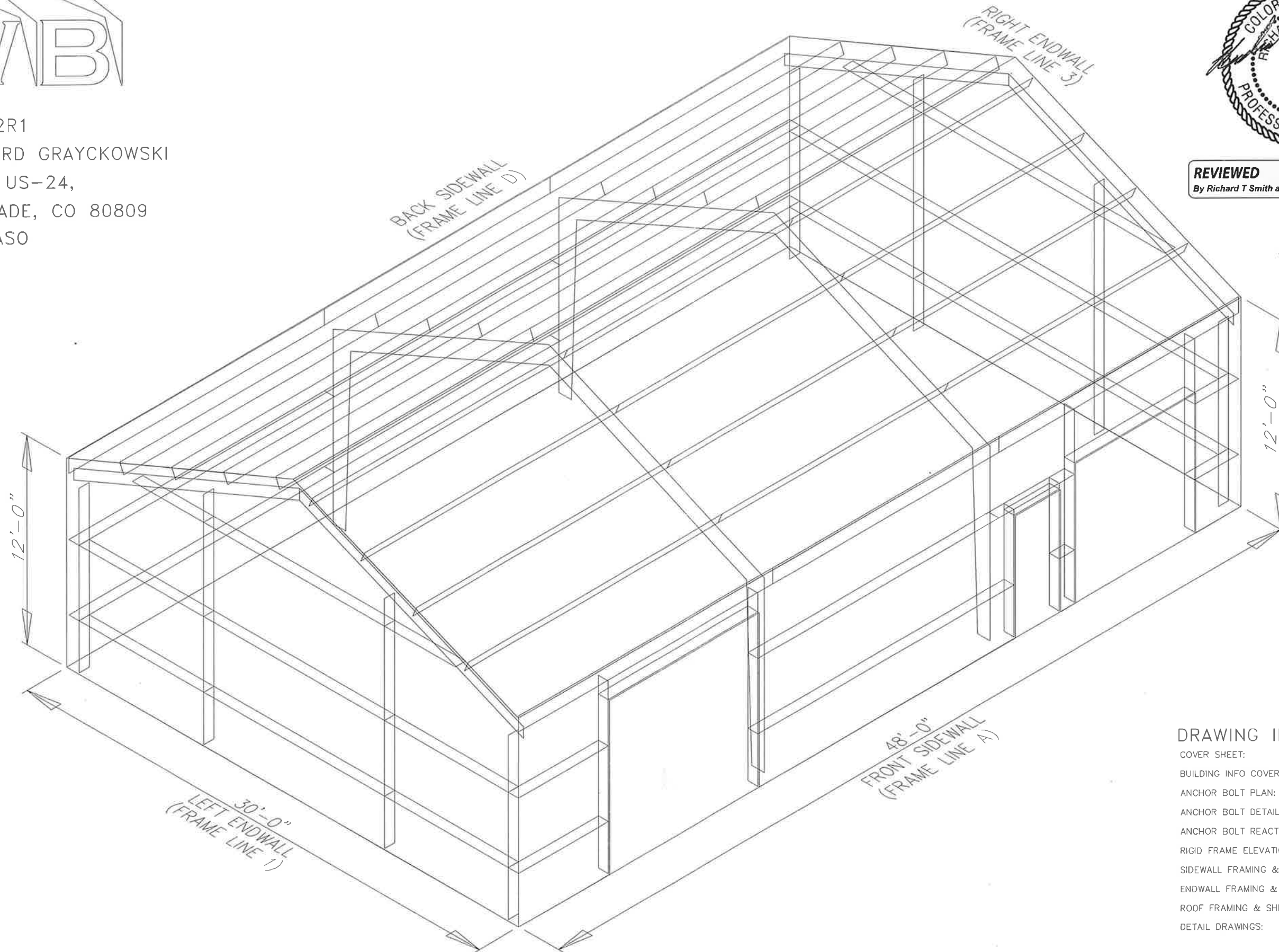


JOB NUMBER: 93452R1  
 PROJECT NAME: RICHARD GRAYCKOWSKI  
 PROJECT LOCATION: 8615 US-24,  
 PROJECT LOCATION: CASCADE, CO 80809  
 PROJECT COUNTY: EL PASO



**REVIEWED**  
 By Richard T Smith at 1:49 pm, Jan 27, 2022



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GENERAL NOTES

- 1.1 FABRICATION SHALL BE IN ACCORDANCE WITH METAL BUILDING SUPPLIER, STANDARD PRACTICES IN COMPLIANCE WITH THE APPLICABLE SECTIONS, RELATING TO DESIGN REQUIREMENTS AND ALLOWABLE STRESSES OF THE LATEST EDITION OF THE "AWS STRUCTURAL WELDING CODE D1.1 AND D1.3".
- 1.2 **MATERIALS**  

ASTM DESIGNATION	MIN. YIELD STRENGTH
A572	Fy = 50 KSI
A36	Fy = 36 KSI
A500	Fy = 42 KSI
A500	Fy = 42 KSI
A572/A1011	Fy = 50 KSI
A529/A572	Fy = 55 KSI
A653/A1011	Fy = 55 KSI
A792/A653	Fy = 50, 80 KSI
A475 - TYPE 1	EXTRA HIGH STRENGTH
A36	Fy = 36 KSI
MIN. TENSILE STRENGTH	
Fu = 60 KSI	
Fu = 120 KSI	
Fu = 105 KSI	
Fu = 60 KSI	

MACHINE BOLTS & NUTS A307  
 HIGH STRENGTH BOLTS (1" & LESS) A325-TYPE 1  
 HIGH STRENGTH BOLTS (>1" TO 1 1/2") A325-TYPE 1  
 ANCHOR BOLTS (NOT SUPPLIED BY M.B.S.) A36/A307/F1554
- 1.3 **PRIMER**  
 SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER WHICH MEETS THE END PERFORMANCE OF FEDERAL SPECIFICATION SSPC NO. 15 AND IS GRAY OXIDE IN COLOR. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS. METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR ANY DETERIORATION OF THE SHOP PRIMER PAINT AS A RESULT OF IMPROPER HANDLING AND/OR JOBSITE STORAGE. METAL BUILDING SUPPLIER SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND/OR COATINGS. (AISC CODE OF STANDARD PRACTICE, LATEST EDITION). NOMINAL THICKNESS OF PRIMER WILL BE 1 MIL UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.
- 1.4 **GALVANIZED OR SPECIAL COATINGS**  
 SEE CONTRACT DOCUMENTS
- 1.5 **ALL BOLTS ARE 1/2" x 0'-1 1/4" A307 EXCEPT:**  
 A) ENDWALL RAFTER SPLICE - 5/8" x 0'-1 3/4" A325-N  
 B) ENDWALL COLUMN TO RAFTER CONNECTION - (SEE WALL ELEVATION)  
 C) MAIN FRAME CONNECTIONS - SEE CROSS SECTION  
 D) FLANGE BRACE CONNECTIONS - 1/2" x 0'-1 1/4" A325  
 NOTE: WASHERS ARE NOT SUPPLIED UNLESS NOTED OTHERWISE ON DRAWING
- 1.6 **A325 BOLT TIGHTENING REQUIREMENTS**  
 ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS SPECIFICALLY NOTED OTHERWISE. HOLES ARE NOT SLOTTED AND DESIGN IS BEARING CONNECTION. STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD IN ACCORDANCE WITH THE LATEST EDITION AISC "SPECIFICATION FOR STRUCTURAL JOINTS" USING ASTM A325 OR A490 BOLTS, WHEN SPECIFICALLY REQUIRED. A325-N BOLTS ARE SUPPLIED WITHOUT WASHER UNLESS OTHERWISE NOTED ON THE DRAWINGS.  
 ALL BOLTED CONNECTIONS UNLESS NOTED ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH BOLT THREADS NOT EXCLUDED FROM THE SHEAR PLANE.
- 1.7 **CLOSURE STRIPS ARE FURNISHED (IF ORDERED) FOR APPLICATION:**  
 INSIDE - UNDER ROOF PANELS & BASE OF WALL PANELS  
 OUTSIDE - BETWEEN ROOF PANELS & RIDGE CAP  
 - BETWEEN WALL PANELS & EAVE/GABLE TRIM
- 1.8 **ERECTION NOTE:**  
 ALL BRACING, STRAPPING, & BRIDGING SHOWN AND PROVIDED BY M.B.S. FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND INSTALL AS NEEDED.
- 1.9 **ERECTION AND UNLOADING NOT BY G.W.B.**
- 1.10 **SHORTAGES**  
 ANY CLAIMS OR SHORTAGES BY BUYER MUST BE MADE TO M.B.S. WITHIN FIVE (5) WORKING DAYS AFTER DELIVERY, OR SUCH CLAIMS WILL BE CONSIDERED TO HAVE BEEN WAIVED BY THE CUSTOMER AND DISALLOWED.
- 1.11 **CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)**  
 CLAIMS FOR CORRECTION OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS M.B.S. SHALL HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY THE USE OF DRIFT PINS TO DRAW THE COMPONENTS INTO LINE, MODERATE AMOUNTS OF REAMING, CHIPPING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM. NO PART OF THE BUILDING MAY BE RETURNED FOR ALLEGED MISFITS WITHOUT THE PRIOR APPROVAL OF M.B.S.

BUYER/END USE CUSTOMER RESPONSIBILITIES

- 2.1 IT IS THE RESPONSIBILITY OF THE BUYER/END USE CUSTOMER TO OBTAIN APPROPRIATE APPROVALS AND SECURE NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES AS REQUIRED, AND TO ADVISE/RELEASE M.B.S. TO FABRICATE UPON RECEIVING SUCH.
- 2.2 METAL BUILDING SUPPLIER (HEREAFTER REFERRED TO AS M.B.S.) STANDARD SPECIFICATIONS APPLY UNLESS STIPULATED OTHERWISE IN THE CONTRACT DOCUMENTS. M.B.S. DESIGN, FABRICATION, QUALITY CRITERIA, STANDARDS, PRACTICE, METHODS AND TOLERANCES SHALL GOVERN THE WORK WITH ANY OTHER INTERPRETATIONS TO THE CONTRARY NOTWITHSTANDING. IT IS UNDERSTOOD BY BOTH PARTIES THAT THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR CLARIFICATION OF INCLUSIONS OR EXCLUSIONS FROM THE ARCHITECTURAL PLANS AND/OR SPECIFICATIONS.
- 2.3 IN CASE OF DISCREPANCIES BETWEEN M.B.S. STRUCTURAL STEEL PLANS AND PLANS FOR OTHER TRADES, M.B.S. PLANS SHALL GOVERN. (SECTION 3 AISC CODE OF STANDARD PRACTICES, LATEST EDITION)
- 2.4 APPROVAL OF M.B.S. DRAWINGS AND CALCULATIONS INDICATE THE M.B.S. HAS CORRECTLY INTERPRETED AND APPLIED THE CONTRACT DOCUMENTS. THIS APPROVAL CONSTITUTES THE CONTRACTOR/OWNERS ACCEPTANCE OF THE M.B.S. DESIGN CONCEPTS, ASSUMPTIONS, AND LOADING. (SECTION 4 AISC CODE AND MBMA 3.3.3)
- 2.5 ONCE THE BUYER/END USE CUSTOMER HAS SIGNED M.B.S. APPROVAL PACKAGE AND THE PROJECT IS RELEASED FOR FABRICATION, CHANGES SHALL BE BILLED TO THE BUYER/END USE CUSTOMER INCLUDING MATERIAL, ENGINEERING AND OTHER COSTS. AN ADDITIONAL FEE MAY BE CHARGED IF THE PROJECT MUST BE MOVED FROM THE FABRICATION AND SHIPPING SCHEDULE.

- 2.6 THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR OVERALL RESPONSIBILITY FOR OVERALL PROJECT COORDINATION, ALL INTERFACE, COMPATIBILITY, AND DESIGN CONSIDERATIONS CONCERNING ANY MATERIALS NOT FURNISHED BY M.B.S. AND M.B.S. STEEL SYSTEM ARE TO BE CONSIDERED AND COORDINATED BY THE BUYER/END USE CUSTOMER. SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS MUST BE FURNISHED BEFORE RELEASE FOR FABRICATION OR M.B.S. ASSUMPTIONS WILL GOVERN (AISC CODE OF STANDARD PRACTICE, LATEST EDITION)
- 2.7 IT IS THE RESPONSIBILITY OF THE BUYER/END USE CUSTOMER TO INSURE THAT M.B.S. PLANS 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 M.B.S. OR ITS DESIGN ENGINEERS ARE ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT. THESE DRAWINGS ARE SEALED ONLY TO CERTIFY THE DESIGN OF THE STRUCTURAL COMPONENTS FURNISHED BY M.B.S.
- 2.8 THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL IN ACCORDANCE WITH M.B.S. "FOR ERECTION" DRAWINGS ONLY. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. NO ITEMS SHOULD BE PURCHASED FROM A PRELIMINARY SET OF DRAWINGS, INCLUDING ANCHOR BOLTS. USE ONLY FINAL "FOR ERECTION" DRAWINGS FOR THIS USE. (AISC CODE OF STANDARD PRACTICE, LATEST EDITION.)
- 2.9 METAL BUILDING SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLTS TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IT IS NOT RESPONSIBLE FOR THE TRANSFER OF ANCHOR BOLT FORCES TO THE CONCRETE OR THE ADEQUACY OF THE ANCHOR BOLT IN RELATION TO THE CONCRETE. UNLESS OTHERWISE NOTED PROVIDED IN THE ORDER DOCUMENTS, M.B.S. DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION OR FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD BE ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES. (LATEST MBMA LOW RISE BUILDING SYSTEMS MANUAL)
- 2.10 NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTIONS OF MINOR MISFITS BY MODERATE AMOUNTS OF REAMING, CHIPPING, WELDING OR CUTTING, AND THE DRAWING OF ELEMENTS INTO LINE THROUGH THE USE OF DRIFT PINS. ERRORS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN MEMBER CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO M.B.S. BY THE BUYER/END USE CUSTOMER, TO ENABLE WHOEVER IS RESPONSIBLE EITHER TO CORRECT THE ERROR OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECT TO BE USED BY OTHERS. (AISC CODE OF STANDARD PRACTICE LATEST EDITION)
- 2.11 NEITHER THE FABRICATOR NOR THE BUYER/END USE CUSTOMER WILL CUT, DRILL OR OTHERWISE ALTER HIS WORK, OR THE WORK OF OTHER TRADES, TO ACCOMMODATE OTHER TRADES, UNLESS SUCH WORK IS CLEARLY SPECIFIED IN THE CONTRACT DOCUMENTS. WHENEVER SUCH WORK IS SPECIFIED, THE BUYER/END USE CUSTOMER IS RESPONSIBLE FOR FURNISHING COMPLETE INFORMATION AS TO MATERIALS, SIZE, LOCATION AND NUMBER OF ALTERATIONS PRIOR TO PREPARATION OF SHOP DRAWINGS. (AISC CODE OF STANDARD PRACTICE LATEST EDITION)
- 2.12 **WARNING:** IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSIVE EFFECTS ON THE GALVALUME ALLOY COATING WHEN THEY ARE IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.
- 2.13 **SAFETY COMMITMENT:** METAL BUILDING SUPPLIER 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 M.B.S. IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE. LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKERS SAFETY. MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES. DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL, AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.
- 2.14 ROOF DRAINAGE SYSTEMS (GUTTER, DOWNSPOUTS, ETC.) MUST BE FREE OF ANY OBSTRUCTION TO ENSURE SMOOTH OPERATION AT ANY GIVEN TIME.
- 2.15 IT IS RECOMMENDED BY FACTORY MUTAL (REFERENCE B2.44) THAT ROOFS BE CLEARED OF SNOW WHEN HALF OF THE MAXIMUM SNOW DEPTH IS REACHED. THE MAXIMUM SNOW DEPTH CAN BE ESTIMATED BASED ON THE DESIGN SNOW LOAD AND THE DENSITY OF SNOW AND/OR ICE BUILDUP. SEE TABLE BELOW.

ROOF SNOW LOAD (IN PSF)	EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES)	RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES)
20	16.60	8.30
25	17.25	8.62
30	17.90	8.95
35	18.55	9.28
40	19.20	9.60
45	19.85	9.92
50	20.50	10.25
55	21.15	10.58
60	21.80	10.90
65	22.45	11.22
70	23.10	11.55
75	23.75	11.88
80	24.40	12.20

NOTE:  
 FOR SNOW/ICE REMOVAL PROCEDURE, REFER TO METAL BUILDING SYSTEM MANUAL 2002 EDITION, SECTION A8.4, PAGE XI-A8-2

BUILDING LOADS

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

- DESIGN LOADS:**
- DESIGN CODE / WIND CODE : IBC-15
  - OCCUPANCY / RISK CATEGORY : II-Normal
  - ENCLOSURE : Closed
  - ROOF DEAD LOAD (D) (PSF) : 2.20
  - ROOF COLLATERAL LOAD (C) (PSF) : 1.00
  - WIND LOAD :
    - ULTIMATE WIND SPEED, (VULT) (MPH) : 130.00
    - WIND EXPOSURE CATEGORY : C
    - INTERNAL PRESSURE COEFFICIENT, (GCpi) : 0.18/-0.18
    - WALL PANEL DESIGN WIND PRESSURE (PSF) : 36.94/-40.07
    - WIND ENCLOSURE CLASSIFICATION : Closed
  - LIVE LOAD :
    - PRIMARY FRAMING (PSF) : 20.00
    - TRIB. AREA REDUCTION : No
    - SECONDARY FRAMING (PSF) : 20.00
  - SNOW LOAD :
    - GROUND SNOW LOAD, (Pg) (PSF) : 60.00
    - ROOF SNOW LOAD, (Pf) (PSF) : 60.00
    - SNOW EXPOSURE FACTOR, (Ce) : 1.00
    - SNOW IMPORTANCE FACTOR, (Is) : 1.00
    - THERMAL FACTOR, (Ct) : 1.20
  - SEISMIC LOAD :
    - SEISMIC IMPORTANCE FACTOR, (Ie) : 1.00
    - SITE CLASSIFICATION : D
    - SPECTRAL RESPONSE ACCELERATION : Ss = 0.198 : S1 = 0.063
    - SPECTRAL RESPONSE COEFFICIENTS : Sds = 0.211 : Sd1 = 0.101
    - SEISMIC DESIGN CATEGORY : B
    - BASIC SEISMIC FORCE RESISTING SYSTEM : STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR RESISTANCE
  - TOTAL DESIGN BASE SHEAR, (V) (KIPS) :
    - RIGID FRAMES (OMF) : 1.89
    - BRACED FRAMES (OCBF/OMF) : 1.90
    - LONGITUDINAL = 1.89
    - TRANSVERSE = 1.90
  - RESPONSE MODIFICATION FACTORS, (R) : RIGID FRAMES = 3.00 Ω = 2.50
  - SEISMIC RESPONSE COEFFICIENTS, (Cs) : RIGID FRAMES = 0.0704
  - ANALYSIS PROCEDURE USED : EQUIVALENT LATERAL FORCE PROCEDURE
  - OTHER LOADS/REQUIREMENTS

THIS BUILDING IS DESIGNED USING PANEL SHEAR BRACING. NO ADDITIONAL OPENINGS ARE TO BE ADDED WITHOUT CONSULTING THE ORIGINAL DESIGN ENGINEER OR A LOCAL ENGINEERING PROFESSIONAL.

BUILDING DESCRIPTION:

- WIDTH (FT) : 30.00
- LENGTH (FT) : 48.00
- EAVE HEIGHT AT BSW (FT) : 12.00
- EAVE HEIGHT AT FSW (FT) : 12.00
- ROOF SLOPE AT BSW : 5.0:12
- ROOF SLOPE AT FSW : 5.0:12
- BAY SPACING (FT) : 1 AT 17, 1 AT 15, 1 AT 16

COVERING AND TRIMS:

- ROOF PANELS & TRIMS :
  - PANEL TYPE : 26 GA. PBR
  - PANEL COLOR : GALVALUME
  - TRIM COLORS :
    - GABLE/EAVE : KOKO BROWN
    - EAVE GUTTER : N/A
- WALL PANELS & TRIMS :
  - PANEL TYPE : 26 GA. PBR
  - PANEL COLOR : EVERGREEN
  - TRIM COLORS :
    - CORNER : KOKO BROWN
    - FRAMED OPENING : KOKO BROWN
    - DOWNSPOUTS : N/A
    - BASE : EVERGREEN
- INSULATION :
  - ROOF INSULATION : N/A
  - WALL INSULATION : N/A

CHK.	ENG.	DATE	DWN.	MEZ	CAF	RTS	MEZ	CAF	RTS	MEZ	CAF	RTS
		03/30/21										
		06/21/21										
		12/01/21										
		07/25/21										



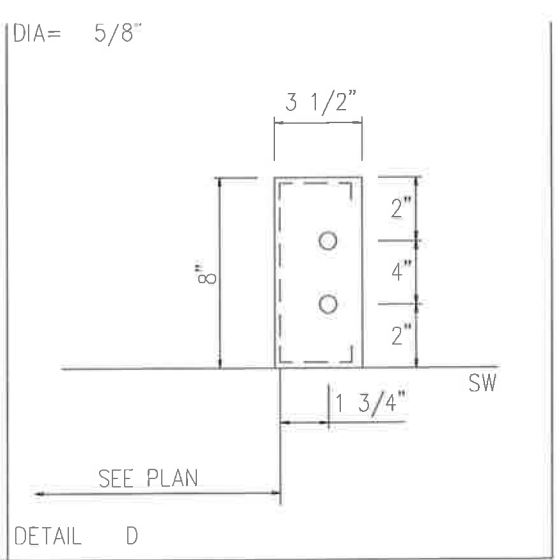
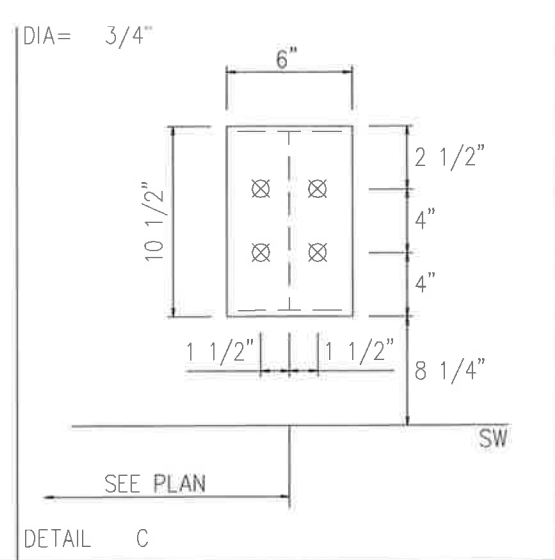
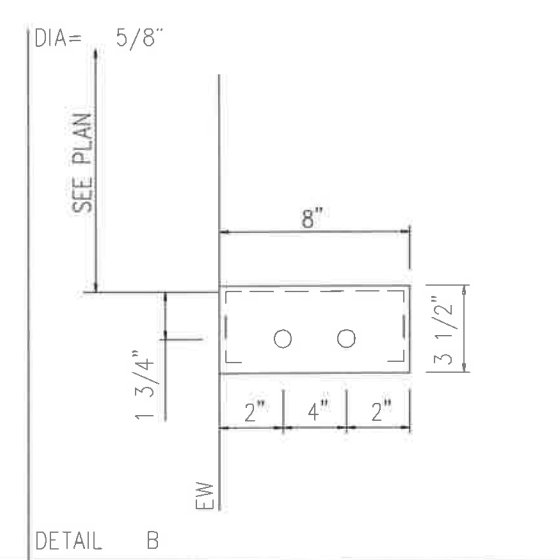
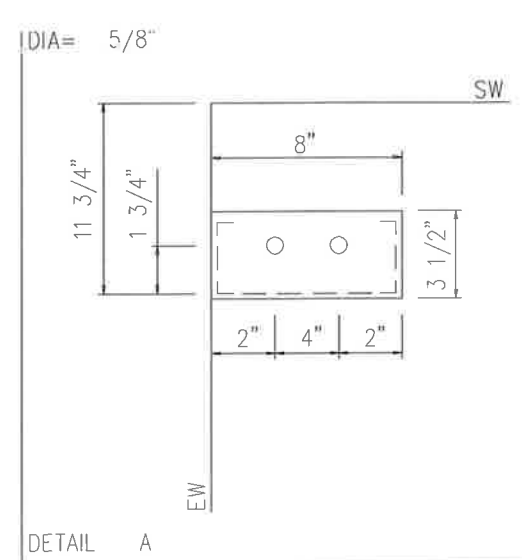
3033 S. PARKER RD 12 FLOOR  
 AURORA, CO 80014  
 PHONE: (800)-497-2135  
 WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: RICHARD GRAYCOWSKI	PROJECT NAME: RICHARD GRAYCOWSKI
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809	PROJECT COUNTY: EL PASO
PROJECT END USE: WORKSHOP/GARAGE	CUSTOMER PHONE NUMBER: 719.235.7218
SCALE: N.T.S.	REDSKIZONE@YAHOO.COM
SHEET NUMBER: 2 OF 16	JOB NUMBER: 93452R1
SHEET TITLE: BUILDING INFO COVERSHEET	



**REVIEWED**  
 By Richard T Smith at 1:49 pm, Jan 27, 2022

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ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	03/07/21	MEZ	MEZ	RTS
PERMIT	06/27/21	MB	CAF	RTS
ERECTION	12/07/21	JMM	JMM	RTS
REVISED PERMIT	07/25/22	AA	CAF	RTS

3033 S. PARKER RD 12 FLOOR  
 AURORA, CO 80014  
 PHONE: (800)-497-2135  
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 CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
 SCALE: N.T.S.  
 SHEET NUMBER: 4 OF 16  
 JOB NUMBER: 93452R1  
 SHEET TITLE: ANCHOR BOLT DETAILS

NOTE:  
 MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. G.W.B. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ANCHOR BOLT DIAMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING ENGINEER BASED ON AISC METHOD WITH COMBINED SHEAR AND TENSION.  
 DEVELOPMENT, EMBEDMENT AND HOOK LENGTH OF ANCHOR BOLTS IN THE CONCRETE ARE DESIGN RESPONSIBILITY OF OTHERS. ALSO DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DESIGNED AND PROVIDED BY OTHERS.

NOTE: ANCHOR BOLT PROJECTION IS FROM BOTTOM OF BASE PLATE.

Anchor Bolt Diameter	Projection
1/2"	1 1/2"
5/8"	2"
3/4"	2 1/2"
7/8"	3 1/2"
1"	3 1/2"
1 1/8"	3 1/2"
1 1/4"	3 1/2"

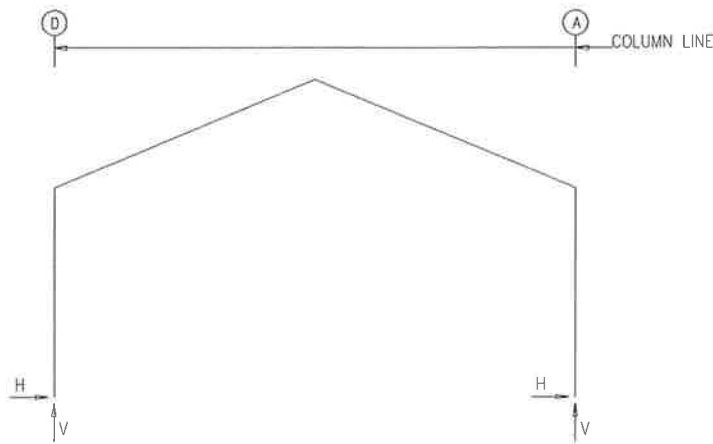
CONCRETE NOTCH AND ANCHOR BOLT PROJECTION

CONCRETE DETAIL AT OVERHEAD DOOR



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ENDWALL COLUMN:

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
1	D	0.1	0.0	0.5	1.6	-0.5	-0.5	0.2	0.2	-0.8	0.9	-1.5	-1.3
1	C	0.4	0.1	2.1	6.2	-2.7	-2.6	-1.9	-1.8	-2.1	2.4	-2.8	-1.5
1	B	0.4	0.1	2.1	6.2	-2.6	-2.7	-1.8	-1.9	-2.1	2.4	-1.5	-2.8
1	A	0.1	0.0	0.5	1.6	-0.5	-0.5	0.2	0.2	-0.8	0.9	-1.3	-1.5

Frm Line	Col Line	Seis Left Vert	Seis Right Vert	E1UNB_SL_L- Horz	E1UNB_SL_L- Vert	E1UNB_SL_R- Horz	E1UNB_SL_R- Vert
1	D	0.0	0.1	0.0	1.6	0.0	0.3
1	C	0.0	-0.1	0.0	7.1	0.0	2.8
1	B	-0.1	0.0	0.0	2.8	0.0	7.1
1	A	0.1	0.0	0.0	0.3	0.0	1.6

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
4	A	0.1	0.0	0.5	1.5	-0.5	-0.5	0.2	0.2	-0.8	0.9	-1.4	-1.2
4	B	0.4	0.1	1.9	5.8	-2.6	-2.5	-1.9	-1.8	-2.1	2.4	-2.7	-1.4
4	C	0.4	0.1	1.9	5.8	-2.5	-2.6	-1.8	-1.9	-2.1	2.4	-1.4	-2.7
4	D	0.1	0.0	0.5	1.5	-0.5	-0.5	0.2	0.2	-0.8	0.9	-1.2	-1.4

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

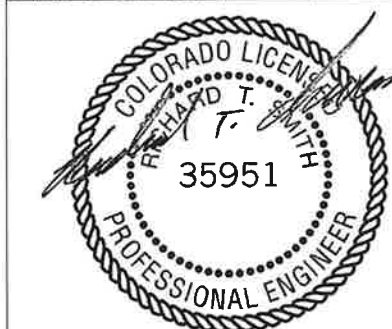
Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) QTY	DIA	Base_Plate(in) Width	Length	Thick	Grout (in)
2*	D	1	4.7	15.6	4	-2.4	-1.4	4	0.750	6.000	10.50	0.375	0.0
2*	A	5	2.4	-1.4	1	-4.7	-3.1	4	0.750	6.000	10.50	0.375	0.0
2*	FRAME lines:	2	3										

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

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) QTY	DIA	Base_Plate(in) Width	Length	Thick	Grout (in)
1	D	6	0.5	-0.8	7	-0.5	-0.8	2	0.625	3.500	8.000	0.250	0.0
1	C	6	1.4	-1.5	7	-1.3	-1.5	2	0.625	3.500	8.000	0.250	0.0
1	B	9	1.4	-1.5	10	-1.3	-1.5	2	0.625	3.500	8.000	0.250	0.0
1	A	9	0.5	-0.8	10	-0.5	-0.8	2	0.625	3.500	8.000	0.250	0.0
4	A	6	0.5	-0.8	7	-0.5	-0.8	2	0.625	3.500	8.000	0.250	0.0
4	B	6	1.4	-1.4	7	-1.3	-1.4	2	0.625	3.500	8.000	0.250	0.0
4	C	9	1.4	-1.4	10	-1.3	-1.4	2	0.625	3.500	8.000	0.250	0.0
4	D	9	0.5	-0.8	10	-0.5	-0.8	2	0.625	3.500	8.000	0.250	0.0



CUSTOMER NAME: RICHARD GRAYCOWSKI  
 PROJECT NAME: RICHARD GRAYCOWSKI  
 PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809  
 PROJECT COUNTY: EL PASO  
 PROJECT END USE: WORKSHOP/GARAGE  
 CUSTOMER PHONE NUMBER: 719.235.7218  
 CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
 SCALE: N.T.S.  
 SHEET NUMBER: 5 OF 16  
 JOB NUMBER: 93452R1  
 SHEET TITLE: ANCHOR BOLT REACTIONS



**REVIEWED**  
 By Richard T Smith at 1:49 pm, Jan 27, 2022

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RIGID FRAME: BASIC COLUMN REACTIONS (k)

FRAME Line	Column Line	---Dead--- Horiz	---Collateral--- Vert	---Live--- Horiz	---Snow--- Horiz	---Wind_Left1--- Horiz	---Wind_Right1--- Horiz	---Wind_Left2--- Horiz	---Wind_Right2--- Horiz	---Seismic_Left--- Horiz	Seismic_Right Horiz		
2*	D	0.2	0.9	0.1	0.3	1.4	4.8	4.3	14.4	-3.8	-6.1	2.0	-3.6
2*	A	-0.2	0.9	-0.1	0.3	-1.4	4.8	-4.3	14.4	-2.0	-3.6	3.8	-6.1

FRAME Line	Column Line	--Wind_Left2-- Horiz	--Wind_Right2-- Horiz	--Wind_Long1-- Horiz	--Wind_Long2-- Horiz	--Seismic_Left-- Horiz	Seismic_Right Horiz						
2*	D	-4.3	-3.3	1.6	-0.9	1.1	-5.4	0.1	-5.2	-0.3	0.2	0.3	0.2
2*	A	-1.6	-0.9	4.3	-3.3	-0.1	-5.2	-1.1	-5.4	-0.3	0.2	0.3	-0.2

FRAME Line	Column Line	F1UNB_SL_L- Horiz	F1UNB_SL_L- Vert	F1UNB_SL_R- Horiz	F1UNB_SL_R- Vert
2*	D	3.5	13.7	3.5	8.0
2*	A	-3.5	8.0	-3.5	13.7

2\* FRAME lines: 2 3

RIGID FRAME: BASIC COLUMN REACTIONS (k)

FRAME Line	Column Line	---Dead--- Horiz	---Collateral--- Vert	---Live--- Horiz	---Snow--- Horiz	---Wind_Left1--- Horiz	---Wind_Right1--- Horiz	---Wind_Left2--- Horiz	---Wind_Right2--- Horiz	---Seismic_Left--- Horiz	Seismic_Right Horiz		
2*	D	0.2	0.9	0.1	0.3	1.4	4.8	4.3	14.4	-3.8	-6.1	2.0	-3.6
2*	A	-0.2	0.9	-0.1	0.3	-1.4	4.8	-4.3	14.4	-2.0	-3.6	3.8	-6.1

FRAME Line	Column Line	--Wind_Left2-- Horiz	--Wind_Right2-- Horiz	--Wind_Long1-- Horiz	--Wind_Long2-- Horiz	--Seismic_Left-- Horiz	Seismic_Right Horiz						
2*	D	-4.3	-3.3	1.6	-0.9	1.1	-5.4	0.1	-5.2	-0.3	0.2	0.3	0.2
2*	A	-1.6	-0.9	4.3	-3.3	-0.1	-5.2	-1.1	-5.4	-0.3	0.2	0.3	-0.2

FRAME Line	Column Line	F1UNB_SL_L- Horiz	F1UNB_SL_L- Vert	F1UNB_SL_R- Horiz	F1UNB_SL_R- Vert
2*	D	3.5	13.7	3.5	8.0
2*	A	-3.5	8.0	-3.5	13.7

2\* FRAME lines: 2 3

- NOTES FOR REACTIONS
- Building reactions are based on the following building data:
- Width (ft) = 30.00
  - Length (ft) = 48.00
  - Eave Height (ft) = 12.00/12.00
  - Roof Slope (rise/12) = 5.0:12/5.0:12
  - Dead Load (psf) = 2.20
  - Collateral Load (psf) = 1.00
  - Live Load (psf) = 20.00
  - Snow Load (psf) = 60.00
  - Ultimate Wind Speed (mph) = 130.00
  - Wind Code = IBC-15
  - Exposure = C
  - Closed/Open = Closed
  - Importance Wind = 1.00
  - Importance Seismic = 1.00
  - Seismic Zone = B
  - Seismic Coeff (Fo\*Fs) = 0.32
- ID Description
- 1 Dead+Collateral+Snow+Slide\_Snow
  - 2 0.6Dead+0.6Wind\_Left1
  - 3 0.6Dead+0.6Wind\_Right1
  - 4 0.6Dead+0.6Wind\_Left2
  - 5 0.6Dead+0.6Wind\_Right2
  - 6 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long1L
  - 7 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L
  - 8 Dead+Collateral+E1UNB\_SL\_L
  - 9 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long2L
  - 10 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L
  - 11 Dead+Collateral+E1UNB\_SL\_R
  - 12 Dead+Collateral+E2UNB\_SL\_L
  - 13 Dead+Collateral+E2UNB\_SL\_R

BUILDING BRACING REACTIONS

Loc	Line	---Wall--- Col Line	---Wind--- Horiz	---Seismic--- Horiz	Panel_Shear (lb/ft) Wind	Seis
L_EW	1				62	30
F_SW	A				98	35
R_EW	4				60	28
B_SW	D				55	20

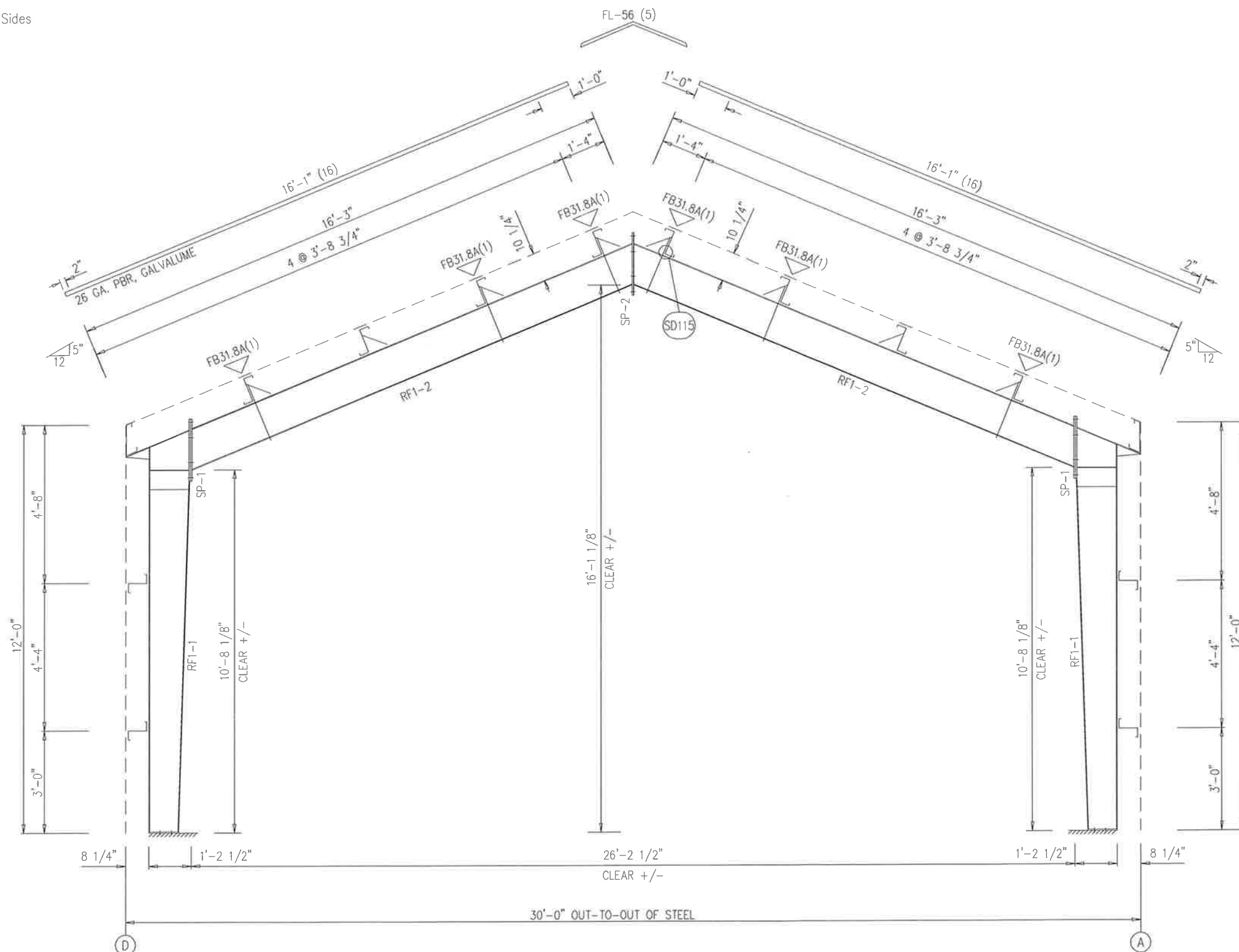
ANCHOR BOLT SUMMARY

QTY	LOCATE	DIA (in)	TYPE
12	JAMB	5/8"	A307
16	ENDWALL	5/8"	A307
16	FRAME	3/4"	A307

SPLICE BOLT TABLE						
Mark	Qty		Int	Type	Dia	Length
	Top	Bot				
SP-1	4	4	0	A325	5/8"	2"
SP-2	4	4	0	A325	5/8"	1 3/4"

MEMBER TABLE						
Mark	Web Depth		Web Plate		Outside Flange	Inside Flange
	Start/End	Thick	Length	Length	W x Thk x Length	W x Thk x Length
RF1-1	10.0/13.9	0.135	10'-0 13/16"	1'-8 13/16"	5 x 1/4" x 11'-3 11/16"	5 x 1/4" x 10'-3 7/8"
RF1-2	13.9/14.0	0.164	1'-8 13/16"	14'-6 9/16"	5 x 1/4" x 2'-0 1/4"	
RF1-2	13.0/13.0	0.135	14'-6 9/16"	14'-6 9/16"	5 x 1/4" x 14'-1"	5 x 1/4" x 14'-1"

▽ FLANGE BRACES: FBxx (1 or 2)  
 xx=length(in)  
 (1) One Side; (2) Two Sides  
 A - 2X2X14Ga



RIGID FRAME ELEVATION: FRAME LINES 2 3

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	03/20/21	MEZ	MEZ	RTS
PERMIT	06/21/21	MB	CAF	RTS
ERECTION	12/01/21	JMM	JMM	RTS
REVISED PERMIT	01/25/22	AA	CAF	RTS

3033 S. PARKER RD 12 FLOOR  
 AURORA, CO 80014  
 PHONE: (800)-497-2135  
 WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: RICHARD GRAYCZKOWSKI  
 PROJECT NAME: RICHARD GRAYCZKOWSKI  
 PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809  
 PROJECT COUNTY: EL PASO  
 PROJECT END USE: WORKSHOP/GARAGE  
 CUSTOMER PHONE NUMBER: 719.235.7218  
 CUSTOMER EMAIL: REDSKITZONE@YAHOO.COM  
 SCALE: N.T.S.

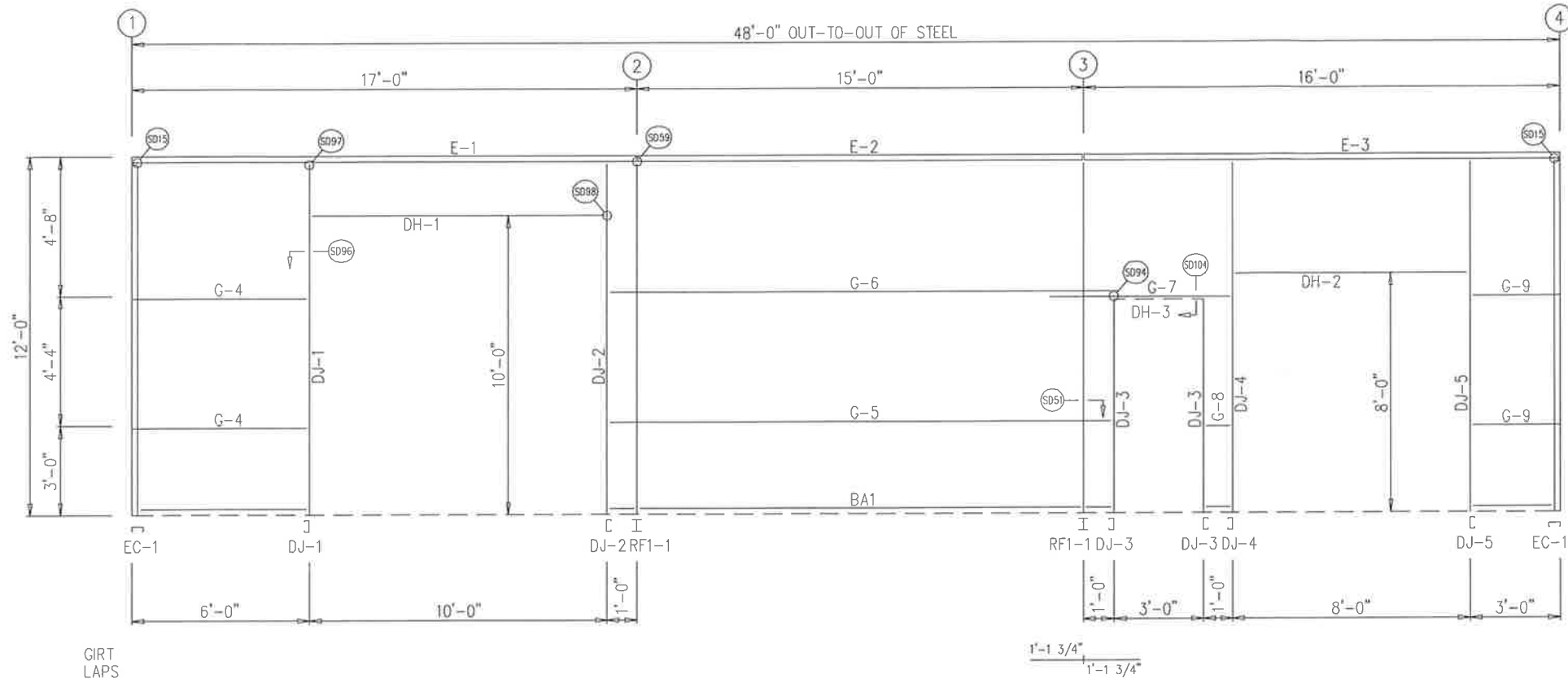
SHEET NUMBER: 6 OF 16  
 JOB NUMBER: 93452R1  
 SHEET TITLE: RIGID FRAME ELEVATION



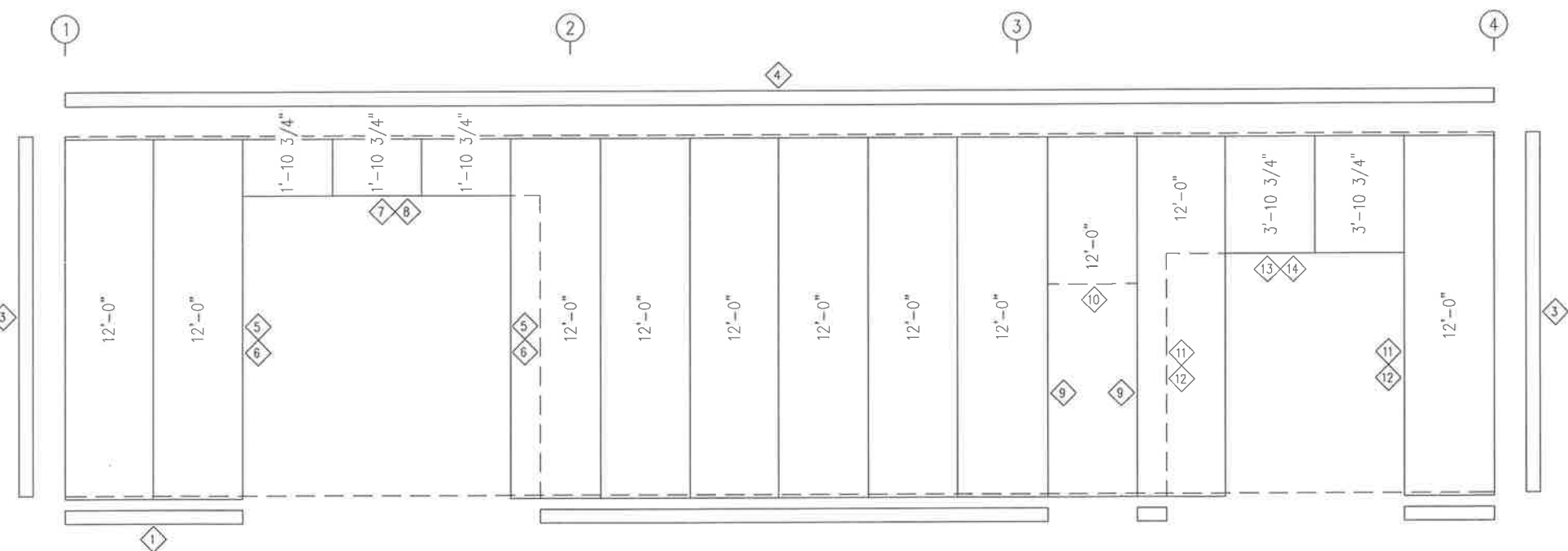
**REVIEWED**  
 By Richard T Smith at 1:49 pm, Jan 27, 2022

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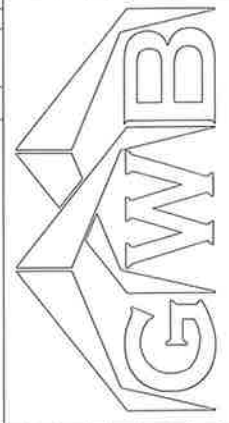
SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A  
PANELS: 26 GA. PBR - EVERGREEN

IRIM TABLE FRAME LINE A					CHK.	ENG.
ID	QUAN	PART	LENGTH	DETAIL	MEZ	RTS
1	3	FL-60	10'-2"	TD74		
3	2	FL-10	12'-0"	TD40		
4	5	FL-214	9'-10"	TD17		
5	2	FL-55	10'-2"	TD51		
6	2	FL-48	10'-2"	TD51		
7	1	FL-55	10'-7"	TD52		
8	1	FL-52	10'-4"	TD52		
9	2	FL-48	7'-2"	TD51		
10	1	FL-52	3'-4"	TD52		
11	2	FL-55	8'-2"	TD51		
12	2	FL-48	8'-2"	TD51		
13	1	FL-55	8'-7"	TD52		
14	1	FL-52	8'-4"	TD52		

MEMBER TABLE FRAME LINE A			
QUAN	MARK	PART	LENGTH
1	DJ-1	8x25C16	11'-4 1/4"
1	DJ-2	8x25C16	11'-4 1/4"
2	DJ-3	8x25C16	7'-4"
1	DJ-4	8x25C16	11'-4 1/4"
1	DJ-5	8x25C16	11'-4 1/4"
1	DH-1	8x25C16	9'-11 1/2"
1	DH-2	8x25C16	7'-11 1/2"
1	DH-3	8x25C16	3'-0"
1	E-1	L10E16-5	16'-11 1/2"
1	E-2	L10E16-5	14'-11 1/2"
1	E-3	L10E16-5	15'-11 1/2"
2	G-4	8X25Z16	5'-7 3/4"
1	G-5	8X25Z16	16'-4"
1	G-6	8X25Z16	16'-9 3/4"
1	G-7	8X25Z16	5'-9 3/4"
1	G-8	8X25Z16	4"
2	G-9	8X25Z16	2'-7 3/4"



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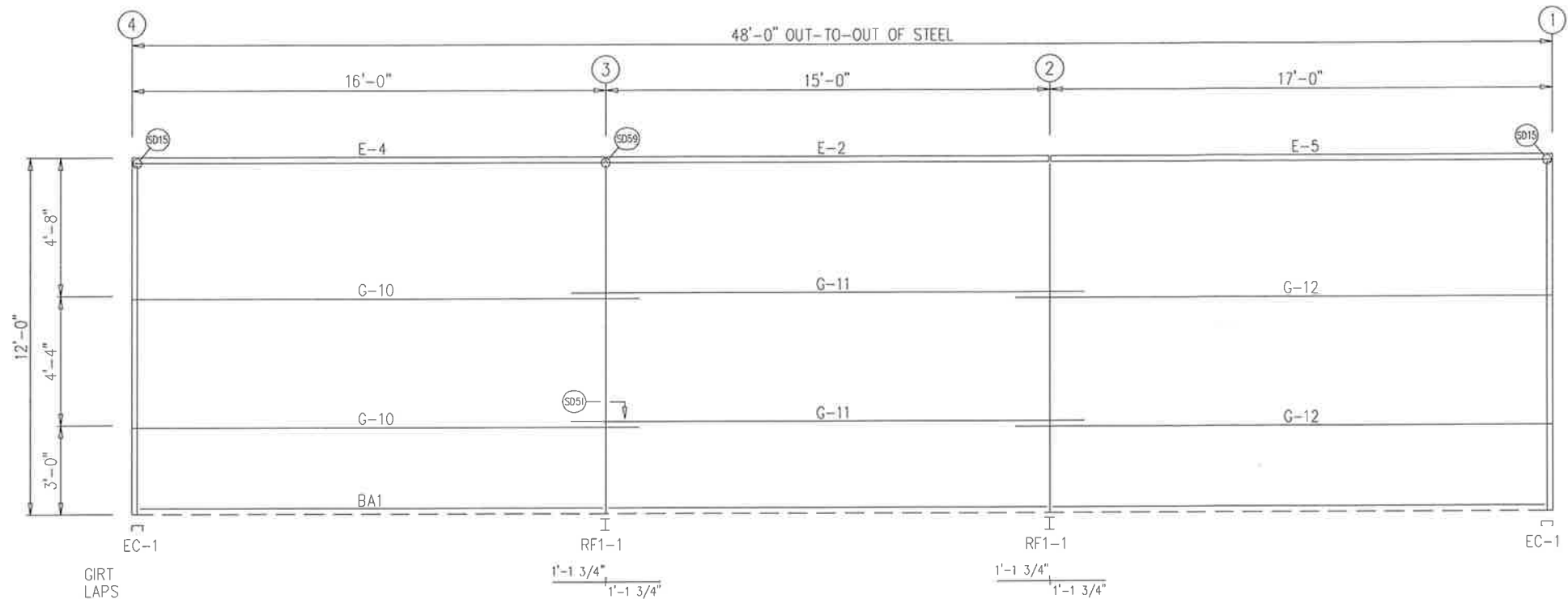
CUSTOMER NAME: RICHARD GRAYCOWSKI  
PROJECT NAME: RICHARD GRAYCOWSKI  
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809  
PROJECT COUNTY: EL PASO  
PROJECT END USE: WORKSHOP/GARAGE  
CUSTOMER PHONE NUMBER: 719.235.7218  
CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
SCALE: N.T.S.

SHEET NUMBER: 7 OF 16  
JOB NUMBER: 93452R1  
SHEET TITLE: SIDEWALL FRAMING & SHEETING

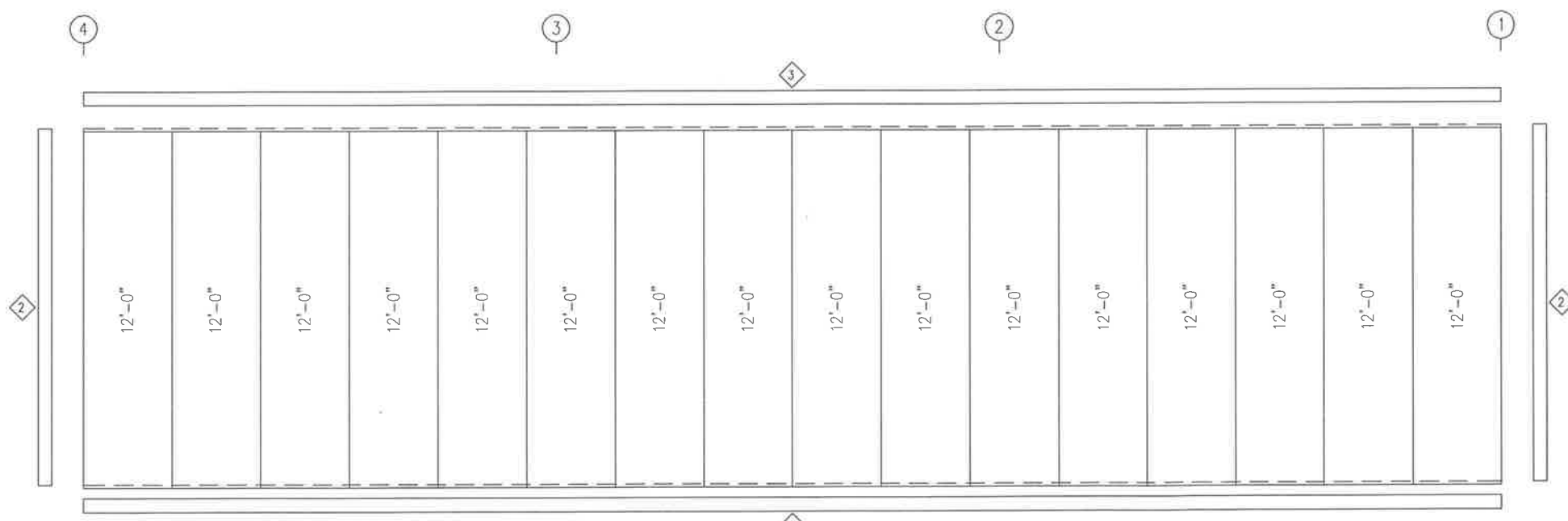


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SIDEWALL FRAMING: FRAME LINE D



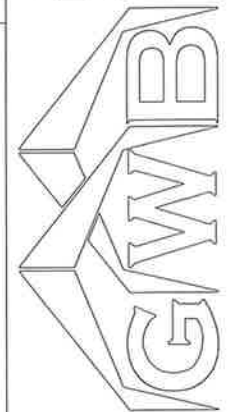
SIDEWALL SHEETING & TRIM: FRAME LINE D  
PANELS: 26 GA. PBR - EVERGREEN

IRIM TABLE  
FRAME LINE D

ID	QUAN	PART	LENGTH	DETAIL	CHK.	ENG.
1	5	FL-60	10'-2"	TD74	MEZ	RTS
2	2	FL-10	12'-0"	TD40	CAF	RTS
3	5	FL-214	9'-10"	TD17	JMM	RTS

MEMBER TABLE  
FRAME LINE D

QUAN	MARK	PART	LENGTH
1	E-2	L10E16-5	14'-11 1/2"
1	E-4	L10E16-5	15'-11 1/2"
1	E-5	L10E16-5	16'-11 1/2"
2	G-10	8X25Z16	17'-1 1/2"
2	G-11	8X25Z16	17'-3 1/2"
2	G-12	8X25Z16	18'-1 1/2"



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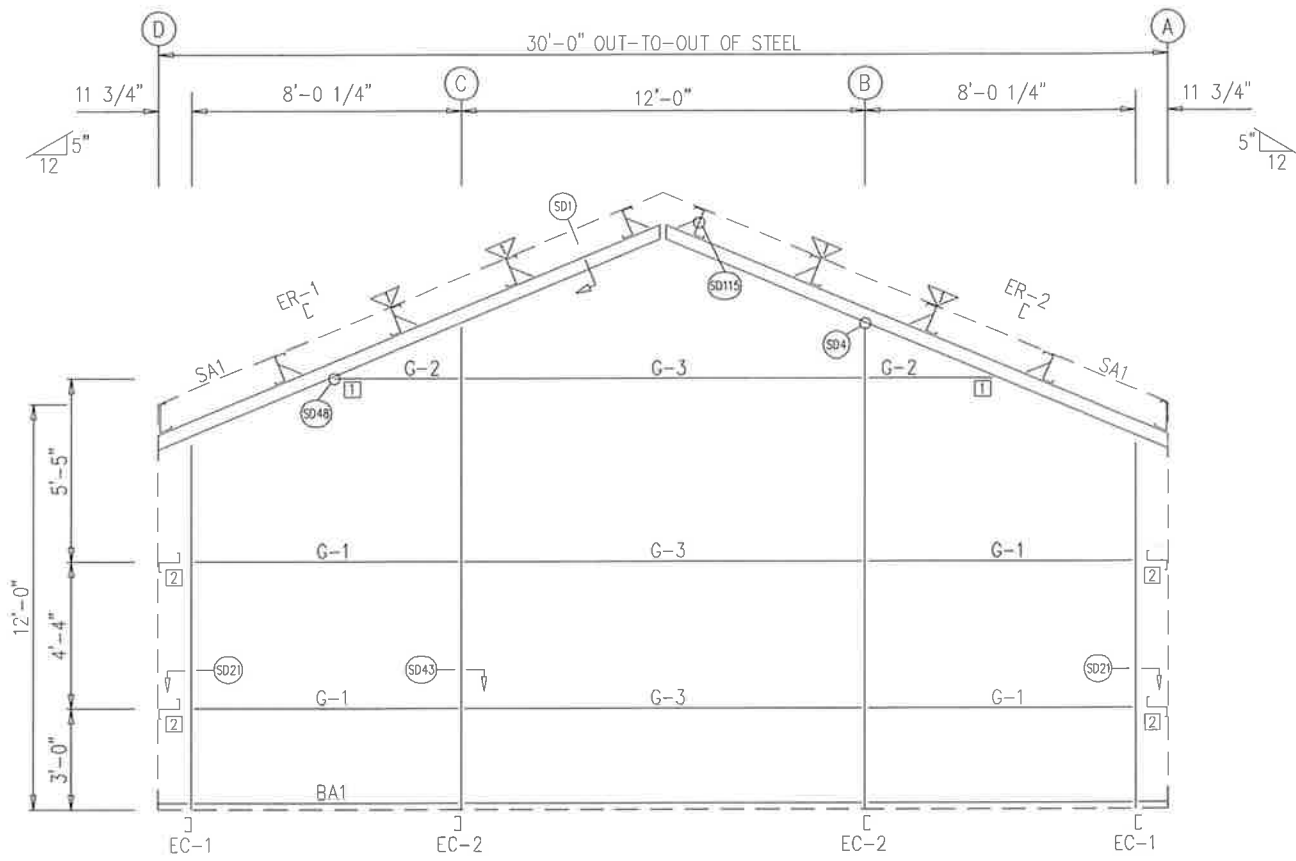
CUSTOMER NAME: RICHARD GRAYCOWSKI  
PROJECT NAME: RICHARD GRAYCOWSKI  
PROJECT LOCATION: BE15 US-24, CASCADE, CO 80809  
PROJECT COUNTY: EL PASO  
PROJECT END USE: WORKSHOP/GARAGE  
CUSTOMER PHONE NUMBER: 719.235.7218  
CUSTOMER EMAIL: REDSKITZONE@YAHOO.COM  
SCALE: N.T.S.

SHEET NUMBER: 8 OF 16  
JOB NUMBER: 93452R1  
SHEET TITLE: SIDEWALL FRAMING & SHEETING

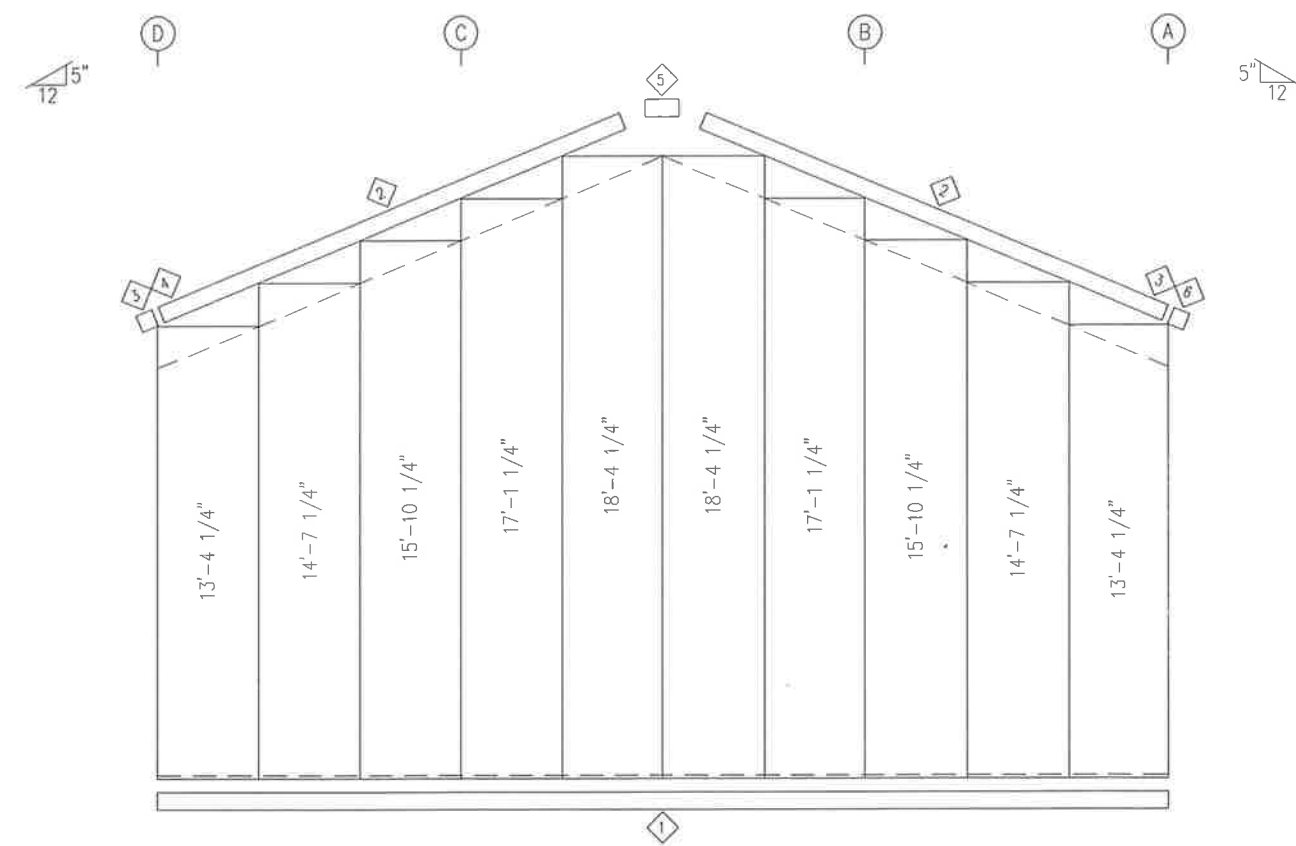


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ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1  
PANELS: 26 GA. PBR - EVERGREEN

TRIM TABLE  
FRAME LINE 1

ID	QUAN	PART	LENGTH	DETAIL	CHK.	ENG.
1	3	FL-60	10'-2"	TD74	MEZ	RTS
2	4	FL-15	8'-9"	TD36	CAF	RTS
3	2	FL-601F	8 5/16"	TD85	JMM	RTS
4	1	FL-600L	5 5/8"	TD13	AA	RTS
5	1	FL-17	1'-4"			
6	1	FL-600R	5 5/8"	TD13		

BOLT TABLE  
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	4	A325	5/8"	1 3/4"
COLUMNS/RAFTER	2	A325	5/8"	1 1/2"

MEMBER TABLE  
FRAME LINE 1

QUAN	MARK	PART	LENGTH
2	EC-1	8x25C16	10'-8 3/8"
2	EC-2	8x25C12	14'-0 1/2"
1	ER-1	8x25C12	16'-2 3/4"
1	ER-2	8x25C12	16'-2 3/4"
4	G-1	8X25Z16	7'-8"
2	G-2	8X25Z16	2'-7 11/16"
3	G-3	8X25Z16	11'-11 1/2"

CONNECTION PLATES  
FRAME LINE 1

ID	QUAN	MARK
1	2	CL-109
2	4	CL-5

FLANGE BRACE TABLE  
FRAME LINE 1

ID	QUAN	MARK
1	4	FB29.5

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CUSTOMER NAME: RICHARD GRAYCOWSKI  
PROJECT NAME: RICHARD GRAYCOWSKI  
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80805  
PROJECT COUNTY: EL PASO  
PROJECT END USE: WORKSHOP/GARAGE  
CUSTOMER PHONE NUMBER: 719.235.7218  
CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
SCALE: N.T.S.

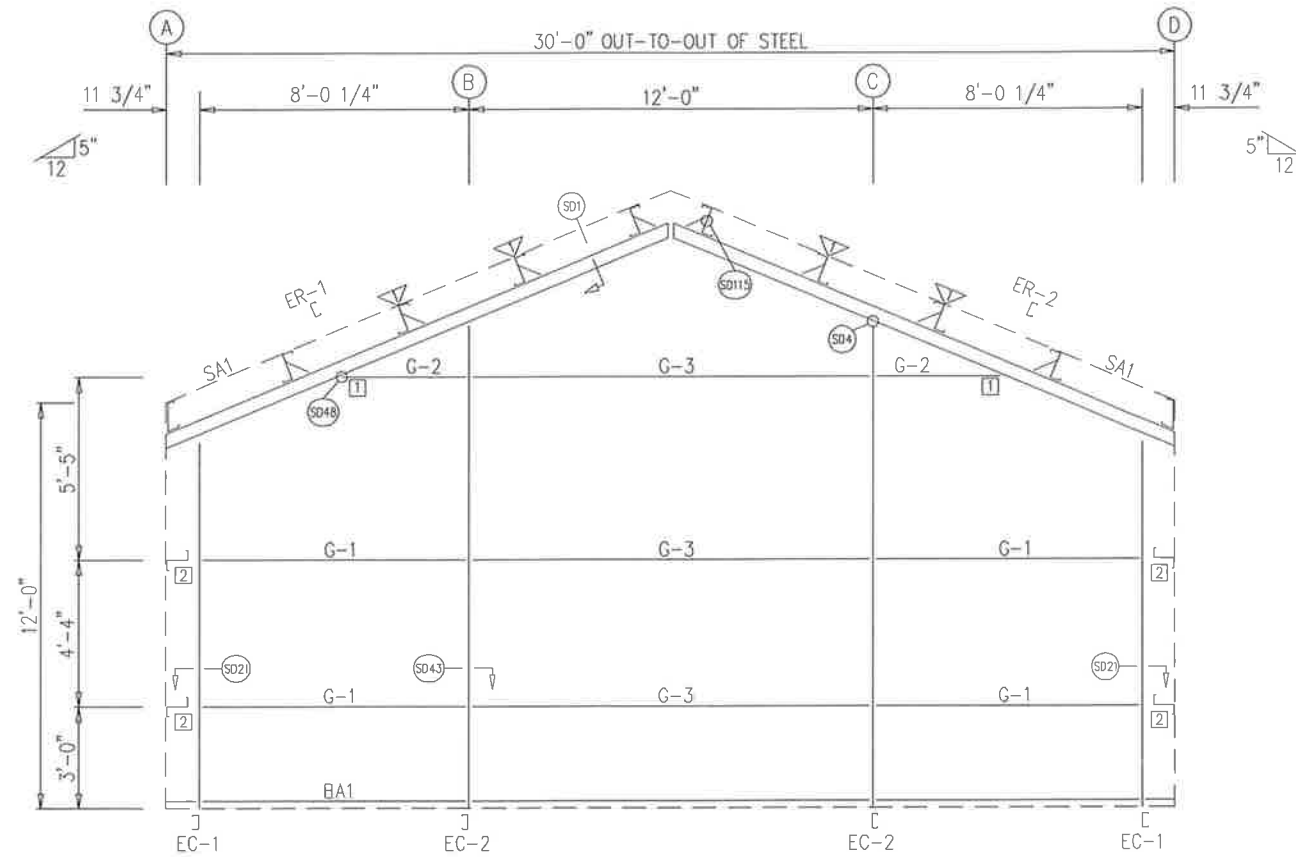
SHEET NUMBER: 9 OF 16  
JOB NUMBER: 93452R1  
SHEET TITLE: ENDWALL FRAMING & SHEETING



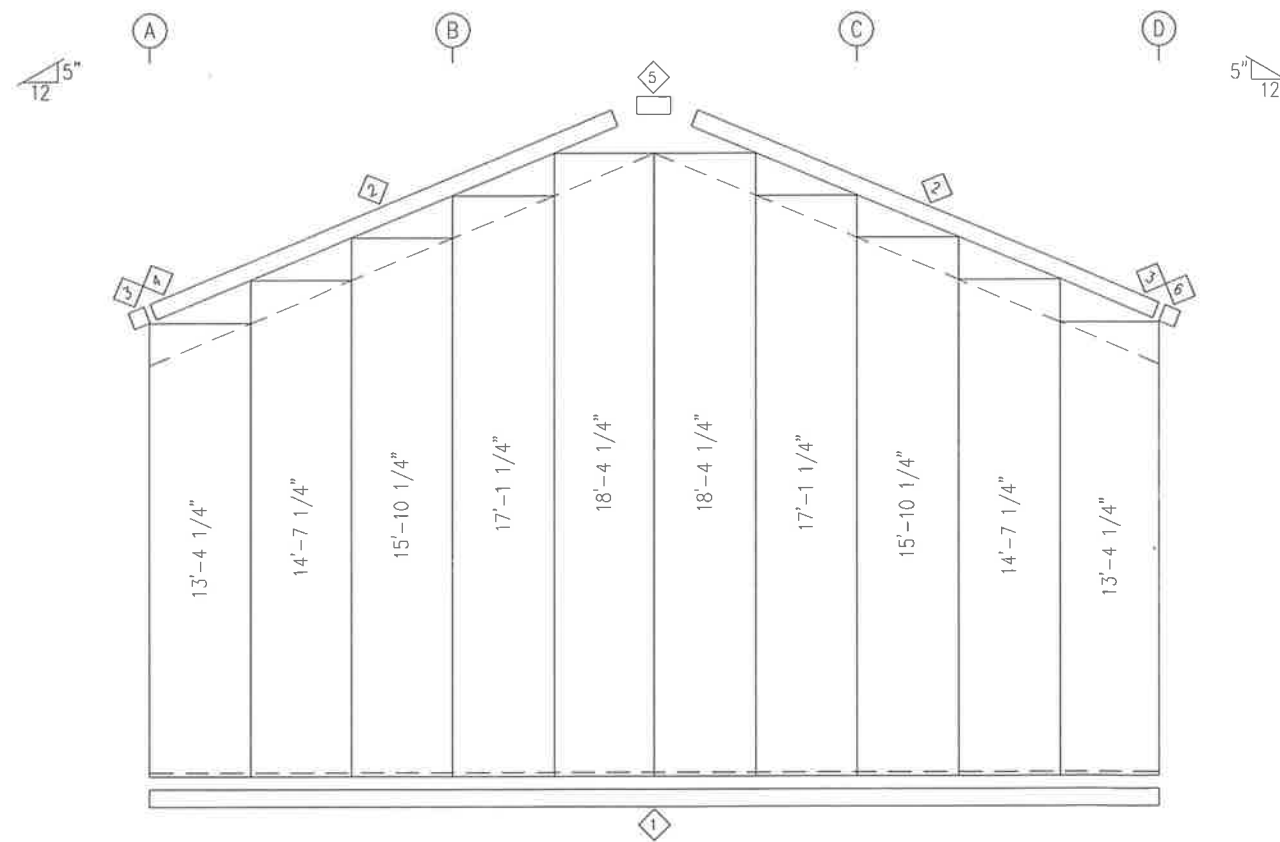
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ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 25 GA. PBR - EVERGREEN

TRIM TABLE  
FRAME LINE 4

ID	QUAN	PART	LENGTH	DETAIL
1	3	FL-60	10'-2"	TD74
2	4	FL-15	8'-9"	TD36
3	2	FL-601F	8 5/16"	TD85
4	1	FL-600L	5 5/8"	TD13
5	1	FL-17	1'-4"	
6	1	FL-600R	5 5/8"	TD13

BOLT TABLE  
FRAME LINE 4

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	4	A325	5/8"	1 3/4"
COLUMNS/RAFTER	2	A325	5/8"	1 1/2"

MEMBER TABLE  
FRAME LINE 4

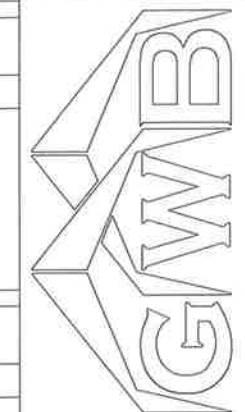
QUAN	MARK	PART	LENGTH
2	EC-1	8x25C16	10'-8 3/8"
2	EC-2	8x25C12	14'-0 1/2"
1	ER-1	8x25C12	16'-2 3/4"
1	ER-2	8x25C12	16'-2 3/4"
4	G-1	8X25Z16	7'-8"
2	G-2	8X25Z16	2'-7 11/16"
3	G-3	8X25Z16	11'-11 1/2"

CONNECTION PLATES  
FRAME LINE 4

ID	QUAN	MARK
1	2	CL-109
2	4	CL-5

FLANGE BRACE TABLE  
FRAME LINE 4

ID	QUAN	MARK
1	4	FB29.5



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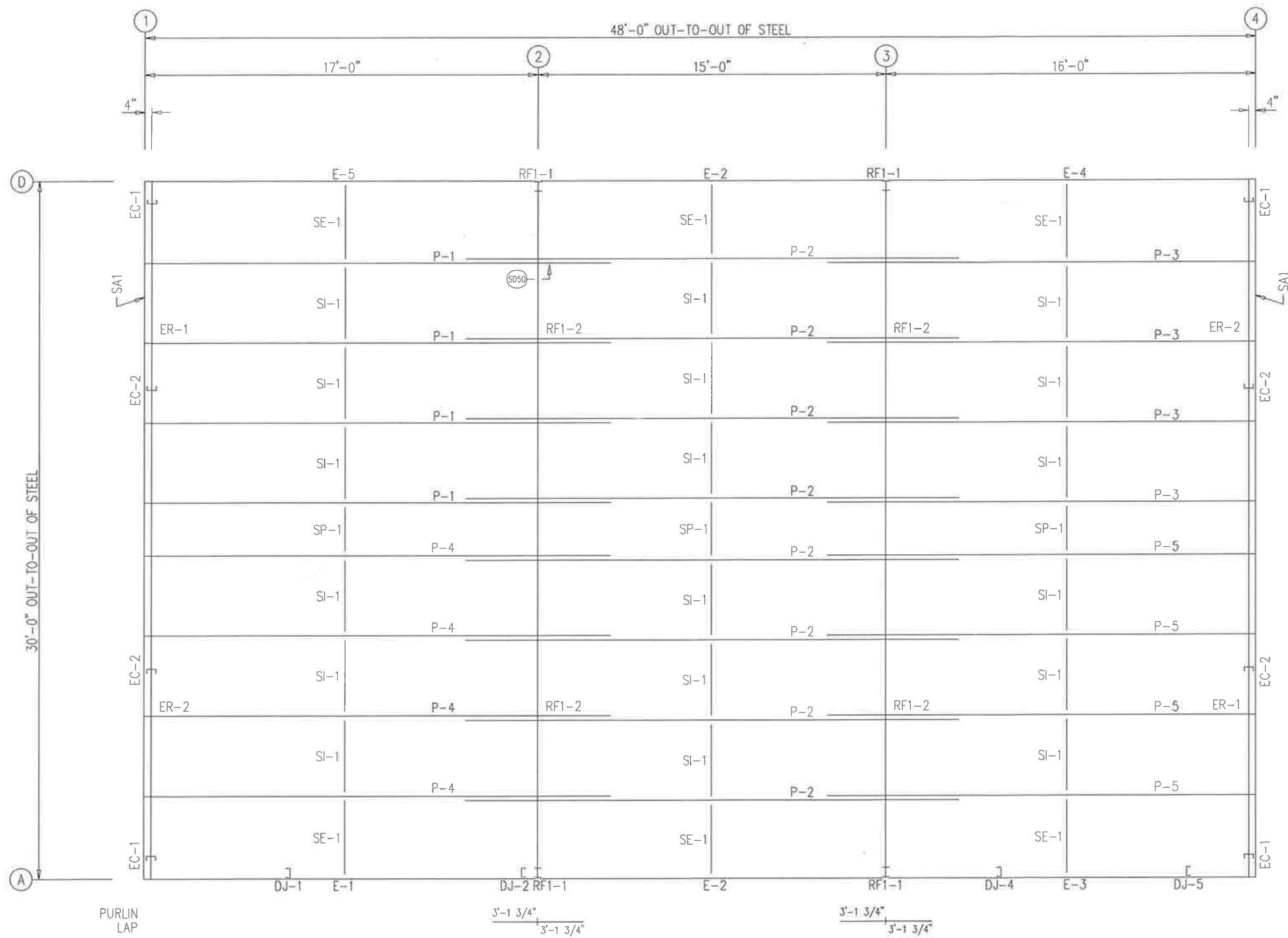
CUSTOMER NAME: RICHARD GRAYCZKOWSKI  
PROJECT NAME: RICHARD GRAYCZKOWSKI  
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SCALE: N.T.S.

SHEET NUMBER: 10 OF 16  
JOB NUMBER: 93452R1  
SHEET TITLE: ENDWALL FRAMING & SHEETING



**REVIEWED**  
By Richard T Smith at 1:49 pm, Jan 27, 2022

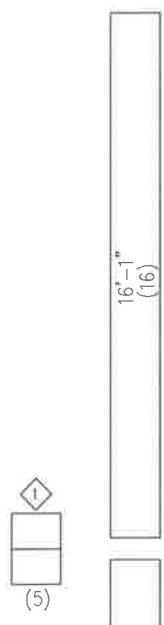
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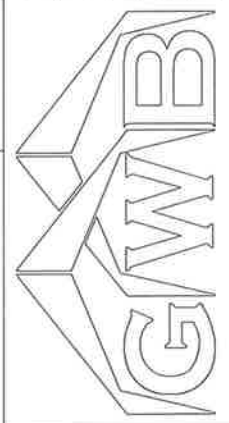
ROOF FRAMING PLAN

IRIM TABLE					ROOF PLAN				
ID	QUAN	PART	LENGTH	DETAIL	CHK.	ENG.	RTS	RTS	RTS
1	5	FL-56	9'-11"	TD9					

MEMBER TABLE				ROOF PLAN			
QUAN	MARK	PART	LENGTH	DATE	DWN.	CHK.	ENG.
4	P-1	10X25Z14	20'-1 1/2"	03/30/21	MEZ	MEZ	RTS
8	P-2	10X25Z16	21'-3 1/2"	06/21/21	MB	CAF	RTS
4	P-3	10X25Z16	19'-1 1/2"	12/01/21	JMM	JMM	RTS
4	P-4	10X25Z14	20'-1 1/2"	07/25/22	AA	CAF	RTS
4	P-5	10X25Z16	19'-1 1/2"				
1	F-1	L10E16-5	16'-11 1/2"				
2	F-2	L10E16-5	14'-11 1/2"				
1	F-3	L10E16-5	15'-11 1/2"				
1	F-4	L10E16-5	15'-11 1/2"				
1	F-5	L10E16-5	16'-11 1/2"				
3	SP-1	BRZ-1	2'-4 13/16"				
18	SI-1	BRZ-1	3'-8 1/4"				
6	SE-1	BRZ-1	3'-8"				



ROOF SHEETING  
PANELS: 26 GA. PBR GALVALUME



3033 S. PARKER RD 12 FLOOR  
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PHONE: (800)-497-2135  
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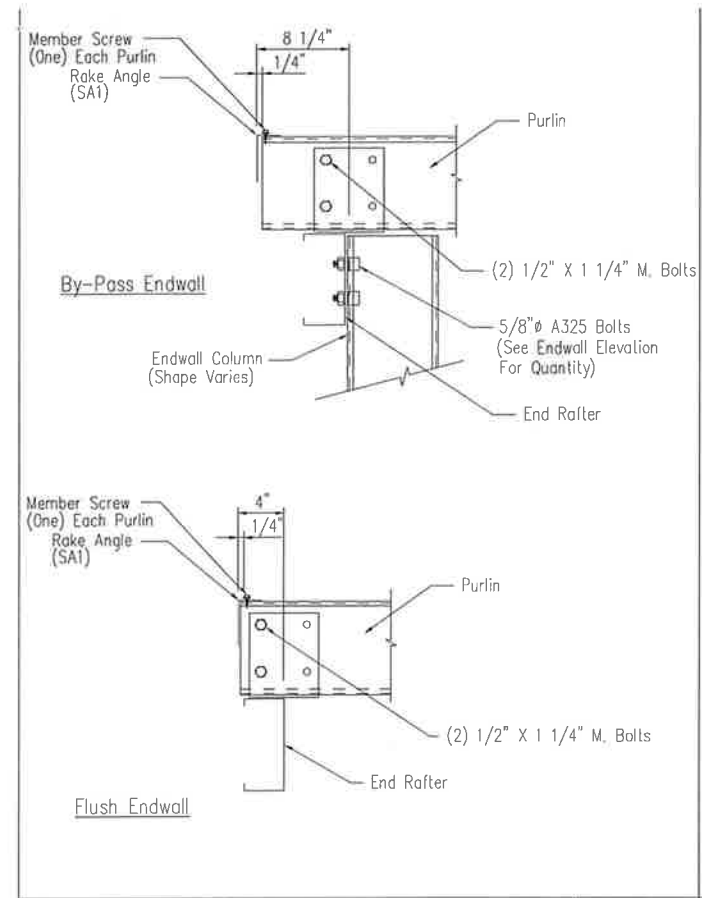
CUSTOMER NAME: RICHARD GRAYCOWSKI  
PROJECT NAME: RICHARD GRAYCOWSKI  
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809  
PROJECT COUNTY: EL PASO  
PROJECT END USE: WORKSHOP/GARAGE  
CUSTOMER PHONE NUMBER: 719.235.7218  
CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
SCALE: N.T.S.

SHEET NUMBER: 11 OF 16  
JOB NUMBER: 93452R1  
SHEET TITLE: ROOF FRAMING & SHEETING PLAN



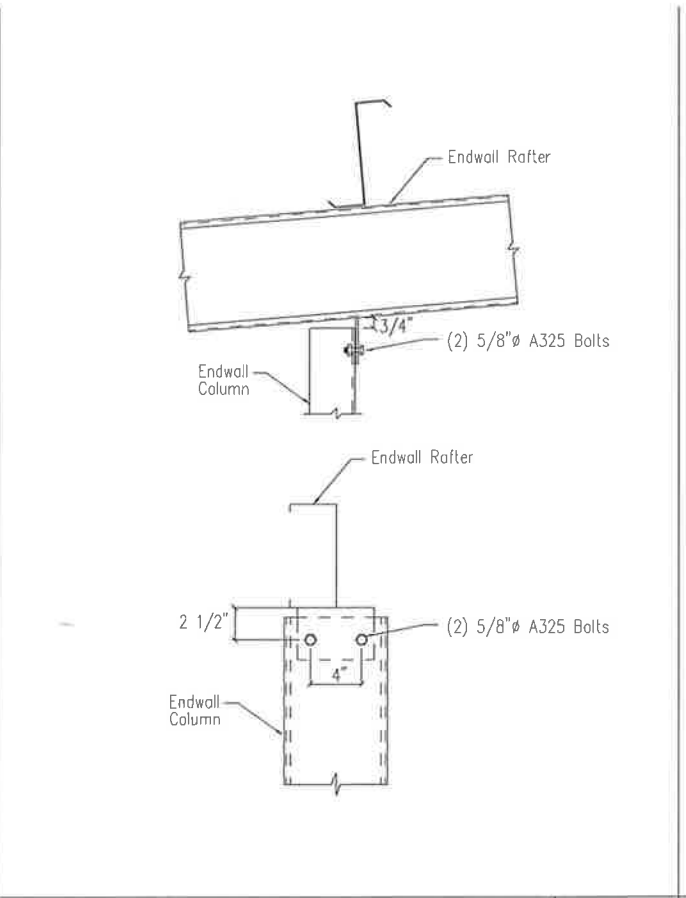
**REVIEWED**  
By Richard T Smith at 1:49 pm, Jan 27, 2022

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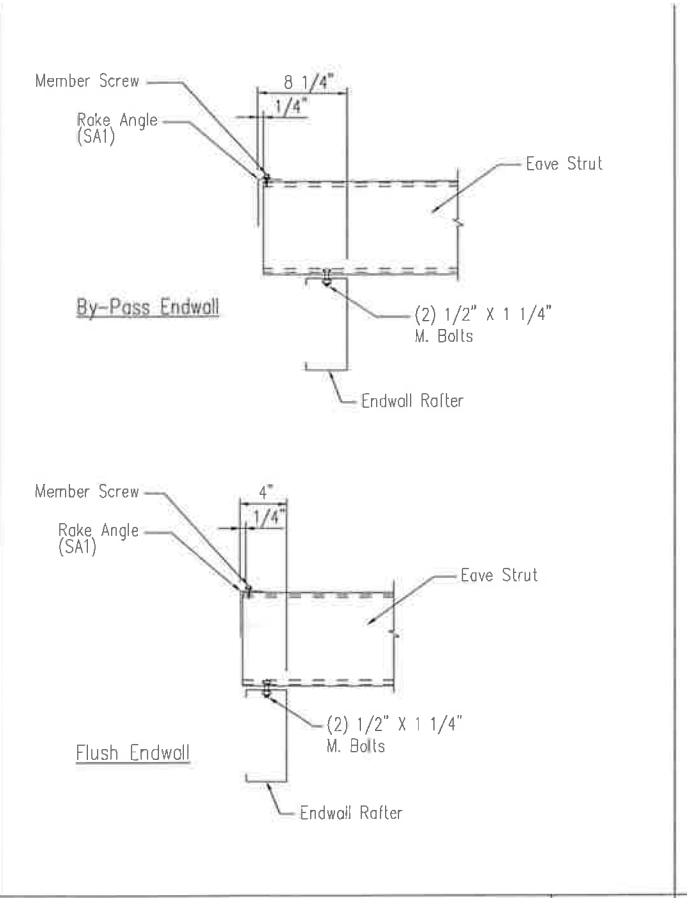
Section Thru Rake at Cold-Form Rafter

DRAWING NO. SD1



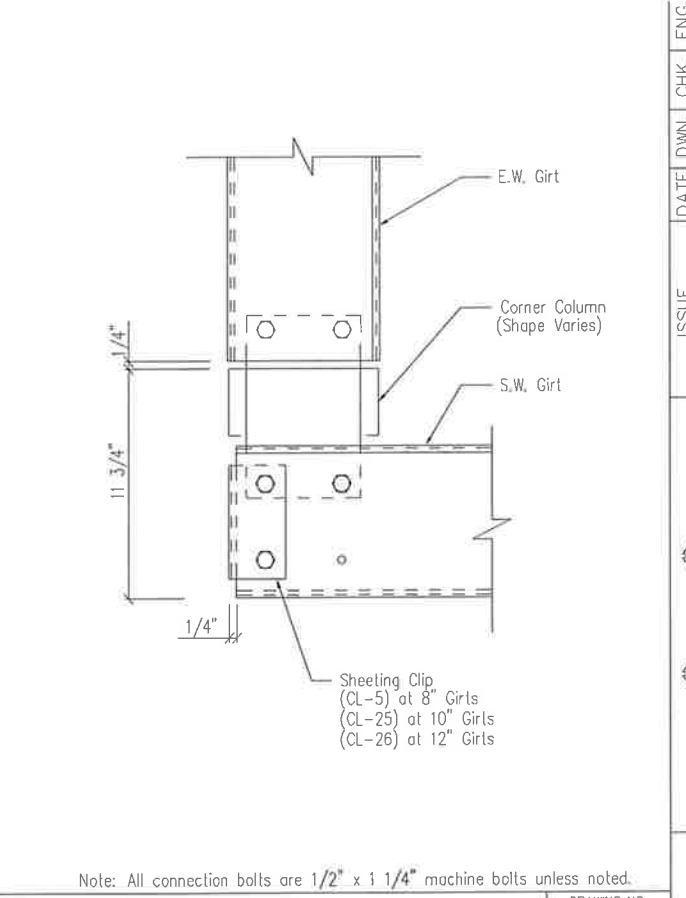
Cold Form Column to Cold Form Rafter

DRAWING NO. SD4



Eave Strut to Cold Form Rafter Connection

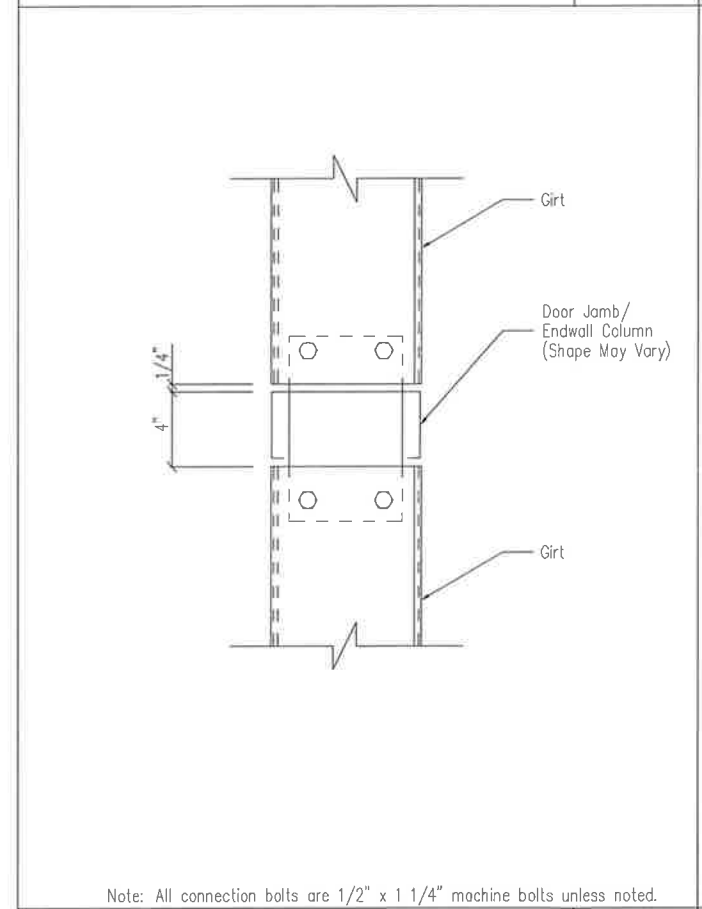
DRAWING NO. SD15



Section at "C" Corner Column  
Flush Endwall

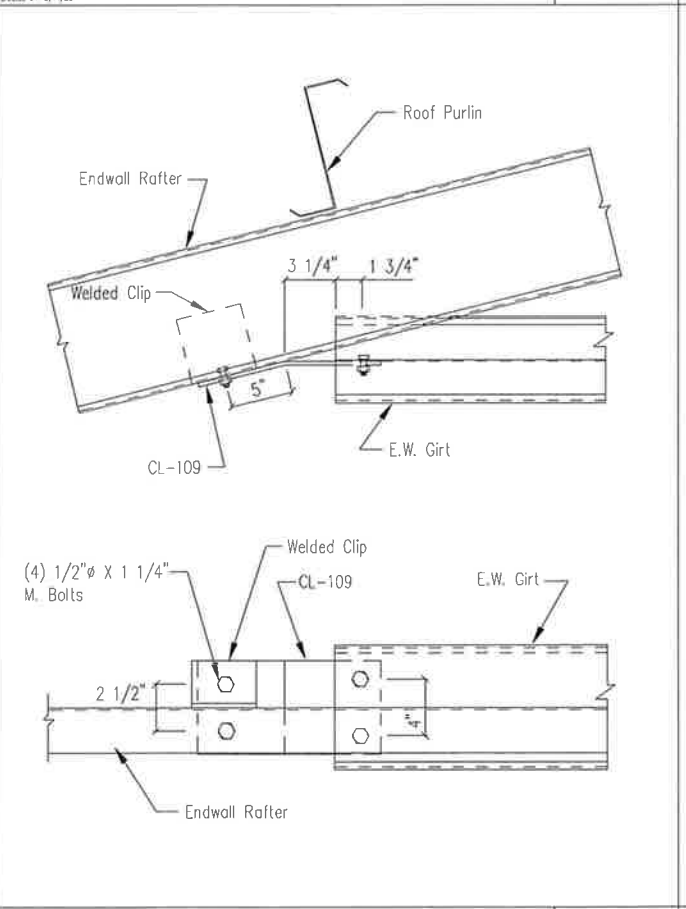
DRAWING NO. SD21

Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.



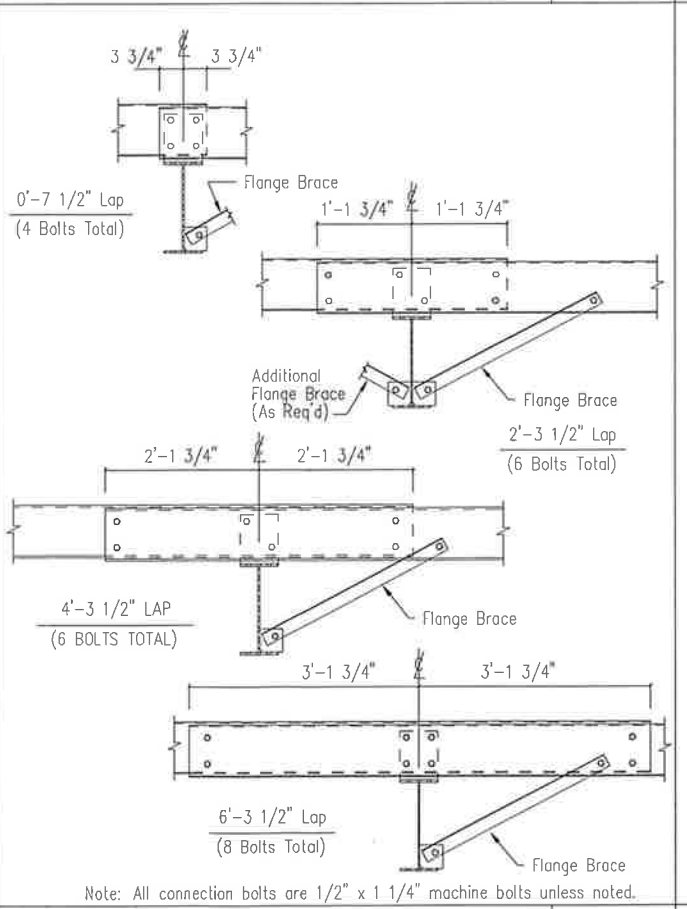
Girt to "C" Door Jamb/Endwall Column Connection

DRAWING NO. SD43



Endwall Girt to Cold Form Rafter

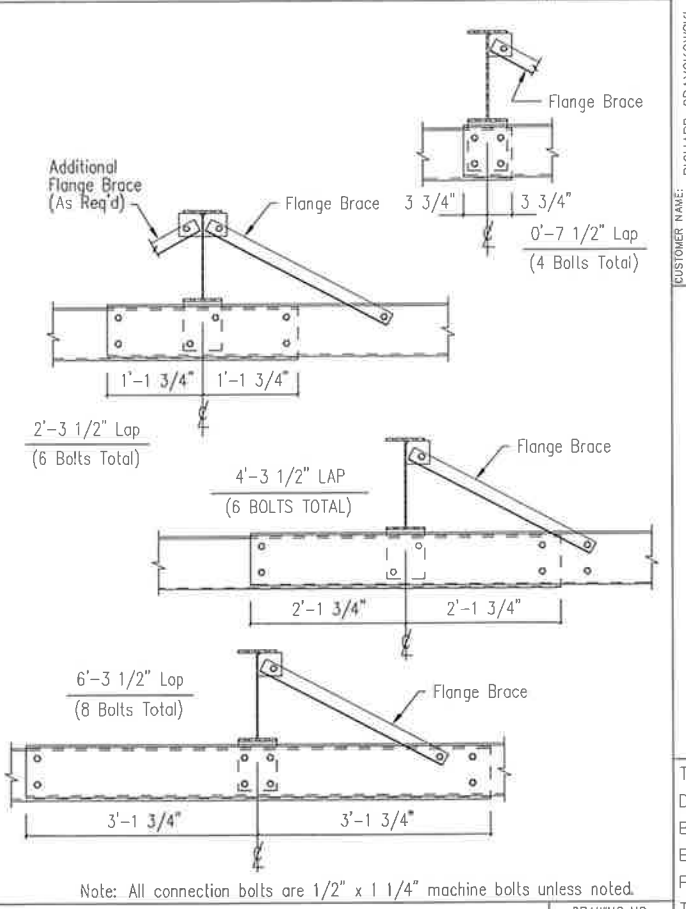
DRAWING NO. SD48



Interior Bay Purlin Framing

DRAWING NO. SD50

Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.



Interior Bay Girt Framing

DRAWING NO. SD51

Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

CHK. ENG.	
RTS	
MEZ	
DATE	
DWN.	
ISSUE	
APPROVAL	
PERMIT	
ERECTION	
REVISED PERMIT	

**GWBB**  
 3033 S. PARKER RD 12 FLOOR  
 AURORA, CO 80014  
 PHONE: (800)-497-2135  
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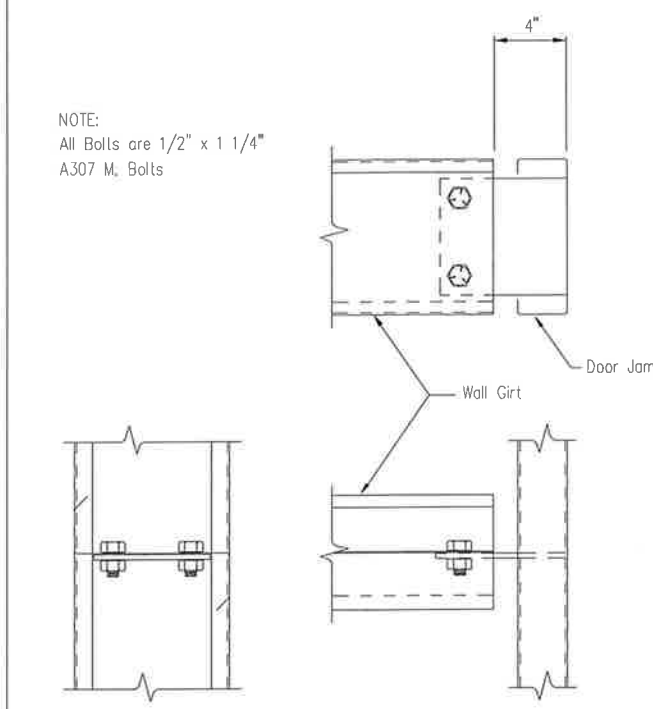
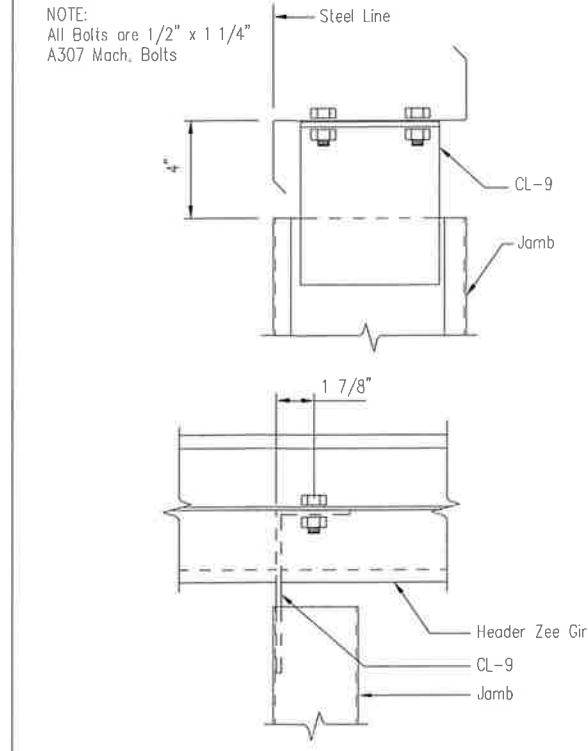
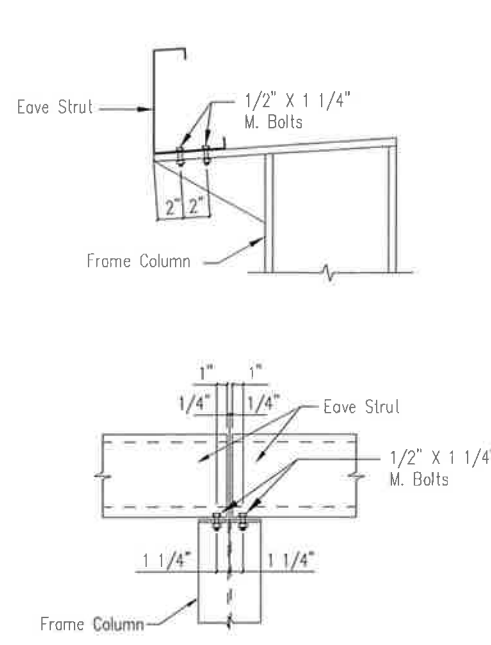
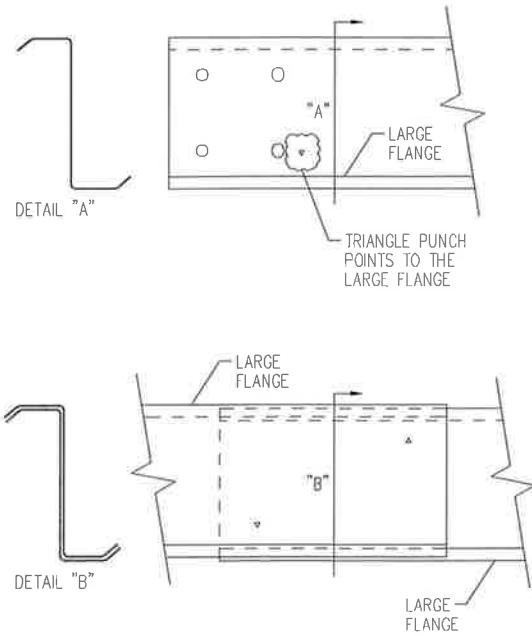
CUSTOMER NAME: RICHARD GRAYCZKOWSKI  
 PROJECT NAME: RICHARD GRAYCZKOWSKI  
 PROJECT LOCATION: 8615 U.S.-24, CASCADE, CO. 80809  
 PROJECT COUNTY: EL PASO  
 PROJECT END USE: WORKSHOP / GARAGE  
 CUSTOMER PHONE NUMBER: 719.235.7218  
 CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM  
 SCALE: N.T.S.

SHEET NUMBER: 12 OF 16  
 JOB NUMBER: 93452R1  
 SHEET TITLE: DETAIL DRAWINGS



**REVIEWED**  
 By Richard T Smith at 1:49 pm, Jan 27, 2022

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APPROVAL	03/30/21	MEZ	MEZ	RTS
PERMIT	06/21/21	MB	CAF	RTS
ERECTION	12/01/21	JMM	JMM	RTS
REVISED PERMIT	01/25/22	AA	CAF	RTS

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AURORA, CO 80014  
PHONE: (800)-497-2135  
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: RICHARD GRAYCZKOWSKI	PROJECT NAME: RICHARD GRAYCZKOWSKI	PROJECT LOCATION: 8615 US-24, CASCADE, CO. 80809	PROJECT COUNTY: EL PASO	PROJECT END USE: WORKSHOP/GARAGE	CUSTOMER PHONE NUMBER: 719.235.7218	CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM	SCALE: N.T.S.	SHEET NUMBER: 13 OF 16	JOB NUMBER: 93452R1	SHEET TITLE: DETAIL DRAWINGS
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Bypass Zee Installation

DRAWING NO. SD54

Eave Strut at Interior Column  
By-Pass Sidewall

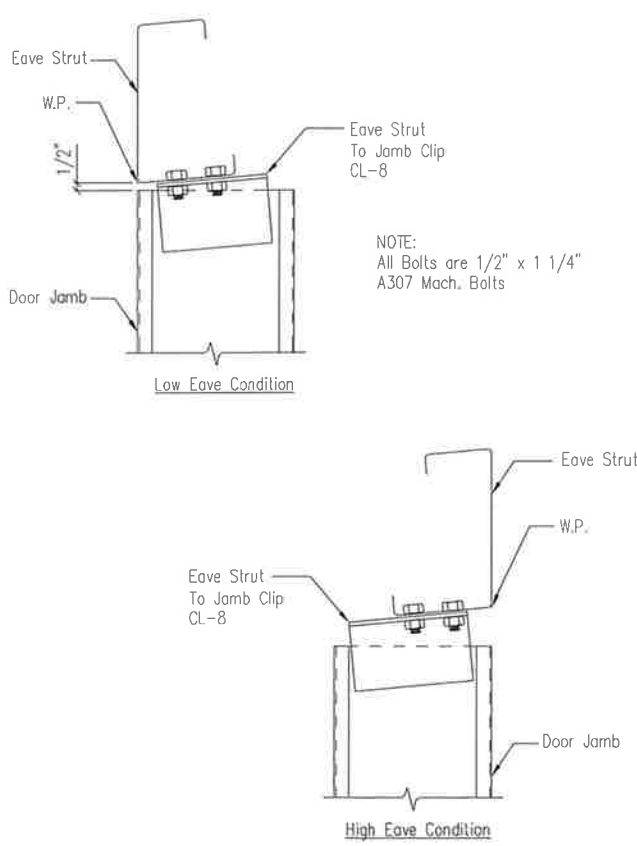
DRAWING NO. SD59

Jamb to Header Girt

DRAWING NO. SD94

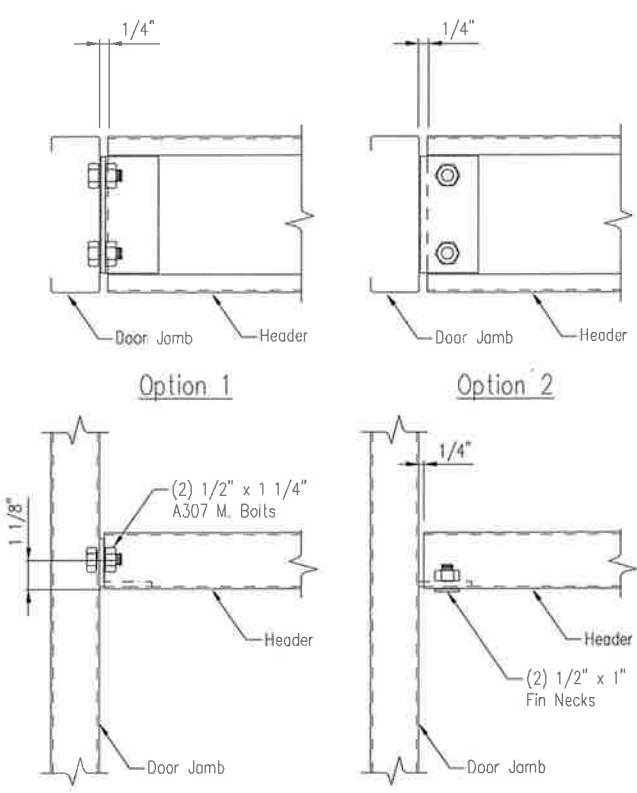
Girt to Jamb

DRAWING NO. SD96



Jamb To Eave Strut  
2:12 Roof Pitch and Higher

DRAWING NO. SD97



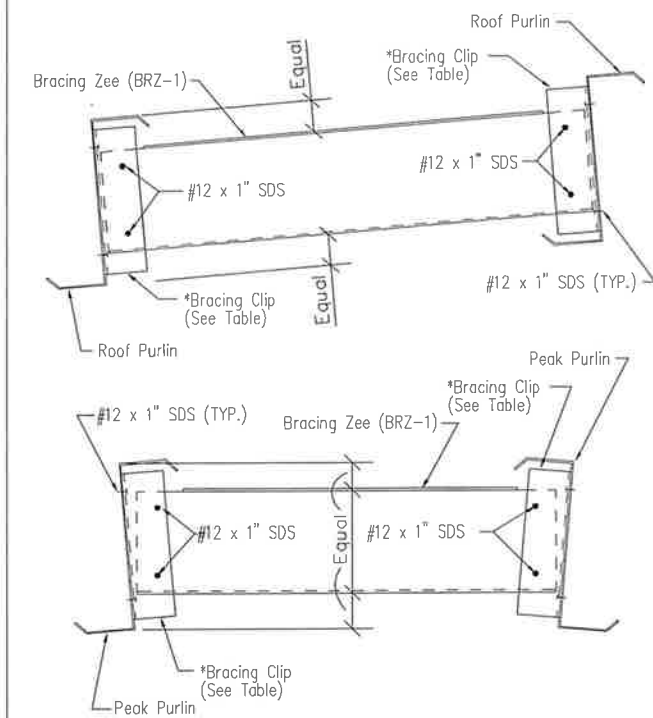
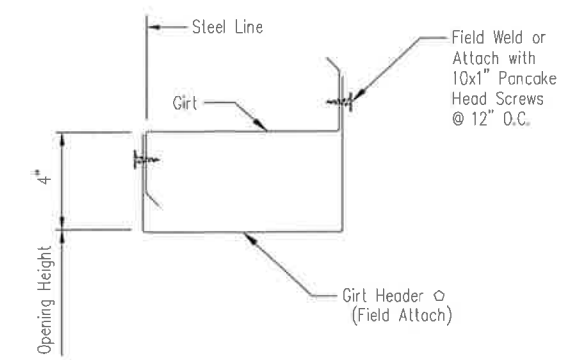
Header/Sill to Jamb

DRAWING NO. SD98

Framed Opening w/ Girt Header

DRAWING NO. SD104

MEMBER TABLE	
ZEE Size	Piece Mark
8"	GH-1
10"	GH-2
12"	GH-3



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.

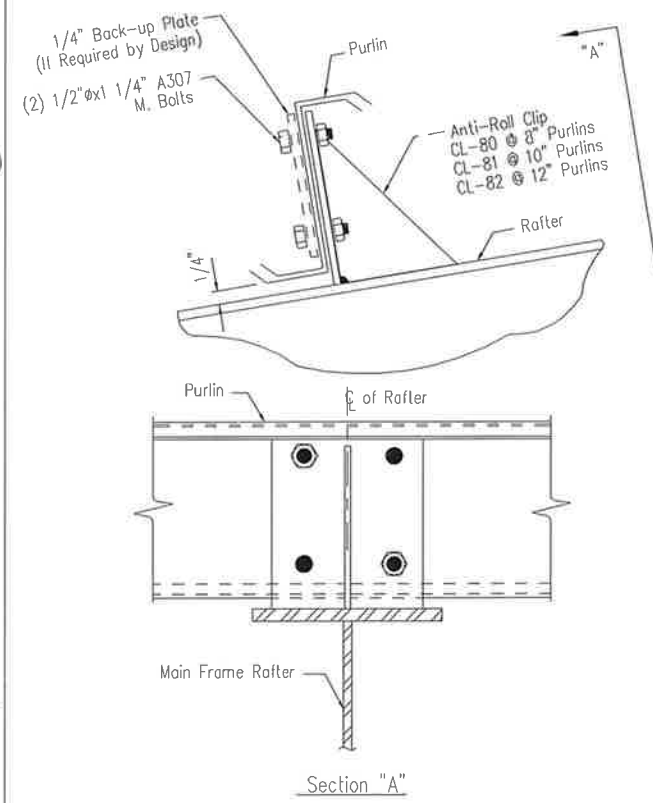
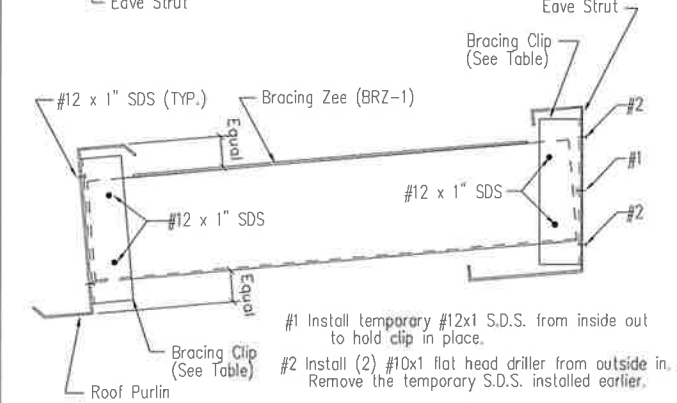
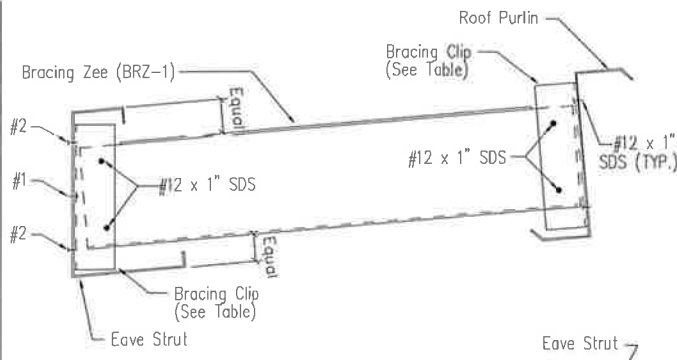
Intermediate Purlin Bridging

DRAWING NO. SD105



**REVIEWED**  
By Richard T Smith at 1:49 pm, Jan 27, 2022

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

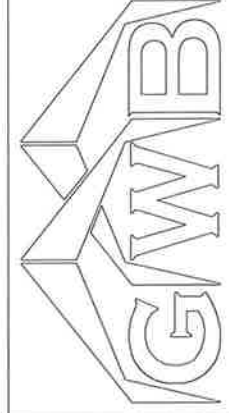
**Eave Bridging**

DRAWING NO. SD106

**Purlin to Anti-Roll Clip Connection**

DRAWING NO. SD115

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	03/30/21	MEZ	MEZ	RTS
PERMIT	16/7/21	MB	CAF	RTS
ERECTION	12/07/21	JMM	JMM	RTS
REVISED PERMIT	01/25/22	AA	CAF	RTS



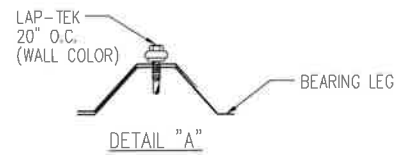
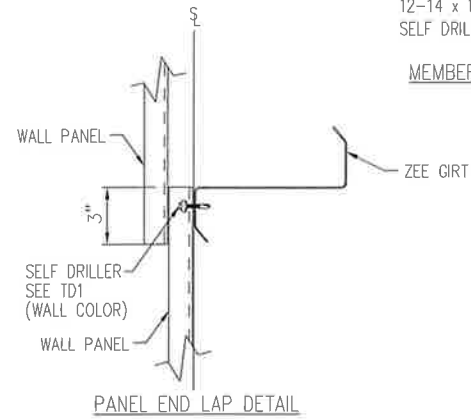
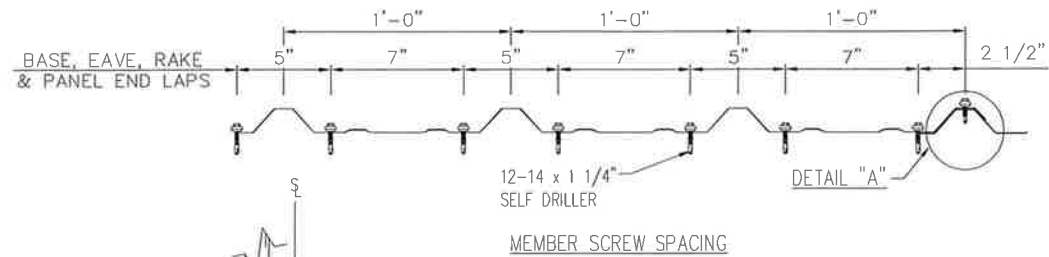
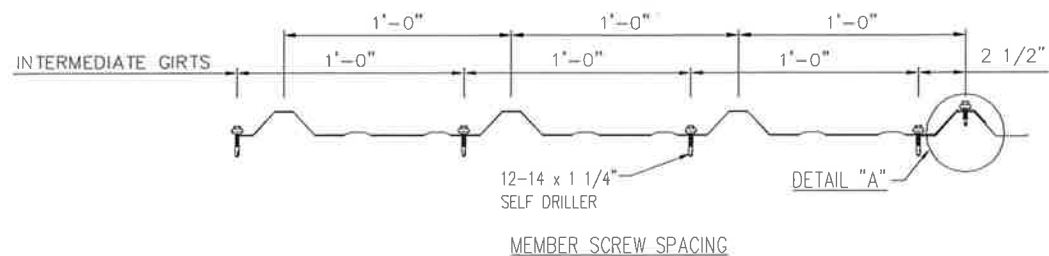
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 AURORA, CO 80014  
 PHONE: (800)-497-2135  
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CUSTOMER NAME: RICHARD GRAYCCKOWSKI
PROJECT NAME: RICHARD GRAYCCKOWSKI
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809
PROJECT COUNTY: EL PASO
PROJECT END USE: WORKSHOP/GARAGE
CUSTOMER PHONE NUMBER: 719.235.7218
CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM
SCALE: N.T.S.
SHEET NUMBER: 14 OF 16
JOB NUMBER: 93452R1
SHEET TITLE: DETAIL DRAWINGS



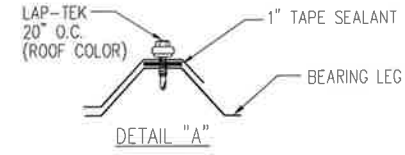
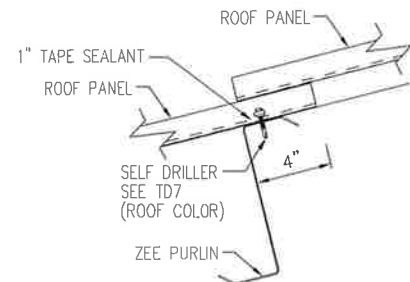
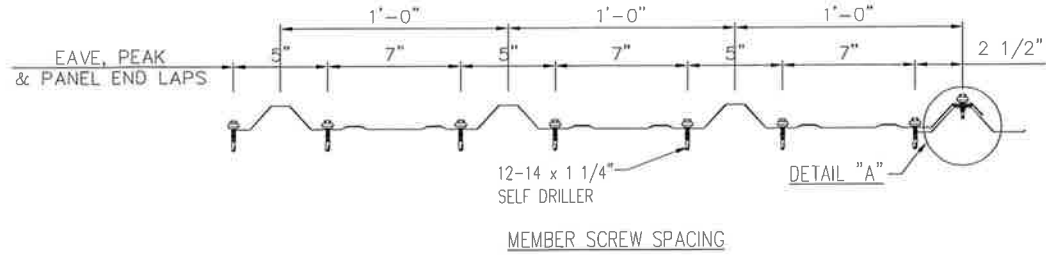
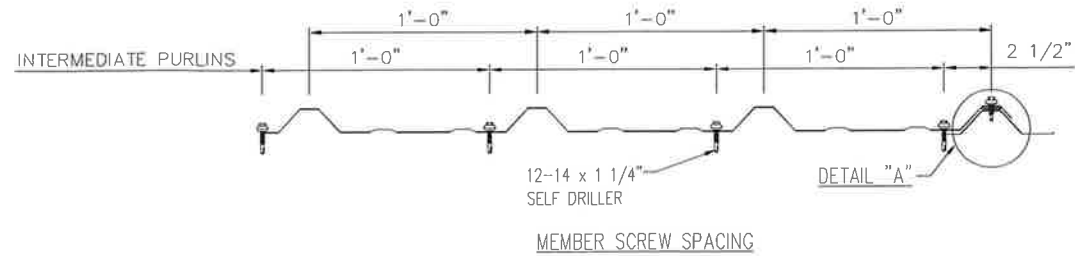
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Fastener Location at Wall - PBR

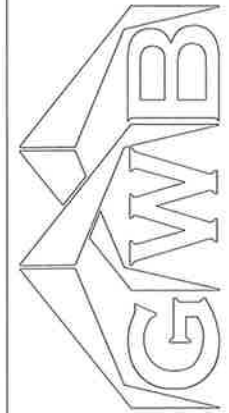
DRAWING NO.  
TD1



Fastener Location at Roof - PBR

DRAWING NO.  
TD7

ISSUE	APPROVAL	PERMIT	ERECTION	REVISED PERMIT



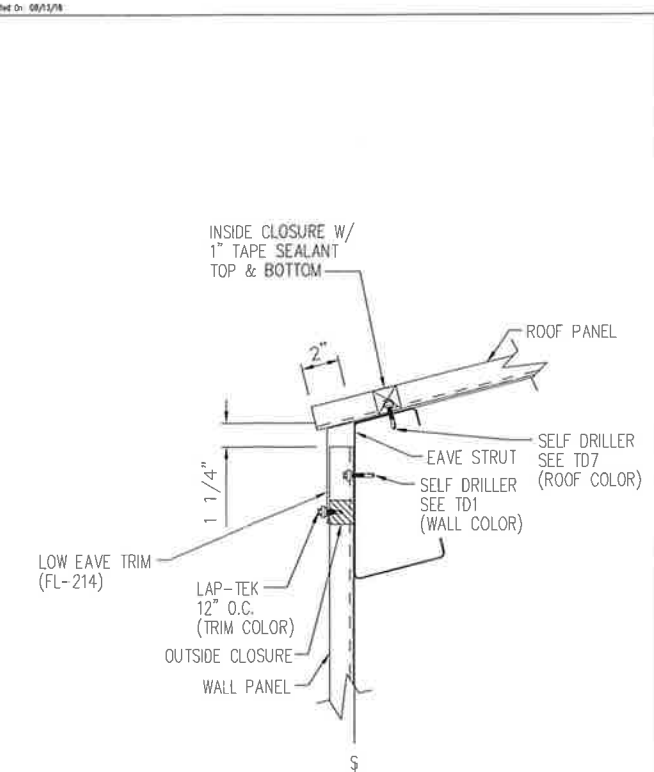
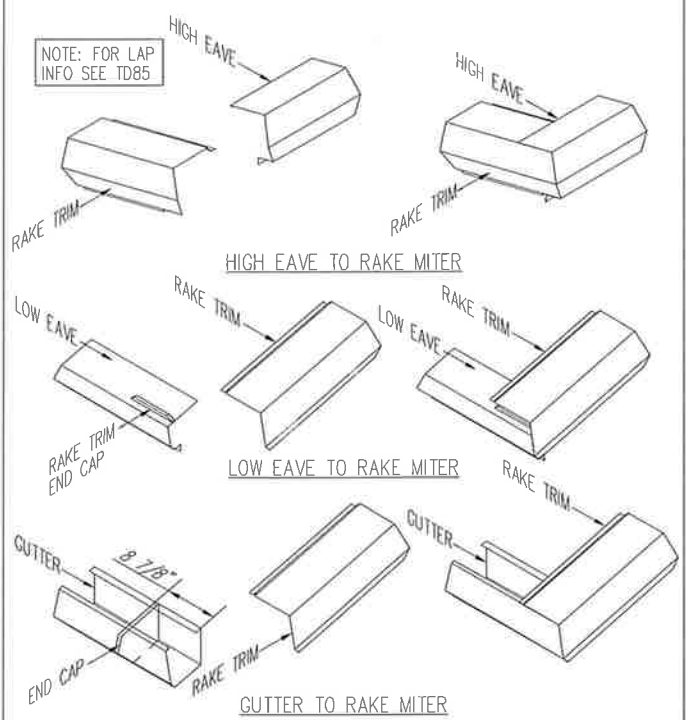
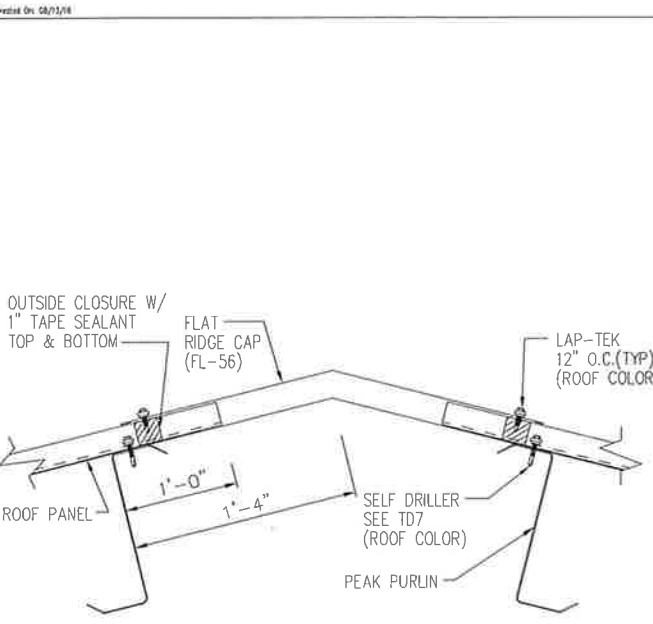
3033 S. PARKER RD 12 FLOOR  
AURORA, CO 80014  
PHONE: (800)-497-2135  
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CUSTOMER NAME: RICHARD GRAYCZKOWSKI	PROJECT NAME: RICHARD GRAYCZKOWSKI
PROJECT LOCATION: 8615 US-24, CASCADE, CO 80809	PROJECT COUNTY: EL PASO
PROJECT END USE: WORKSHOP/GARAGE	CUSTOMER PHONE NUMBER: 719.235.7218
CUSTOMER EMAIL: REDSKIZONE@YAHOO.COM	SCALE: N.T.S.
SHEET NUMBER: 15 OF 16	JOB NUMBER: 93452R1
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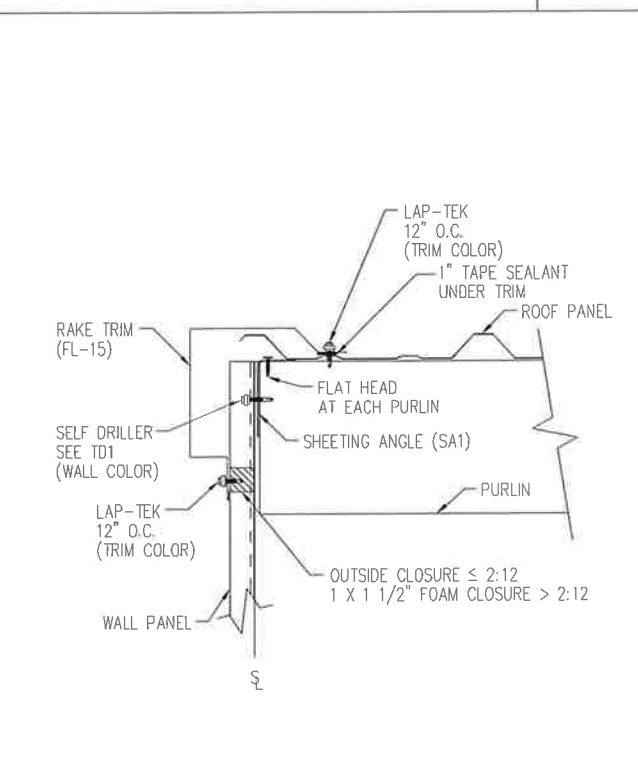
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Low Eave Detail - PBR  
Simple Eave - Sheeted Wall

DRAWING NO.  
TD17



Rake Detail - PBR  
Box Rake - Sheeted Wall

DRAWING NO.  
TD36

Flat Ridge Detail - PBR  
Greater Than 4:12 Roof Slope

DRAWING NO.  
TD9

Sculptured Trim Detail - PBR

DRAWING NO.  
TD13

NOTE: FIELD SLOPE CUT WALL PANELS AS REQUIRED FOR ROOF SLOPE

Detail On: 04/13/18

Detail On: 08/11/18

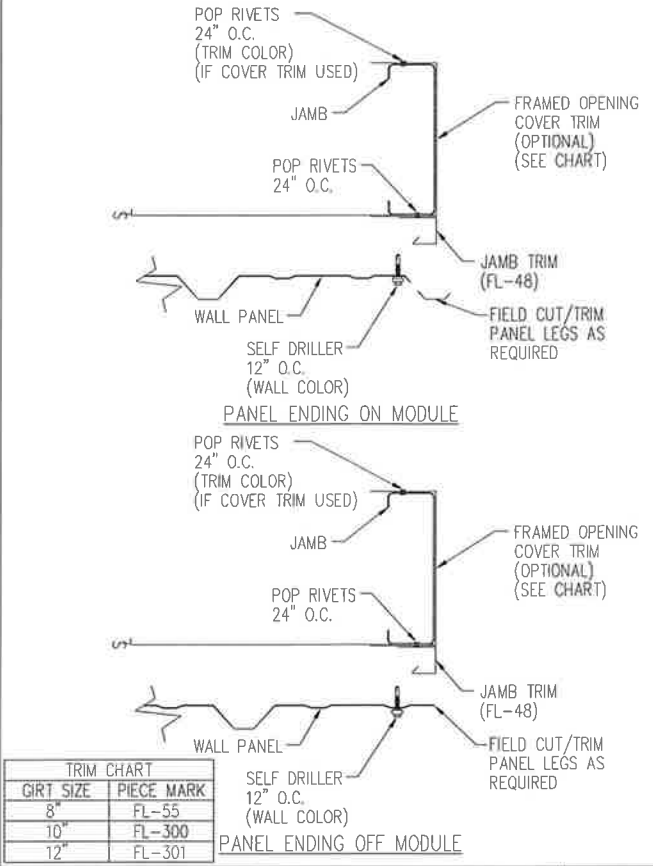
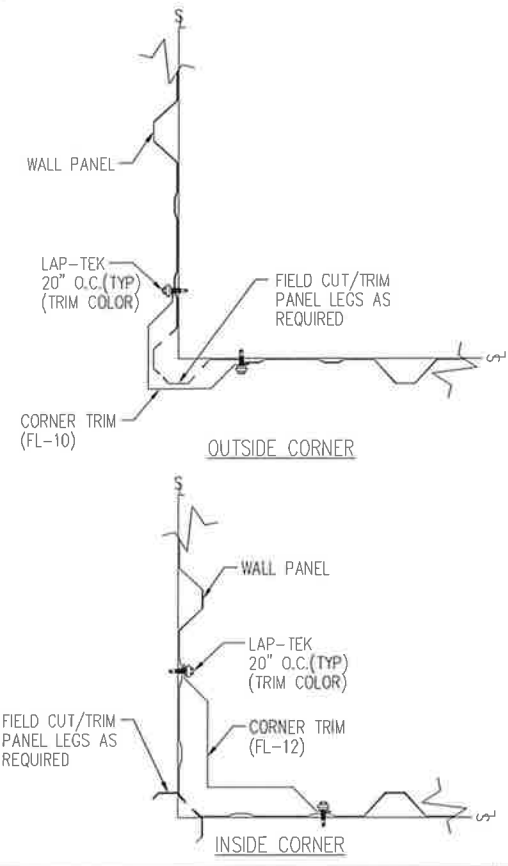
Detail On: 08/11/18

Detail On: 08/13/18

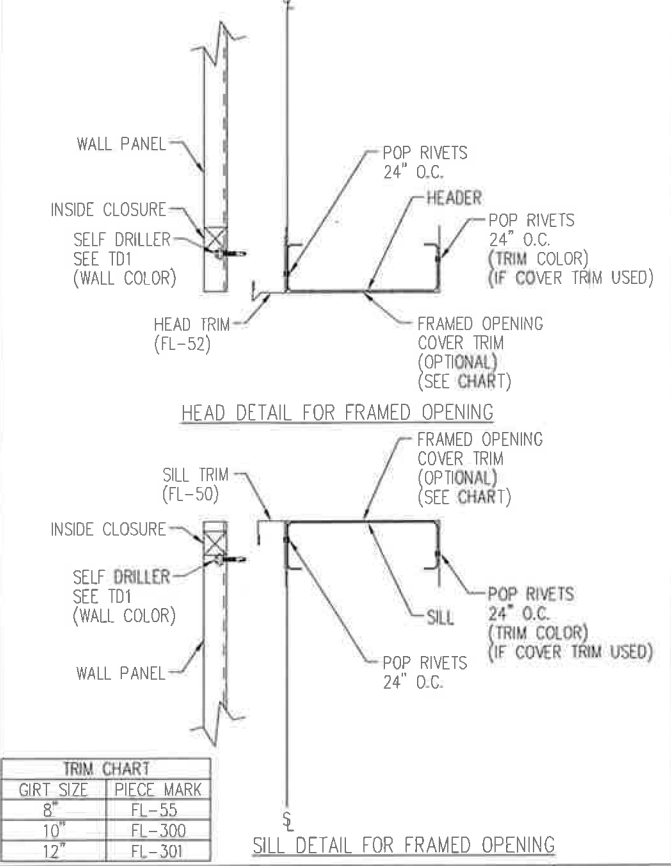
Detail On: 08/13/18

Detail On: 01/01/20

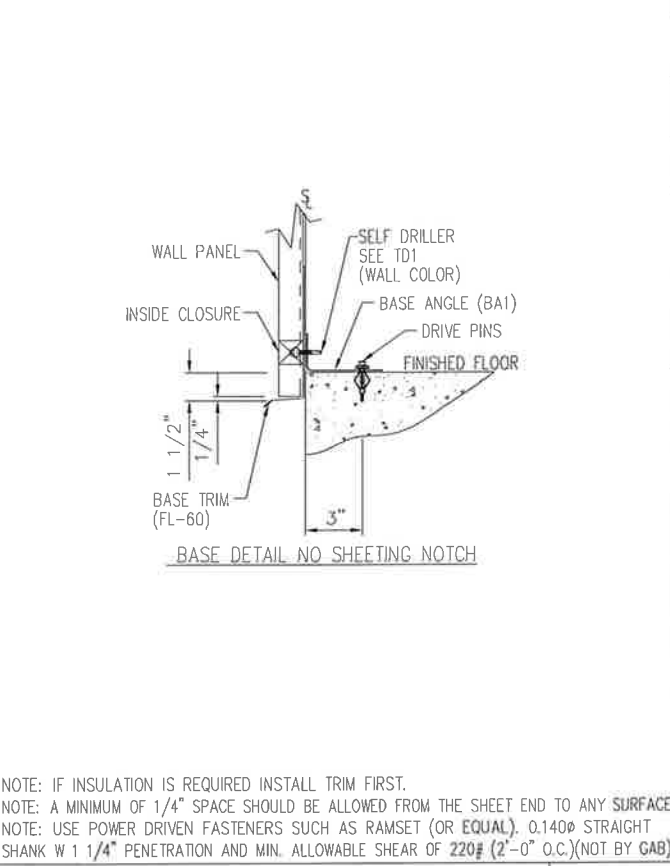




TRIM CHART	
GIRT SIZE	PIECE MARK
8"	FL-55
10"	FL-300
12"	FL-301



TRIM CHART	
GIRT SIZE	PIECE MARK
8"	FL-55
10"	FL-300
12"	FL-301



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  
 NOTE: USE POWER DRIVEN FASTENERS SUCH AS RAMSET (OR EQUAL), 0.140" STRAIGHT SHANK W 1 1/4" PENETRATION AND MIN. ALLOWABLE SHEAR OF 220# (2-0" O.C.) (NOT BY GAB)

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	03/09/21	MEZ	MEZ	RTS
PERMIT	06/21/21	MB	CAF	RTS
ERECTION	12/01/21	JMM	JMM	RTS
REVISED PERMIT	01/25/22	AA	CAF	RTS

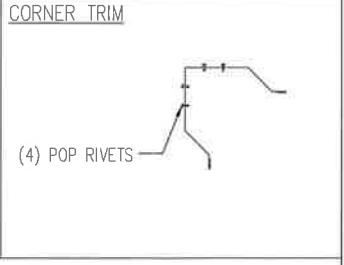
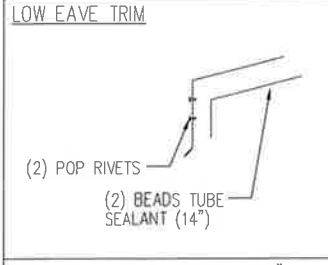
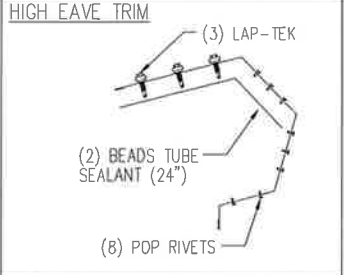
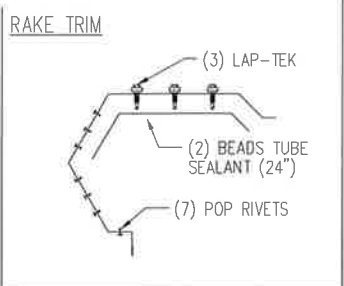
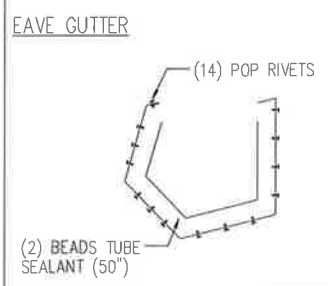
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 AURORA, CO 80014  
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Section at Corner Detail - PBR  
 TD40

Framed Opening Jamb Detail - PBR  
 TD51

Framed Opening Head and Sill Details - PBR  
 TD52

Base Angle w/Trim Details  
 TD74



NOTE: TRIM PROFILES MAY VARY; 2" MIN. LAP UNLESS NOTED  
 NOTE: TUBE SEALANT (NOT BY G.A.B.)

Trim Laps - PBR Sculptured  
 TD85

CUSTOMER NAME: RICHARD GRAYCZKOWSKI  
 PROJECT NAME: RICHARD GRAYCZKOWSKI  
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 PROJECT COUNTY: EL PASO  
 PROJECT END USE: WORKSHOP/GARAGE  
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 SCALE: N.T.S.

SHEET NUMBER: 16 OF 16  
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 By Richard T Smith at 1:49 pm, Jan 27, 2022

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