DESIGN CRITERIA:

BUILDING CODE:	INTERNATIONAL BUILDING CODE; 2018 EDITION
RISK CATEGORY:	II
SNOW IMPORTANCE FACTOR (Is):	1.00
WIND IMPORTANCE FACTOR (Iw):	1.00
SEISMIC IMPORTANCE FACTOR (Ie):	1.00
DEAD LOAD:	SELF WT. OF STRUCTURE, AS IT OCCURS IN THIS DESIGN
LIVE LOAD (ROOF):	20.0 PSF, REDUCIBLE PER CODE PROVISIONS
GROUND SNOW LOAD:	100.0 PSF (Pg) NON-REDUCIBLE
FLAT ROOF SNOW LOAD:	1.0
COLLATERAL LOAD:	5.0 PSF
ROOF RAIN LOAD DATA	i = 3.75 IN. PER HR.

DESIGN WIND LOAD:
BASIC DESIGN WIND SPEED V = 115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED Vasd=89.3 MPH
COMPONENT & CLADDING WIND LOAD 27 PSF
WIND EXPOSURE CATEGORY C

DESIGN SEISMIC LOAD:
RISK CATEGORY II
SEISMIC DESIGN CATEGORY B
MAPPED RESPONSE ACCELERATION PARAMETERS: Ss=.071 S1=.029
SOIL SITE CLASS: D
MAXIMUM RESPONSE ACCELERATION PARAMETERS: Sms=.113 Sm1=.069
DESIGN RESPONSE ACCELERATION PARAMETERS: Sds=.075 Sd1=.046
SEISMIC IMPORTANCE FACTOR-Ie 1.0
RESPONSE MODIFICATION COEFFICENT-R = 3.5, DEFLEC. AMPL. FACTOR-Cd =3.0
SEISMIC DESIGN CATEGORY B
SEISMIC RESPONSE COEFFICENT-Cs 0.0214
SEISMIC BASE SHEAR (TOTAL) Cs x DL = 0.0214 X 9.17K= 1.96K
SEISMIC FORCE RESISTING SYSTEMS- STEEL ORDINARY MOMENT FRAME, PBR PANEL DIAPHRAGM ACTION & E.H.S. CABLE BRACING SYSTEM.
ANALYSIS PROCEDURE- EQUIVALENT LATERAL FORCE

RESTRICTIONS ON LOADING
IT SHALL BE UNLAWFUL TO PLACE, OR CAUSE OR PERMIT TO BE PLACED, ON ANY FLOOR OR ROOF OF A BUILDING STRUCTURE, OR PORTION THEREOF, A LOAD GREATER THAN IS PERMITTED BY THIS REQUIREMENTS.

NOTE: THIS DESIGN ASSUMES THAT ALL DOORS AND WINDOWS ARE DESIGNED TO MEET THE 105 MPH WIND LOAD REQUIREMENT AND IF THIS REQUIREMENT IS NOT MET, THEN THE ENGINEERING CERTIFICATION IS VOID.

BUILDINGS' DESIGN

REVIEWED FOR CODE COMPLIANCE 07/20/2023

DRAWING SCHEDULE

WELDING NOTES:

ALL FIELD WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS REQUIRED. ALL WORK MUST BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

NOTE: CERTIFICATION CERTIFICATES FOR ALL WELDERS ON THIS PROJECT SHALL BE FURNISHED BY THE BUILDING ERECTORS.

DIMENSIONING NOTES:

ALL DIMENSIONS SHOWN MUST BE VERIFIED BEFORE BEGINNING FABRICATION. FIELD MEASUREMENTS MAY BE REQUIRED.

STRUCTURAL ONLY FOUNDATIONS ONLY
COLORADO LICENSED ROBERT V. NANGIA PROFESSIONAL ENGINEER

SEALING OF THESE DRAWINGS DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR AS THE DESIGN PROFESSIONAL FOR THIS PROJECT. FURTHERMORE, SEALING OF THESE DRAWINGS DOES NOT IMPLY RESPONSIBILITY FOR ANY AREA EXCEPT FOR THE STRUCTURAL STEEL AS SHOWN ON THESE DRAWINGS.

ROBERT V. NANGIA P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095

Big Country Steel Systems, LLC

WELDING NOTES:

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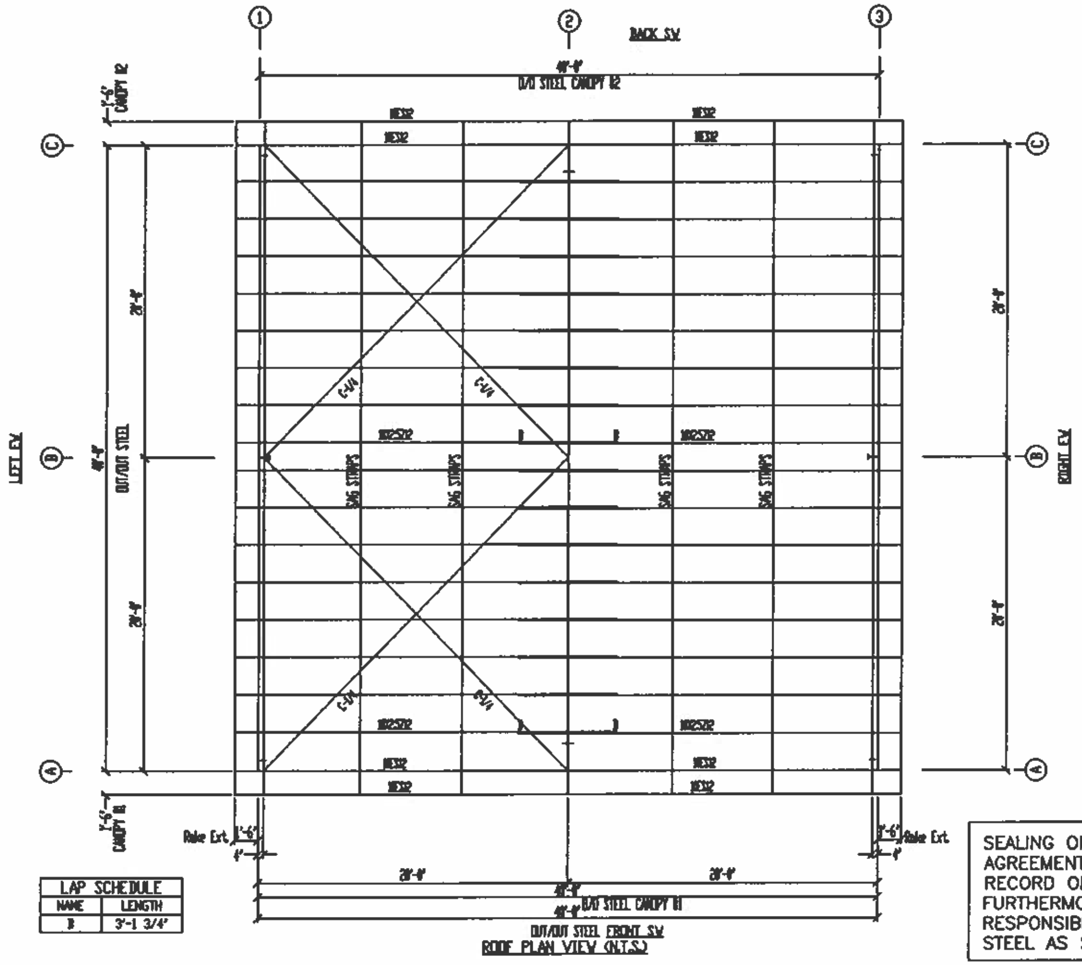
REVIEWED FOR CODE COMPLIANCE
07/20/2023



LAP SCHEDULE	
NAME	LENGTH
B	3'-1 3/4"

STRUCTURAL ONLY
FOUNDATION BY OTHERS

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Big Country Steel Systems, LLC

BUILDING PLAN VIEW

REVIEWED FOR CODE COMPLIANCE
07/20/2023

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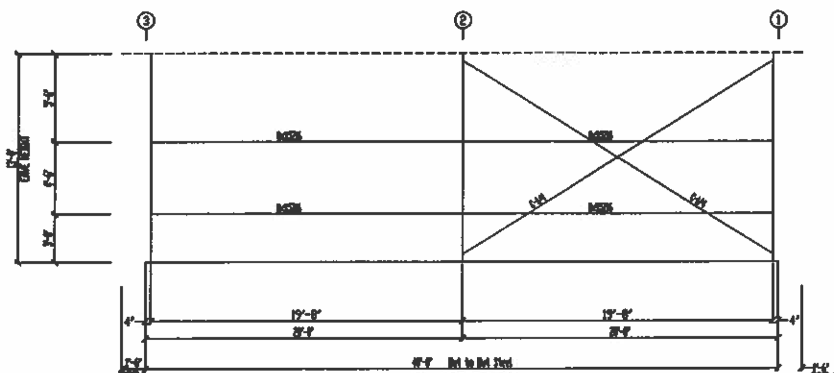
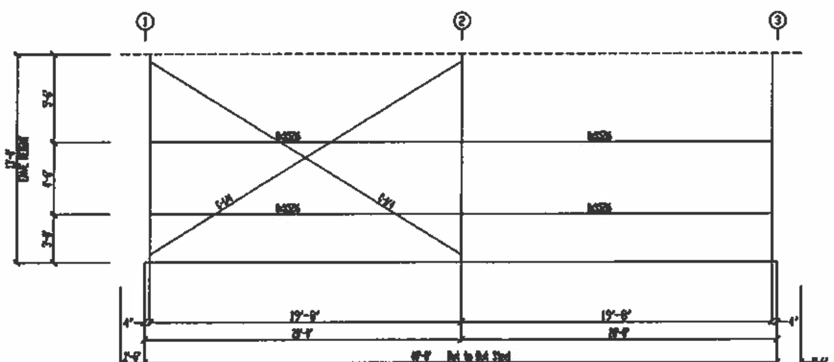


FRAMING ELEVATION AT COL LINE - C (N.T.S.)



FRAMING ELEVATION AT COL LINE - A (N.T.S.)

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STRUCTURAL ONLY

Big Country Steel Systems, LLC

REVIEWED FOR CODE COMPLIANCE
07/28/2023

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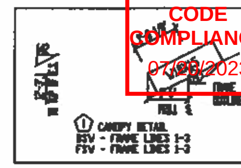
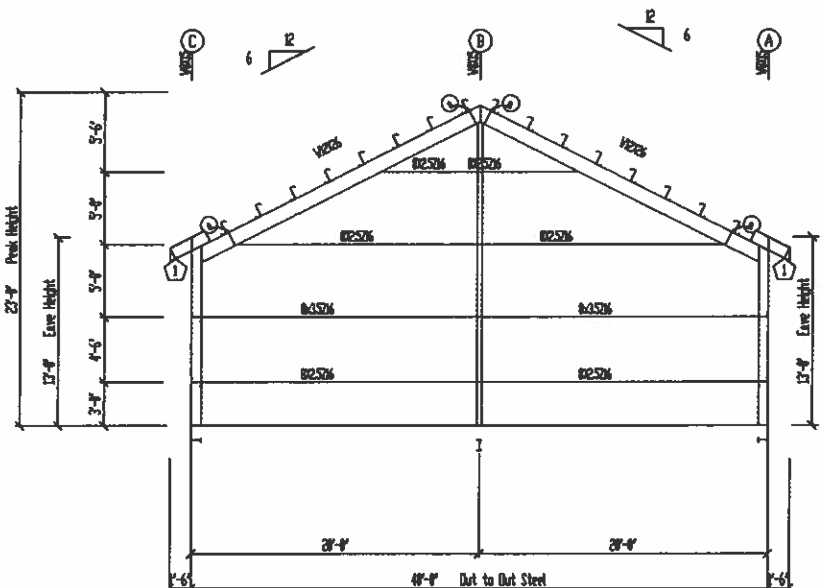
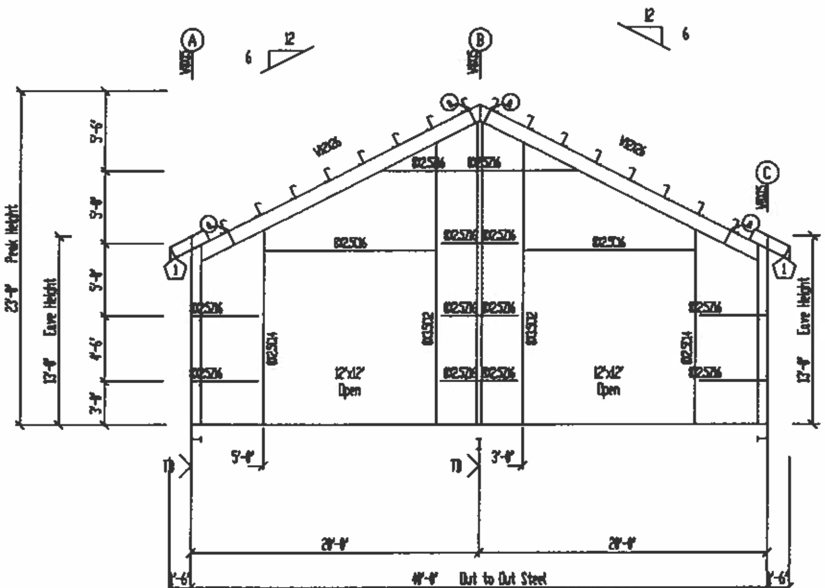




FRAMING ELEVATION AT FRAME LINE - 1 (N.T.S.)



FRAMING ELEVATION AT FRAME LINE - 3 (N.T.S.)

FLANGE BRACE SCHEDULE	
SYMB	SIZE
(a)	L2 1/2X2 1/2X1/4

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STRUCTURAL ONLY
COLORADO LICENSED PROFESSIONAL ENGINEER

Big Country Steel Systems, LLC

WELDING NOTES:

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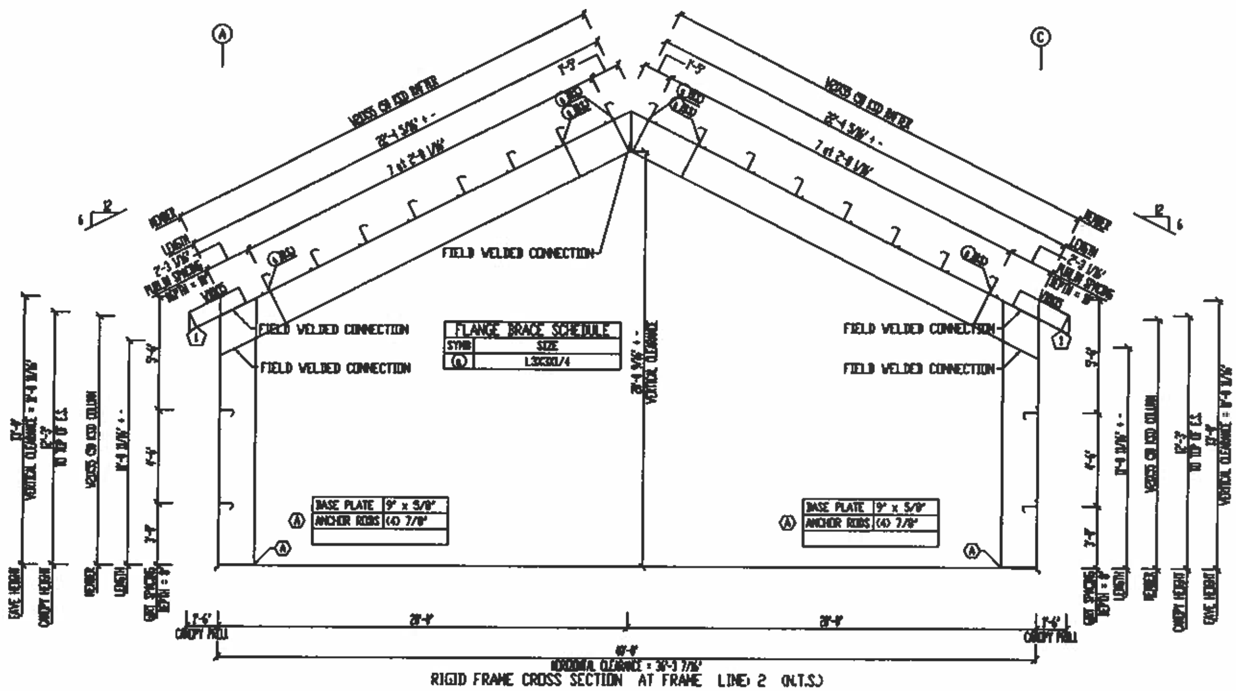
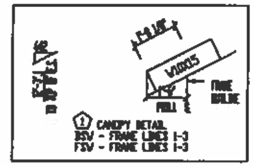


FLANGE BRACE SCHEDULE	
SYMB	SIZE
A	L3X3X1/4

BASE PLATE	9" x 5/8"
ANCHOR RODS	(4) 7/8"

BASE PLATE	9" x 5/8"
ANCHOR RODS	(4) 7/8"

RIGID FRAME CROSS SECTION AT FRAME LINE 2 (N.T.S.)



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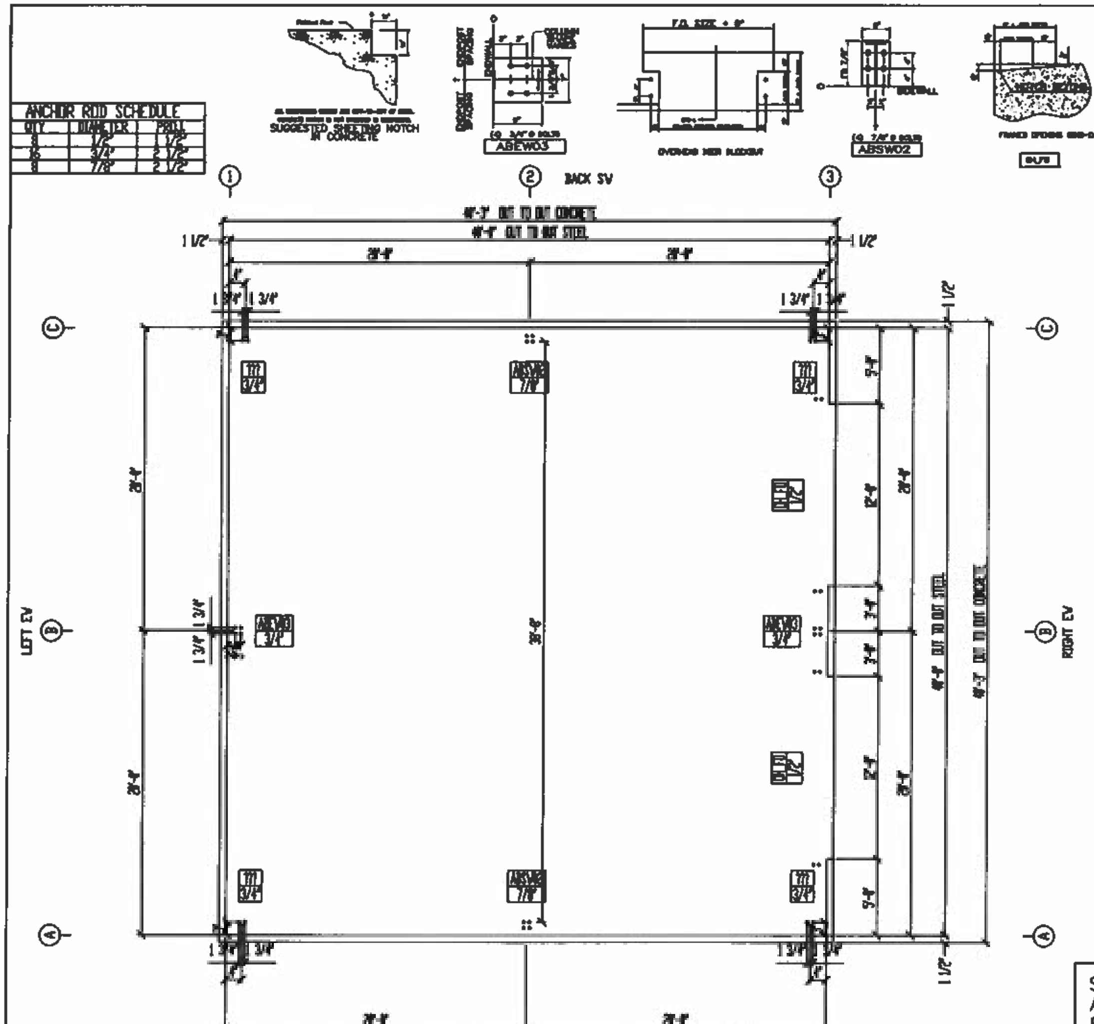
STRUCTURAL ONLY

COLORADO LICENSED PROFESSIONAL ENGINEER

Big Country Steel Systems, LLC

ANCHOR ROD SCHEDULE		
QTY	DIAMETER	DRILL
8	1/2"	1 1/2"
16	3/4"	2 1/2"
8	7/8"	2 1/2"



ANCHOR ROD PLAN (N.T.S.)

FINISHED FLOOR ELEVATION = 100'0"

BASE PLATE ELEVATION = 100'0" UNLESS OTHERWISE NOTED

REVIEWED FOR CODE COMPLIANCE 07/20/2023

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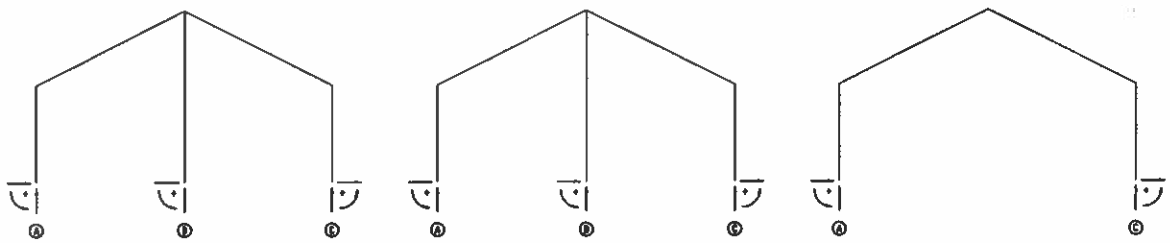
Big Country Steel Systems, LLC

BUILDING ANCHOR ROD PLAN

CUSTOMER SWEETWATER STEEL

LOCATION STEAMBOAT, COLORADO ROUTT COUNTY



ENDWALL FRAME LINE(S) 1				
LOAD DESCRIPTION	COLUMN ROW	HORZ (Kips)	VERT (Kips)	MOMENT (K-FT)
DL	A	0.00	1.89	0.00
DL	B	0.00	1.56	0.00
DL	C	0.00	1.89	0.00
LL	A	0.00	2.52	0.00
LL	B	0.00	4.80	0.00
LL	C	0.00	2.52	0.00
SL	A	0.00	14.57	0.00
SL	B	0.00	22.76	0.00
SL	C	0.00	14.57	0.00
COL	A	0.00	0.59	0.00
COL	B	0.00	0.59	0.00
COL	C	0.00	0.59	0.00
WL+	A	-1.53	-4.79	0.00
WL+	B	-3.06	-8.12	0.00
WL+	C	-1.53	-4.79	0.00
WL-	A	1.68	-4.79	0.00
WL-	B	3.57	-8.12	0.00
WL-	C	1.68	-4.79	0.00
USL	A	0.00	3.57	0.00
USL	B	0.00	17.30	0.00
USL	C	0.00	15.74	0.00
USR	A	0.00	15.74	0.00
USR	B	0.00	17.30	0.00
USR	C	0.00	3.57	0.00
ALSL_1	A	0.00	2.81	0.00
ALSL_1	B	0.00	2.81	0.00
ALSL_1	C	0.00	0.00	0.00
ALSR_2	A	0.00	0.00	0.00
ALSR_2	B	0.00	2.81	0.00
ALSR_2	C	0.00	2.81	0.00
ALSL_2	A	0.00	2.81	0.00
ALSL_2	B	0.00	4.82	0.00
ALSL_2	C	0.00	2.81	0.00
DL + SL + COL	A	0.00	16.64	0.00
DL + SL + COL	B	0.00	25.74	0.00
DL + SL + COL	C	0.00	16.64	0.00
0.6DL + 0.6WL-	A	1.01	-2.22	0.00
0.6DL + 0.6WL-	B	3.34	-3.70	0.00
0.6DL + 0.6WL-	C	1.01	-2.22	0.00
DL + USL + COL	A	0.00	5.64	0.00
DL + USL + COL	B	0.00	28.34	0.00
DL + USL + COL	C	0.00	17.41	0.00
DL + USR + COL	A	0.00	17.41	0.00
DL + USR + COL	B	0.00	28.34	0.00
DL + USR + COL	C	0.00	5.64	0.00

ENDWALL FRAME LINE(S) 2				
LOAD DESCRIPTION	COLUMN ROW	HORZ (Kips)	VERT (Kips)	MOMENT (K-FT)
DL	A	0.00	1.89	0.00
DL	B	0.00	1.56	0.00
DL	C	0.00	1.89	0.00
LL	A	0.00	2.52	0.00
LL	B	0.00	4.80	0.00
LL	C	0.00	2.52	0.00
SL	A	0.00	14.57	0.00
SL	B	0.00	22.76	0.00
SL	C	0.00	14.57	0.00
COL	A	0.00	0.59	0.00
COL	B	0.00	0.59	0.00
COL	C	0.00	0.59	0.00
WL+	A	-1.53	-4.79	0.00
WL+	B	-3.06	-8.12	0.00
WL+	C	-1.53	-4.79	0.00
WL-	A	1.60	-4.79	0.00
WL-	B	3.57	-8.12	0.00
WL-	C	1.60	-4.79	0.00
USL	A	0.00	3.57	0.00
USL	B	0.00	17.30	0.00
USL	C	0.00	15.74	0.00
USR	A	0.00	15.74	0.00
USR	B	0.00	17.30	0.00
USR	C	0.00	3.57	0.00
ALSL_1	A	0.00	2.81	0.00
ALSL_1	B	0.00	2.81	0.00
ALSL_1	C	0.00	0.00	0.00
ALSR_2	A	0.00	0.00	0.00
ALSR_2	B	0.00	2.81	0.00
ALSR_2	C	0.00	2.81	0.00
ALSL_2	A	0.00	2.81	0.00
ALSL_2	B	0.00	4.82	0.00
ALSL_2	C	0.00	2.81	0.00
DL + SL + COL	A	0.00	16.64	0.00
DL + SL + COL	B	0.00	25.74	0.00
DL + SL + COL	C	0.00	16.64	0.00
0.6DL + 0.6WL-	A	1.01	-2.22	0.00
0.6DL + 0.6WL-	B	3.34	-3.70	0.00
0.6DL + 0.6WL-	C	1.01	-2.22	0.00
DL + USL + COL	A	0.00	5.64	0.00
DL + USL + COL	B	0.00	28.34	0.00
DL + USL + COL	C	0.00	17.41	0.00
DL + USR + COL	A	0.00	17.41	0.00
DL + USR + COL	B	0.00	28.34	0.00
DL + USR + COL	C	0.00	5.64	0.00

FRAME LINE(S) 2				
LOAD DESCRIPTION	COLUMN ROW	HORZ (Kips)	VERT (Kips)	MOMENT (K-FT)
DL	A	1.79	4.77	0.00
DL	C	-1.79	4.77	0.00
COL	A	0.88	2.65	0.00
COL	C	-0.88	2.65	0.00
LL	A	2.88	4.52	0.00
LL	C	-2.88	4.56	0.00
SL	A	17.28	55.93	0.00
SL	C	-17.51	56.17	0.00
WLL	A	-5.44	-7.63	0.00
WLL	C	-2.89	-5.87	0.00
WLR	A	2.89	-5.87	0.00
WLR	C	5.44	-7.64	0.00
USL	A	14.78	28.94	0.00
USL	C	-14.65	32.48	0.00
USR	A	14.78	32.38	0.00
USR	C	-14.86	28.94	0.00
WLL1	A	0.77	-5.64	0.00
WLL1	C	1.58	-5.34	0.00
WLR1	A	-1.58	-5.34	0.00
WLR1	C	-0.77	-5.64	0.00
WEV	A	-0.88	-12.38	0.00
WEV	C	0.88	-12.38	0.00
SEL	A	-0.14	-0.02	0.00
SEL	C	-0.14	0.02	0.00
SER	A	0.14	0.02	0.00
SER	C	0.14	-0.02	0.00
WLL2	A	-5.44	-3.25	0.00
WLL2	C	-2.89	-1.47	0.00
WLR2	A	2.89	-1.47	0.00
WLR2	C	5.44	-3.25	0.00
WLL3	A	0.77	-10.84	0.00
WLL3	C	1.59	-9.73	0.00
WLR3	A	-1.59	-9.73	0.00
WLR3	C	-0.77	-10.84	0.00
DL+LL+COL	A	4.36	13.94	0.00
DL+LL+COL	C	-4.41	13.97	0.00
DL+USL+COL	A	16.57	36.26	0.00
DL+USL+COL	C	-17.23	39.82	0.00
DL+USR+COL	A	16.57	39.72	0.00
DL+USR+COL	C	-17.13	36.36	0.00
DL+SL+COL	A	19.56	63.34	0.00
DL+SL+COL	C	-19.79	63.49	0.00
0.6DL+0.6WALL	A	-2.42	-4.72	0.00
0.6DL+0.6WALL	C	[illegible]	[illegible]	0.00
0.6DL+0.6WEV	A	0.38	-4.58	0.00

FRAME LINE 1 - COLUMN ROW C		
LOAD DESCRIPTION	HORZ (Kips)	VERT (Kips)
WLP+	2.25	1.44
SEI+	0.30	0.50

FRAME LINE 2 - COLUMN ROW C		
LOAD DESCRIPTION	HORZ (Kips)	VERT (Kips)
WLP-	-2.25	1.44
SEI-	-0.30	0.50

FRAME LINE 1 - COLUMN ROW A		
LOAD DESCRIPTION	HORZ (Kips)	VERT (Kips)
WLP+	2.25	1.44
SEI+	0.30	0.50

FRAME LINE 2 - COLUMN ROW A		
LOAD DESCRIPTION	HORZ (Kips)	VERT (Kips)
WLP-	-2.25	1.44
SEI-	-0.30	0.50

REVIEWED FOR CODE COMPLIANCE
07/20/2023

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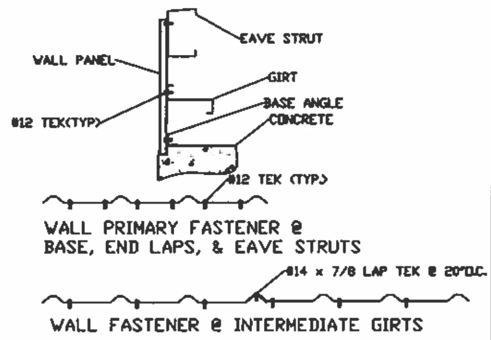
STRUCTURAL ONLY
FOUNDATION BY OTHERS
COLORADO LICENSED PROFESSIONAL ENGINEER
6/10/23

Big Country Steel Systems, LLC

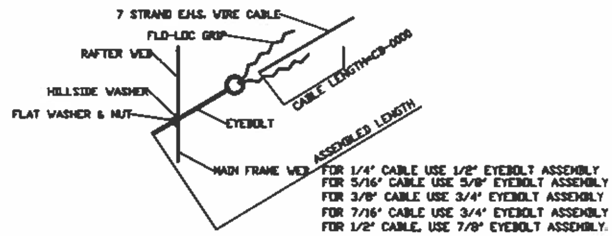
BUILDING EV & RF REACTIONS	BUILDER: BIG COUNTRY STEEL SYSTEMS	
[illegible]	CUSTOMER: SWEETWATER STEEL	[illegible]
DATE [illegible]	LOCATION: STEAMBOAT, COLORADO ROUTT COUNTY	DATE [illegible]
	JOB NO [illegible]	[illegible]

REVIEWED FOR CODE COMPLIANCE
07/20/2023

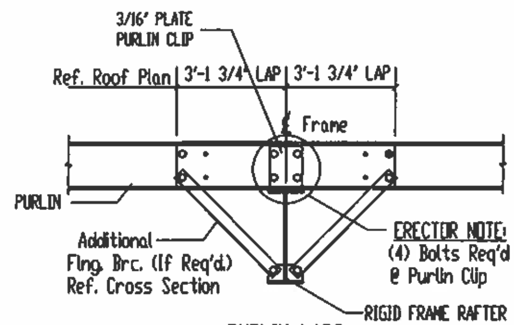


WALL APPLICATION

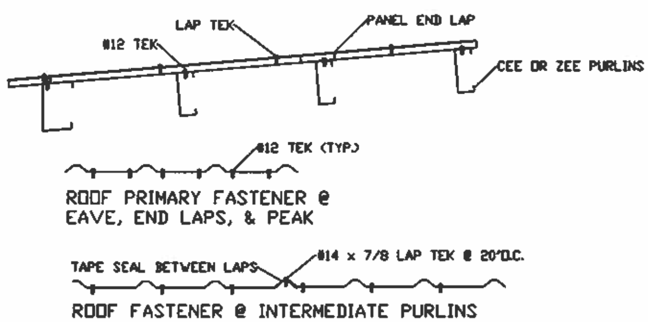
26 GA. PBR WALL PANEL INSTALLATION (N.T.S.)

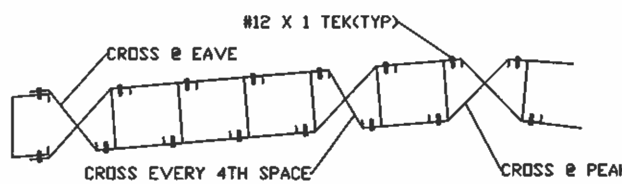


E.H.S. CABLE BRACING SYSTEM DETAILS



PURLIN LAPS
(8 Bolts. Add 2 additional per flng. brc.)





26 GA. PBR ROOF PANEL INSTALLATION (N.T.S.)

SAG STRAP DETAIL (N.T.S.)

STRUCTURAL ONLY
FOUNDATION BY OTHERS

Big Country Steel Systems, LLC