

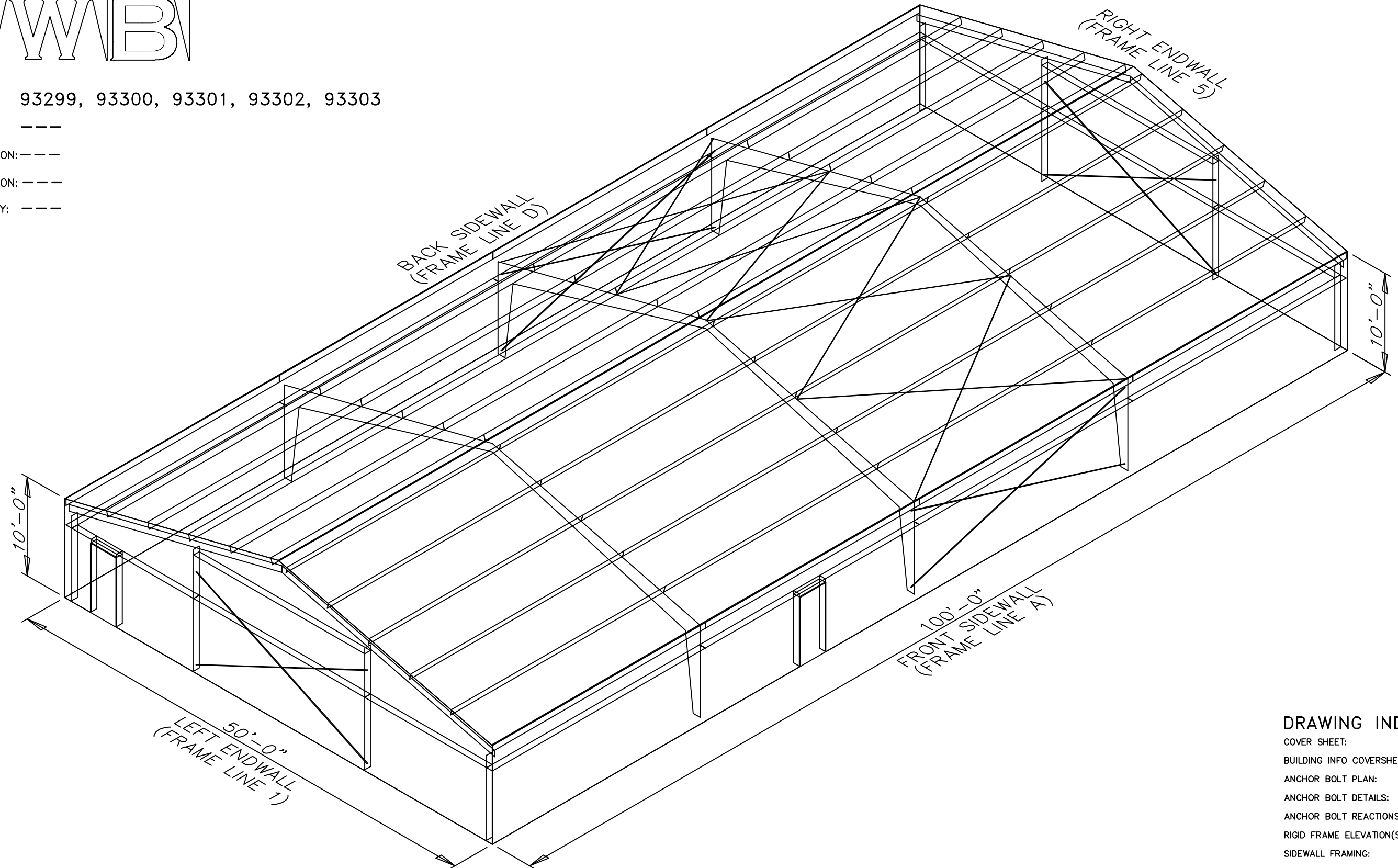
JOB NUMBER: 93299, 93300, 93301, 93302, 93303

PROJECT NAME: ---

PROJECT LOCATION: ---

PROJECT LOCATION: ---

PROJECT COUNTY: ---



### DRAWING INDEX

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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
HOT ROLLED STEEL SHAPES (W, & C)
HOT ROLLED STEEL ANGLES (L)
STEEL PIPES
STRUCTURAL TUBING
STRUCTURAL STEEL WEB PLATE
STRUCTURAL STEEL FLANGE PLATES/BARS
COLD FORMED LIGHT GAGE
ROOF & WALL SHEETS
CABLE BRACE
ROD BRACE
ASTM DESIGNATION
MIN. YIELD STRENGTH
MIN. TENSILE STRENGTH

- 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 SPICE - 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.
BUILDINGS IN SEISMIC DESIGN CATEGORY C OR LOWER AND/OR WITH CRANE SYSTEMS 10 TONS OR LESS DO NOT REQUIRE TURN OF THE NUT PRE TENSIONING

- 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 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 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 CORRECTION 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, WIRING, 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.

Table with 3 columns: ROOF SNOW LOAD (IN PSF), EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES), RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES). Rows range from 20 to 80 PSF.

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

BUILDING LOADS

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

- DESIGN LOADS:
DESIGN CODE / WIND CODE : IBC-18
OCCUPANCY / RISK CATEGORY : II-Normal
ENCLOSURE : Enclosed
ROOF DEAD LOAD (D) (PSF) : 2.00
ROOF COLLATERAL LOAD (C) (PSF) : 1.00
WIND LOAD
ULTIMATE WIND SPEED, (VULT) (MPH) : 115.00
WIND EXPOSURE CATEGORY : C
INTERNAL PRESSURE COEFFICIENT, (GCpi) : 0.18/-0.18
WALL PANEL DESIGN WIND PRESSURE (PSF) : 27.78/-30.14
WIND ENCLOSURE CLASSIFICATION : Enclosed
LIVE LOAD
PRIMARY FRAMING (PSF) : 20.00
TRIB. AREA REDUCTION : No
SECONDARY FRAMING (PSF) : 20.00
SNOW LOAD
GROUND SNOW LOAD, (Pg) (PSF) : 10.00
ROOF SNOW LOAD, (Pf) (PSF) : 10.00
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 = 0.166 :S1 = 0.068
SPECTRAL RESPONSE COEFFICIENTS : Sds = 0.177 :Sd1 = 0.109
SEISMIC DESIGN CATEGORY : B
BASIC SEISMIC FORCE RESISTING SYSTEM : STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR RESISTANCE
RIGID FRAMES (OMF) : RIGID FRAMES (OMF)
BRACED FRAMES (OCBF/OMF) : BRACED FRAMES (OCBF/OMF)
LONGITUDINAL = 1.67
TRANSVERSE = 1.68
RIGID FRAMES = 3.00
SW X-BRACING = 3.00
SEISMIC RESPONSE COEFFICIENTS, (Cs) : RIGID FRAMES = 0.0591
SW X-BRACING = 0.0591
ANALYSIS PROCEDURE USED : EQUIVALENT LATERAL FORCE PROCEDURE
OTHER LOADS/REQUIREMENTS

BUILDING DESCRIPTION:

- WIDTH (FT) : 50.00
LENGTH (FT) : 100.00
EAVE HEIGHT AT BSW (FT) : 10.00
EAVE HEIGHT AT FSW (FT) : 10.00
ROOF SLOPE AT BSW : 3.0:12
ROOF SLOPE AT FSW : 3.0:12
BAY SPACING (FT) : 4 AT 25

COVERING AND TRIMS:

ROOF PANELS & TRIMS: 26 GA. PBR PANEL BY OTHERS.

WALL PANELS & TRIMS: 26 GA. PBR PANEL BY OTHERS.

INSULATION

- ROOF INSULATION : N/A
WALL INSULATION : N/A

Table with columns for CHK., ENG., DWG., DATE, ISSUE, APPROVAL, PERMIT, ERECTION, and various other fields.

Customer information block including Project Name, Location, County, Project End Use, Customer Name, Scale, and Sheet Number (2 OF 11).

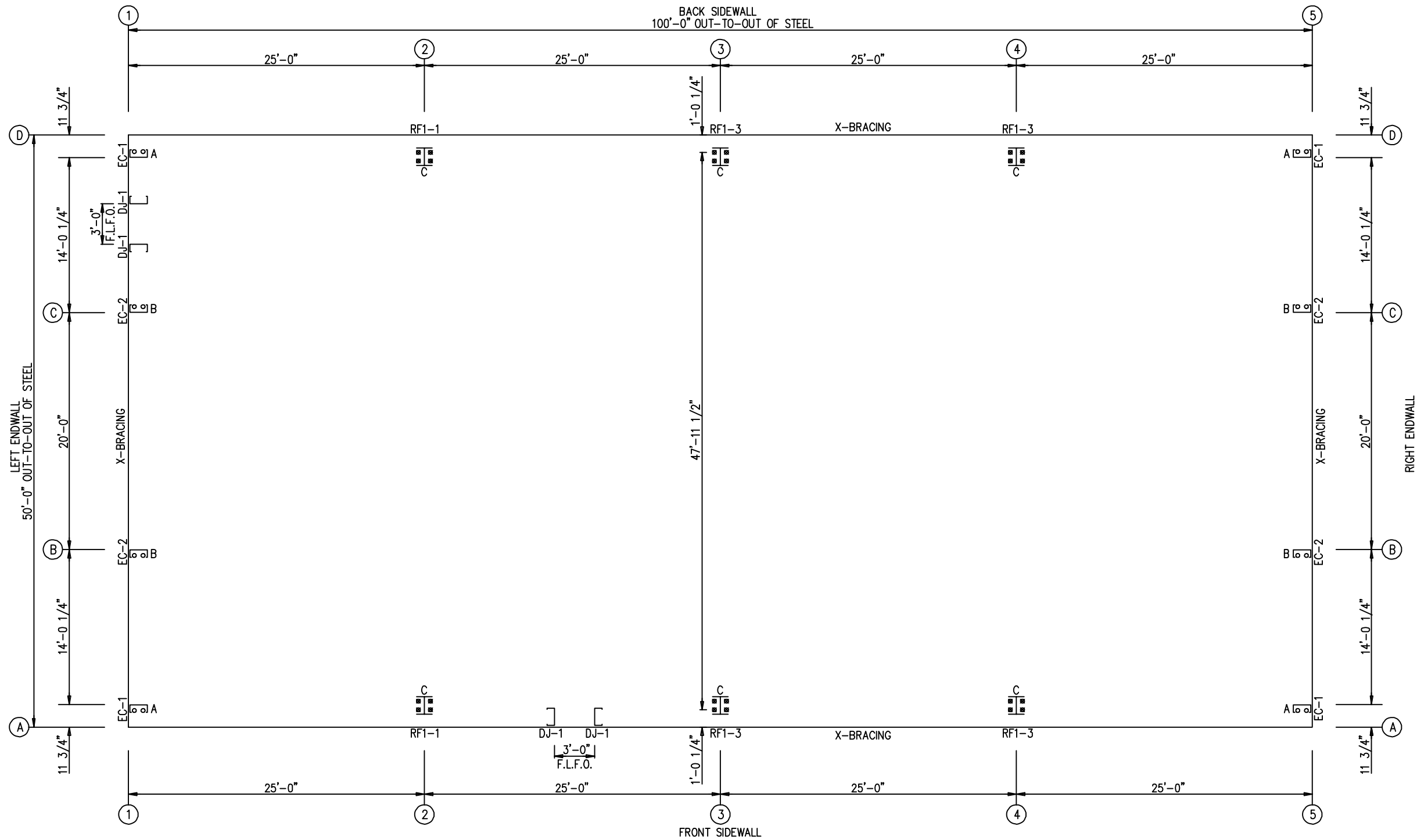
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BUILDING INFO COVERSHEET

ANCHOR BOLT SUMMARY

QTY	LOCATE	DIA (in)	TYPE
○ 16	ENDWALL	5/8"	A307
⊗ 24	FRAME	3/4"	A307

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	10/07/24	MEZ	MEZ	RTS
PERMIT	10/07/24	AA	CAF	RTS
ERECTION	10/07/24	PKD	PKD	RTS

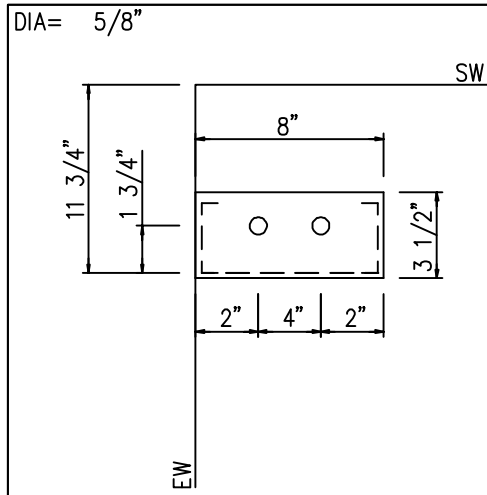


**GWBB**  
 3033 S. PARKER RD 12 FLOOR  
 AURORA, CO 80014  
 PHONE: (800)-497-2135  
 WWW.GREATWESTERBUILDINGS.COM

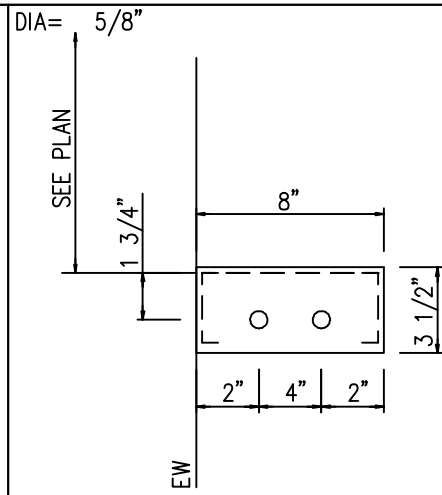
CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	3 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	ANCHOR BOLT PLAN

ANCHOR BOLT PLAN  
 NOTE: ALL BASE PLATES @ 100'-0" (U.N.)  
 F.L.F.O. = FIELD LOCATED FRAME OPENING

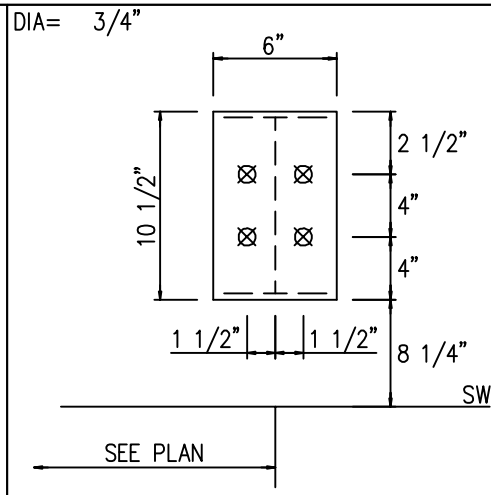
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DETAIL A



DETAIL B



DETAIL C

**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.

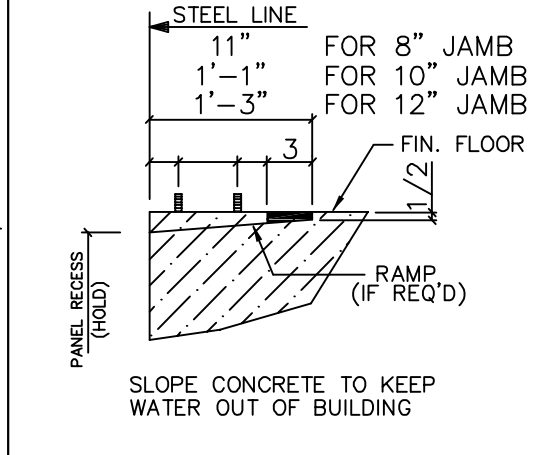
ANCHOR BOLT DIAMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING ENGINEER BASED ON AISC METHOD WITH COMBINED SHEAR AND TENSION.

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



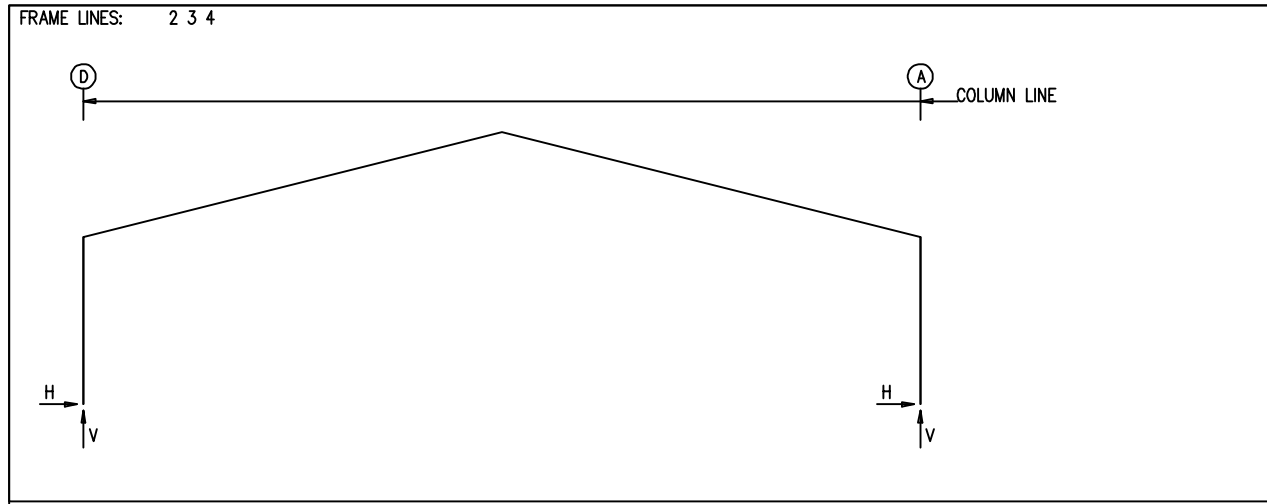
CONCRETE DETAIL AT OVERHEAD DOOR

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	10/07/21	MEZ	MEZ	RTS
PERMIT	10/07/21	AA	CAF	RTS
ERECTION	10/07/21	PKD	PKD	RTS

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

CUSTOMER NAME:	
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PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
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**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) QTY	DIA	Base_Plate(in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
2*	D	1	10.7	15.0	2	-5.0	-6.3	4	0.750	6.000	10.50	0.375	0.0
2*	A	3	5.0	-6.3	1	-10.7	15.0	4	0.750	6.000	10.50	0.375	0.0
		1	-10.7	15.0	5	1.9	-6.3						
2*	FRAME lines: 2 3 4												

**RIGID FRAME: BASIC COLUMN REACTIONS (k)**

FRAME Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert
2*	D	1.2	1.8	0.5	0.6	9.1	12.5	4.5	6.2	-9.6	-12.3	-4.3	-9.5
2*	A	-1.2	1.8	-0.5	0.6	-9.1	12.5	-4.5	6.3	4.3	-9.5	9.6	-12.3

FRAME Line	Column Line	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert	Seismic_Right Horz	Seismic_Right Vert
2*	D	-7.5	-7.0	-2.2	-4.2	-4.4	-12.3	-5.6	-10.5	-0.2	-0.1	0.2	0.1
2*	A	2.2	-4.2	7.5	-7.0	5.6	-10.5	4.4	-12.3	-0.2	0.1	0.2	-0.1

FRAME Line	Column Line	Seismic_Long Horz	Seismic_Long Vert	MIN_SNOW Horz	MIN_SNOW Vert	F1UNB_SL_L Horz	F1UNB_SL_L Vert	F1UNB_SL_R Horz	F1UNB_SL_R Vert
2*	D	0.0	-0.3	4.5	6.2	3.7	5.9	3.7	3.5
2*	A	0.0	-0.3	-4.5	6.2	-3.7	3.5	-3.7	5.9

2\* FRAME lines: 2 3 4

**NOTES FOR REACTIONS**

Building reactions are based on the following building data:

- Width (ft) = 50.00
- Length (ft) = 100.00
- Eave Height (ft) = 10.00/10.00
- Roof Slope (rise/12) = 3.0:12/3.0:12
- Dead Load (psf) = 2.00
- Collateral Load (psf) = 1.00
- Live Load (psf) = 20.00
- Snow Load (psf) = 10.00
- Ultimate Wind Speed (mph) = 115.00
- Wind Code = IBC-18
- Exposure = C
- Closed/Open = Enclosed
- Importance Wind = 1.00
- Importance Seismic = 1.00
- Seismic Zone = B
- Seismic Coeff (Fa\*Ss) = 0.27

ID Description

- 1 Dead+Collateral+Live
- 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\_Suction+0.6Wind\_Long1L
- 7 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long1L
- 8 0.6Dead+0.6Wind\_Left1+0.6Wind\_Suction
- 9 0.6Dead+0.6Wind\_Right1+0.6Wind\_Suction
- 10 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L
- 11 0.6Dead+0.6Wind\_Suction+0.6Wind\_Long2L

**BUILDING BRACING REACTIONS**

Loc	Wall Line	Col Line	± Reactions(k)				Panel_Shear (lb/ft)	
			Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Wind	Seis
L_EW	1	C,B	1.7	1.0	0.2	0.1		
F_SW	A	3,4	2.9	1.0	0.8	0.3		
R_EW	5	B,C	1.7	1.0	0.2	0.1		
B_SW	D	4,3	2.9	1.0	0.8	0.3		

Reactions for seismic represent shear force, Eh

**ANCHOR BOLT SUMMARY**

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

**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	D	0.2	0.1	1.4	0.7	0.0	-1.8	0.0	-1.7	0.0	-0.9	0.0	-0.8	-0.8
1	C	0.7	0.3	4.9	2.5	-1.7	-7.3	0.0	-2.9	-1.7	-5.5	0.0	-1.2	-2.4
1	B	0.7	0.3	4.9	2.5	0.0	-2.9	1.7	-7.3	0.0	-1.2	1.7	-5.5	-2.4
1	A	0.2	0.1	1.4	0.7	0.0	-1.7	0.0	-1.8	0.0	-0.8	0.0	-0.9	-0.8

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	Seis Long Vert	MIN_SNOW Horz	MIN_SNOW Vert
1	D	0.9	0.0	-2.4	0.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1	C	2.6	0.0	-5.2	-0.9	-4.2	-0.2	-0.2	0.0	0.2	0.0	0.0	2.5
1	B	2.6	0.9	-4.2	0.0	-5.2	0.0	0.2	0.2	-0.2	0.0	0.0	2.5
1	A	0.9	0.0	-1.4	0.0	-2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7

Frm Line	Col Line	E1UNB_SL_L Horz	E1UNB_SL_L Vert	E1UNB_SL_R Horz	E1UNB_SL_R Vert
1	D	0.0	0.6	0.0	0.1
1	C	0.0	2.8	0.0	1.2
1	B	0.0	1.2	0.0	2.8
1	A	0.0	0.1	0.0	0.6

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
5	A	0.2	0.1	1.4	0.7	0.0	-1.8	0.0	-1.7	0.0	-0.9	0.0	-0.8	-0.8
5	B	0.7	0.3	4.9	2.5	-1.7	-7.3	0.0	-2.9	-1.7	-5.5	0.0	-1.2	-2.4
5	C	0.7	0.3	4.9	2.5	0.0	-2.9	1.7	-7.3	0.0	-1.2	1.7	-5.5	-2.4
5	D	0.2	0.1	1.4	0.7	0.0	-1.7	0.0	-1.8	0.0	-0.8	0.0	-0.9	-0.8

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	Seis Long Vert	MIN_SNOW Horz	MIN_SNOW Vert
5	A	0.9	0.0	-2.4	0.0	-1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7
5	B	2.6	0.0	-5.2	-0.9	-4.2	-0.2	-0.2	0.0	0.2	0.0	0.0	2.5
5	C	2.6	0.9	-4.2	0.0	-5.2	0.0	0.2	0.2	-0.2	0.0	0.0	2.5
5	D	0.9	0.0	-1.4	0.0	-2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7

Frm Line	Col Line	E2UNB_SL_L Horz	E2UNB_SL_L Vert	E2UNB_SL_R Horz	E2UNB_SL_R Vert
5	A	0.0	0.6	0.0	0.1
5	B	0.0	2.8	0.0	1.2
5	C	0.0	1.2	0.0	2.8
5	D	0.0	0.1	0.0	0.6

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

Frm Line	Col Line	Column_Reactions(k)						Bolt(in) QTY	DIA	Base_Plate(in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin			Width	Length	Thick	
1	D	6	0.5	-1.3	7	-0.5	-1.3	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	1.7	6	0.5	-1.3						
1	C	8	1.6	-4.0	7	-1.4	-2.7	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.9	8	1.6	-4.0						
1	B	9	1.6	-4.0	10	-1.4	-2.7	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.9	9	1.6	-4.0						
1	A	11	0.5	-1.3	7	-0.5	-1.3	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	1.7	11	0.5	-1.3						
5	A	6	0.5	-1.3	7	-0.5	-1.3	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	1.7	6	0.5	-1.3						
5	B	8	1.6	-4.0	7	-1.4	-2.7	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.9	8	1.6	-4.0						
5	C	9	1.6	-4.0	10	-1.4	-2.7	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	5.9	9	1.6	-4.0						
5	D	11	0.5	-1.3	10	-0.5	-1.3	2	0.625	3.500	8.000	0.250	0.0
		1	0.0	1.7	11	0.5	-1.3						

DATE	CHK.	ENG.
	MEZ	RTS
	CAF	RTS
	PKD	RTS

ISSUE	APPROVAL	PERMIT	ERECTION

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CUSTOMER NAME: \_\_\_\_\_  
PROJECT NUMBER: \_\_\_\_\_  
PROJECT LOCATION: \_\_\_\_\_  
PROJECT COUNTY: \_\_\_\_\_  
PROJECT END USE: \_\_\_\_\_  
CUSTOMER PHONE NUMBER: \_\_\_\_\_  
CUSTOMER EMAIL: \_\_\_\_\_  
SCALE: N.T.S.

SHEET NUMBER: 5 OF 11  
JOB NUMBER: 93299, 93300, 93301, 93302, 93303  
SHEET TITLE: ANCHOR BOLT REACTIONS

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

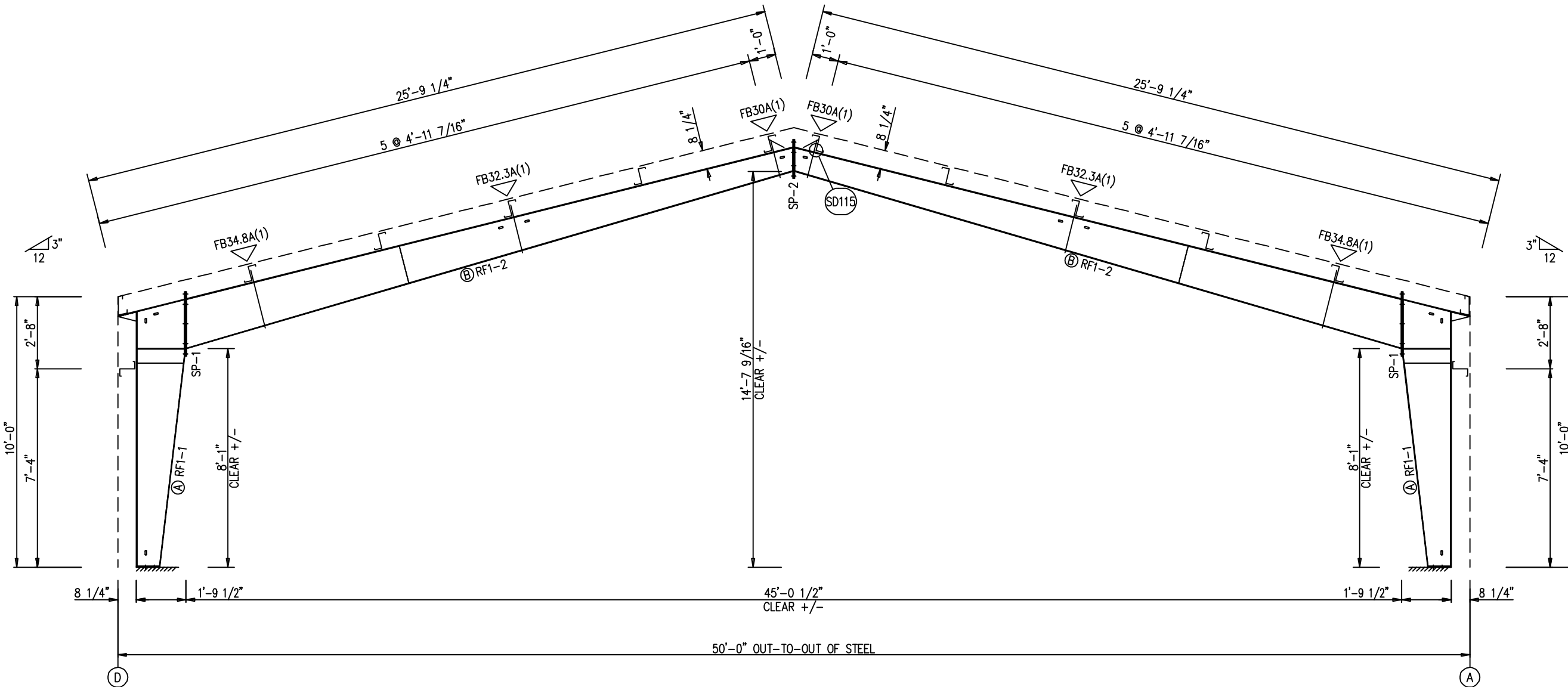
SPLICE BOLT TABLE						
Mark	Qty		Int	Type	Dia	Length
	Top	Bot				
SP-1	4	4	2	A325	5/8"	2"
SP-2	4	4	0	A325	5/8"	1 3/4"

ALTERNATE MEMBER		
Frame Line	OID	Mark
3, 4	A	RF1-3
3, 4	B	RF1-4

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

MEMBER TABLE						
Mark	Web Depth		Web Plate		Outside Flange	Inside Flange
	Start/End	Thick	Thick	Length	W x Thk x Length	W x Thk x Length
RF1-1	10.0/20.6	0.164	0.164	7'-6 1/8"	5 x 1/4" x 9'-4 15/16"	5 x 1/4" x 7'-9 3/4"
RF1-2	20.6/21.0	0.188	0.164	2'-4 1/16"	5 x 1/4" x 2'-6 3/8"	5 x 1/4" x 23'-4 5/16"
	21.0/17.0	0.164	0.135	8'-6 11/16"	5 x 1/4" x 23'-1 3/8"	
	17.0/10.0	0.135	0.135	15'-0"		

ISSUE	DATE	DWN.	CHK.	ENG.	APPROVAL	PERMIT	ERECTION	RTS	RTS	RTS	RTS	RTS	RTS	RTS	RTS	RTS	RTS	
								MEZ	AA	CAF	PKD	PKD	PKD	PKD	PKD	PKD	PKD	PKD



RIGID FRAME ELEVATION: FRAME LINES 2 3 4

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PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	6 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	RIGID FRAME ELEVATION

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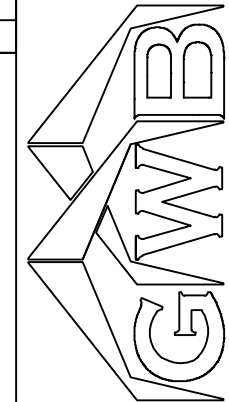
MEMBER TABLE  
FRAME LINE A & D

QUAN	MARK	PART	LENGTH
2	DJ-1	8x25C16	7'-0"
1	DH-1	GH-1	3'-0"
2	E-1	L08E16-3	24'-11 1/2"
4	E-2	L08E16-3	24'-11 1/2"
2	E-3	L08E16-3	24'-11 1/2"
2	G-4	8X25Z16	27'-1 1/2"
4	G-5	8X25Z16	29'-3 1/2"
2	G-6	8X25Z16	27'-1 1/2"
4	CB-2	CB0250	26'-11 1/4"

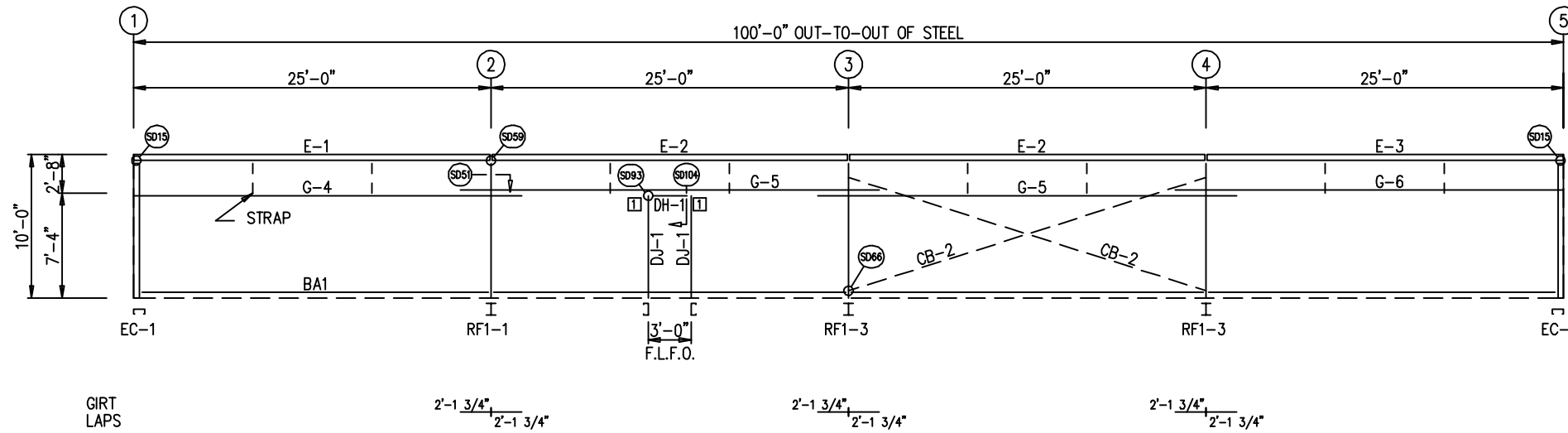
ISSUE	DATE	CHK.	ENG.
APPROVAL	10/07/21	MEZ	RTS
PERMIT	10/07/21	AA	CAF
ERECTION	10/07/21	PKD	RTS

CONNECTION PLATES  
FRAME LINE A & D

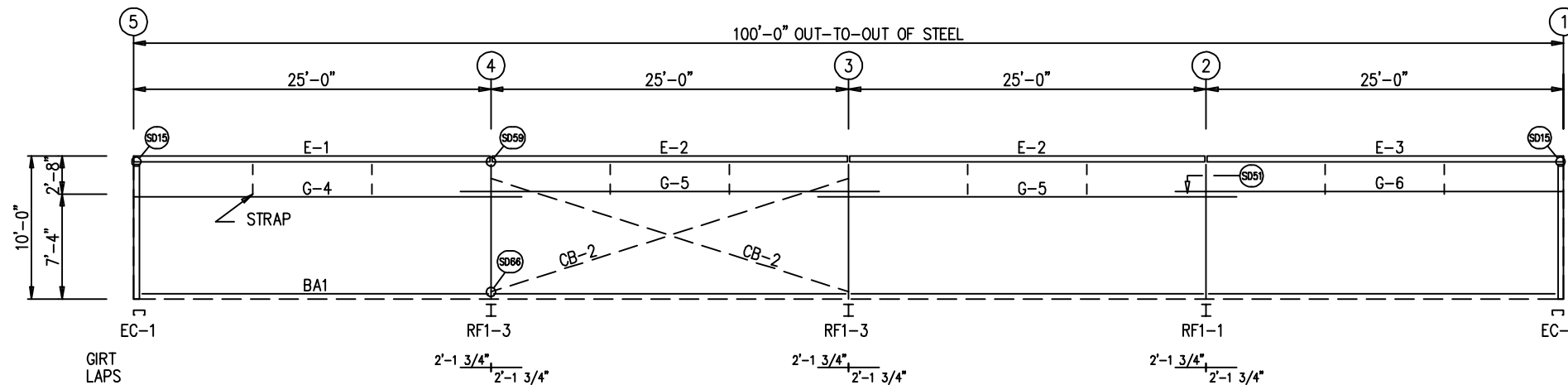
ID	QUAN	MARK
1	2	CL-103



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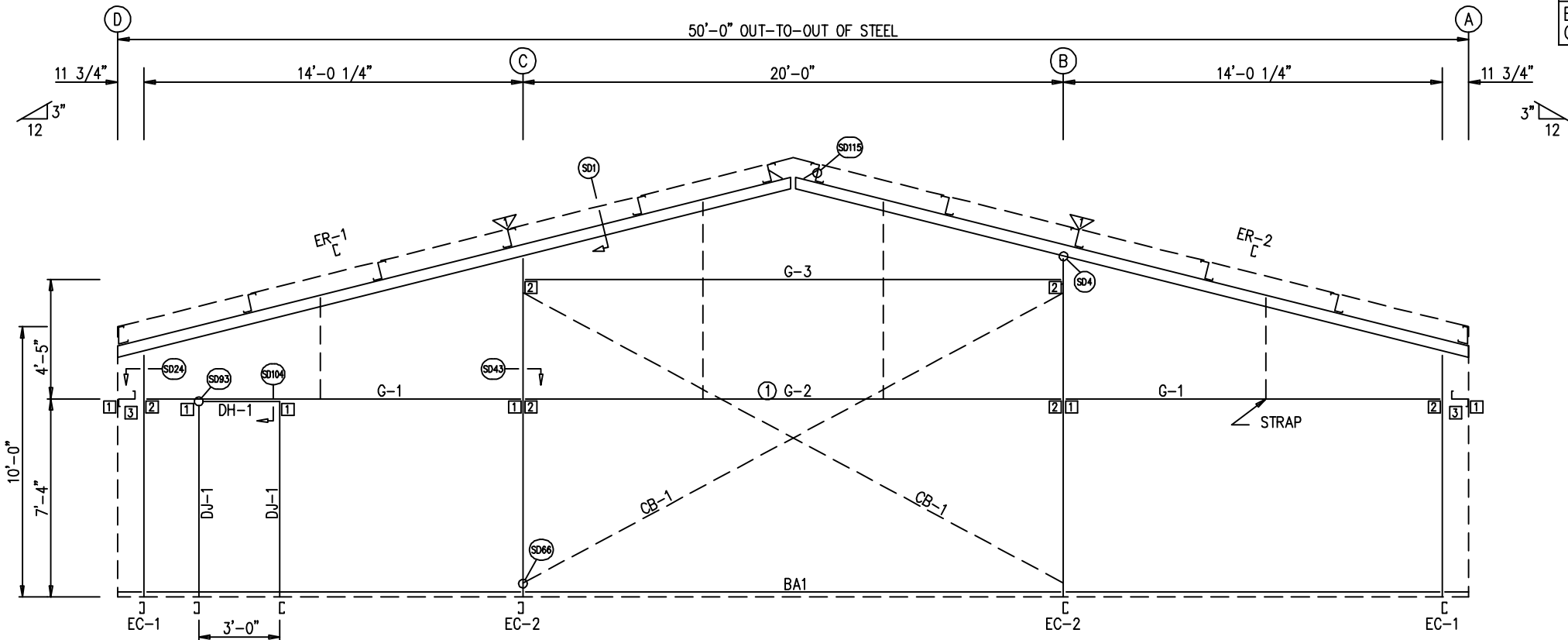
SIDEWALL FRAMING: FRAME LINE A  
NOTE: F.L.F.O. = FIELD LOCATED FRAME OPENING



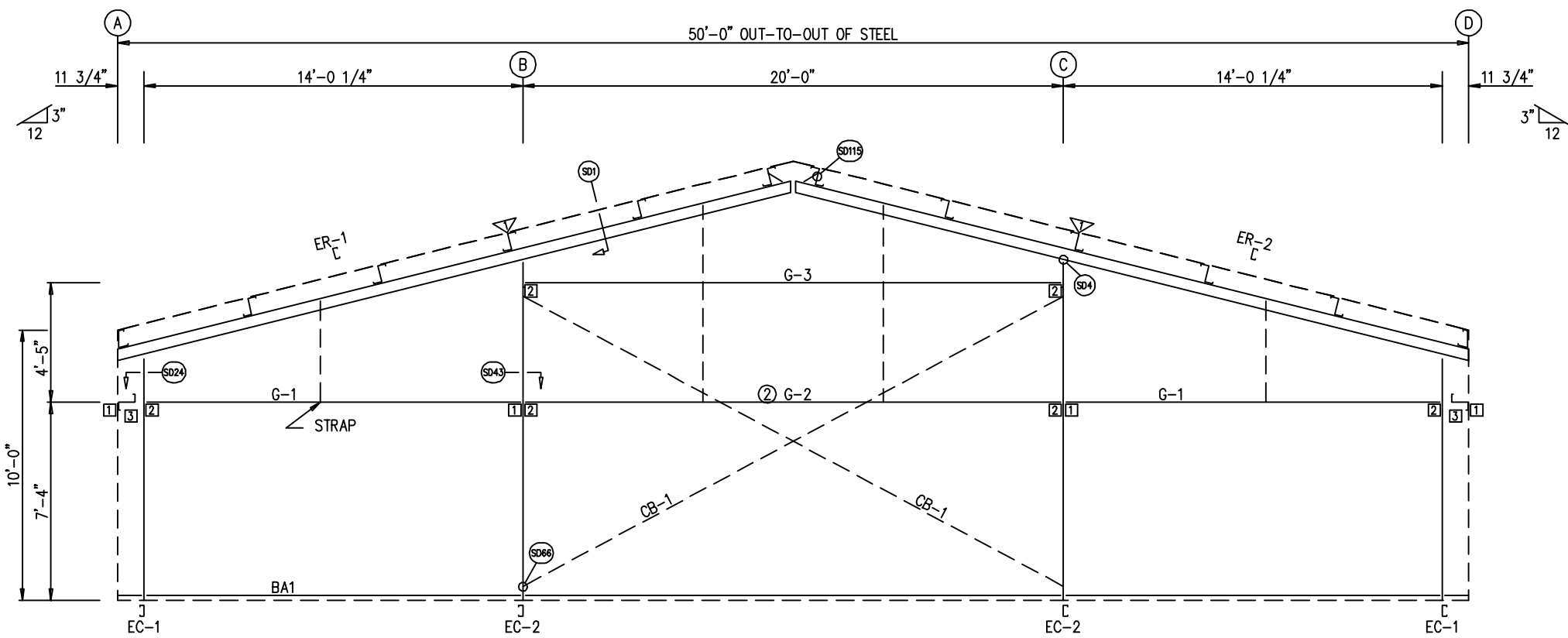
SIDEWALL FRAMING: FRAME LINE D

CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
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SCALE:	N.T.S.
SHEET NUMBER:	7 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	SIDEWALL FRAMING

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ENDWALL FRAMING: FRAME LINE 1  
NOTE: F.L.F.O. = FIELD LOCATED FRAME OPENING



ENDWALL FRAMING: FRAME LINE 5

BOLT TABLE  
FRAME LINE 1 & 5

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 & 5

QUAN	MARK	PART	LENGTH
4	EC-1	8x25C16	8'-9 7/16"
4	EC-2	8x25C12	12'-3 1/2"
2	ER-1	8X35C12	25'-9"
2	ER-2	8X35C12	25'-9"
2	DJ-1	8x25C16	7'-0"
1	DH-1	GH-1	3'-0"
4	G-1	8X25Z16	13'-7 7/8"
2	G-2	8X25Z14	19'-11 1/2"
2	G-3	8X25Z16	19'-11 1/2"
4	CB-1	CB0250	23'-6 3/4"

FIELD WORK TABLE  
FRAME LINE 1 & 5

OID	DETAIL	DIMENSION 1	DIMENSION 2
1	SD202	7'-3 3/8"	12'-8 1/8"
2	SD202	7'-3 3/8"	12'-8 1/8"

CONNECTION PLATES  
FRAME LINE 1 & 5

ID	QUAN	MARK
1	10	CL-103
2	12	CL-100
3	4	CL-5

FLANGE BRACE TABLE  
FRAME LINE 1 & 5

VID	QUAN	MARK
1	4	FB29.3

DATE	DWN.	CHK.	ENG.
ISSUE	APPROVAL	PERMIT	ERECTION

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SCALE:	N.T.S.
SHEET NUMBER:	8 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	ENDWALL FRAMING

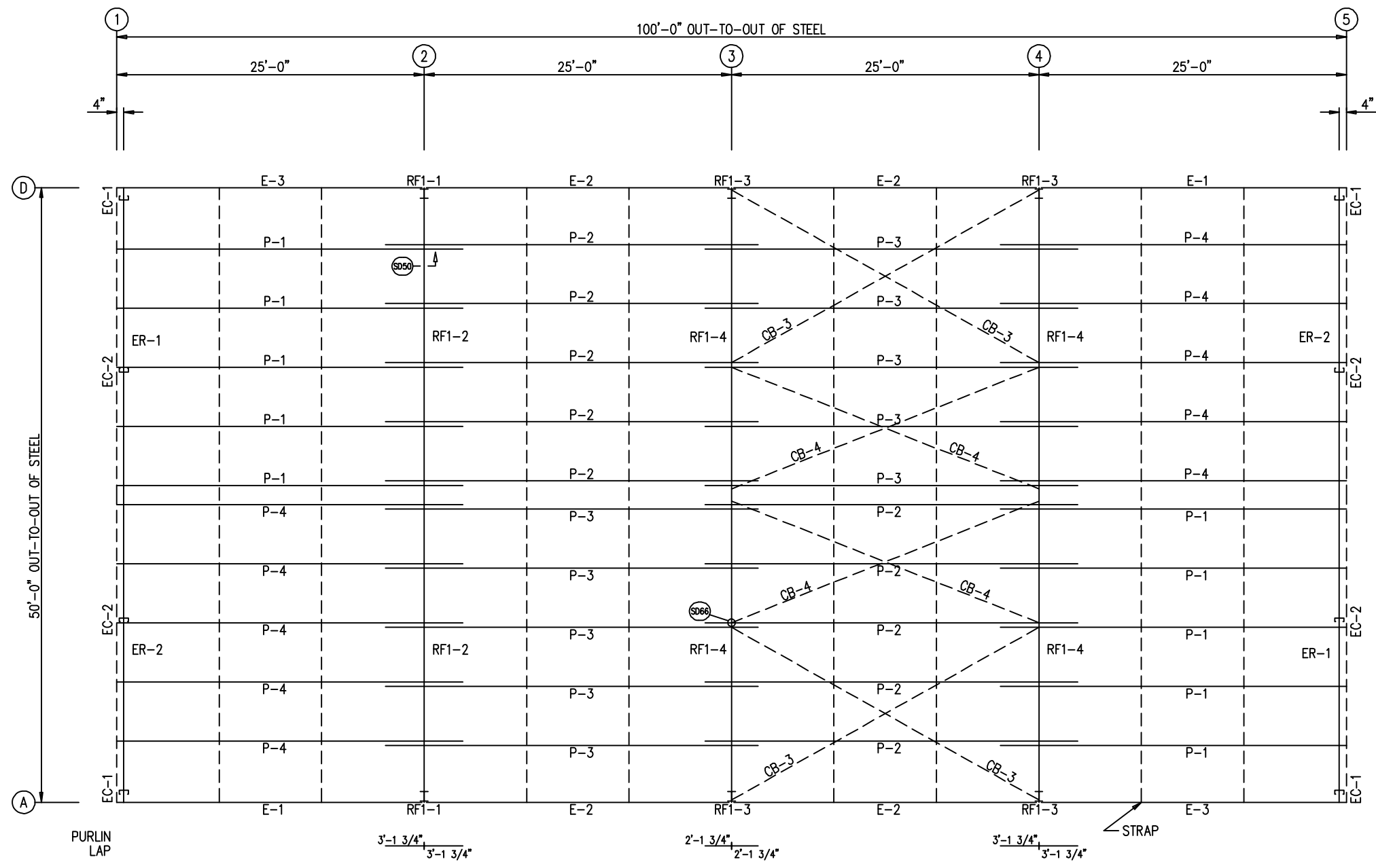
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MEMBER TABLE  
ROOF PLAN

QUAN	MARK	PART	LENGTH
10	P-1	8X25Z14	28'-1 1/2"
10	P-2	8X25Z16	30'-3 1/2"
10	P-3	8X25Z16	30'-3 1/2"
10	P-4	8X25Z14	28'-1 1/2"
2	E-1	L08E16-3	24'-11 1/2"
4	E-2	L08E16-3	24'-11 1/2"
2	E-3	L08E16-3	24'-11 1/2"
4	CB-3	CB0250	28'-9"
4	CB-4	CB0250	27'-4"

ISSUE	DATE	CHK.	ENG.
APPROVAL	10/07/24	MEZ	RTS
PERMIT	10/07/24	AA	CAF
ERECTION	10/07/24	PKD	RTS

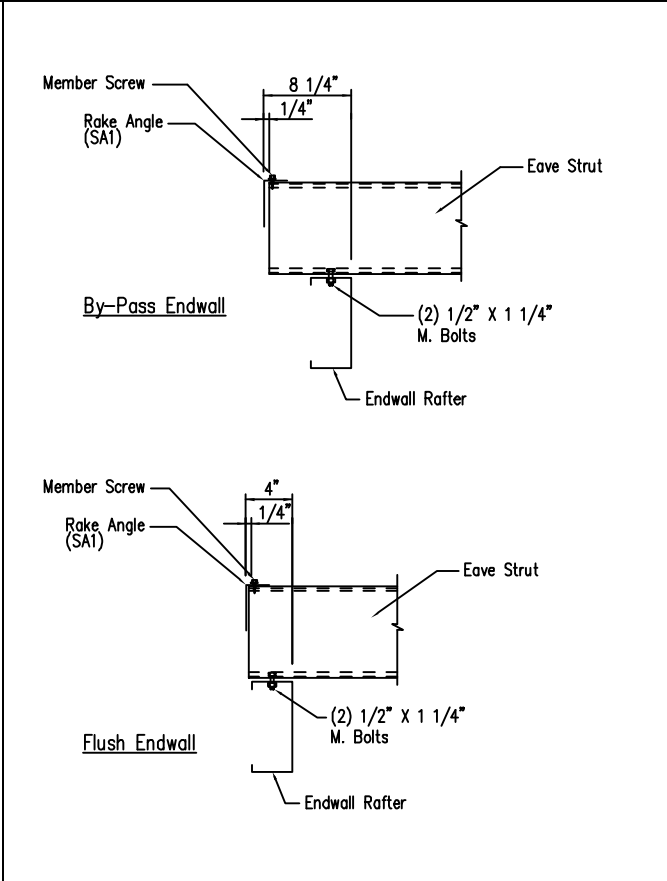
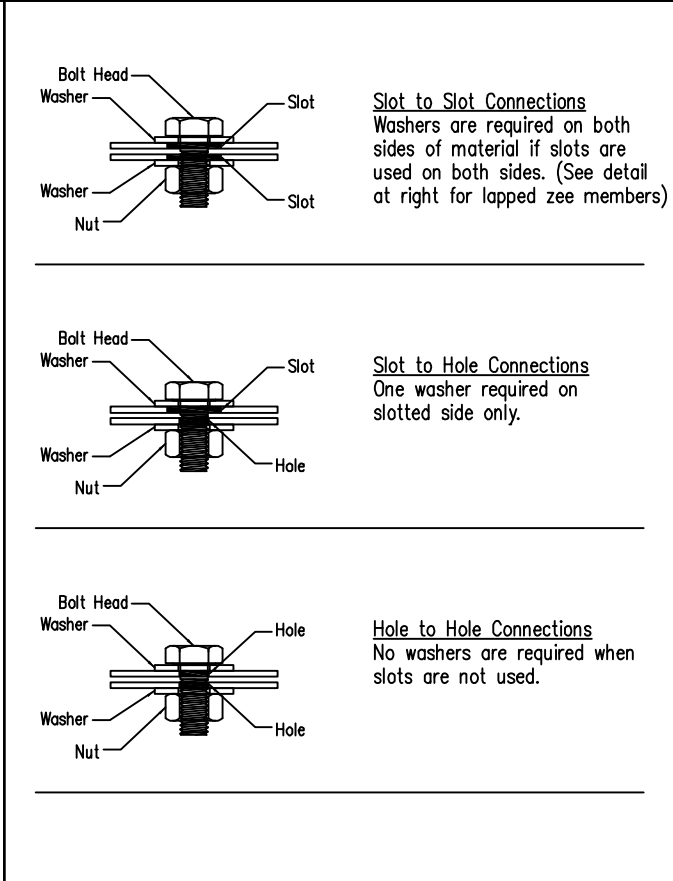
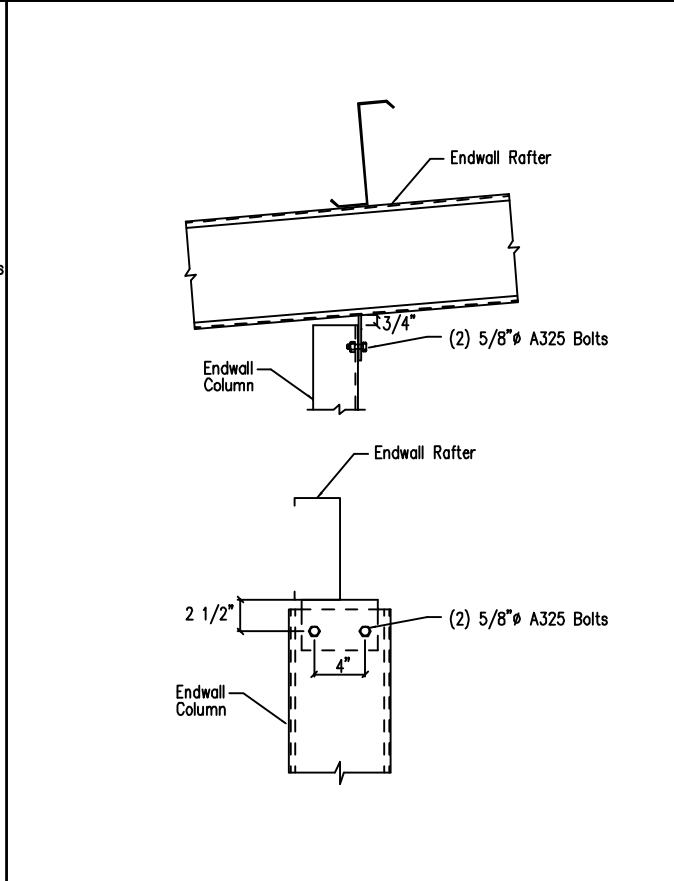
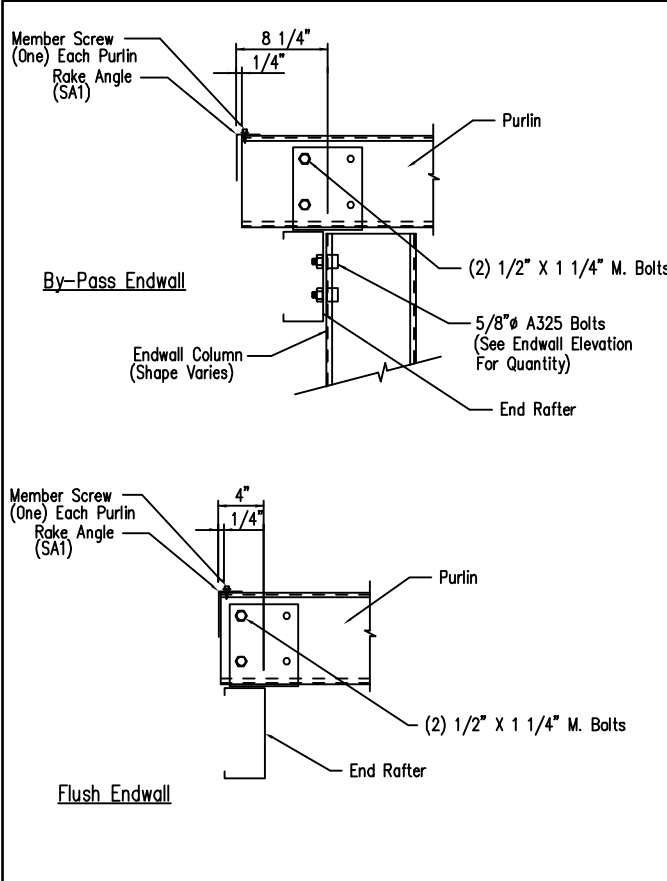


ROOF FRAMING PLAN

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PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	9 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	ROOF FRAMING PLAN

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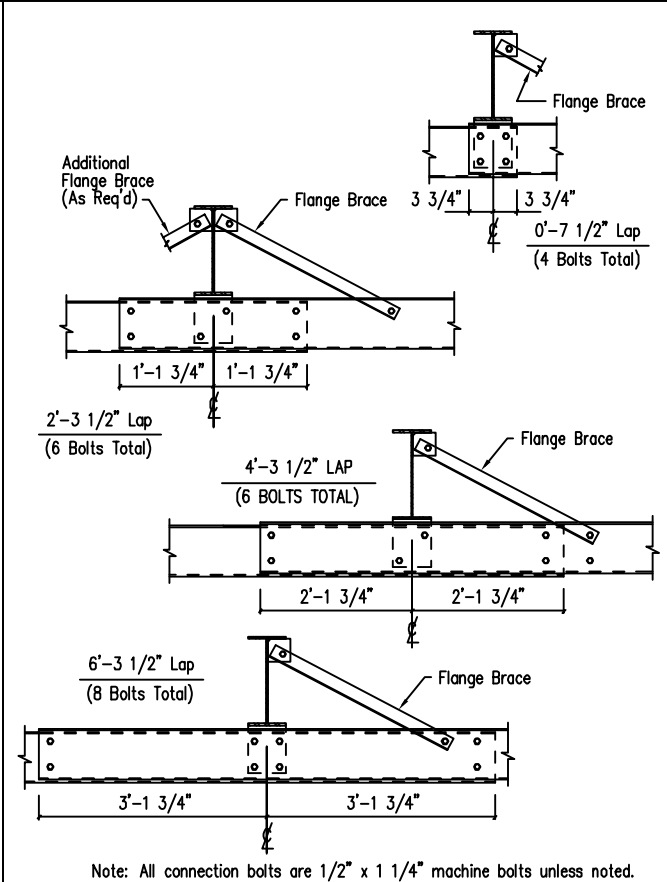
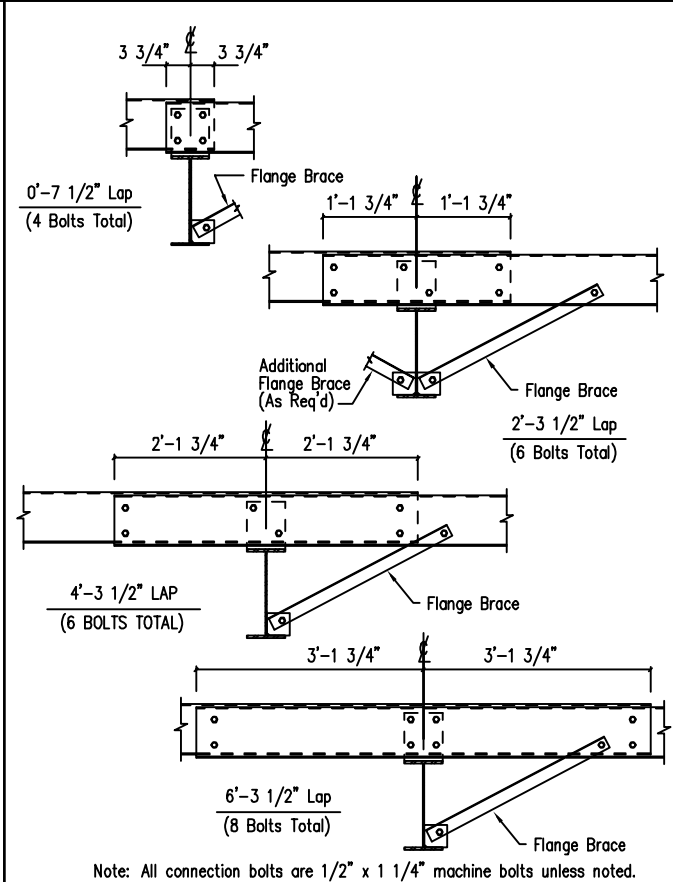
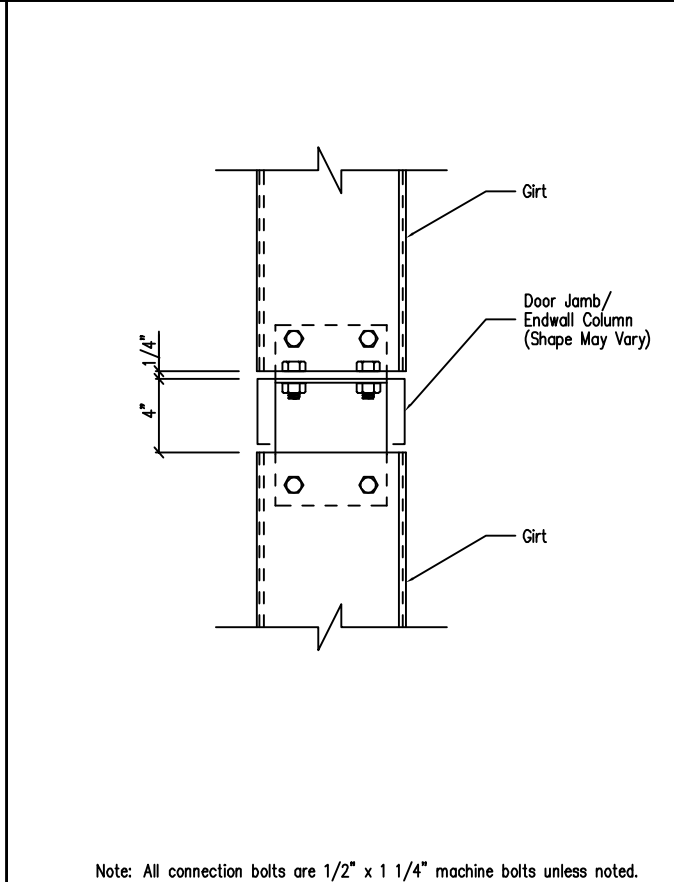
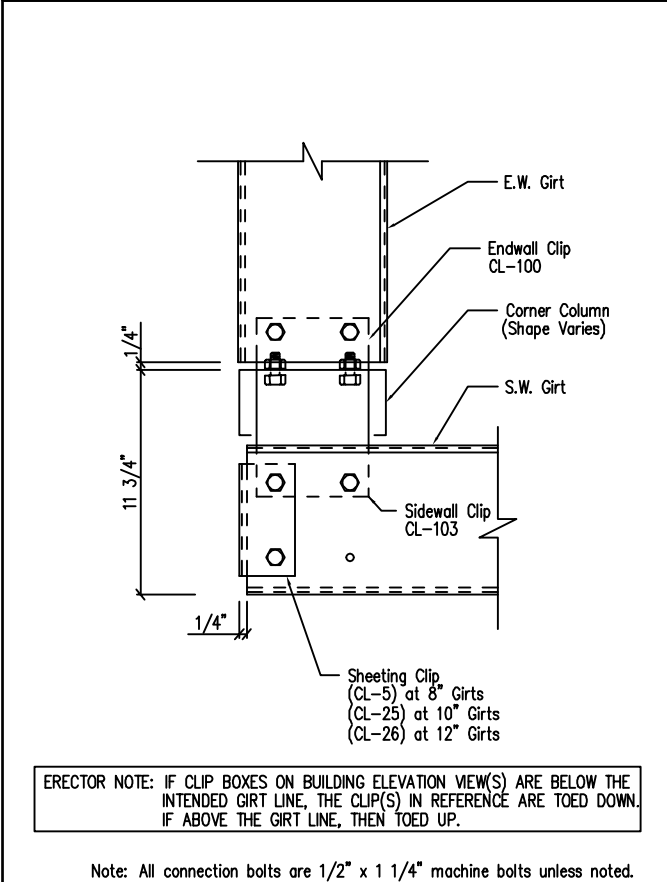


Section Thru Rake at Cold-Form Rafter  
DRAWING NO. SD1

Cold Form Column to Cold Form Rafter  
DRAWING NO. SD4

Typical Washer Requirements  
DRAWING NO. SD11

Eave Strut to Cold Form Rafter Connection  
DRAWING NO. SD15



Section at "C" Corner Column  
Flush Endwall  
DRAWING NO. SD24

Girt to "C" Door Jamb/Endwall Column Connection  
DRAWING NO. SD43

Interior Bay Purlin Framing  
DRAWING NO. SD50

Interior Bay Girt Framing  
DRAWING NO. SD51

DATE	ISSUE	DWN.	CHK.	ENG.
10/07/21	APPROVAL	MEZ	RTS	
10/07/21	PERMIT	AA	CAF	RTS
10/07/21	ERECTION	PKD	PKD	RTS

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PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	10 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	DETAIL DRAWINGS

ERECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEW(S) ARE BELOW THE INTENDED GIRT LINE, THE CLIP(S) IN REFERENCE ARE TOED DOWN. IF ABOVE THE GIRT LINE, THEN TOED UP.

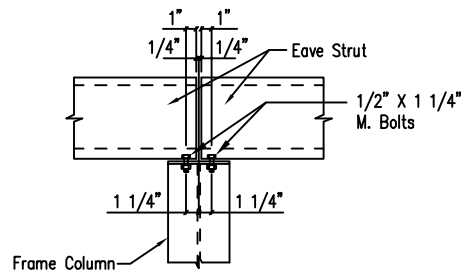
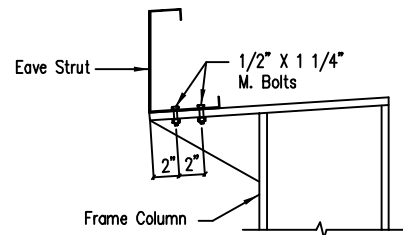
Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

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

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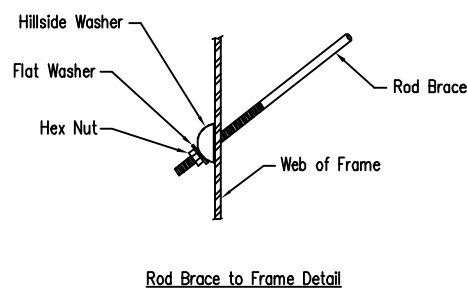
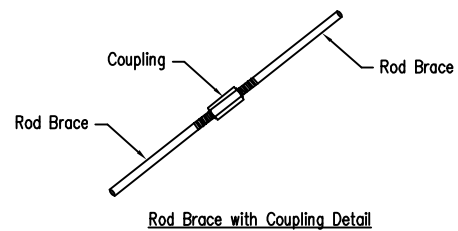
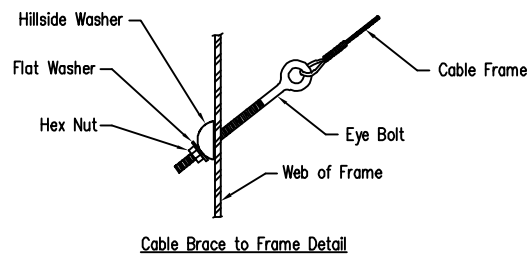
Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

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Eave Strut at Interior Column  
By-Pass Sidewall

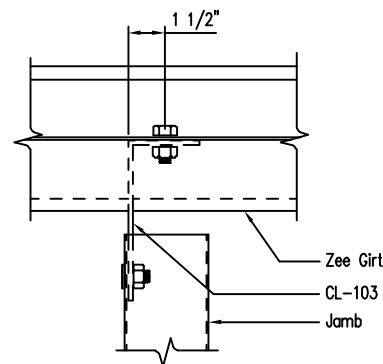
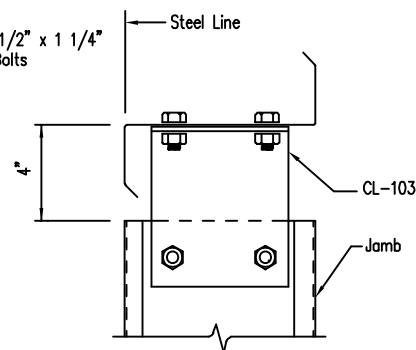
DRAWING NO.  
SD59



Cable or Rod Brace to Frame Connection

DRAWING NO.  
SD66

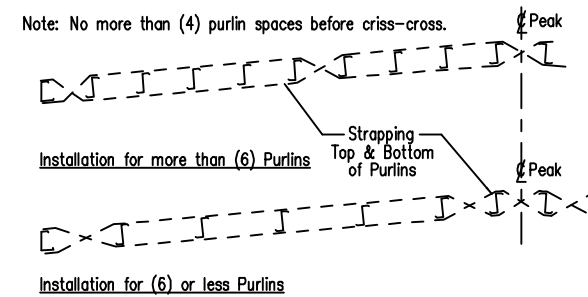
NOTE:  
All Bolts are 1/2" x 1 1/4"  
A307 Mach. Bolts



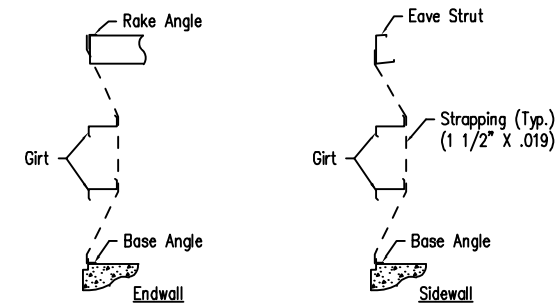
ERECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEW(S) ARE LEFT OF THE INTENDED JAMB LINE, THE CLIP(S) IN REFERENCE ARE TOED LEFT. IF RIGHT OF THE JAMB LINE, THEN TOED RIGHT. THE DRAWINGS ABOVE ARE TOED LEFT FOR REFERENCE.

Jamb to Girt

DRAWING NO.  
SD93



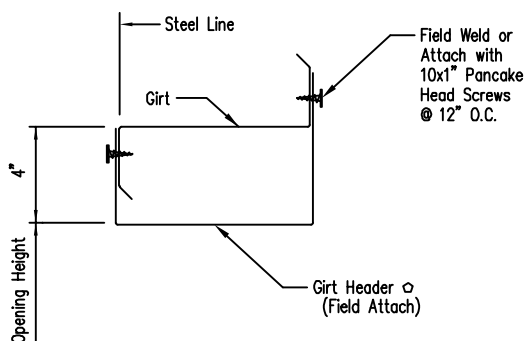
Note: 1) Attach straps w/#10-16 x 1" pancake self driller (RF1) at purlins or girts.  
2) No criss-cross straps in walls.



Wall Suction Strap Installation  
(Refer to Wall Elevations for Location)

Roof Uplift and Wall Suction Strap Details

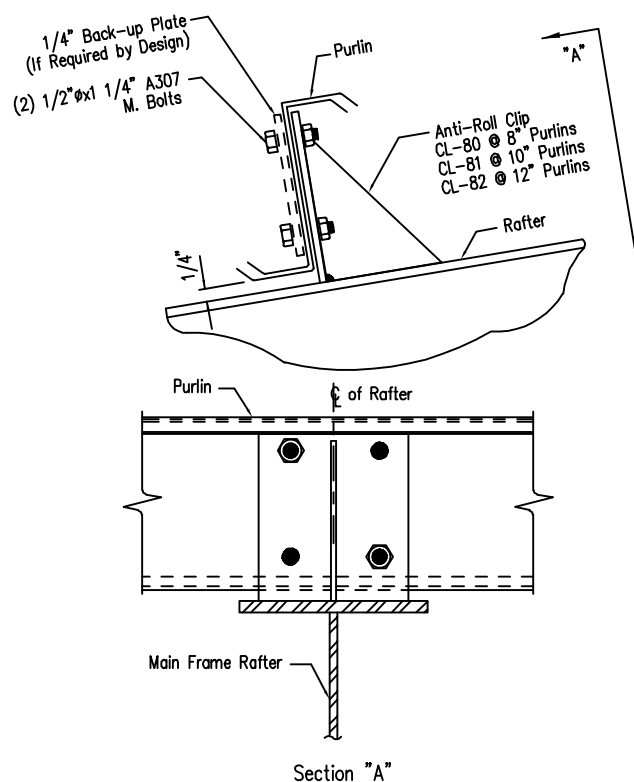
DRAWING NO.  
SD102



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

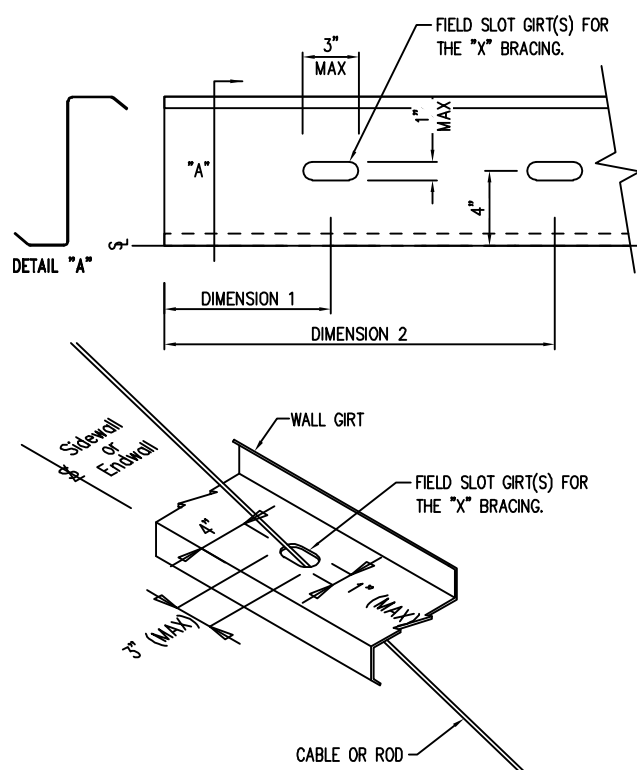
Framed Opening w/ Girt Header

DRAWING NO.  
SD104



Purlin to Anti-Roll Clip Connection

DRAWING NO.  
SD115

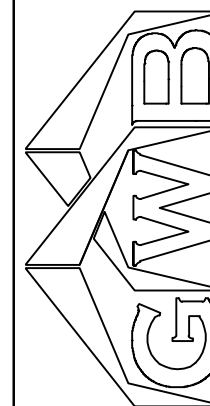


NOTE: FIELD SLOT THE GIRTS USING THE CORRESPONDING DIMENSIONS AS SHOWN ON THE "FIELD WORK TABLE" ON THE WALL ELEVATION.

Field Work Slotting for Bracing

DRAWING NO.  
SD202

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	10/01/11	MEZ	MEZ	RTS
PERMIT	10/01/11	AA	CAF	RTS
ERECTION	10/01/11	PKD	PKD	RTS



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

CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	11 OF 11
JOB NUMBER:	93299, 93300, 93301, 93302, 93303
SHEET TITLE:	DETAIL DRAWINGS

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