

**CITY OF ABILENE
HERITAGE COMMISSION
AGENDA**

April 18, 2024, at 4:00 p.m.
Abilene Public Library
209 NW 4th St.
Abilene, KS 67410

Agenda Item
1. Call to Order
2. Roll Call: ___ Nanc Scholl, Chair ___ Nicole Beck, Vice Chair ___ Mary Burtzloff ___ Andrew Pankratz ___ Barry Arp ___ Kevin Bailey ___ Jeff Radabaugh
3. Approval of Agenda
4. Approval of the Meeting Minutes – March 21, 2024
Business
5. National Preservation Month updates
6. Administrative Review permit approvals: <ul style="list-style-type: none">• 400 N Poplar (CKFF) – building permit• 105 N Cedar – sign permit
7. Comments
8. Adjournment

**CITY OF ABILENE
HERITAGE COMMISSION
MEETING MINUTES**

**March 21, 2024, at 4:00 p.m.
Abilene Public Library
209 NW 4th St. Abilene, KS 67410**

Members Present: Nanc Scholl (Chair), Mary Burtzloff, Kevin Bailey, Andrew Pankratz

Members Absent: Barry Arp, Nicole Beck (Vice Chair), Jeff Radabaugh

Staff Present: Community Development Director Kari Zook, Administrative Assistant Kellie Olson

Call to Order

The meeting was called to order by Chair Scholl at 4:00 p.m.

Approval of Agenda

Pankratz moved to approve the agenda, seconded by Burtzloff. Motion carried unanimously 4-0.

Approval of the Meeting Minutes – February 15, 2024

Bailey moved to approve the minutes as written, seconded by Pankratz. Motion carried unanimously 4-0.

Business

National Preservation Month – May

Discussion was held regarding ordering a banner to hang over NW 3rd St during the month of May to recognize National Historic Preservation Month. Members would also like to move forward with a Proclamation for Preservation Month to be recognized by the City Commission at their April 22, 2024, meeting.

Administrative Review permit approvals:

- 303 N Broadway – mechanical/plumbing/electrical permit

Comments

Discussion was held regarding ideas for public outreach and promotion of historic preservation in our community. The commission would like to pursue having articles and/or pictures submitted to the Abilene Reflector-Chronicle newspaper highlighting our many historic properties and districts. This topic will continue to be discussed at future meetings.

Adjournment

Burtzloff made a motion to adjourn at 4:28 p.m., seconded by Pankratz. Motion carried unanimously 4-0.

Minutes Approved,

Nanc Scholl, Chair
Heritage Commission

Attest:

Kari Zook
Community Development Director

Abilene Celebrates

◆ HISTORIC PRESERVATION MONTH ◆

Permit #: **2024-075 (400 N Poplar) Building Permit Application**



City Code may be reviewed at www.abileneks.citycode.net or at the Community Development Department.

Permit to include:

(Check all that apply)

- Building
- Mechanical
- Plumbing
- Roofing
- Electrical

District Type:

(Check all that apply)

- Residential
- Commercial
- Historic District
- Non-Residential
- Industrial
- Flood Zone

Please submit this form to:
 Community Development
 419 N Broadway
 785-263-2355
kolson@abilencityhall.com

Project Site Address: 619 N. Rogers

Property Owner: Central KS Free Fair

Property Owner Phone/E-mail: 785-263-4570 office@ckff.net

General Contractor/Engineer: Wildcat Services, Inc. / Kaw Valley Engineering

General Contract Phone/E-mail: 785-922-6466 office@wildcatservicesinc.net

Class of Work: New Addition Alteration/Remodel Repair Other _____

Describe Work: New 42' x 202' x 16' steel building. Open sides for fair/livestock use.

Value of Work: \$ 148,000

Site Plan attached: YES NO

Builder Declaration (List Contractors): N/A
 (Must be licensed in the City of Abilene)

Electrical: _____

Plumbing: _____

Mechanical: _____

Roofing: _____

Measurements, as applicable to the project:

Living Area: _____ Garage Sq. Ft.: _____

Addition Sq. Ft.: _____ Total Sq. Ft.: 7737

Stories/Height: _____ Land Area: _____

Coverage %: _____ Occupant Load: _____

Occupant Class: _____ Use of Building: _____

ICC Building Type: _____

I certify that I have read this application and state that the above information is correct, and that I as owner or builder, do agree to comply with all city adopted building codes, relating to building construction. I acknowledge the city is not responsible for covenants, easements, or right-of-way related to the property listed above.

Name Printed: Valerie Boss Date: 3/28/24

Signature: Valerie Boss

- Builder/Contractor
- Agent for Contractor
- Owner
- Agent for Owner

Work Sheet
(to be completed by staff)

Building

- Base Fee \$25
- Each Additional \$1,000 x \$3.50 = \$ 514.50
- Additional Inspections \$25

Electrical

- Base Fee \$25

Mechanical

- Base Fee \$25

Plumbing

- Base Fee \$25
- Sewer \$10
- Septic \$20

Roofing

- Base Fee \$25

Permit Fee: \$ 539.50

Building Inspection Department
(for office use only)

Zoning District: _____ Historic District: _____

Flood Zone: _____ Corp of Engineer: _____

Setbacks:

Front Yard _____ Side Yard _____

Rear Yard _____

Special Conditions:

Approved for Issuance by:

Signature: _____

Date: _____



GENERAL NOTES

- THE SEAL THAT APPEARS ON THESE DRAWINGS IS THE SEAL OF THE ENGINEER FOR THIS BUILDING MANUFACTURER WHO IS NOT THE ENGINEER OF RECORD.
- CERTIFICATION RESTRICTION:**
ENGINEER'S CERTIFICATION IS STRICTLY LIMITED TO THE DESIGN OF STRUCTURAL COMPONENTS DESIGNED AND MANUFACTURED BY THIS BUILDING MANUFACTURER. CERTIFICATION EXTENDS ONLY TO THE DESIGN LOADS AND STANDARDS INDICATED ON THESE PLANS. CERTIFICATION DOES NOT EXTEND TO FOUNDATION, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, CIVIL WORK, ARCHITECTURAL RESPONSIBILITIES, OVERALL PROJECT COORDINATION, OR OTHER ASPECTS OF CODE COMPLIANCE NOT SPECIFICALLY REFERENCED BY THE MANUFACTURER'S ORDER DOCUMENTS. CERTIFICATION SHALL NOT EXTEND TO BUILDING ERECTION SUPERVISION OR INSPECTION.
- ANCHOR RODS ARE ASSUMED TO CONFORM TO ASTM STANDARD F1554 GRADE 36, THE PREFERRED MATERIAL PER AISC SPECIFICATIONS. ANCHOR ROD DIAMETERS ARE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS. LENGTHS, EMBEDMENTS, HEAD STYLES, METHODS OF TRANSFERRING FORCES FROM THE ANCHOR RODS TO THE FOUNDATION, AND/OR OTHER ASSOCIATED ITEMS OF THE FOUNDATION ARE NOT BY BEHLEN BUILDING SYSTEMS.
- FOUNDATIONS MUST BE DESIGNED FOR LOCAL SOIL CONDITIONS BY A QUALIFIED FOUNDATION ENGINEER TO SAFELY SUPPORT COLUMN LOADS.
- THIS BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DAMAGES INCURRED IN THE ERECTION OF BUILDING COMPONENTS NOR FOR THE INSPECTION OF ERECTED COMPONENTS TO ASCERTAIN SAME.
- TEMPORARY BRACING MUST BE INSTALLED BY ERECTOR TO PROVIDE ADEQUATE STABILITY DURING ERECTION. BRACING INDICATED ON THE ERECTION DRAWINGS IS CRITICAL TO THE STABILITY OF THE COMPLETED STRUCTURE AND SHALL NOT BE REMOVED.
- WALL & LINER PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. UNAUTHORIZED REMOVAL OF PANELS IS PROHIBITED.
- FOR ALL BUILDINGS EXCEPT THOSE SITED IN CANADA, ALL FIELD WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1 OR D1.3 AS APPLICABLE BY AWS CERTIFIED WELDERS QUALIFIED TO PERFORM THE WELDING AS DIRECTED BY THE APPLICABLE WELDING PROCEDURE SPECIFICATION (WPS); FOR BUILDINGS SITED IN CANADA, ALL FIELD WELDING SHALL BE DONE IN ACCORDANCE WITH CSA (CANADIAN STANDARDS ASSOCIATION) WELD STANDARDS BY CWB (CANADIAN WELDING BUREAU) CERTIFIED WELDERS QUALIFIED TO PERFORM THE WELDING AS DIRECTED BY THE APPLICABLE WELDING PROCEDURE SPECIFICATION (WPS). A WPS SHALL BE PREPARED BY THE CONTRACTOR FOR EACH WELDING VARIATION SPECIFIED. UNLESS OTHERWISE APPROVED, USE E7018 ELECTRODES. THE CONTRACTOR SHALL PROVIDE FOR ANY SPECIAL WELDING INSPECTION AS REQUIRED BY CODE.
- ERECTION OF THIS METAL BUILDING SYSTEM SHALL COMPLY, AT A MINIMUM, WITH THE APPLICABLE ERECTION TOLERANCES STIPULATED IN SECTION 7 OF AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, SECTION 29 OF CSA S16 DESIGN OF STEEL STRUCTURES, AND SECTION 6 OF MBMA COMMON INDUSTRY PRACTICES.
- BEHLEN BUILDING SYSTEMS IS QUALITY ACCREDITED OR CERTIFIED AS FOLLOWS: INTERNATIONAL ACCREDITATION SERVICES (IAS) AC-472 INSPECTION PROGRAM FOR THE MANUFACTURE OF METAL BUILDING SYSTEMS CERTIFICATE NUMBER MB-102; CAN/CSA A660-10 CERTIFICATION OF MANUFACTURERS OF STEEL BUILDING SYSTEMS CERTIFIED BY QUASAR, CERTIFICATE NUMBER BEHMO.
- FOR ALL BUILDINGS EXCEPT THOSE SITED IN CANADA, ALL WELDING PERFORMED BY BEHLEN HAS BEEN DONE IN ACCORDANCE WITH AWS WELD PROCEDURES BY AWS CERTIFIED WELDERS OR WITH CSA WELD PROCEDURES BY CWB CERTIFIED WELDERS. FOR ALL BUILDINGS SITED IN CANADA, ALL WELDING PERFORMED BY BEHLEN HAS BEEN DONE IN ACCORDANCE WITH CSA WELD PROCEDURES BY CWB CERTIFIED WELDERS.
- THE PREFERRED ATTACHMENT DETAIL FOR A PURLIN HANGER IS AN ATTACHMENT TO THE BACK OF THE WEB OF THE PURLIN. PROVIDING THIS METHOD OF ATTACHMENT WILL ENABLE COMPLIANCE WITH THE HANGING LOAD REQUIREMENTS OF NECA 13.8.2.1.3.1. C-CLAMPS SHALL NEVER BE DIRECTLY ATTACHED TO THE LIP OF THE PURLIN FLANGE AND MUST NEVER CAUSE DEFORMATION OF ANY PART OF THE PROFILE OF THE PURLIN.



BEHLEN BUILDING SYSTEMS
DIVISION OF BEHLEN MFG. CO.
P.O. BOX 569
4025 EAST 23RD STREET
COLUMBUS, NEBRASKA USA 68602-0569
E-MAIL: behlen@behlenmfg.com
PHONE: 402-564-3111
ENG. FAX: 402-563-7286
www.behlenbuildingsystems.com

BUILDING INFORMATION

JOB NUMBER: X4313
 NAME: CENTRAL KS FREE FAIR
 ADDRESS: 619 N. ROGERS ST.
 CITY, STATE: ABILENE, KANSAS 67410
 BUILDER: WILDCAT SERVICES, INC.



FAIRGROUNDS
 ABILENE, KANSAS 67410
 JOB NO. X4313

PANEL, TRIM AND FRAMING INFORMATION

ROOF PANELS

TYPE: ADP1 GAUGE: 26 COLOR: GALVALUME
 UL90 CERTIFICATION: NO

TRIM

RAKE:	GAUGE: 26	COLOR: POLAR WHITE
EAVE:	GAUGE: 26	COLOR: POLAR WHITE
GUTTER HIGH CAPACITY:	GAUGE: 26	COLOR: POLAR WHITE
DOWNSPOUT: (QTY) 18	GAUGE: 26	COLOR: POLAR WHITE
COPE FLASHING:	GAUGE: 26	COLOR: ASH GRAY
BASE SEAL:	GAUGE: 26	COLOR: POLAR WHITE
CORNER:	GAUGE: 26	COLOR: POLAR WHITE

MATERIAL PROPERTIES

- | | |
|-------------------------------------|---|
| 1. STRUCTURAL WELDED SECTIONS | ASTM A572, A529 OR A1011, GR. 55 |
| 2. HOLLOW STRUCTURAL SECTIONS (HSS) | ASTM A500, GR. B |
| 3. STEEL PIPE | ASTM A501 OR A53, GR. B. Fy=36 KSI |
| 4. HOT ROLLED SECTIONS | ASTM A572, A529 OR A992, GR. 50 |
| 5. HOT ROLLED ANGLE | ASTM A36, Fy=36 KSI OR A572, GR. 50 |
| 6. HOT ROLLED ROD | ASTM A572, Fy=50 KSI OR Fy=60 KSI |
| 7. CABLE BRACING | ASTM A475, EXTRA HIGH STRENGTH |
| 8. COLD FORMED ROLLED SECTIONS | ASTM A1011 SS GR. 55 OR HSLAS GR. 55 CLASS 1, ASTM A653 SS GR. 55 OR HSLAS GR. 55 CLASS 1 (G40 GALV.), OR ASTM A653 SS GR. 50 CLASS 1 (G90 GALV.) |
| 9. ROOF AND WALL SHEETING | ASTM A792, GR. 50 OR GR. 80 |
| 10. HIGH-STRENGTH BOLTS | ASTM A325, ASTM A325T |
| 11. SECONDARY MEMBER CONNECTIONS | ASTM A307, ASTM A325, ASTM A325T |
| 12. WASHERS | ASTM F436 |

WALL PANELS

TYPE: ADP1 GAUGE: 26 COLOR: ASH GRAY

PRIMARY FRAMING

MAIN FRAMES: DARK GRAY PRIMER
 ENDWALL FRAMES: DARK GRAY PRIMER / GALVANIZED
 WIND COLUMNS & BENTS: DARK GRAY PRIMER

NOTE: SINGLE CEE & DOUBLE CEE ENDWALL COLUMNS ARE GALVANIZED

SECONDARY FRAMING

GIRTS, EAVE STRUTS, PURLINS: GALVANIZED
 DOOR/FRAMED OPNG. CLIPS: GALVANIZED
 CLIPS: DARK GRAY PRIMER

IMPORTANT TRIM & PANEL INFORMATION

WHEN HANDLING LONG TRIM, CARE SHOULD BE TAKEN TO AVOID DAMAGE CAUSED BY BUCKLING.
 ALL TRIM COMPONENTS HAVE A PROTECTIVE FILM ON THE COLORED SURFACE THAT MUST BE REMOVED PRIOR TO INSTALLATION. PROLONGED EXPOSURE TO RAIN AND/OR SUNLIGHT WILL ADVERSELY EFFECT THE PROTECTIVE FILM MAKING REMOVAL DIFFICULT. THIS BUILDING MANUFACTURER WILL ACCEPT NO RESPONSIBILITY FOR TRIM WHOSE PROTECTIVE FILM HAS BEEN EXPOSED FOR MORE THAN 3 WEEKS.

TRIM/PANELS ARE MADE OF THIN GAUGE METAL AND HAVE LARGE FLAT SURFACES WHICH CAN CAUSE THE TRIM/PANEL TO HAVE A WAVINESS ACROSS THE FLAT AREAS. THIS NATURALLY OCCURRING CONDITION IS OFTEN REFERRED TO AS OIL CANNING AND IS NOT A CAUSE FOR REJECTION.

SHOP PRIMED STEEL:

BEHLEN IS NOT RESPONSIBLE FOR REPAIRS OF DAMAGED PRIMED SURFACES OR REMOVAL OF FOREIGN MATERIAL DUE TO IMPROPER STORAGE OR SITE CONDITIONS. BEHLEN IS NOT RESPONSIBLE FOR DETERIORATION OF THE SHOP COAT PRIMER OR CORROSION DUE TO ATMOSPHERIC OR ENVIRONMENTAL CONDITIONS, NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING. BEHLEN WILL NOT BE RESPONSIBLE FOR CORROSION OR DAMAGE TO A PRIME PAINTED STRUCTURAL STEEL MEMBER THAT IS A DIRECT RESULT OF IMPROPER HANDLING, IMPROPER STORAGE, OR DUE TO SITE OR ATMOSPHERIC CONDITIONS. BEHLEN ADVISES THAT PRIMARY STRUCTURAL MEMBERS BE INSPECTED UPON RECEIPT AND IMMEDIATELY NOTIFY BEHLEN IF ANY MEMBERS APPEAR TO HAVE A PRIMER DEFICIENCY SO THAT BEHLEN MAY IMMEDIATELY INVESTIGATE AND ADDRESS AS NEEDED.

BEHLEN STRUCTURAL MEMBERS THAT ARE NOT ALREADY FABRICATED OF CORROSION RESISTANT MATERIAL OR PROTECTED BY A CORROSION RESISTANT COATING ARE PAINTED WITH ONE COAT OF SHOP PRIMER IN ACCORDANCE WITH SSPC-15 (STRUCTURAL STEEL PAINTING COUNCIL). MEMBERS ARE CLEANED IN ACCORDANCE WITH SSPC-SP1 AND SSPC-SP2 PRIOR TO APPLICATION WITH A MINIMUM OF 1.0 MILS DRY THICKNESS. THE SHOP COAT PRIMER IS INTENDED TO PROVIDE TEMPORARY PROTECTION TO THE COATED MATERIAL DURING DELIVERY AND FOR SHORT PERIODS OF EXPOSURE TO ORDINARY ATMOSPHERIC CONDITIONS. THE PRIMER IS NOT INTENDED TO PERFORM AS NOR BE AN EQUIVALENT SUBSTITUTE FOR, A FINISH COAT SYSTEM NOR AS A BASE FOR A FINISH COAT SYSTEM. CARE SHOULD BE TAKEN IN PLANNING A PROJECT SCHEDULE AND JOB SITE STORAGE TO LIMIT LONG-TERM EXPOSURE TO THE ELEMENTS. PRIMED STEEL WHICH IS STORED IN THE FIELD PENDING ERECTION SHOULD BE KEPT FREE OF THE GROUND, AND POSITIONED TO MINIMIZE WATER-HOLDING POCKETS, MUD, OR OTHER CONTAMINANTS. CORROSION MAY RESULT FROM LONG TERM EXPOSURE TO ATMOSPHERIC OR SITE CONDITIONS. ABRASIONS TO THE SHOP COAT CAUSED BY HANDLING, SHIPPING, UNLOADING, AND ERECTING ARE UNAVOIDABLE. IF THE STEEL SUBSTRATE IS EXPOSED, IT WILL RUST IN THE PRESENCE OF MOISTURE. AS LONG AS THE EXPOSURE IS NOT CONTINUOUS, THE STRUCTURAL INTEGRITY OF THE MEMBER IS NOT COMPROMISED. BEHLEN CAN SUPPLY ADDITIONAL PRIMER UPON REQUEST AT AN ADDITIONAL COST. THE PRIMER COAT IS NOT A FINISH COAT AND POST APPLICATION OF SUPPLEMENTAL PRIMER MAY YIELD CONTRASTING COLOR VARIATIONS DEPENDENT ON APPLICATION METHOD, THICKNESS, OR LOCATION.

INSULATION

	NONE	BY OTHERS	BY BEHLEN	THICKNESS OVER ZEE	VAPOR BARRIER FLANGE BR.	RIGID CLIP BOARD
ROOF:	█	█	█	█	█	█
WALL:	█	█	█	█	█	█
THERMAL BLOCKS:	█	█	█	█	█	█

A1 = ADP1 PANEL A2 = ADP2 PANEL

BUILDING DESIGN CRITERIA

DESIGN LOADS ARE APPLIED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE BUILDING CODE LISTED BELOW.

BUILDING CODE	: IBC 15
RISK CATEGORY	: II - Normal
GRAVITY LOAD DATA	
ROOF LIVE LOAD (psf,*)	: 20.0
MIN. ROOF SNOW LOAD (psf)	: 16.8
Pg (psf)	: 20.0
Pf (psf)	: 16.8
SNOW IMPORTANCE FACTOR	: 1.00
Ce	: 1.00
Ct	: 1.20
COLLATERAL LOAD (psf)	: 0.0
RAIN ON SNOW (psf)	: 0.00
SNOW DRIFT (psf), WIDTH (ft.)	: N/A
WIND LOAD DATA	
WIND SPEED, V-ult (mph)	: 115
WIND SPEED, V-asd (mph)	: 89.08
WIND EXPOSURE	: C
WIND IMPORTANCE FACTOR	: 1.00
Gcpi=	: ±0.55
DESIGN WIND PRESSURE (p,psf)	: SEE WIND PRES. DIAGRAM(S)

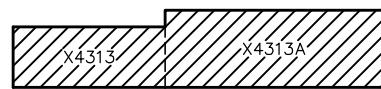
EARTHQUAKE LOAD DATA

SITE CLASS	: D
Ss (%g)	: 11.3 Sds: 0.120
S1 (%g)	: 5.1 Sd1: 0.082
SEISMIC DESIGN CATEGORY	: B
SEISMIC IMPORTANCE FACTOR	: 1.00
R	: 3.00
Cs	: I x Sds / R
BASIC STRUCTURAL SYSTEM	: NDFS
ANALYSIS PROCEDURE	: Equivalent Lateral Force
BASE SHEAR (Trans, kips)(X4313)	: 0.52
BASE SHEAR (Long, kips)(X4313)	: 0.65
BASE SHEAR (Trans, kips)(X4313A)	: 1.50
BASE SHEAR (Long, kips)(X4313A)	: 1.11

LIVE LOAD DATA

FLOOR LIVE LOAD (psf)	: N/A
CRANE LIVE LOAD (Tons)	: N/A

*Reducible



KEY PLAN

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SCALE	: NONE
DRAWN BY	: C.W.QUAIL
CHECKED BY	: CHARLIE
APPROVED BY	: GLH
REVIEWED BY	: DATE

DATE	01-23-24
DATE	1-24-2024
DATE	1/24/24
DATE	

CENTRAL KS FREE FAIR ABILENE, KANSAS	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
GENERAL INFORMATION	JOB NO. X4313 SHT. 1 OF 16

3/27/2024, 12:43:48 PM
 This document has been electronically sealed and digitally signed by Stephen Joseph Reiners, P.E., using my digital signature. Printed copies are not considered signed and sealed. The signature must be verified on any electronic document.

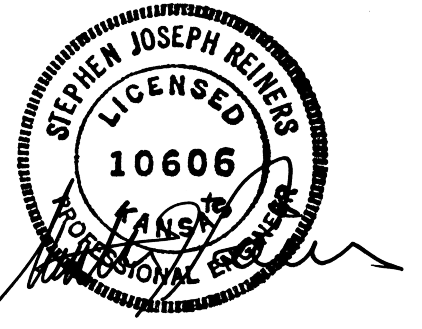
TO ENSURE PROPER ERECTION OF THIS BUILDING THE FOLLOWING ERECTION GUIDE(S) ARE REQ'D.

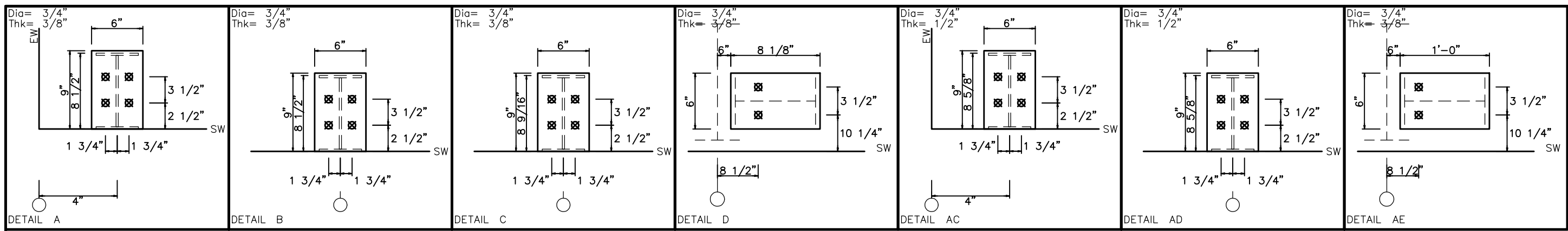
BEHLEN WALL PANEL: ADP1
 BEHLEN ROOF PANEL: ADP1
 BEHLEN LINER PANEL:

IF THIS SET OF DRAWINGS WERE SENT VIA E-MAIL, THEY ARE COPIES OF THE ORIGINALS THAT ARE PRINTED AND ON FILE AT THE HOME OFFICE OF BEHLEN MFG. CO. COLUMBUS, NE THE ORIGINALS WITH THE ENGINEERS SEAL ARE CONSIDERED THE LEGAL DOCUMENTS.

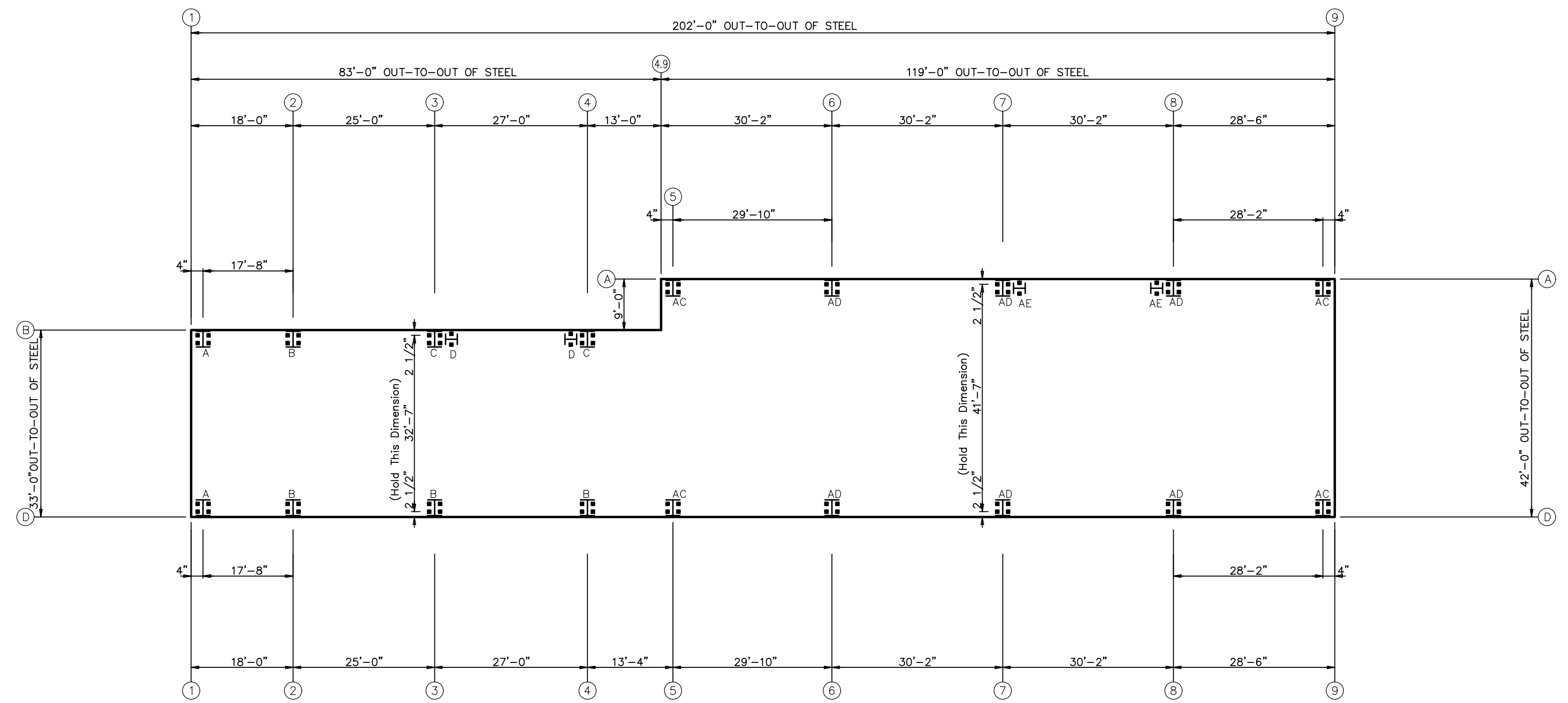
DRAWING SUBMITTAL STATUS

- FOR CONSTRUCTION
- FOR APPROVALS
- FOR PERMIT ONLY
- FOR PRELIMINARY USE ONLY
- NOT FOR CONSTRUCTION
- FOR REVIEW ONLY

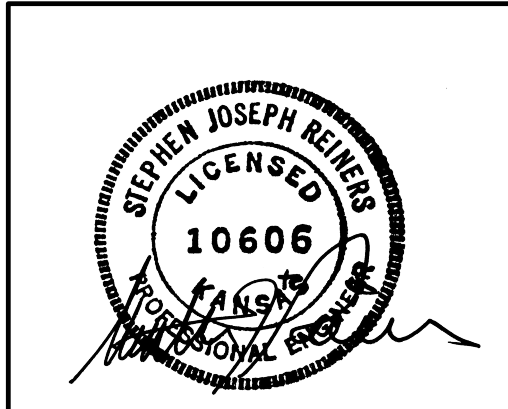
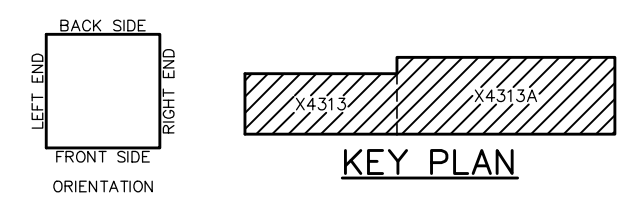




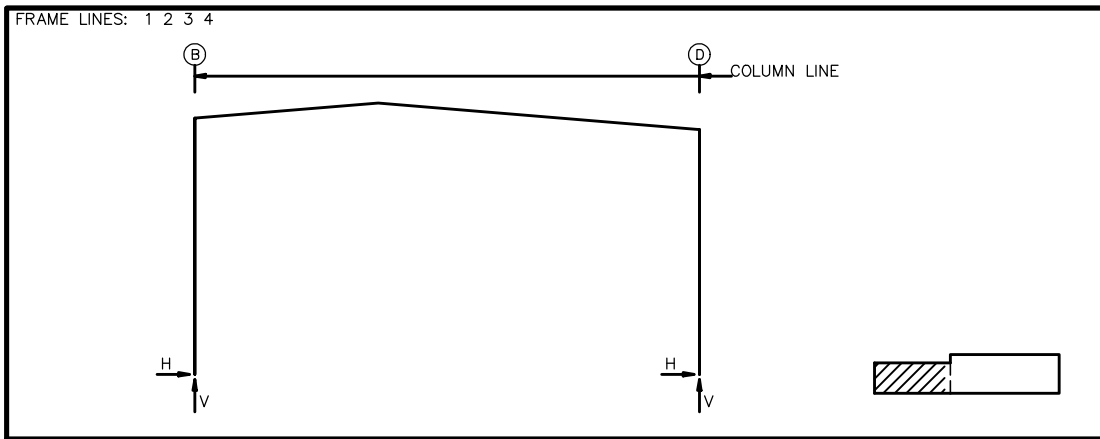
ANCHOR BOLT SUMMARY				
Qty	Locate	Dia (in)	Type	Proj (in)
72	Frame	3/4"	F1554	2.50
8	WindCol	3/4"	F1554	2.50



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)



SCALE : NONE												CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA				
DRAWN BY C.W.QUAIL DATE 01-23-24												JOB NO. X4313		SHT. 2 OF 16				
CHECKED BY CHARLIE DATE 1-24-2024																		
APPROVED BY GLH DATE 1/24/24																		
FOR CONSTRUCTION	C.W.Q.	1-23-2024	CHARLIE	1-24-2024	GLH	1/24/24												
REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k)			V
			Hmax	V	Hmin	
1*	B	3	1.2	1.0	7	-1.8
1*	D	8	1.1	3.9	5	-1.4
1*	D	1	-1.1	3.8	6	1.5

1* Frame lines: 1 2

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k)			V
			Hmax	V	Hmin	
3*	B	1	3.1	10.1	7	-3.5
3*	D	8	3.8	-0.7	4	-2.5
3*	D	1	-3.1	10.1	6	-3.3

3* Frame lines: 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1*	B	0.2	0.8	0.8	2.7	0.8	2.5	-2.6	-6.3	0.8	-4.1	-3.2	-2.1
1*	D	-0.2	0.8	-0.8	2.7	-0.8	2.5	-1.3	-3.4	2.7	-6.7	-0.7	0.8

Frame Line	Column Line	Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right		MIN_SNOW	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1*	B	0.3	0.1	0.4	-5.2	-0.1	-5.0	0.0	0.0	0.0	0.0	0.9	3.0
1*	D	3.3	-2.5	-0.2	-4.4	-0.2	-5.7	0.0	0.0	0.0	0.0	-0.9	3.0

Frame Line	Column Line	F1UNB_SL_L		F1UNB_SL_R	
		Horiz	Vert	Horiz	Vert
1*	B	0.5	2.4	0.8	1.8
1*	D	-0.5	1.1	-0.8	2.6

Frame Line	Column Line	Dead		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
3*	B	0.4	1.5	1.6	5.2	2.3	7.2	-4.6	-13.8	2.1	-9.6	-6.3	-2.0
3*	D	-0.4	1.5	-1.6	5.1	-2.3	7.2	-2.7	-8.4	4.8	-14.5	-1.1	3.4

Frame Line	Column Line	Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right		Seismic_Long	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
3*	B	0.3	2.2	0.7	-12.6	1.7	-10.6	-0.1	-0.1	0.1	0.1	-0.1	-0.1
3*	D	6.7	-2.7	-2.2	-9.6	-0.3	-13.5	-0.1	0.1	0.1	-0.1	-0.1	0.1

Frame Line	Column Line	MIN_SNOW		F2UNB_SL_L		F2UNB_SL_R	
		Horiz	Vert	Horiz	Vert	Horiz	Vert
3*	B	2.7	8.6	1.4	6.7	2.2	5.0
3*	D	-2.7	8.5	-1.4	3.1	-2.2	7.5

1* Frame lines: 1 2
3* Frame lines: 3 4

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k)	Panel_Shear (lb/ft)	Note
L_EW	1			(h)
F_SW	D			Torsional Bracing Used
R_EW	5			(h)
B_SW	B	3.4		(a)

(g) Wind bent in bay
(h) Rigid frame at endwall

REACTION VALUES SHOWN ARE UNFACTORED.
MAXIMUM LOAD COMBINATION FACTORS ARE:
WIND : 0.60
SEISMIC : 0.70

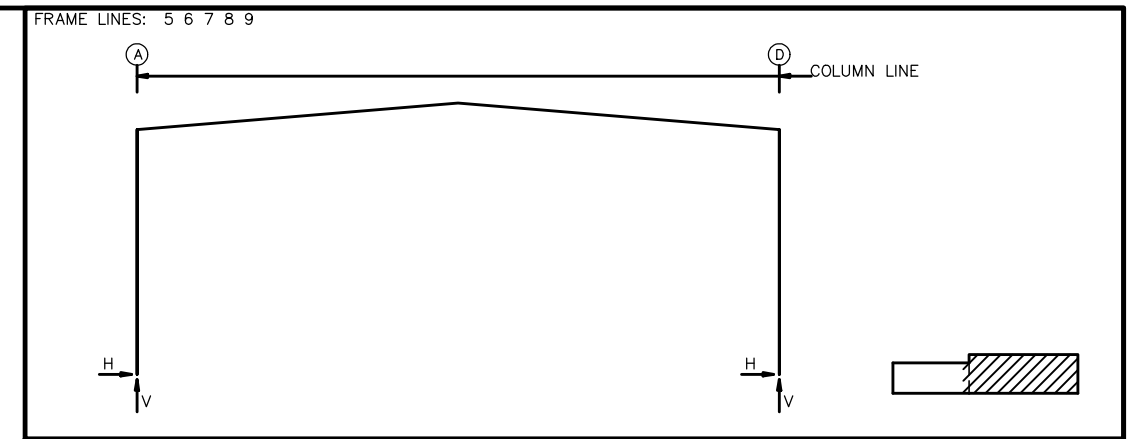
LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+MIN_SNOW
2	Dead+Collateral+0.75Live+0.45Wind_Left1
3	Dead+Collateral+0.75Live+0.45Wind_Right1
4	Dead+Collateral+0.75Snow+0.45Wind_Left1
5	0.6Dead+0.6Wind_Left1
6	0.6Dead+0.6Wind_Right1
7	0.6Dead+0.6Wind_Left2
8	0.6Dead+0.6Wind_Right2

WIND BENT REACTIONS

Wall Loc	Col Line	Wind(k)	± Reactions		Bolt Qty	Dia	Base_Plate(in)	Thick
			Horz	Vert				
B_SW	B	4	2.7	3.2	0.3	0.4	2	0.375
B_SW	B	3	2.7	3.2	0.3	0.4	2	0.375

REACTION VALUES SHOWN ARE UNFACTORED.
MAXIMUM LOAD COMBINATION FACTORS ARE:
WIND : 0.60
SEISMIC : 0.70



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k)			V
			Hmax	V	Hmin	
5*	A	1	6.9	14.9	2	-4.9
5*	D	3	4.9	-10.5	1	-6.9
5*	D	1	-6.9	14.9	3	4.9

5* Frame lines: 5 6 7 8

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Column_Reactions(k)			V
			Hmax	V	Hmin	
9	A	1	6.9	14.9	2	-7.4
9	D	3	7.4	-13.9	1	-6.9
9	D	1	-6.9	14.9	3	7.4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
5*	A	0.9	2.2	3.6	7.6	5.0	10.6	-9.1	-19.7	-1.0	-14.2	-7.5	-2.5
5*	D	-0.9	2.2	-3.6	7.6	-5.0	10.6	1.0	-14.2	9.1	-19.7	-0.7	3.1

Frame Line	Column Line	Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right		Seismic_Long	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
5*	A	0.7	3.1	-3.3	-18.8	-1.4	-15.0	-0.1	-0.1	0.1	0.1	-0.2	-0.1
5*	D	7.5	-2.5	1.4	-15.0	3.3	-18.8	-0.1	0.1	-0.1	-0.1	-0.2	0.1

Frame Line	Column Line	MIN_SNOW		F1UNB_SL_L		F1UNB_SL_R	
		Horiz	Vert	Horiz	Vert	Horiz	Vert
5*	A	6.0	12.7	3.9	10.2	3.9	5.8
5*	D	-6.0	12.7	-3.9	5.8	-3.9	10.2

Frame Line	Column Line	Dead		Live		Snow		Wind_Left1		Wind_Right1		Wind_Left2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
9	A	0.9	2.2	3.6	7.6	5.0	10.6	-13.2	-25.4	-1.5	-16.9	-11.3	-8.2
9	D	-0.9	2.2	-3.6	7.6	-5.0	10.6	1.5	-16.9	13.2	-25.4	-0.4	0.4

Frame Line	Column Line	Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right		MIN_SNOW	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
9	A	0.4	0.4	-3.8	-23.0	-4.5	-19.3	-0.1	-0.1	0.1	0.1	-6.0	12.7
9	D	11.3	-8.2	4.5	-19.3	3.8	-23.0	-0.1	0.1	-0.1	-0.1	-6.0	12.7

Frame Line	Column Line	F2UNB_SL_L		F2UNB_SL_R	
		Horiz	Vert	Horiz	Vert
9	A	3.9	10.2	4.0	5.8
9	D	-4.0	5.8	-3.9	10.2

5* Frame lines: 5 6 7 8

LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+MIN_SNOW
2	0.6Dead+0.6Wind_Left1
3	0.6Dead+0.6Wind_Right1
4	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
5	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
6	Dead+Collateral+0.6Wind_Right2+0.6Wind_Suction

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k)	Panel_Shear (lb/ft)	Note
L_EW	5			(h)
F_SW	D			Torsional Bracing Used
R_EW	9			(h)
B_SW	A	7.8		(a)

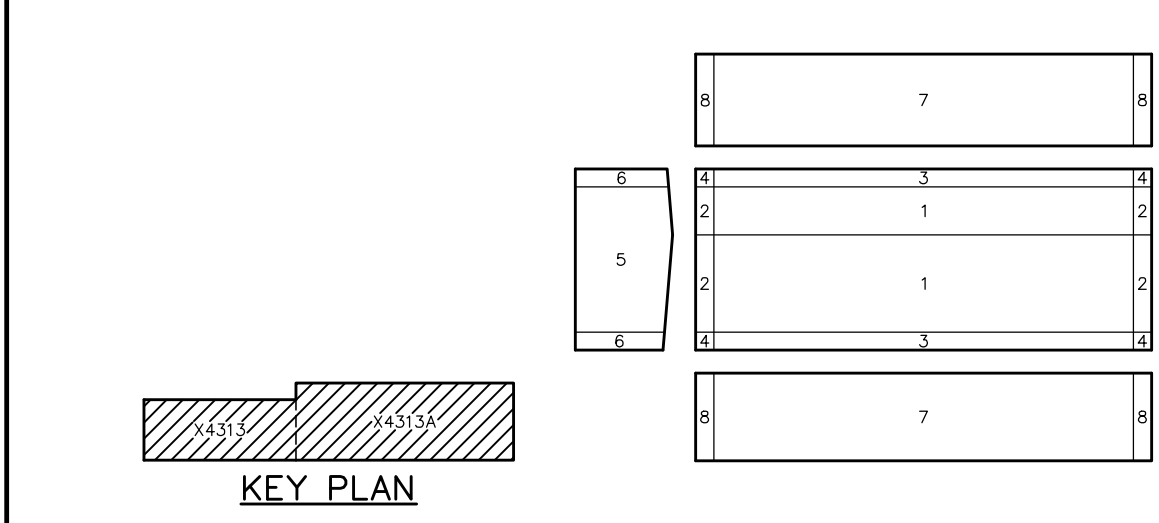
(g) Wind bent in bay
(h) Rigid frame at endwall

REACTION VALUES SHOWN ARE UNFACTORED.
MAXIMUM LOAD COMBINATION FACTORS ARE:
WIND : 0.60
SEISMIC : 0.70

WIND BENT REACTIONS

Wall Loc	Col Line	Wind(k)	± Reactions		Bolt Qty	Dia	Base_Plate(in)	Thick
			Horz	Vert				
B_SW	A	8	3.8	3.9	0.6	0.6	2	0.375
B_SW	A	7	3.8	3.9	0.6	0.6	2	0.375

REACTION VALUES SHOWN ARE UNFACTORED.
MAXIMUM LOAD COMBINATION FACTORS ARE:
WIND : 0.60
SEISMIC : 0.70



DESIGN CALCULATION WIND

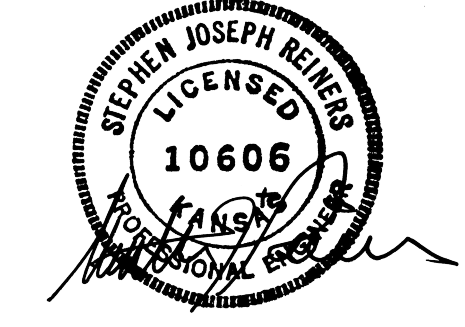
ZONE	WIDTH (FT)	LENGTH (FT)	COMPONENTS & CLADDING UNFACTORED	
			PRESSURE(PSF)	SUCTION(PSF)
1			18.72	-36.20
2	7.80		18.72	-41.27
3	2.60		18.72	-41.27
4	5.20	2.60	18.72	-41.27
5			31.75	-34.00
6	5.20		31.75	-36.38
7			31.80	-34.00
8	5.20		31.80	-36.38
9			0.00	0.00

(+) WIND TOWARDS SURFACE
(-) WIND AWAY FROM SURFACE

DESIGN CALCULATION WIND

ZONE	WIDTH (FT)	LENGTH (FT)	COMPONENTS & CLADDING UNFACTORED	
			PRESSURE(PSF)	SUCTION(PSF)
1			18.56	-35.89
2	4.20		18.56	-40.91
3	4.20		18.56	-40.91
4	4.20	4.20	18.56	-40.91
5			31.48	-36.89
6	4.20		31.48	-36.07
7			31.50	-33.70
8	4.20		31.50	-36.06

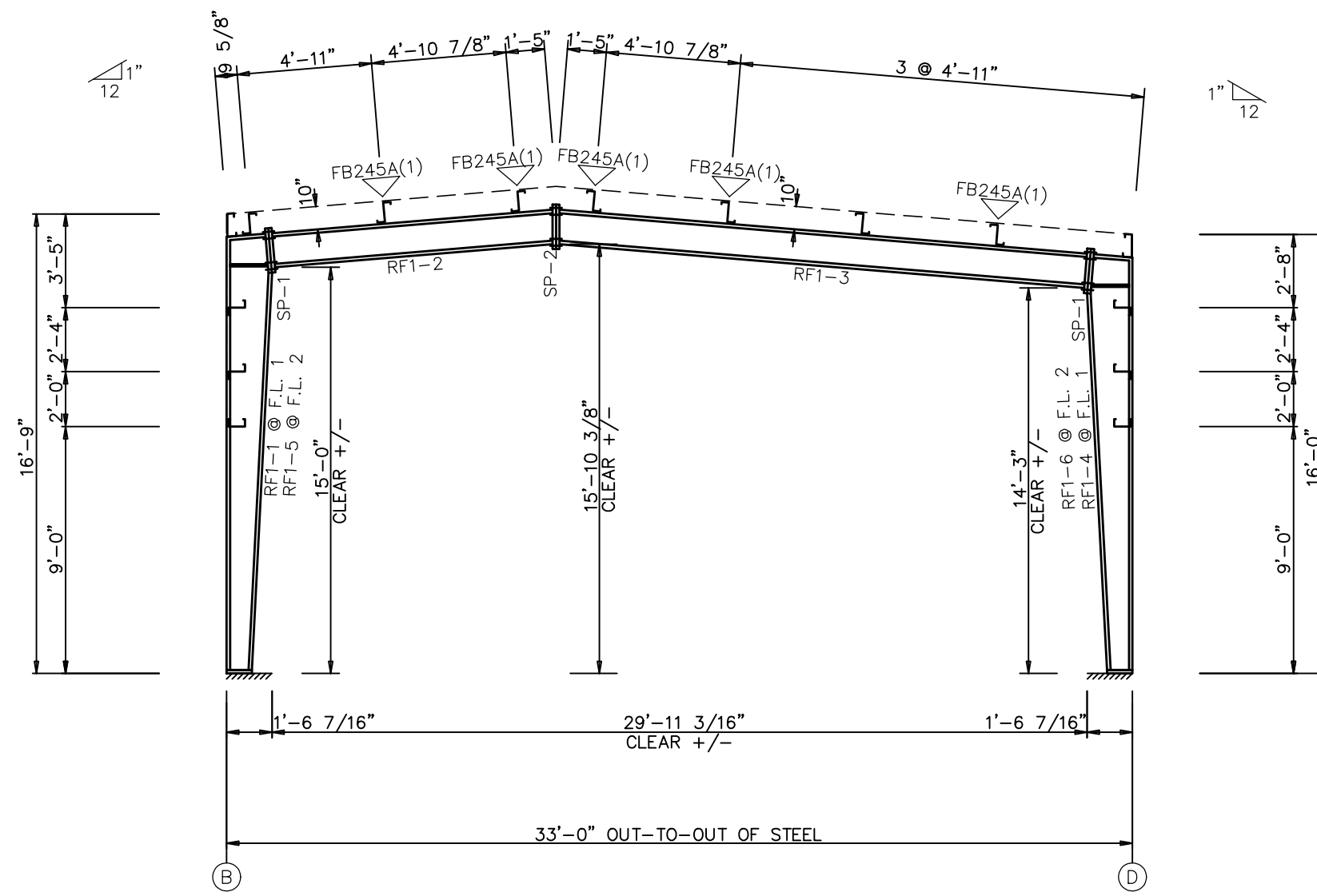
(+) WIND TOWARDS SURFACE
(-) WIND AWAY FROM SURFACE



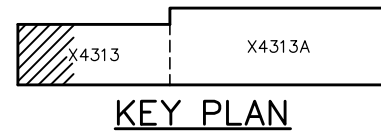
SCALE : NONE												DRAWN BY C.W.QUAIL		DATE 01-23-24		CENTRAL KS FREE FAIR		 BEHLEN MFG. CO. COLUMBUS, NEBRASKA		
FOR CONSTRUCTION												CHECKED BY CHARLIE		DATE 1-24-2024		ABILENE, KANSAS				
REVISIONS												APPROVED BY GLH		DATE 1/24/24		ANCHOR BOLT REACTIONS				
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVIEWED BY	DATE	REVIEWED BY	DATE	REVIEWED BY	DATE	REVIEWED BY	DATE	JOB NO.	X4313	SHT. 3 OF 16

SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	0	A325	0.750	2.50	5"	3/8"	1'-6 3/4"
SP-2	4	4	0	A325	0.750	2.50	5"	3/8"	1'-6 7/8"

FLANGE BRACES: Both Sides(U.N.)
A - L1.5x16G



RIGID FRAME ELEVATION: FRAME LINES 1 & 2



ERECTION NOTES:

1. THE "APPLICABLE WALL PANEL ERECTION GUIDE" IS TO BE USED IN CONJUNCTION WITH THESE DRAWINGS TO DETERMINE COMPLETE ERECTION REQUIREMENTS.
2. ALL FLANGE BRACING MUST BE INSTALLED AT FRAME LINES AS SHOWN.

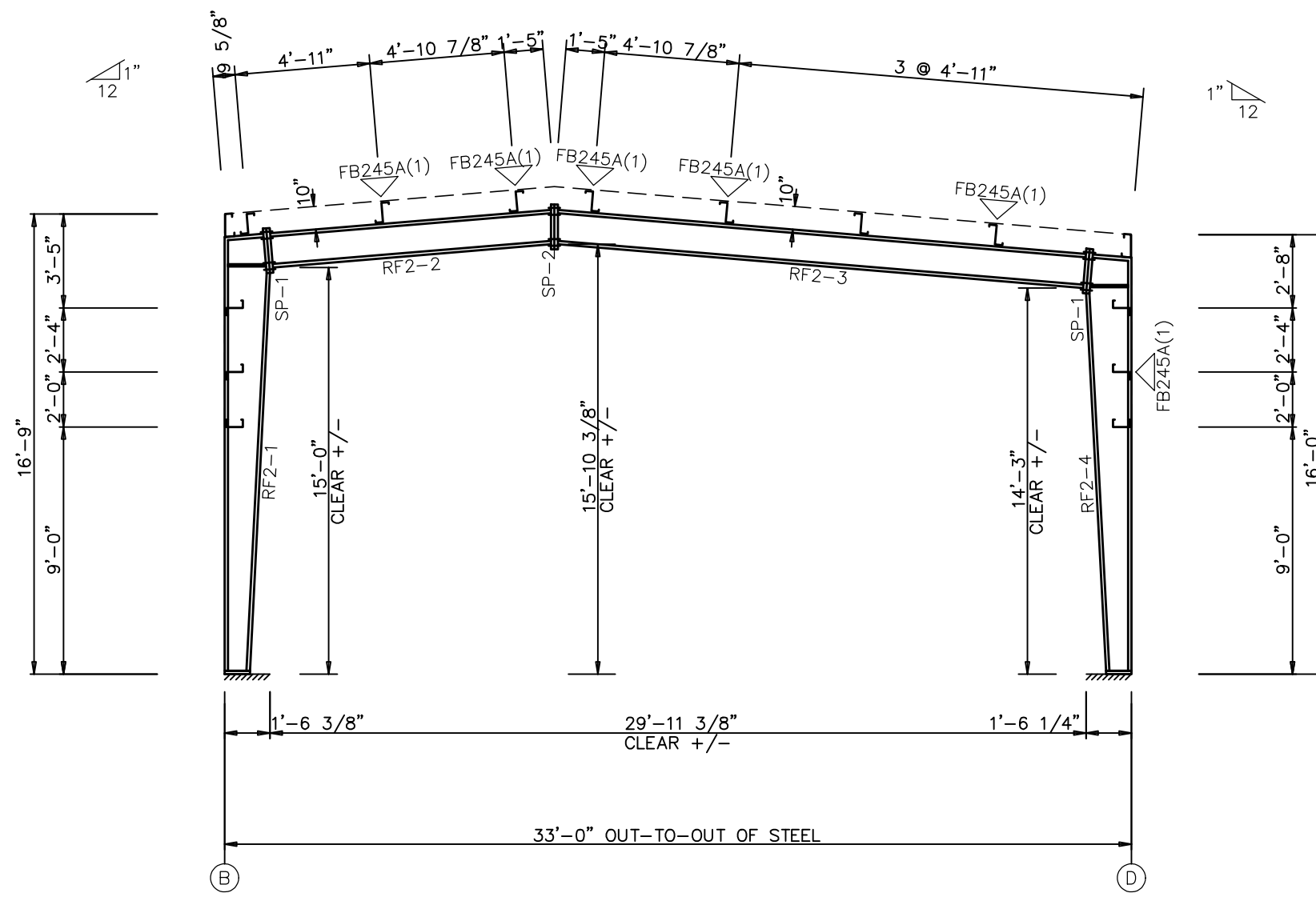
RIGID FRAMES BY THIS MANUFACTURER ARE DESIGNED TO BE FASTENED USING A-325 HIGH STRENGTH BOLTS BY THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 12-31-2009), SECTION 4.1, "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1)



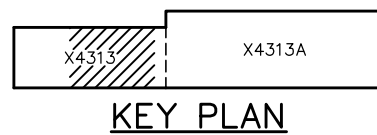
REVISIONS										SCALE : NONE		DRAWN BY C.W.QUAIL DATE 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA		
REVISIONS										CHECKED BY CHARLIE DATE 1-25-2024		APPROVED BY GLH DATE 1/25/24		RIGID FRAME ELEVATION		JOB NO. X4313 SH. 4 OF 16		
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	0	A325	0.750	2.50	5"	1/2"	1'-6 3/4"
SP-2	4	4	0	A325	0.750	2.50	5"	3/8"	1'-6 7/8"

FLANGE BRACES: Both Sides(U.N.)
A - L1.5x16G



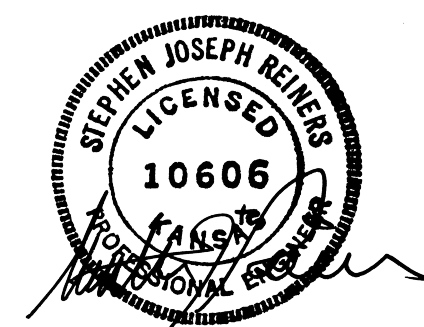
RIGID FRAME ELEVATION: FRAME LINES 3 & 4



ERECTION NOTES:

1. THE "APPLICABLE WALL PANEL ERECTION GUIDE" IS TO BE USED IN CONJUNCTION WITH THESE DRAWINGS TO DETERMINE COMPLETE ERECTION REQUIREMENTS.
2. ALL FLANGE BRACING MUST BE INSTALLED AT FRAME LINES AS SHOWN.

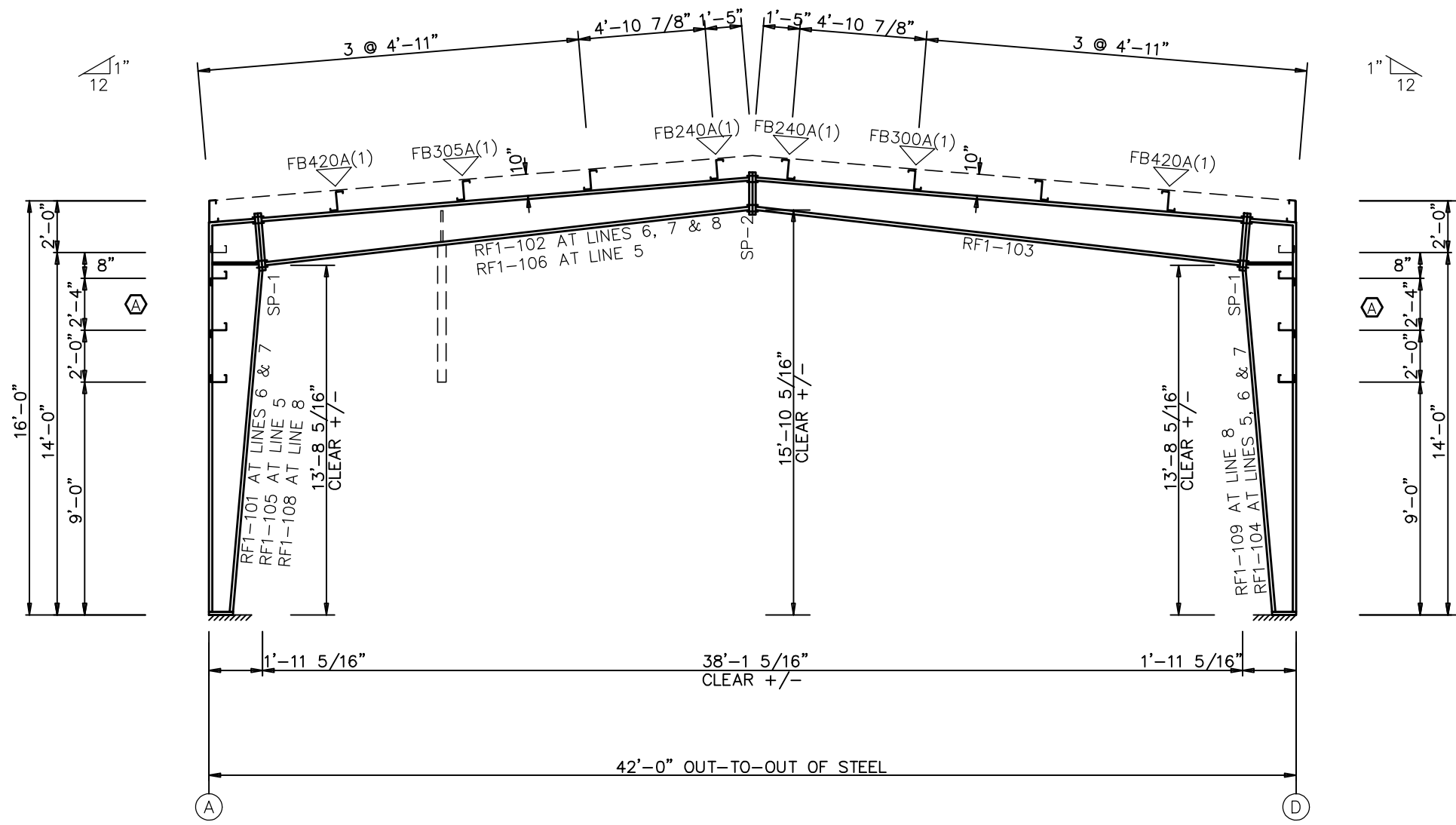
RIGID FRAMES BY THIS MANUFACTURER ARE DESIGNED TO BE FASTENED USING A-325 HIGH STRENGTH BOLTS BY THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 12-31-2009), SECTION 4.1, "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1)



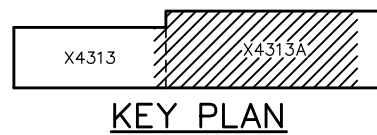
REVISIONS												SCALE : NONE		DRAWN BY C.W.QUAIL DATE 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA	
REVISIONS												CHECKED BY CHARLIE DATE 1-25-2024		APPROVED BY GLH DATE 1/24/24		RIGID FRAME ELEVATION		JOB NO. X4313 SH. 5 OF 16	
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	0	A325	0.750	2.50	6"	1/2"	2'-1 7/8"
SP-2	4	4	0	A325	0.750	2.50	5"	1/2"	1'-6 7/8"

✓ FLANGE BRACES: Both Sides(U.N.)
A - L1.5x16G



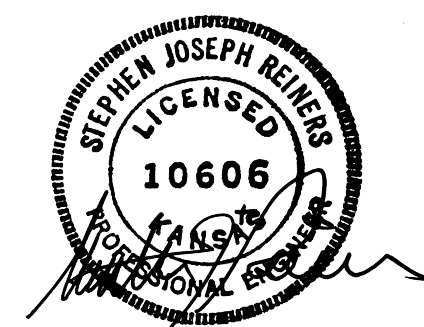
RIGID FRAME ELEVATION: FRAME LINES 5, 6, 7 & 8



ERECTION NOTES:

1. THE "APPLICABLE WALL PANEL ERECTION GUIDE" IS TO BE USED IN CONJUNCTION WITH THESE DRAWINGS TO DETERMINE COMPLETE ERECTION REQUIREMENTS.
2. ALL FLANGE BRACING MUST BE INSTALLED AT FRAME LINES AS SHOWN.

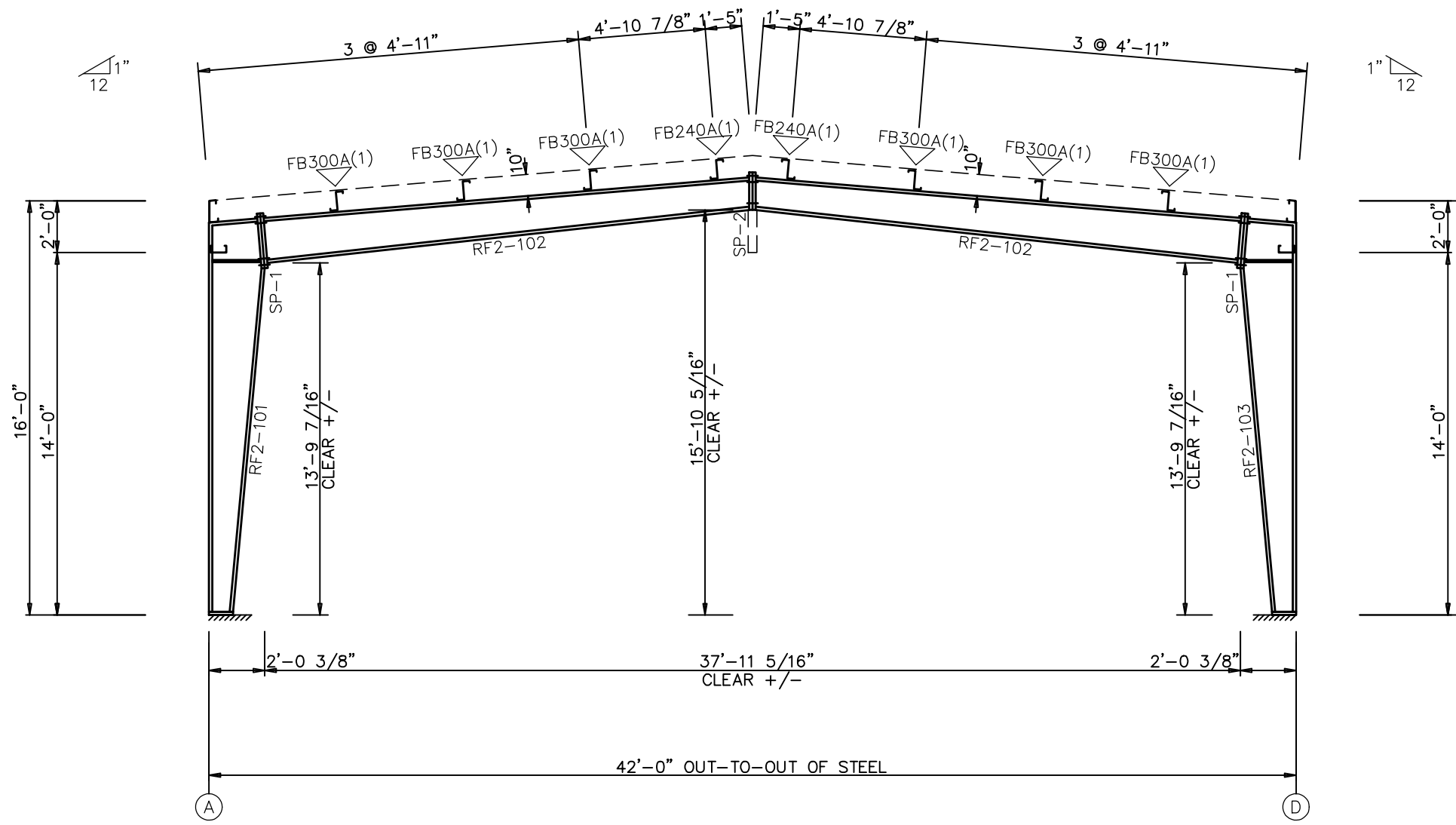
RIGID FRAMES BY THIS MANUFACTURER ARE DESIGNED TO BE FASTENED USING A-325 HIGH STRENGTH BOLTS BY THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 12-31-2009), SECTION 4.1, "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1)



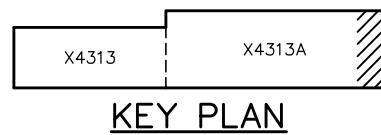
SCALE : NONE												CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA			
DRAWN BY C.W.QUAIL DATE 01-24-24												JOB NO. X4313		SHT. 6 OF 16			
CHECKED BY CHARLIE DATE 1-25-2024												RIGID FRAME ELEVATION					
APPROVED BY GLH DATE 1/25/24																	
REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia		Thick	Length	
	Top	Bot							
SP-1	4	4	0	A325	0.750	2.50	6"	1/2"	2'-0.7/8"
SP-2	4	2	0	A325	1.000	3.00	8"	5/8"	1'-4"

✓ FLANGE BRACES: Both Sides(U.N.)
A - L1.5x16G



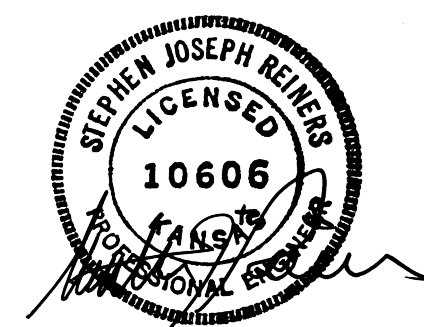
RIGID FRAME ELEVATION: FRAME LINE 9



ERECTION NOTES:

1. THE "APPLICABLE WALL PANEL ERECTION GUIDE" IS TO BE USED IN CONJUNCTION WITH THESE DRAWINGS TO DETERMINE COMPLETE ERECTION REQUIREMENTS.
2. ALL FLANGE BRACING MUST BE INSTALLED AT FRAME LINES AS SHOWN.

RIGID FRAMES BY THIS MANUFACTURER ARE DESIGNED TO BE FASTENED USING A-325 HIGH STRENGTH BOLTS BY THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 12-31-2009), SECTION 4.1, "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1)



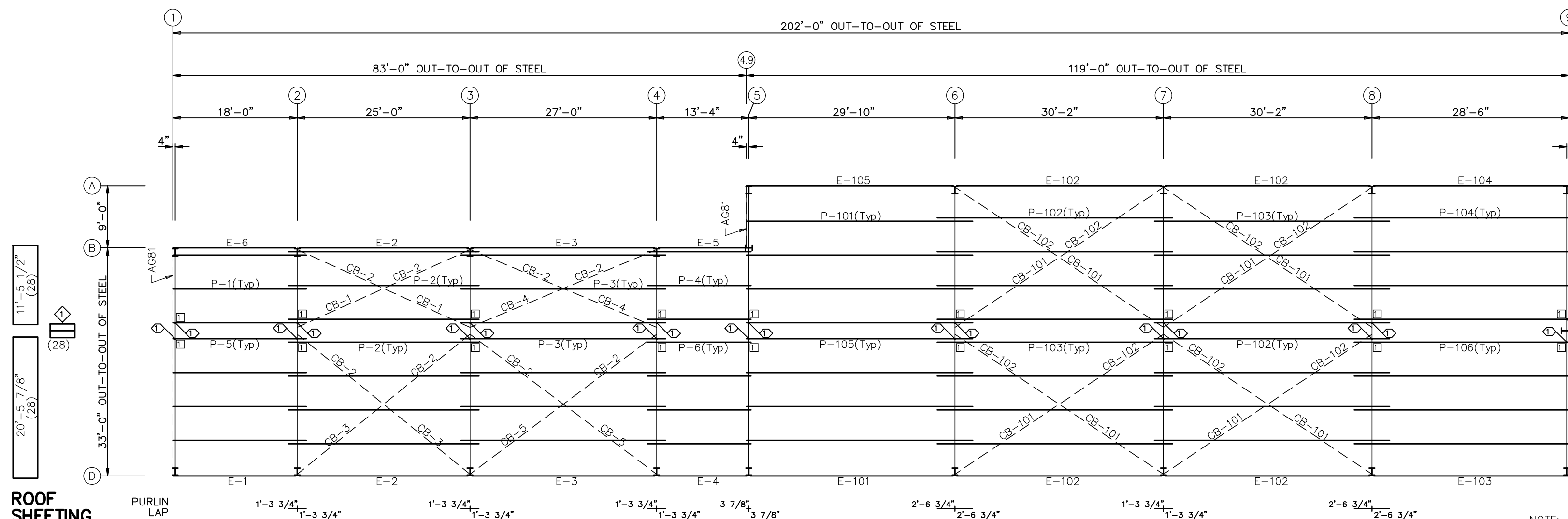
REVISIONS												SCALE : NONE		DRAWN BY C.W.QUAIL DATE 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA	
REVISIONS												CHECKED BY CHARLIE DATE 1-25-2024		APPROVED BY GLH DATE 1/25/24		RIGID FRAME ELEVATION		JOB NO. X4313 SHT. 7 OF 16	
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SPECIAL BOLTS & WASHERS					
ROOF PLAN					
ID	QUAN	TYPE	DIA	LENGTH	W/BT
1	4	A325	1/2"	1 1/2"	0

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	10X35Z14	19'-3 5/8"
P-2	10X35Z14	27'-7 1/2"
P-3	10X35Z14	29'-7 1/2"
P-4	10X35Z14	14'-11 5/8"
P-5	10X35Z14	19'-3 5/8"
P-6	10X35Z14	14'-11 5/8"
P-101	10X35Z12	32'-8 5/8"
P-102	10X35Z14	34'-0 1/2"
P-103	10X35Z14	34'-0 1/2"
P-104	10X35Z14	31'-0 5/8"
P-105	10X35Z12	32'-8 5/8"
P-106	10X35Z14	31'-0 5/8"
E-1	10E14	17'-11 3/4"
E-2	10E14	24'-11 3/4"
E-3	10E14	26'-11 3/4"
E-4	10E14	13'-3 3/4"
E-5	10E14	13'-3 3/4"
E-6	10E14	17'-11 3/4"
E-101	10E14	29'-9 3/4"
E-102	10E14	30'-1 3/4"
E-103	10E14	28'-5 3/4"
E-104	10E14	28'-5 3/4"
E-105	10E14	30'-1 3/4"
CB-1	WR4	8'-1"
CB-2	WR4	20'-0"
CB-3	WR4	12'-10"
CB-4	WR4	9'-11"
CB-5	WR4	14'-5"
CB-101	WR4	17'-0"
CB-102	WR4	20'-0"

CONNECTION PLATES	
ID	MARK/PART
1	MP341

TRIM TABLE	
ID	PART
1	TM101



ROOF SHEETING

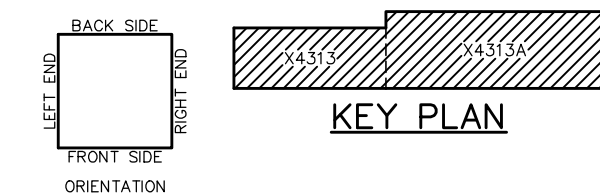
PANELS: 26 Ga. A1 GALVALUME

ROOF SHEETING

PANELS: 26 Ga. A1 GALVALUME

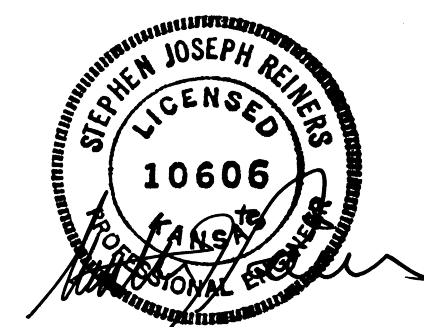
ROOF FRAMING PLAN

NOTE: START SHEETING THIS END



TO FACILITATE THE PROPER ORIENTATION OF THE PURLINS WHEN PLACING THEM ON THE ROOF, LOCATE THE PART NUMBER AND POSITION THIS END TO THE RIGHT AS STANDING ON THE OUTSIDE OF THE BUILDING LOOKING UPSLOPE; NOTE THAT THE TOP FLANGE OF ZEE PURLINS SHOULD FACE UPSLOPE UNLESS NOTED OTHERWISE ON FRAME CROSS SECTIONS DRAWING.

FOR PROPER NESTING OF LAPPED ZEE CONNECTIONS, ONE FLANGE OF THE ZEE MEMBER IS MANUFACTURED 1/4" LARGER THAN THE OTHER. BE CERTAIN TO ORIENTATE ADJACENT ZEE MEMBERS AT A LAPPED CONNECTION SUCH THAT THE LARGER FLANGE IS OVER THE SMALLER FLANGE. ALTERNATE THE LARGE/SMALL FLANGE ORIENTATION EVERY OTHER BAY WHEN LOADING MEMBERS ONTO THE ROOF TO AID IN PROPER NESTING AT FRAME LAP CONNECTIONS.

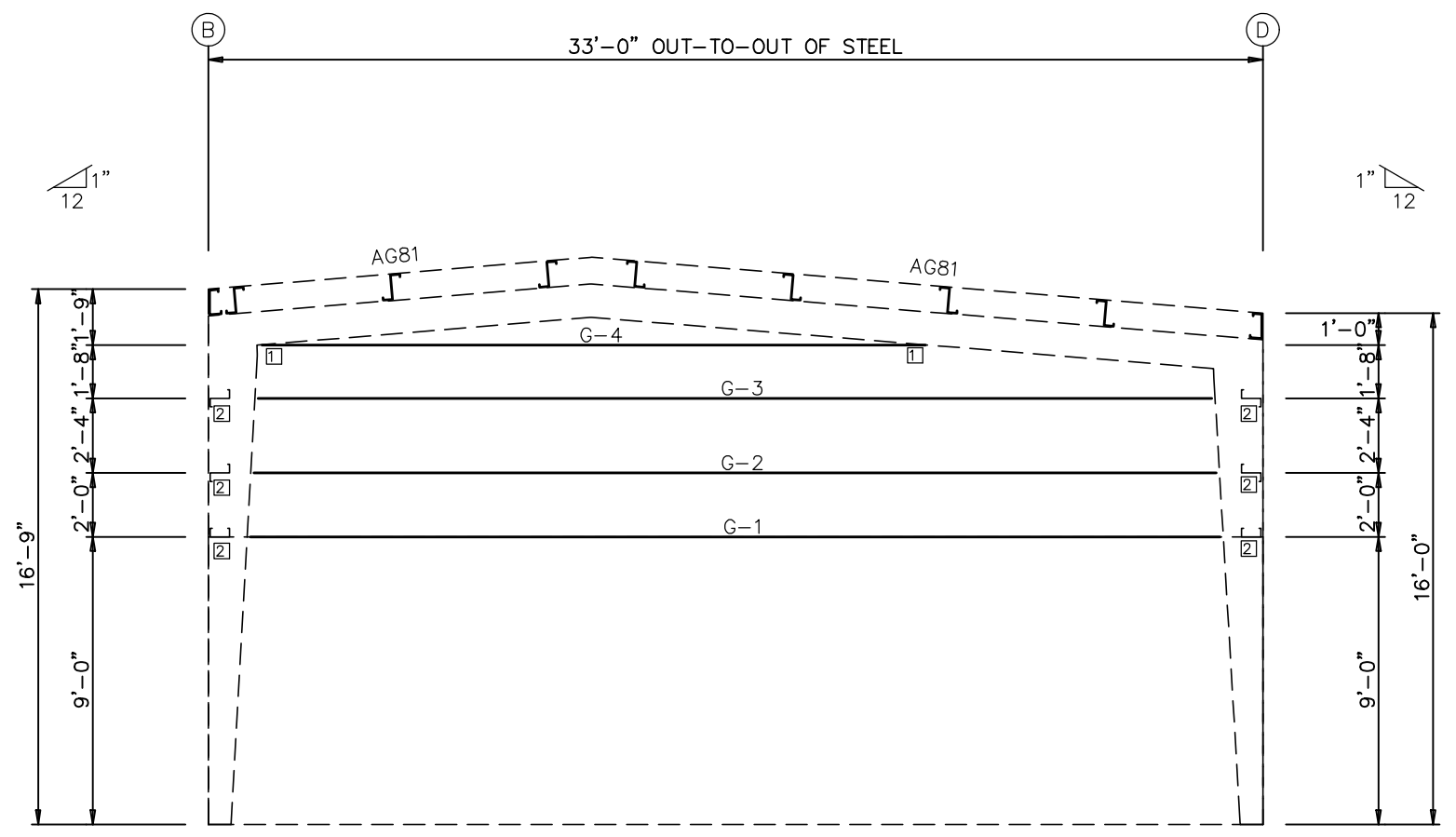


REVISIONS												SCALE: NONE		DRAWN BY: C.W.QUAIL		DATE: 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA									
REVISIONS												CHECKED BY: CHARLIE		DATE: 1-25-2024		APPROVED BY: GLH		DATE: 1/25/24		JOB NO. X4313		SHT. 8 OF 16							
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

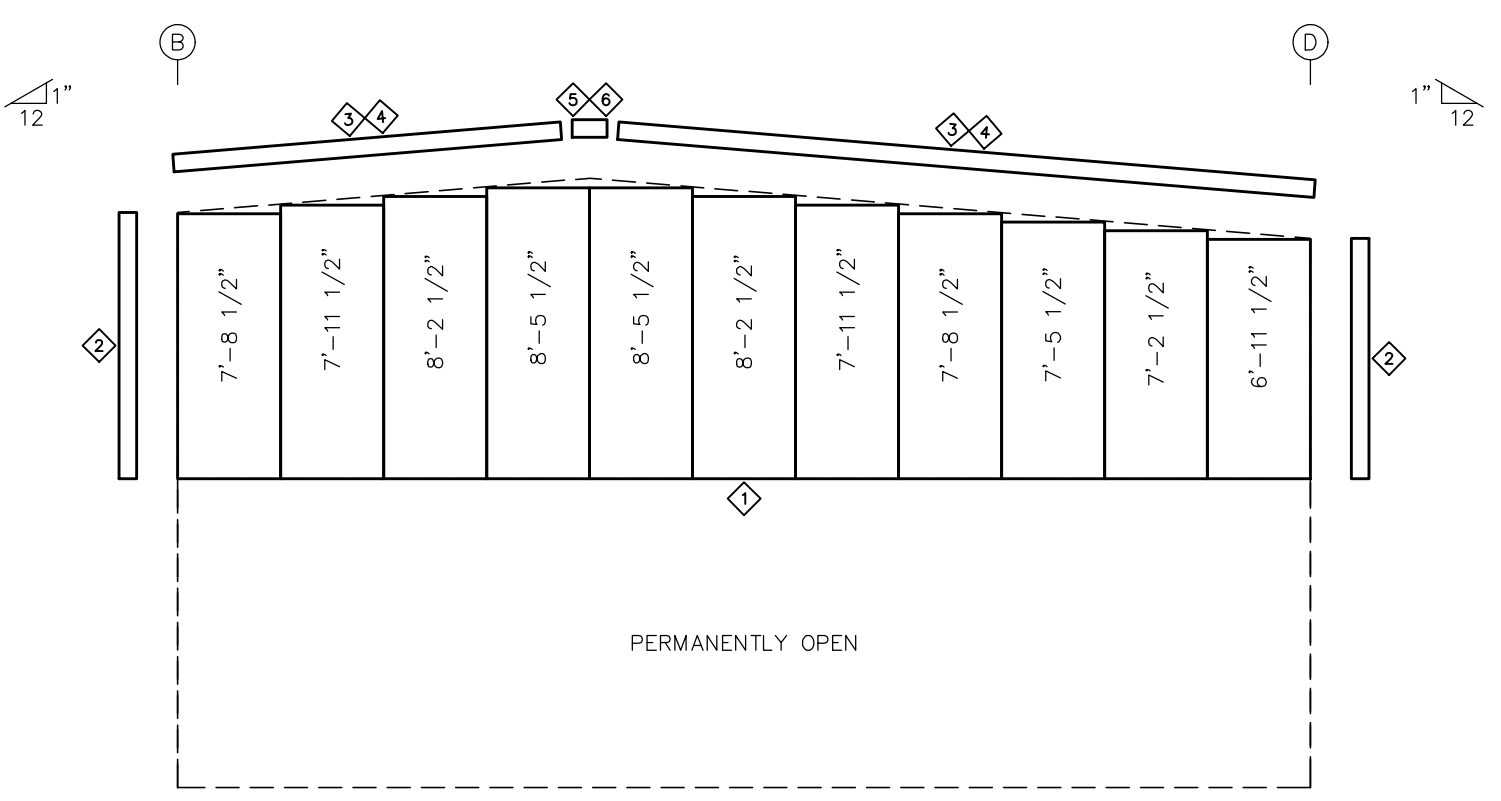
MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
G-1	8x25C16	30'-5 1/2"
G-2	8x25Z13	30'-2 13/16"
G-3	8x25Z13	29'-11 5/8"
G-4	8x25Z16	14'-2 3/4"

CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	776304
2	SG6GX038-021

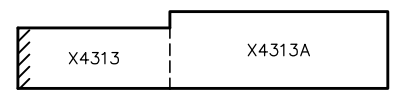
TRIM TABLE FRAME LINE 1	
ID	PART
1	TW49-20
2	TW1-12
3	TE31
4	TR1-20
5	TR3
6	TR21



LEFT ENDWALL FRAMING: FRAME LINE 1

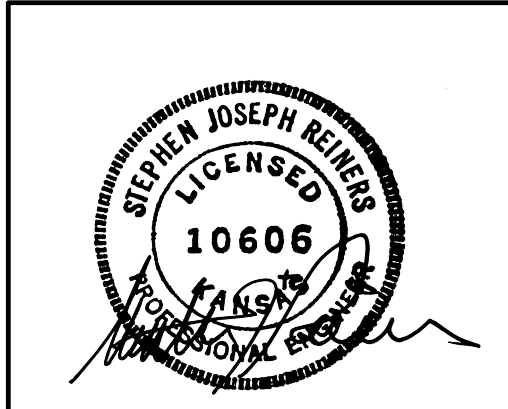


LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 Ga. A1 - ASH GRAY



KEY PLAN

☐ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)



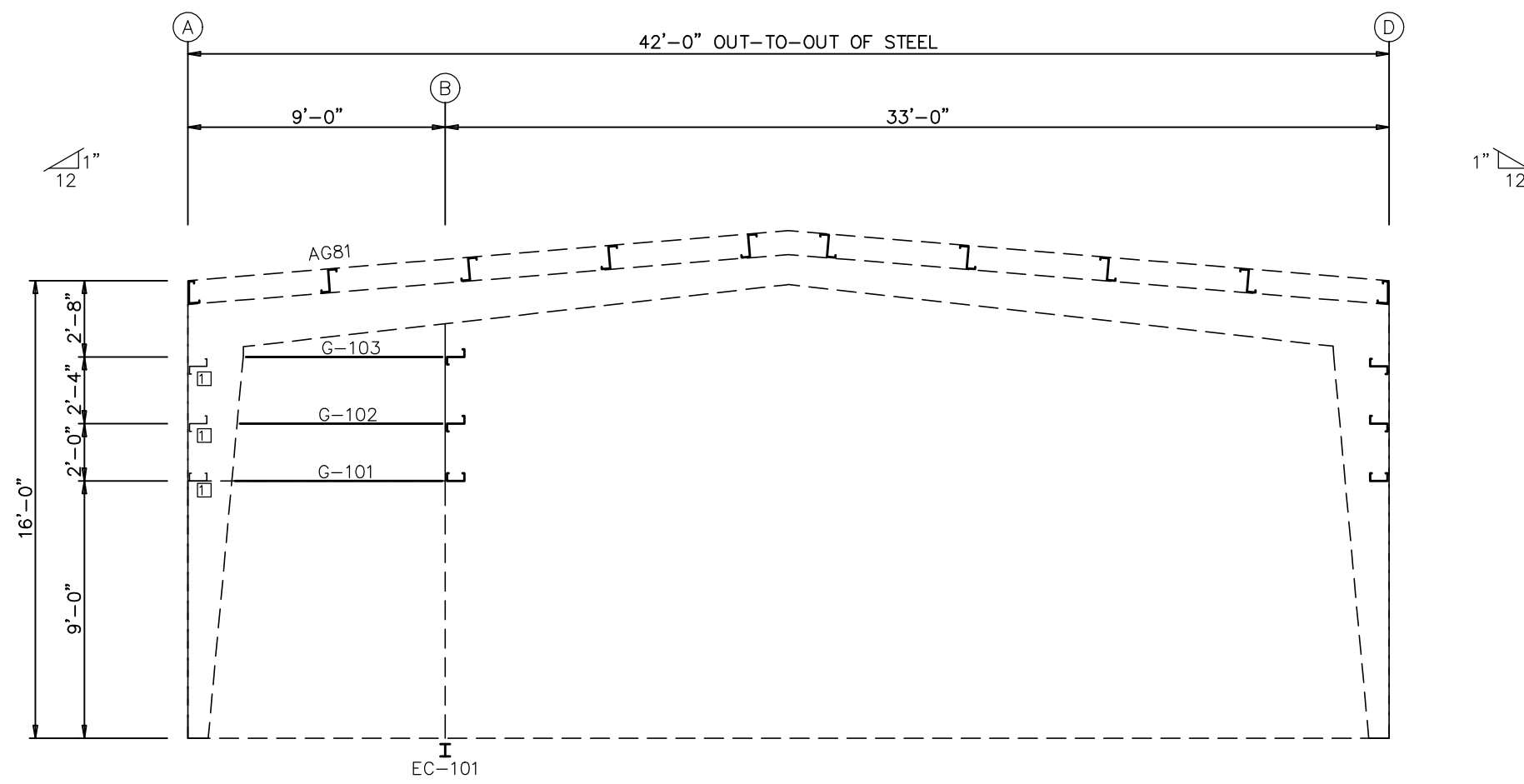
SCALE : NONE												DRAWN BY C.W.QUAIL DATE 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA				
CHECKED BY CHARLIE DATE 1-25-2024												APPROVED BY GLH DATE 1/25/24		JOB NO. X4313		SHT. 9 OF 16				
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	ENDWALL FRAMING

BOLT TABLE			
FRAME LINE 5			
LOCATION	QUAN	TYPE	DIAM
Columns/Raft	4	A325	1 1/2"

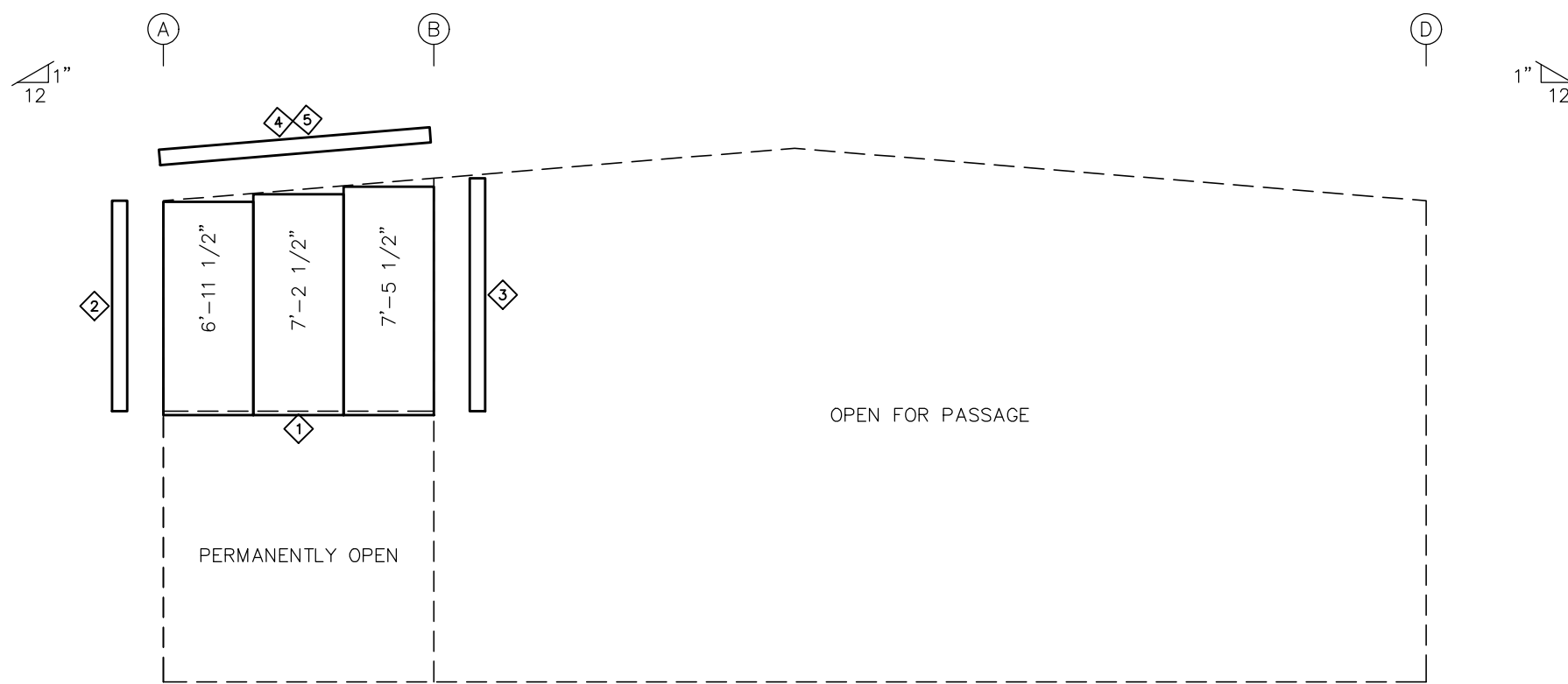
MEMBER TABLE		
FRAME LINE 5		
MARK	PART	LENGTH
EC-101	W8X10	5'-6 3/8"
G-101	8x25C16	7'-0 15/16"
G-102	8x25Z16	6'-10 9/16"
G-103	8x25Z16	6'-8"

CONNECTION PLATES	
FRAME LINE 1	
ID	MARK/PART
1	SG6GX038-021

TRIM TABLE	
FRAME LINE 5	
ID	PART
1	TW49-20
2	TW1-12
3	TW55-12
4	TE31
5	TR1-20

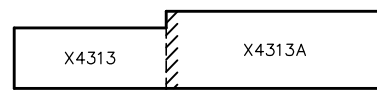


LEFT ENDWALL FRAMING: FRAME LINE 5



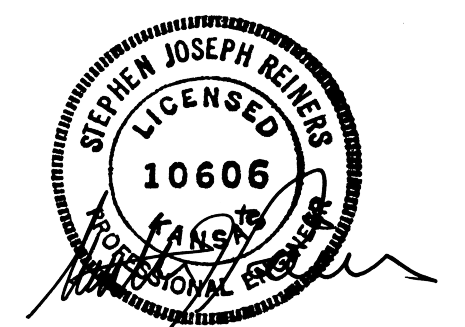
LEFT ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. A1 - ASH GRAY



KEY PLAN

☐ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)



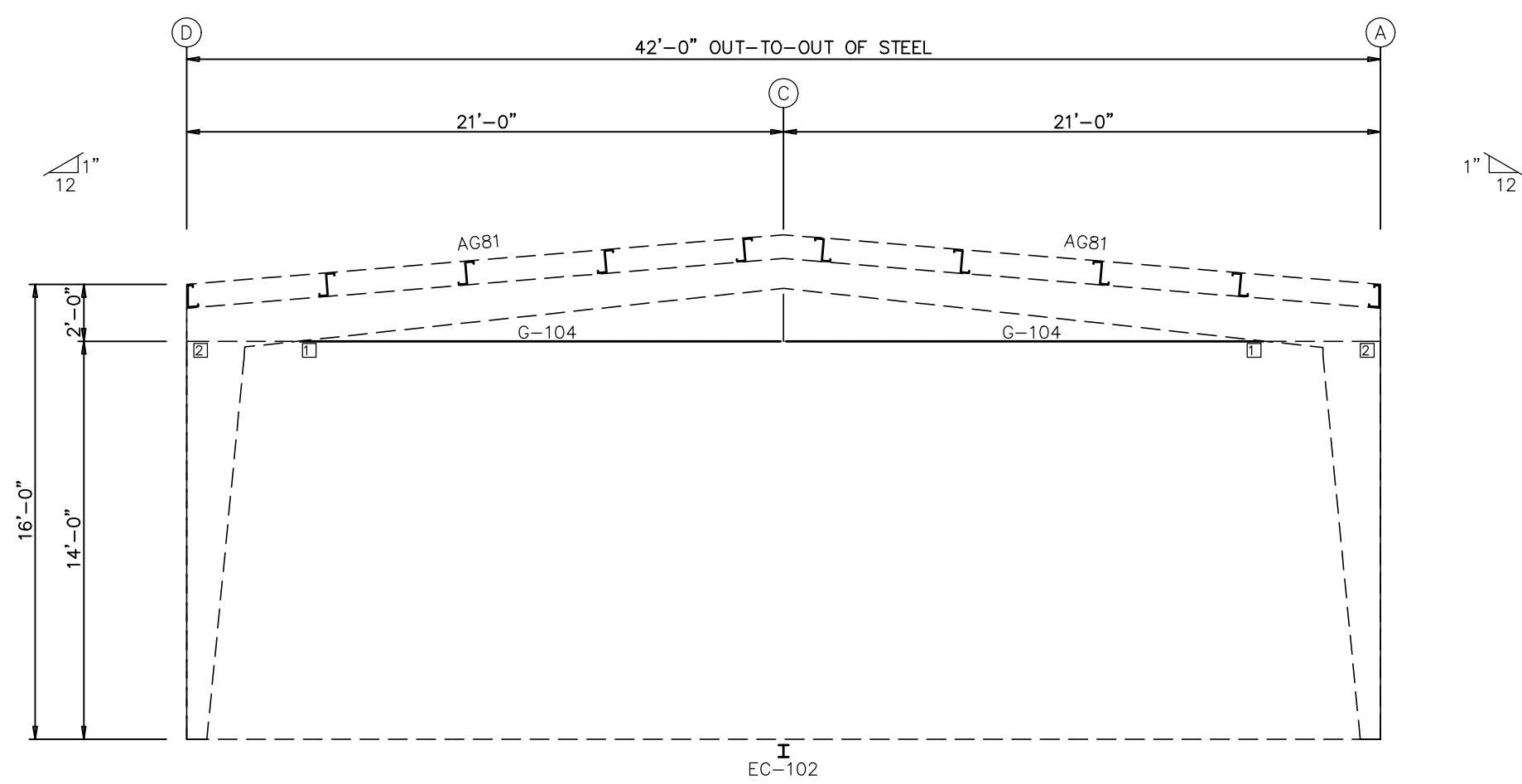
SCALE : NONE												CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA													
DRAWN BY C.W.QUAIL DATE 01-24-24												JOB NO. X4313		SHT. 10 OF 16													
CHECKED BY CHARLIE DATE 1-25-2024																											
APPROVED BY GLH DATE 1/25/24																											
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

BOLT TABLE				
FRAME LINE 9				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	4	A325	1/2"	1 1/2"

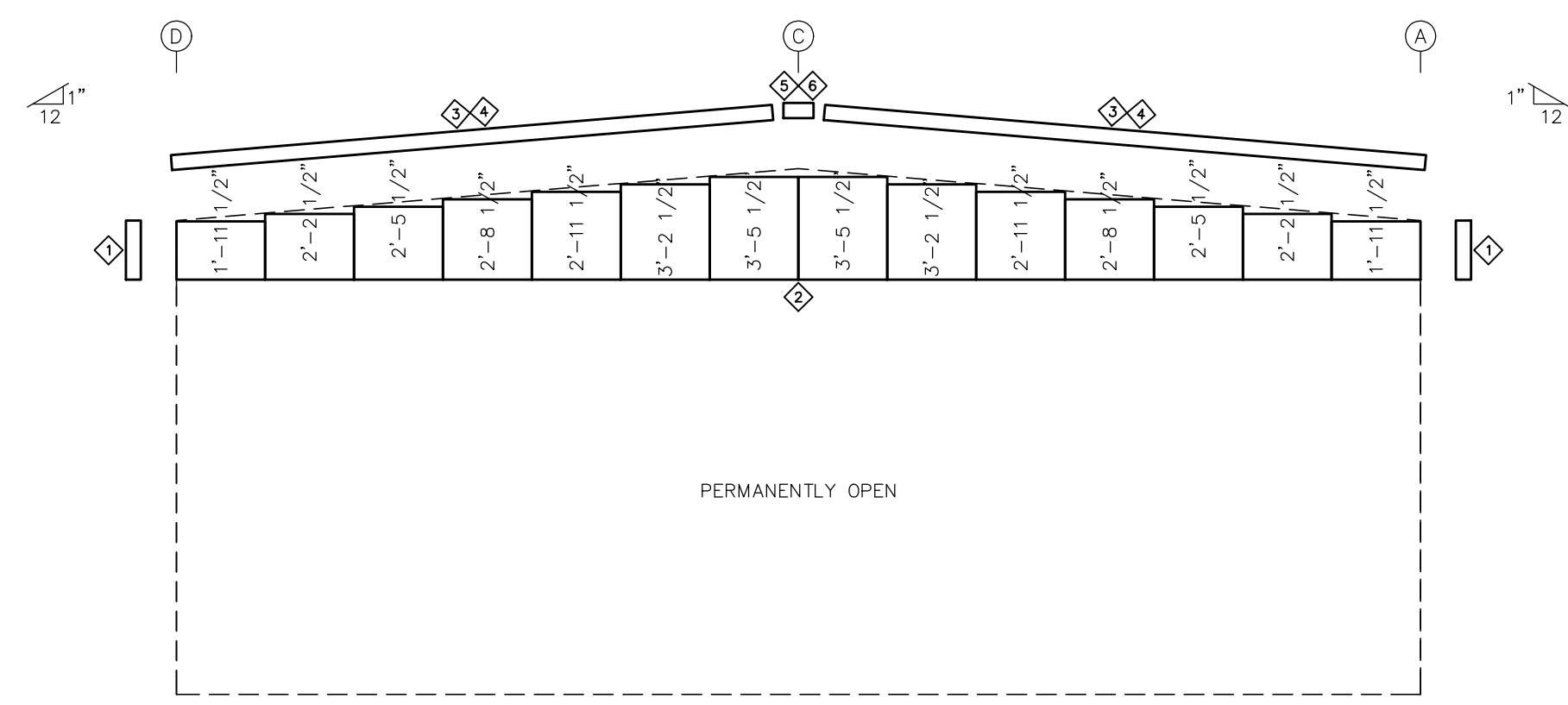
MEMBER TABLE		
FRAME LINE 9		
MARK	PART	LENGTH
EC-102	W8X10	1'-10 1/4"
G-104	8x25C16	14'-2 7/16"

CONNECTION PLATES	
FRAME LINE 1	
ID	MARK/PART
1	76305
2	SG6GX038-021

TRIM TABLE	
FRAME LINE 9	
ID	PART
1	TW1-12
2	TW49-20
3	TE31
4	TR1-20
5	TR3-1
6	TR21

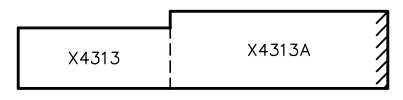


RIGHT ENDWALL FRAMING: FRAME LINE 9



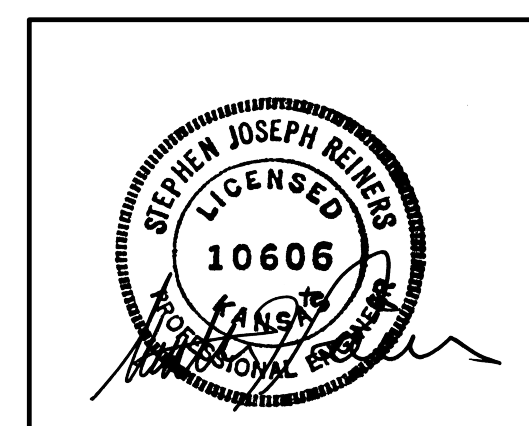
RIGHT ENDWALL SHEETING & TRIM: FRAME LINE 9

PANELS: 26 Gg. A1 - ASH GRAY



KEY PLAN

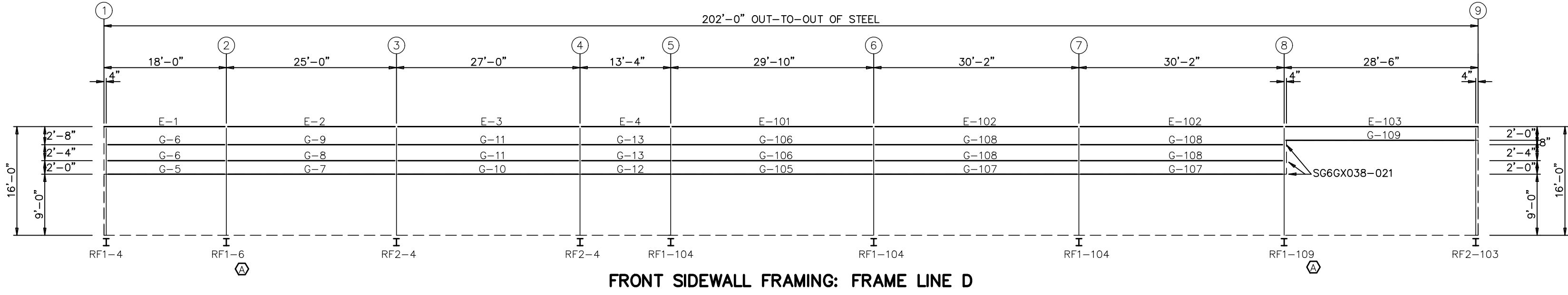
☐ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)



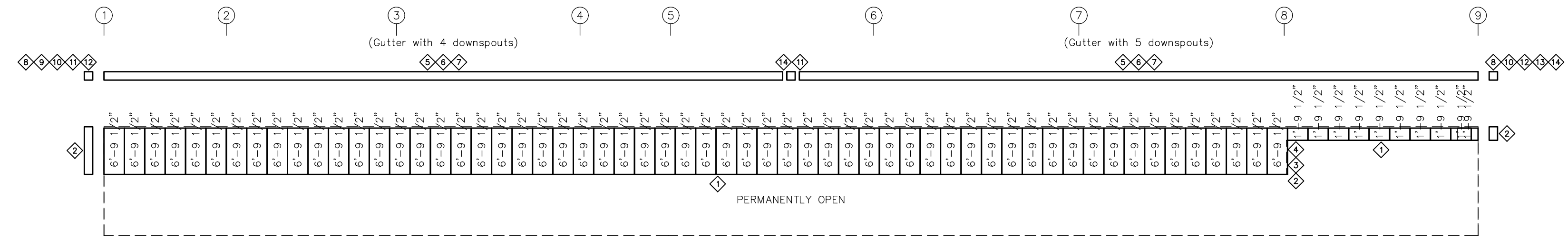
SCALE : NONE												DRAWN BY C.W.QUAIL DATE 01-24-24		CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA			
CHECKED BY CHARLIE DATE 1-25-2024												APPROVED BY GLH DATE 1/25/24		ENDWALL FRAMING		JOB NO. X4313 SH. 11 OF 16			
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

MEMBER TABLE		
FRAME MARK	LINE D PART	LENGTH
E-1	10E14	17'-11 3/4"
E-2	10E14	24'-11 3/4"
E-3	10E14	26'-11 3/4"
E-4	10E14	13'-3 3/4"
E-101	10E14	29'-9 3/4"
E-102	10E14	30'-1 3/4"
E-103	10E14	28'-5 3/4"
G-5	8x25C16	16'-11 1/2"
G-6	8x25Z16	16'-11 1/2"
G-7	8x25C16	24'-3 1/2"
G-8	8x25Z16	24'-3 1/2"
G-9	8x25Z15	24'-3 1/2"
G-10	8x25C16	26'-3 1/2"
G-11	8x25Z14	26'-3 1/2"
G-12	8x25C16	12'-7 1/2"
G-13	8x25Z16	12'-7 1/2"
G-105	8x25C16	29'-1 1/2"
G-106	8x25Z13	29'-1 1/2"
G-107	8x25C16	29'-5 1/2"
G-108	8x25Z13	29'-5 1/2"
G-109	8x25C16	27'-5 1/2"

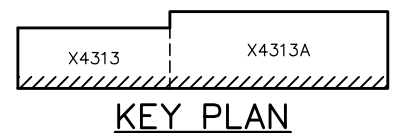
TRIM TABLE	
OID	PART
1	TW49-20
2	TW1-12
3	TM11-12
4	AG21
5	TE25-20
6	TE31
7	TE22-20
8	TE13
9	TE79
10	TE15-1
11	TE72
12	TE27
13	TE78
14	TE73



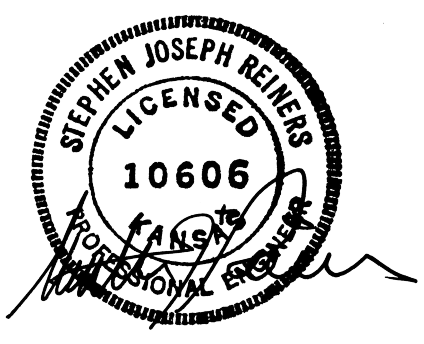
FRONT SIDEWALL FRAMING: FRAME LINE D



FRONT SIDEWALL SHEETING & TRIM: FRAME LINE D
PANELS: 26 Ga. A1 - ASH GRAY



☐ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)



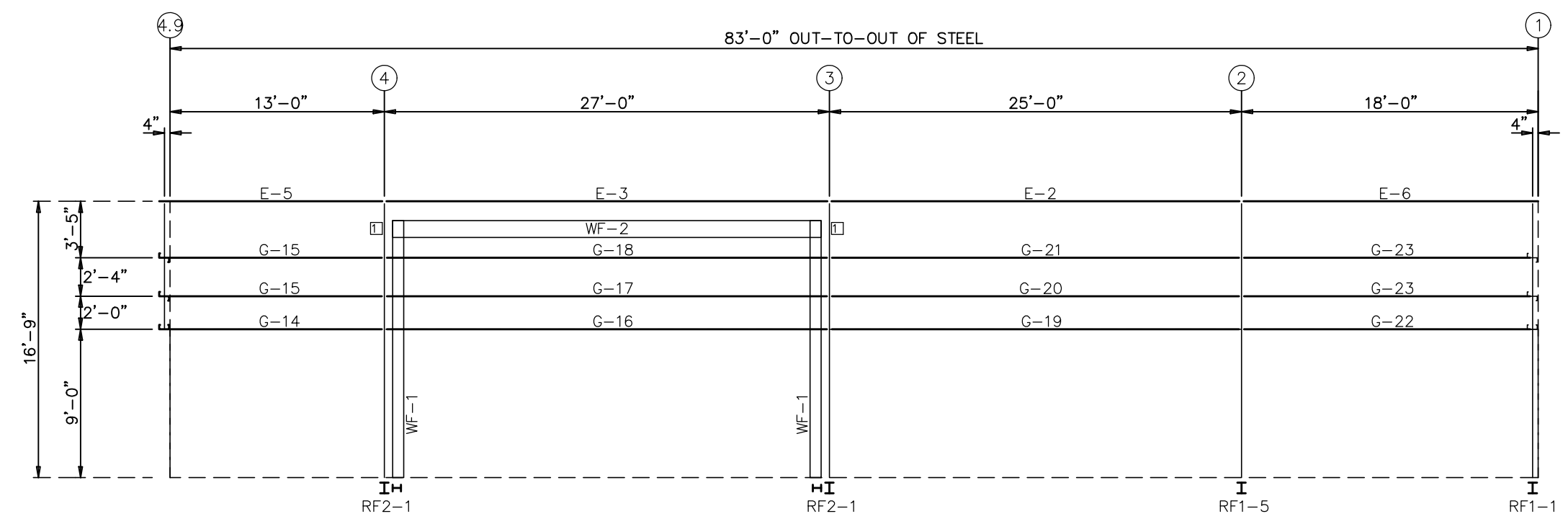
SCALE : NONE												CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA								
DRAWN BY C.W.QUAIL DATE 01-24-24												JOB NO. X4313		SHT. 12 OF 16								
CHECKED BY CHARLIE DATE 1-25-2024																						
APPROVED BY GLH DATE 1/25/24																						
REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	SIDEWALL FRAMING	JOB NO.	X4313	SHT.	12 OF 16

BOLT TABLE				
FRAME LINE B				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	2 1/2"
WF-1 - RF2-1	4	A325	1/2"	1 1/2"

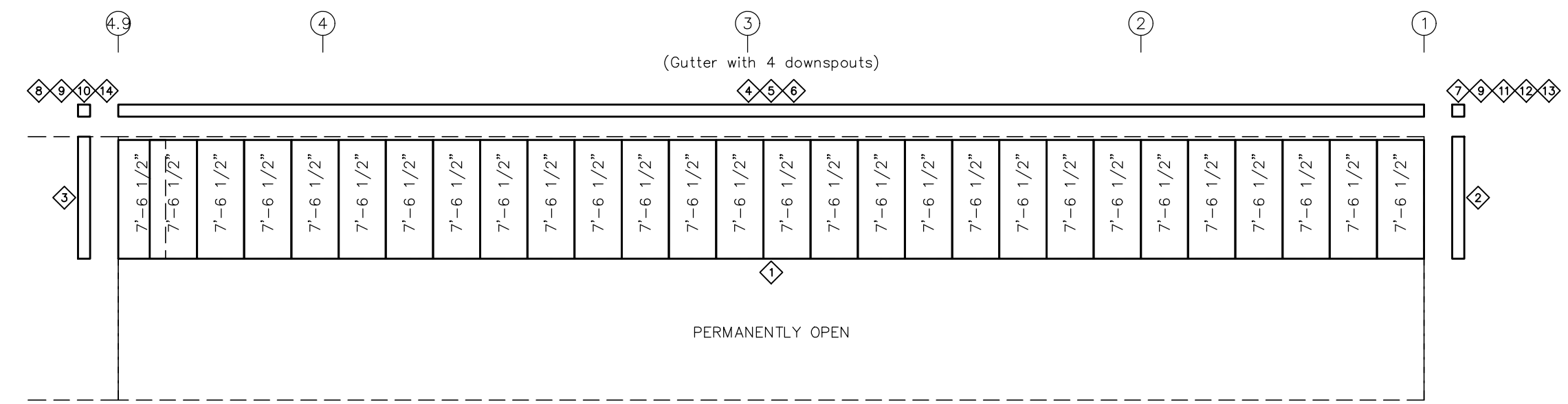
MEMBER TABLE		
FRAME LINE B		
MARK	PART	LENGTH
WF-1	W8X18	15'-1"
WF-2	W12X26	24'-7 5/8"
E-2	10E14	24'-11 3/4"
E-3	10E14	26'-11 3/4"
E-5	10E14	13'-3 3/4"
E-6	10E14	17'-11 3/4"
G-14	8x25C16	12'-7 1/4"
G-15	8x25Z16	12'-7 1/4"
G-16	8x25C16	26'-3 1/2"
G-17	8x25Z14	26'-3 1/2"
G-18	8x25Z13	26'-3 1/2"
G-19	8x25C16	24'-3 1/2"
G-20	8x25Z16	24'-3 1/2"
G-21	8x25Z14	24'-3 1/2"
G-22	8x25C16	16'-11 1/2"
G-23	8x25Z16	16'-11 1/2"

CONNECTION PLATES	
FRAME LINE B	
ID	MARK/PART
1	CP150

TRIM TABLE	
FRAME LINE B	
ID	PART
1	TW49-20
2	TW1-12
3	TW55-12
4	TE25-20
5	TE31
6	TE22-20
7	TE13
8	TE14
9	TE15-1
10	TE72
11	TE27
12	TE78
13	TE73
14	TBV6PW060

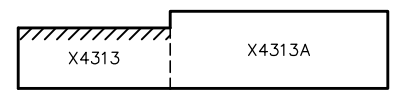


BACK SIDEWALL FRAMING: FRAME LINE B



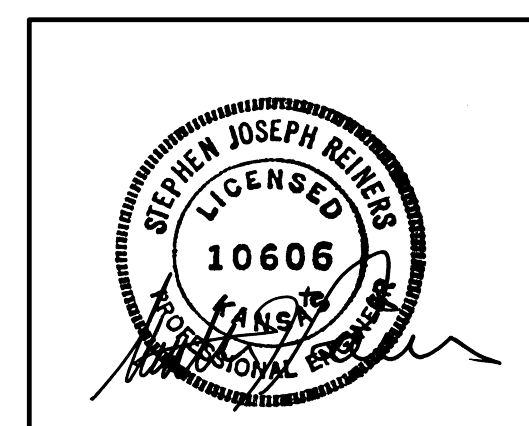
BACK SIDEWALL SHEETING & TRIM: FRAME LINE B

PANELS: 26 Ga. A1 - ASH GRAY

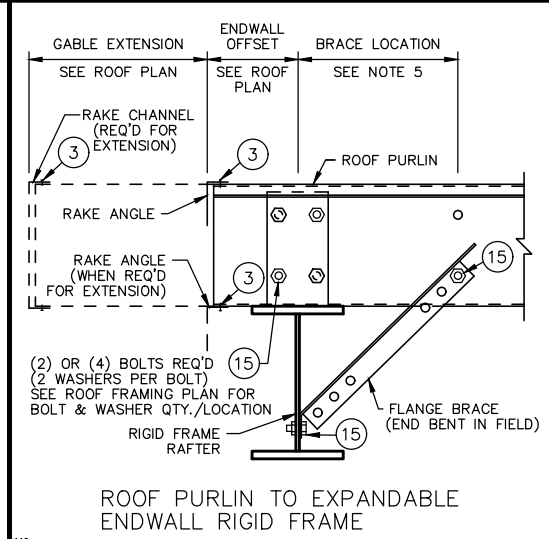


KEY PLAN

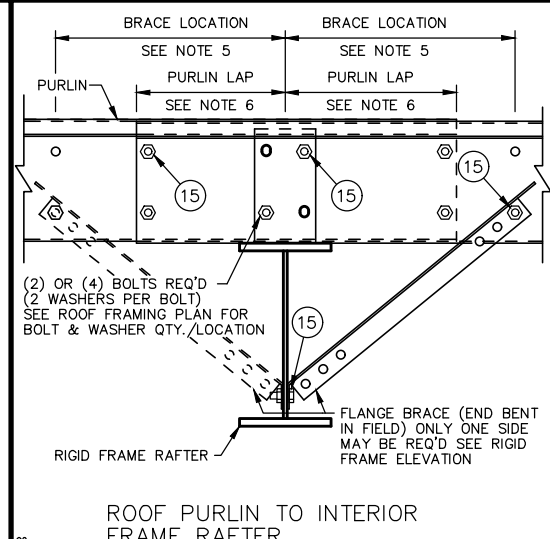
☐ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)



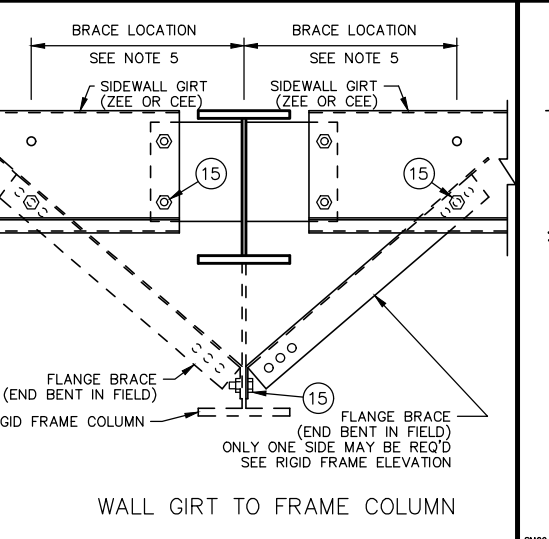
SCALE: NONE												CENTRAL KS FREE FAIR ABILENE, KANSAS		BEHLEN MFG. CO. COLUMBUS, NEBRASKA					
DRAWN BY C.W.QUAIL				DATE 01-24-24				CHECKED BY CHARLIE				DATE 1-25-2024		JOB NO. X4313		SHT. 13 OF 16			
APPROVED BY GLH				DATE 1/25/24				REVISIONS				SIDEWALL FRAMING							
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE	LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE



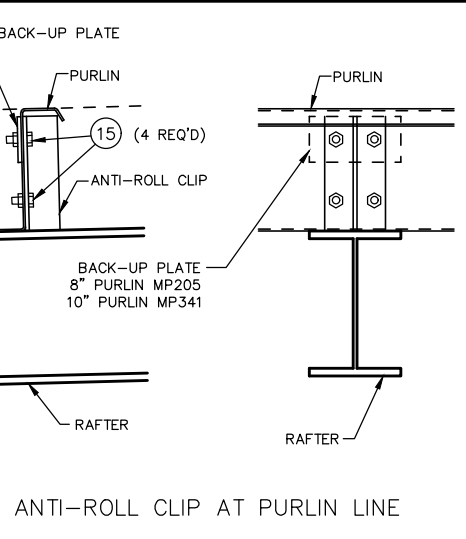
ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



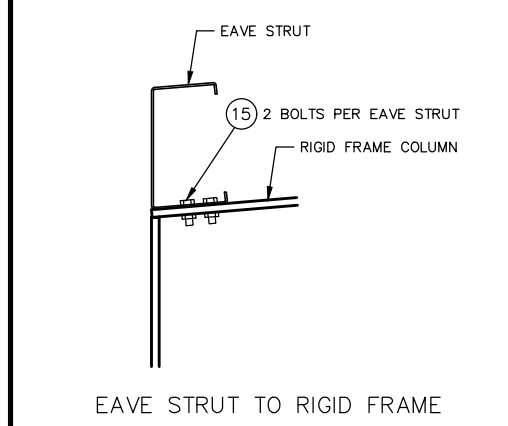
ROOF PURLIN TO INTERIOR FRAME RAFTER



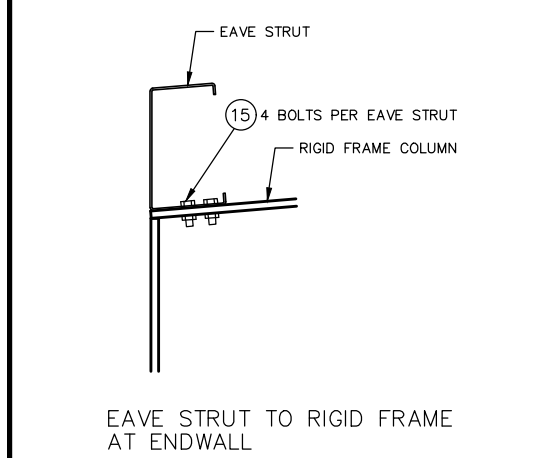
WALL GIRTS TO FRAME COLUMN



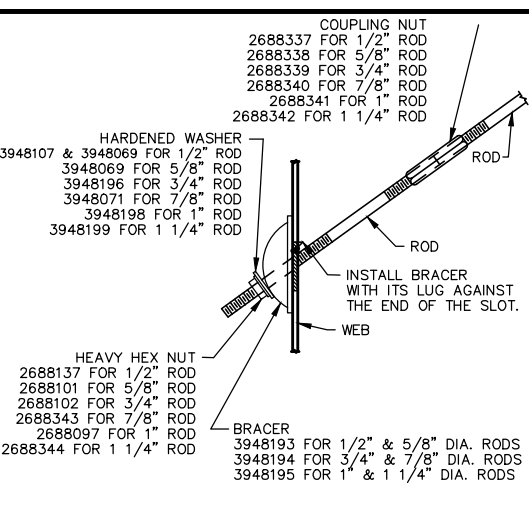
ANTI-ROLL CLIP AT PURLIN LINE



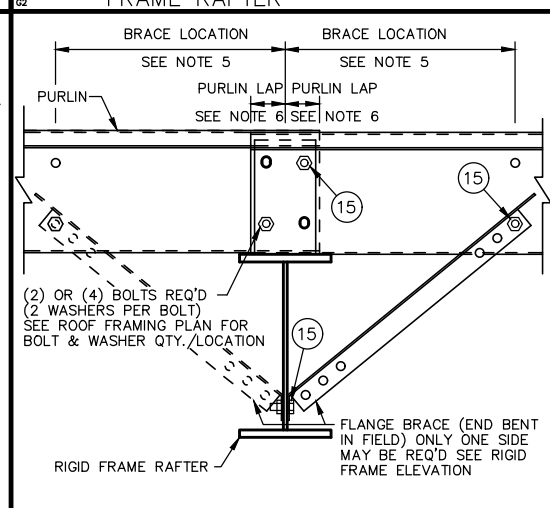
EAVE STRUT TO RIGID FRAME



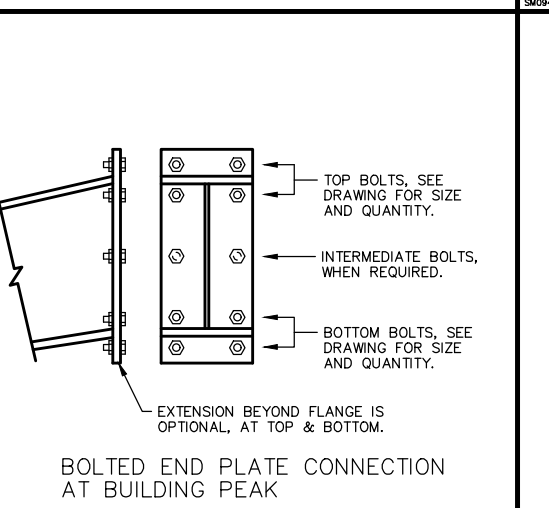
EAVE STRUT TO RIGID FRAME AT ENDWALL



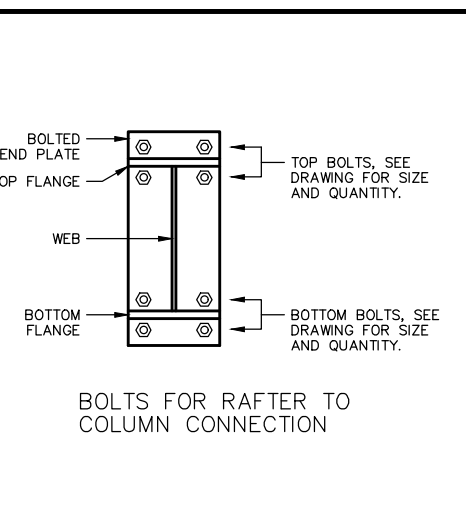
DIAGONAL BRACE ROD, NUT END



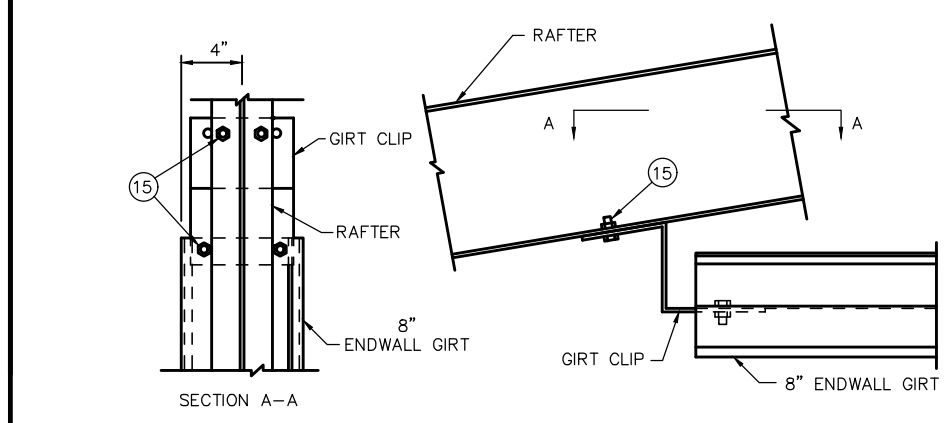
ROOF PURLIN TO INTERIOR FRAME RAFTER



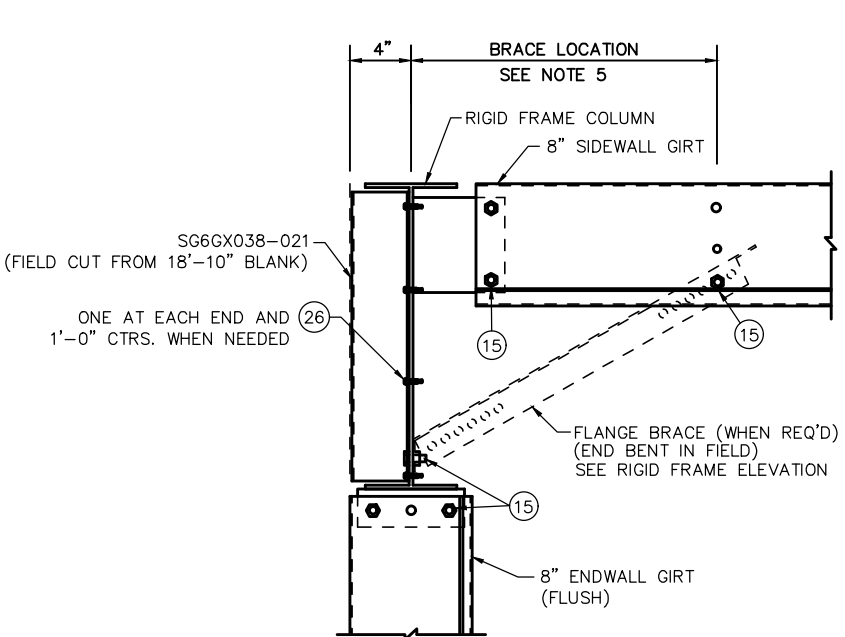
BOLTED END PLATE CONNECTION AT BUILDING PEAK



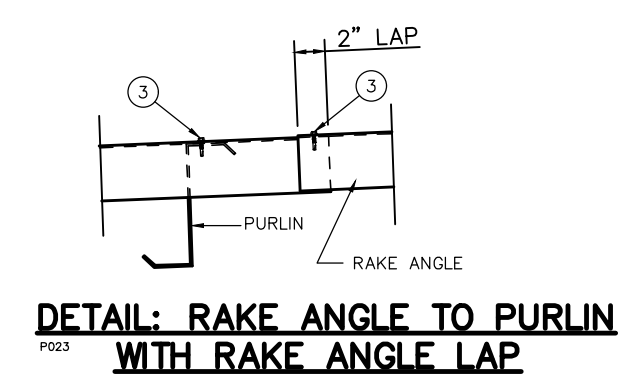
BOLTS FOR RAFTER TO COLUMN CONNECTION



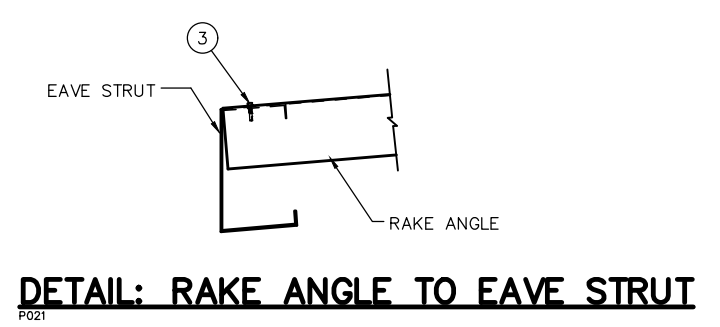
DETAIL: GIRTS TO RAFTER



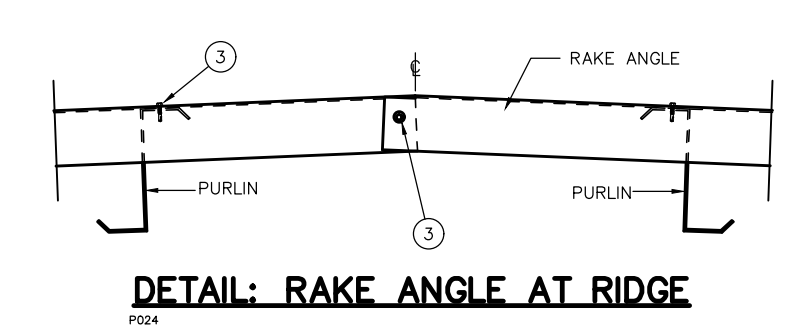
DETAIL: GIRTS CONNECTION @ CORNER W/ 0\"/>



DETAIL: RAKE ANGLE TO PURLIN WITH RAKE ANGLE LAP



DETAIL: RAKE ANGLE TO EAVE STRUT



DETAIL: RAKE ANGLE AT RIDGE

FASTENER SCHEDULE			
LOC. PART NUMBER	DESCRIPTION	LOC. PART NUMBER	DESCRIPTION
(1)	AS NOTED ON RIGID FRAME ELEVATION	(14)	322808 SCREW 12 X 1 1/4 HWH SD #5 PT NW
(2)	3228100 SCREW 1/4 X 3/4 FL-TP SD WW	(15)	1328193 BOLT 1/2 X 1 1/2 HVHX A325T GALV & NUT (1328191)
(3)	3228084 SCREW 12 X 1 HWH SD NW	(16)	3208170 BOLT 1/2 X 1 FLT RD HD A307 PLTD & NUT (2688007)
(4)	3228101 SCREW 12 X 1 1/4 FL-TP SD WW	(17)	3228102 SCREW 12 X 2 FL-TP SD WW
(5)	3228103 SCREW 1/4 X 1 1/4 LG-LF SD WW	(19)	3948011 BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2688008)
(6)	3228093 SCREW 5/8 X 1 1/2 HWH SD NW	(20)	3188003 BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2688008)
(8)	3188333 BOLT 1/2 X 2 HVHX A325T GALV & NUT (1328191)	(21)	3228122 SCREW 1/4 X 1 1/2 HWH SD NW
(9)	1328199 BOLT 5/8 X 2 1/4 HVHX A325T GALV & NUT (1328195)	(22)	SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(10)	1328187 BOLT 3/4 X 1 1/4 HVHX A325T GALV & NUT (1328192)	(23)	3228124 SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(11)	1328190 BOLT 3/4 X 2 1/2 HVHX A325T GALV & NUT (1328192)	(25)	3228126 SCREW 17 X 1 LG-LF ST WW
(12)	3228100 SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(26)	3228138 SCREW 1/4 X 1 HWH SD NW
(13)	3228101 SCREW 12 X 1 1/4 FL-TP SD WW FOR ADP1 ROOF	(27)	3208084 SCREW 10 X 1 1/2 HWH WOODTITE WW
(13)	3228103 SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR	(28)	3228132 SCREW 12 X 1 1/2 HWH SD #5 PT WW

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
A	REVISED AND ADDED DETAILS	KW	3/22/24	CRM	3/27/24	GLH	3/27/24		

NOTES:

- FOR SEQUENCE OF ERECTION - SEE APPLICABLE WALL PANEL ERECTION GUIDE.
- FOR FLANGE BRACE LOCATIONS - SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
- SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
- THE LENGTH OF THE FLANGE BRACE SUPPLIED AT EACH LOCATION WILL DETERMINE WHICH STANDARD LAP HOLE LOCATION (1'-3", 2'-6", 3'-9", OR 5'-0") IS TO BE USED.
- ATTACH FLANGE BRACE TO HOLE IN GIRTS WHICH BEST FITS THE FLANGE BRACE LENGTH SUPPLIED FOR THE LOCATION.
- PURLIN LAPS MAY VARY IN LENGTH AND MAY NOT NECESSARILY BE THE SAME ON EACH SIDE OF THE FRAME.

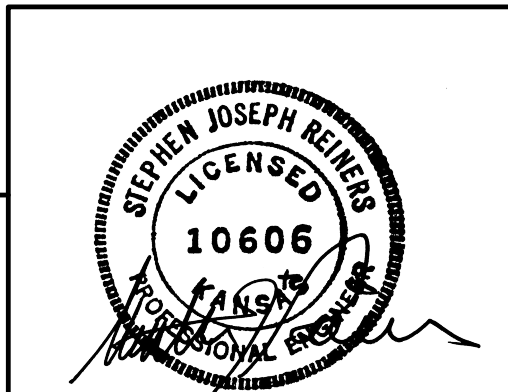
UNLESS OTHERWISE NOTED, CONNECTIONS BY THIS MANUFACTURER USING A-325 HIGH STRENGTH BOLTS ARE DESIGNED TO BE FASTENED USING THE "SNUG-TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCS-C, 6-23-2000), SECTION 4.1 "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1).

SCALE: NONE

DRAWN BY C.W.QUAIL DATE 01-24-24
 CHECKED BY CHARLIE DATE 1-25-2024
 APPROVED BY GLH DATE 1/25/24
 REVIEWED BY DATE

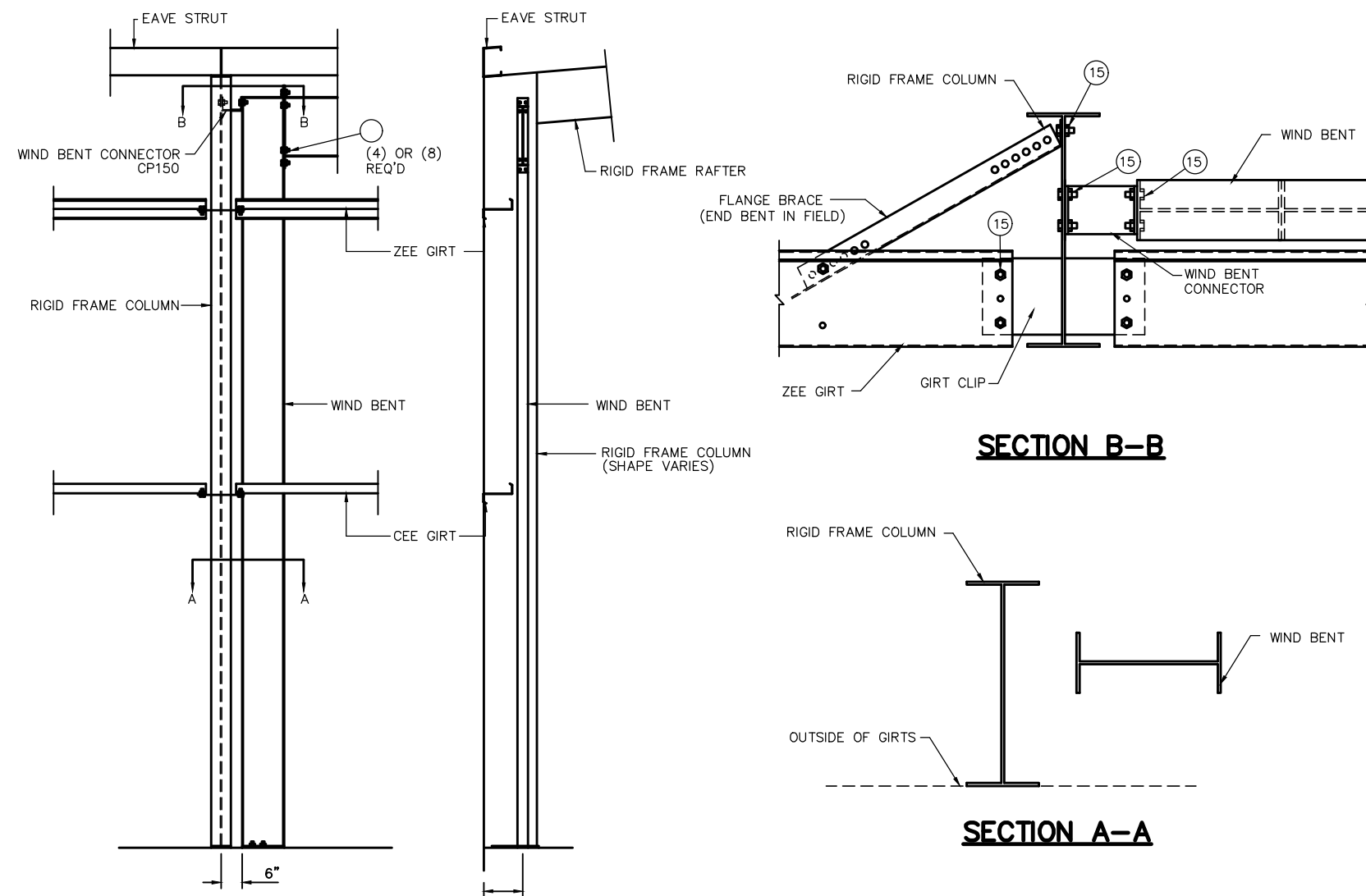
CENTRAL KS FREE FAIR ABILENE, KANSAS

DETAIL DRAWINGS

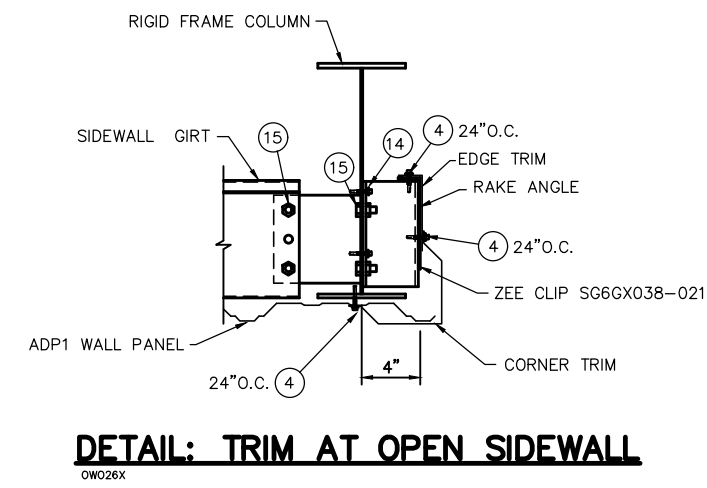


BEHLEN MFG. CO. COLUMBUS, NEBRASKA

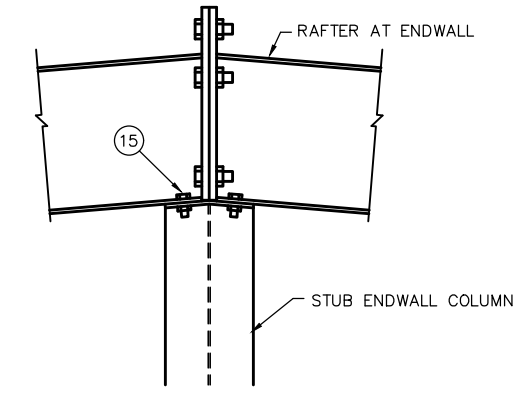
JOB NO. X4313 SH. 15 OF 16



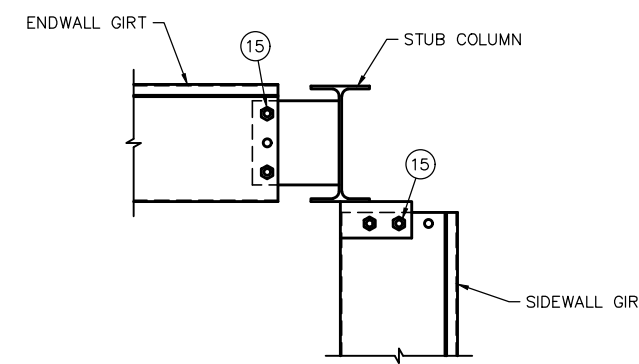
**DETAIL: WIND BENT AT RIGID FRAME COLUMN W/ FLUSH GIRTS
W/ 2 BOLT STANDARD WIND BENT CONNECTOR**



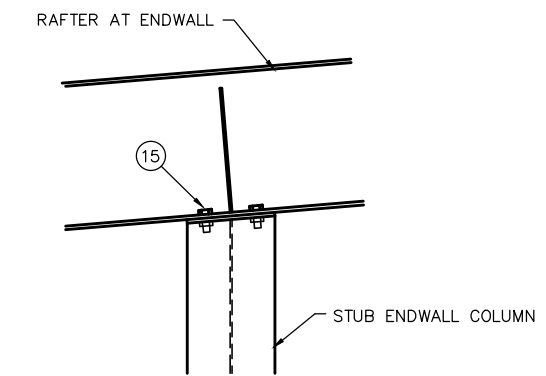
DETAIL: TRIM AT OPEN SIDEWALL



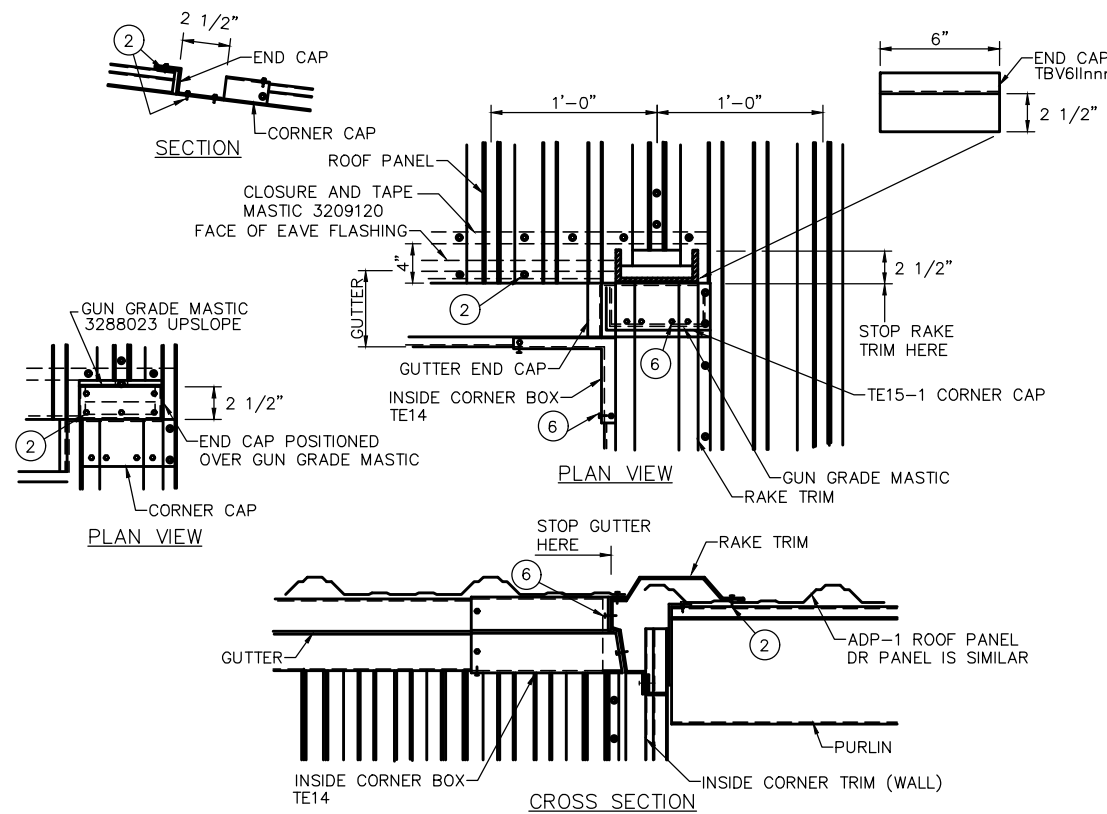
**DETAIL: ENDWALL COLUMN TO ENDWALL
RAFTER AT RIDGE W/ SLOPED CAP PLATE**



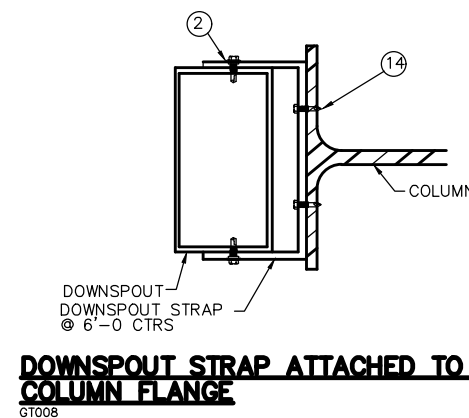
GIRT CONNECTION AT INSIDE CORNER



**DETAIL: ENDWALL COLUMN TO ENDWALL
RAFTER (W/ SLOPED CAP PLATE)**



**DETAIL: INSIDE CORNER - GUTTER INTERSECTS
TRIM (RAKE LINE @ PANEL RIB)**



**DOWNSPOUT STRAP ATTACHED TO A
COLUMN FLANGE**

FASTENER SCHEDULE

LOC. PART NUMBER	DESCRIPTION	LOC. PART NUMBER	DESCRIPTION
(1)	AS NOTED ON RIGID FRAME ELEVATION	(14)	3228087 SCREW 12 X 1 1/4 HWH SD #5 PT NW
(2)	3228100 SCREW 1/4 X 3/4 FL-TP SD WW	(15)	1328193 BOLT 1/2 X 1 1/2 HWH A325T GALV & NUT (1328191)
(3)	3228092 SCREW 12 X 1 HWH SD NW	(16)	3208170 BOLT 1/2 X 1 1/2 X 1 FLT RD HD A307 PLTD & NUT (2688007)
(4)	3228101 SCREW 12 X 1 1/4 FL-TP SD WW	(17)	3228103 SCREW 12 X 2 FL-TP SD WW
(5)	3228105 SCREW 1/4 X 1 1/4 LG-LF SD WW	(19)	996011 BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2688008)
(6)	3228099 SCREW 8 X 1 1/2 HWH SD NW	(20)	3188003 BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2688006)
(8)	3188333 BOLT 1/2 X 2 HWH A325T GALV & NUT (1328191)	(21)	3228122 SCREW 1/4 X 1 1/2 HWH SD NW
(9)	1328199 BOLT 5/8 X 2 1/4 HWH A325T GALV & NUT (1328195)	(22)	SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(10)	1328187 BOLT 3/4 X 1 1/2 HWH A325T GALV & NUT (1328192)	(23)	3228124 SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(11)	3228100 BOLT 3/4 X 2 1/2 HWH A325T GALV & NUT (1328192)	(25)	3228126 SCREW 17 X 1 LG-LF ST WW
(12)	3228103 SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(26)	3228138 SCREW 1/4 X 1 HWH SD NW
(13)	3228101 SCREW 12 X 1 1/4 FL-TP SD WW FOR ADP1 ROOF	(27)	3208084 SCREW 10 X 1 1/2 HWH WOODTITE WW
(14)	3228105 SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR	(28)	3228132 SCREW 12 X 1 1/2 HWH SD #5 PT WW

ABBREVIATIONS	DESCRIPTION
HD	= HEAD
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
BS	= POINT
RD	= ROUND
WW	= WITH WASHER
NW	= NO WASHER
FL	= FLAT
FLVHX	= FLAT VHX
UNPL	= UNPLATED
PLTD	= PLATED
HWH	= HEX WASHER HEAD
FL-TP	= FLAT TOP
LG-LF	= LONG LIFE
PHPS	= PHILLIPS

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
	REVISED AND ADDED DETAILS	KW	3/22/24	CRM	3/27/24	GLH	3/27/24		

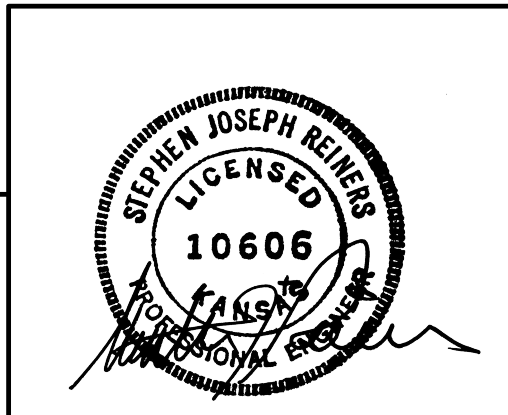
NOTES:

- FOR SEQUENCE OF ERECTION - SEE APPLICABLE WALL PANEL ERECTION GUIDE.
- FOR FLANGE BRACE LOCATIONS - SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
- SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
- THE LENGTH OF THE FLANGE BRACE SUPPLIED AT EACH LOCATION WILL DETERMINE WHICH STANDARD LAP HOLE LOCATION (9, 1'-8, 2'-5 OR 3'-9) IS TO BE USED.
- ATTACH FLANGE BRACE TO HOLE IN GIRT WHICH BEST FITS THE FLANGE BRACE LENGTH SUPPLIED FOR THE LOCATION.

UNLESS OTHERWISE NOTED, CONNECTIONS BY THIS MANUFACTURER USING A-325 HIGH STRENGTH BOLTS ARE DESIGNED TO BE FASTENED USING THE "SNUG TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 6-23-2000), SECTION 4.1 "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1).

SCALE : NONE

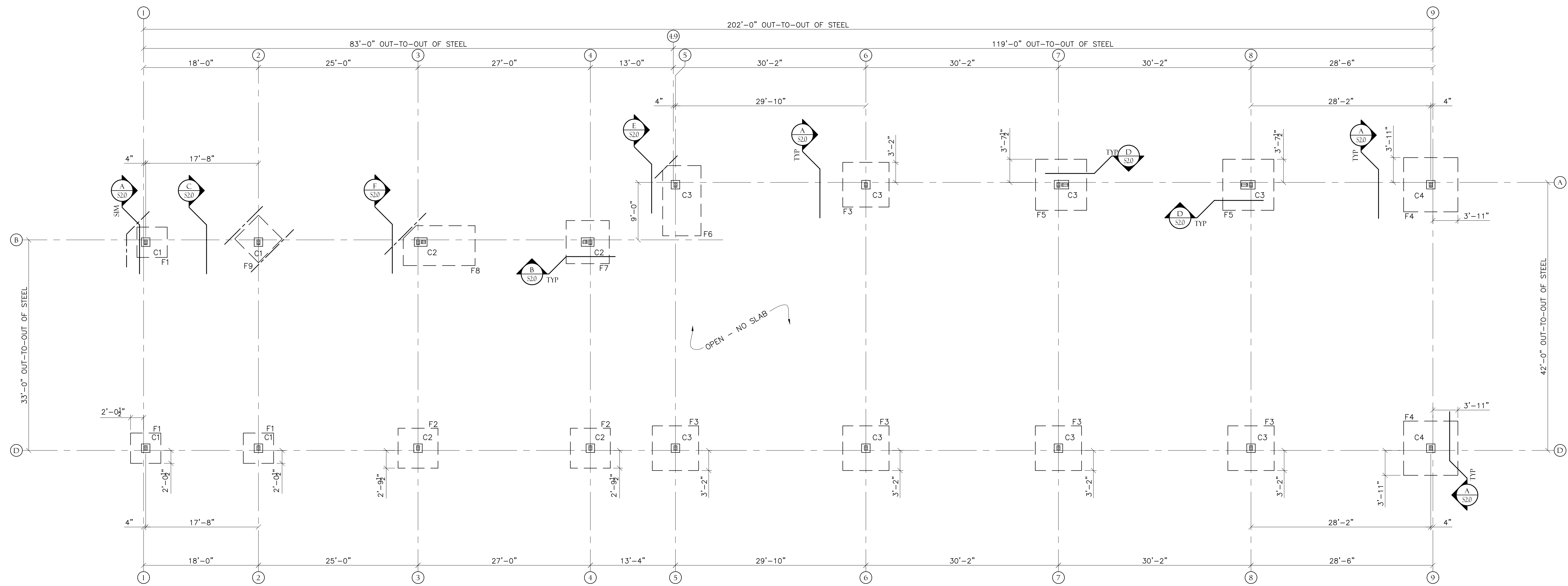
DRAWN BY C.W.OUAIL DATE 01-25-24
 CHECKED BY CHARLIE DATE 1-25-2024
 APPROVED BY GLH DATE 1/25/24
 REVIEWED BY DATE



**CENTRAL KS FREE FAIR
ABILENE, KANSAS**

**BEILEN MFG. CO.
COLUMBUS, NEBRASKA**

JOB NO. X4313 SHT. 16 OF 16



FOUNDATION PLAN

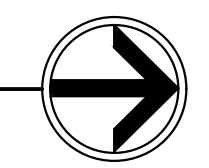
SCALE: 1/8" = 1'-0"

GENERAL (UON):
 SEE PRE-ENGINEERED METAL BUILDING PLANS FOR DOOR LOCATIONS AND DIMENSIONS
 ALL BLDG. DIMENSIONS WERE PROVIDED BY BEHLEN MFG. CO., JOB# X4313 DATED 01-24-24
 SEE PRE-ENGINEERED METAL BUILDING PLANS FOR BASE PLATE DIMENSIONS AND ELEVATIONS
 SEE SHEET S2.0 FOR TYPICAL DETAILS.

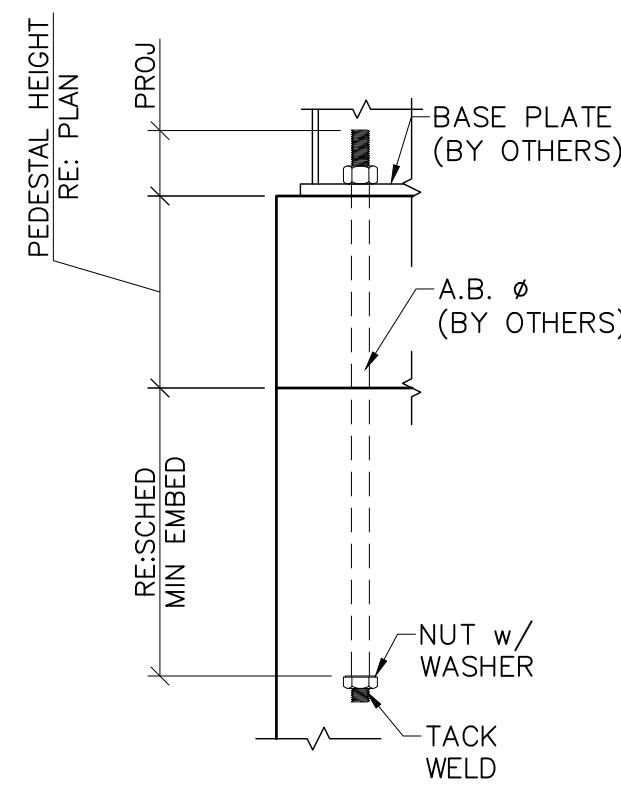
--- FOOTING
 --- EXISTING BELOW GRADE PIPE

SPOT FOOTING SCHEDULE				
MK	EL BOT OF FTG	SIZE	DEPTH	REINF (T&B)
F1	SEE PLAN	4'-9"x4'-9"	3'-0"	(5) #6 (EW)
F2	SEE PLAN	6'-3"x6'-3"	3'-0"	(6) #6 (EW)
F3	SEE PLAN	7'-3"x7'-3"	3'-0"	(7) #6 (EW)
F4	SEE PLAN	8'-6"x8'X6"	3'-0"	(8) #6 (EW)
F5	SEE PLAN	8'-0"x8'-0"	3'-0"	(8) #6 (EW)
F6	SEE PLAN	6'-0"x11'-0"	3'-0"	(6x10) #6
F7	SEE PLAN	6'-9"x6'-9"	3'-0"	(6) #6 (EW)
F8	SEE PLAN	6'-3"x11'-3"	3'-0"	(6x10) #6
F9	SEE PLAN	5'-3"x5'-3"	3'-0"	(8) #6 (EW)

PEMB REACTION SCHEDULE			
MK	COMP (kips)	UPLIFT (kips)	KICKOUT (kips)
C1	3.9	3.5	1.9
C2	10.1	7.8	3.8
C3	14.9	10.5	6.9
C4	14.9	13.9	7.4



				DLY	CHK
				CM	DWN
				BEJ	DSN
				FOR PERMIT	DESCRIPTION
				3-27-24	DATE
				0	REV
DAVID L. VERMETTEN ENGINEER KS # 19823					
2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH: (785) 762-5040 je@kvweng.com www.kvweng.com					
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24					
CKFF 619 NORTH ROGERS STREET ABILENE, KANSAS FOUNDATION PLAN					
PROJ. NO. A23_1616					
DESIGNER BEJ			DRAWN BY CM		
CFN 1616STRU					
SHEET S1.0					REV 0

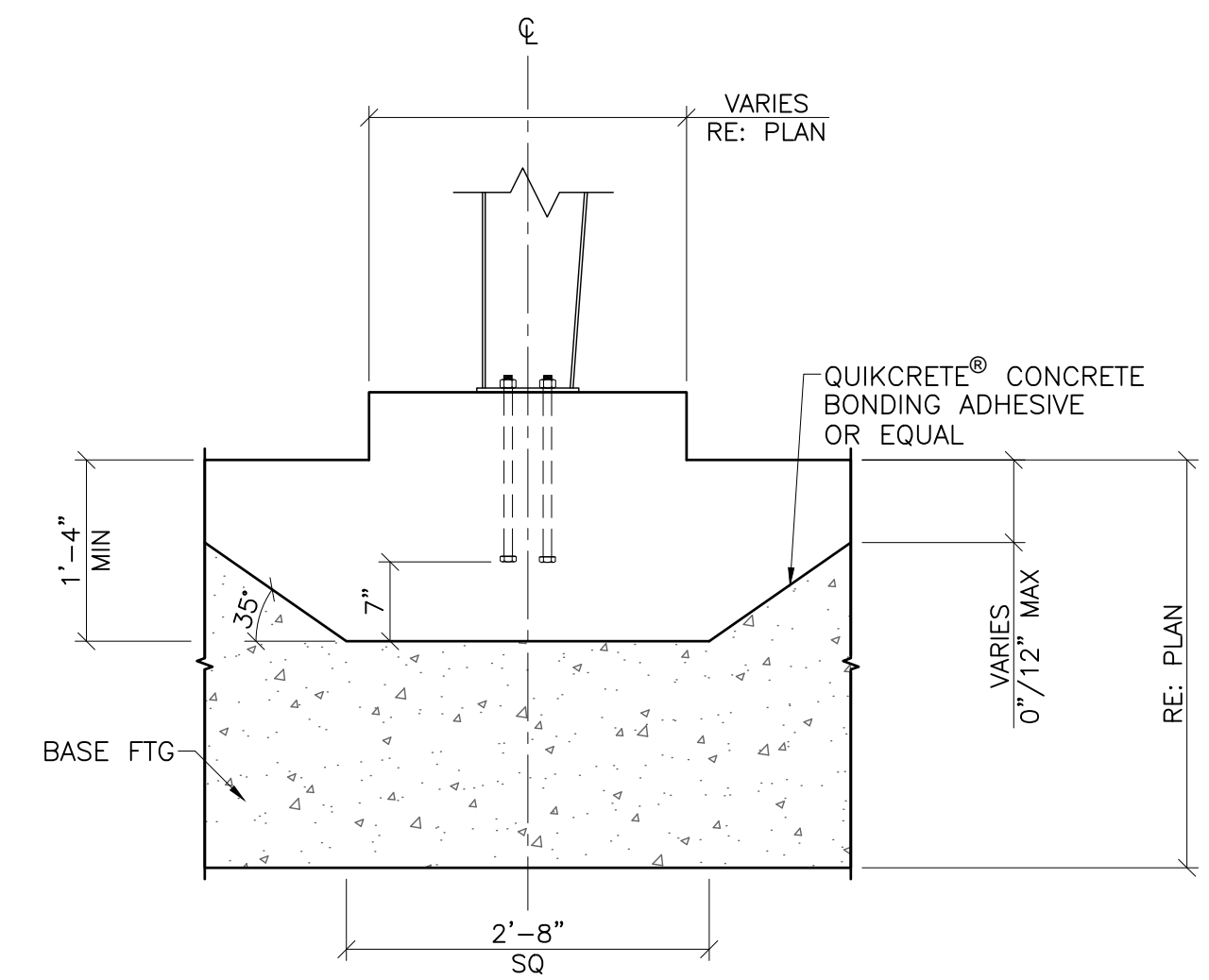


TYP ANCHOR BOLT SCHEDULE				
FOOTING	DIAMETER*	PROJECTION*	MIN EMBED	TOTAL LENGTH**
F1	3/4"	2 1/2"	9"	21 1/2"
F2	3/4"	2 1/2"	9"	21 1/2"
F3	3/4"	2 1/2"	9"	21 1/2"
F4	3/4"	2 1/2"	9"	21 1/2"
F5	3/4"	2 1/2"	9"	21 1/2"
F6	3/4"	2 1/2"	9"	21 1/2"
F7	3/4"	2 1/2"	9"	21 1/2"
F8	3/4"	2 1/2"	9"	21 1/2"
F9	3/4"	2 1/2"	9"	21 1/2"

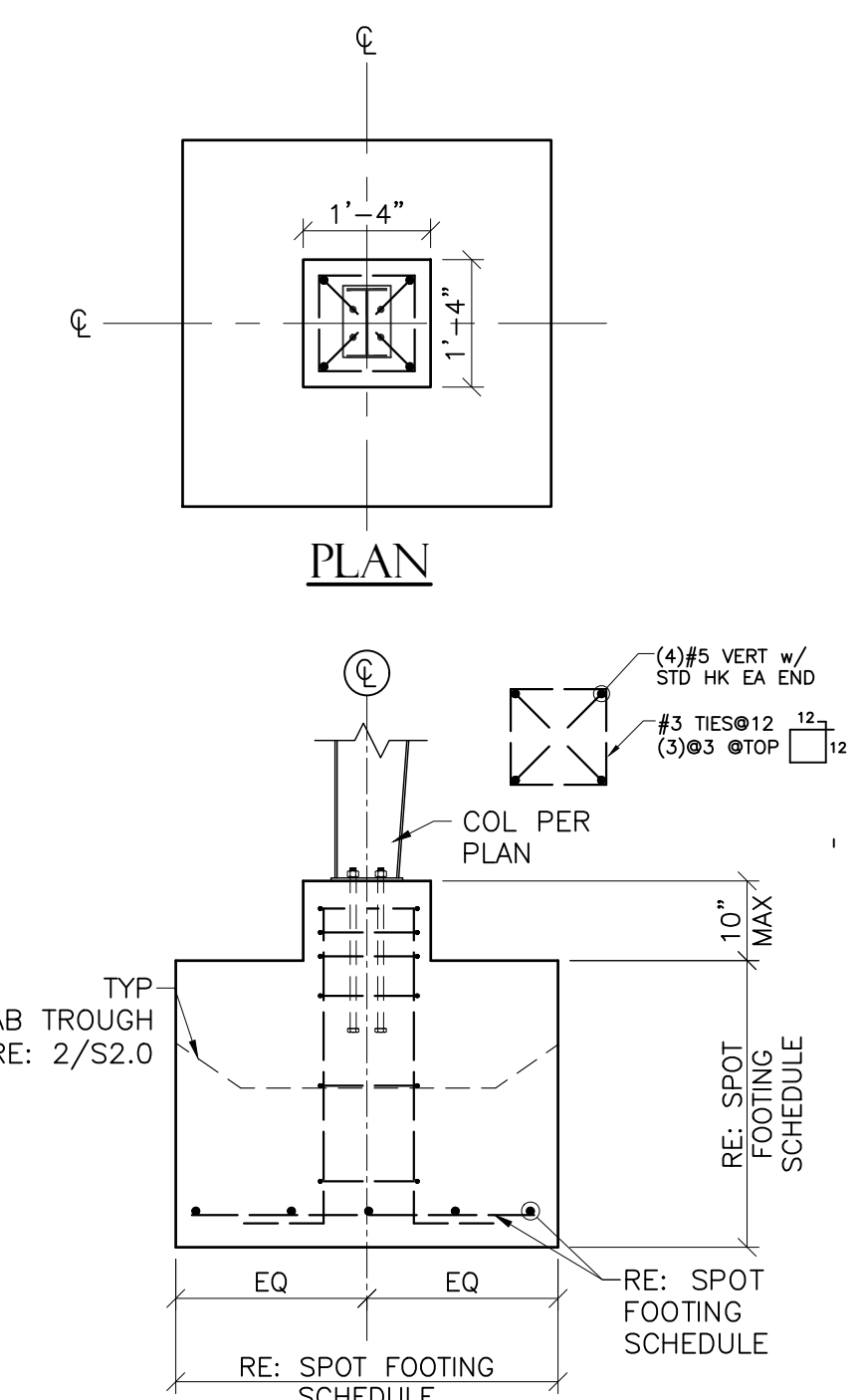
* REFER & VERIFY WITH PRE-ENGINEERED METAL BUILDING PLANS
 ** MAXIMUM PEDESTAL HEIGHT VARIES. CONTRACTOR TO VERIFY FIELD CONDITIONS AND CUT EXCESS ANCHOR BOLT LENGTH TO A MINIMUM 2 1/2" PROJECTION LENGTH ACCORDINGLY.

TYP PEMB ANCHOR BOLT DETAIL
 NOT TO SCALE

AB SHALL BE SET W/ TEMPLATE & CAST W/ MASS FOOTINGS

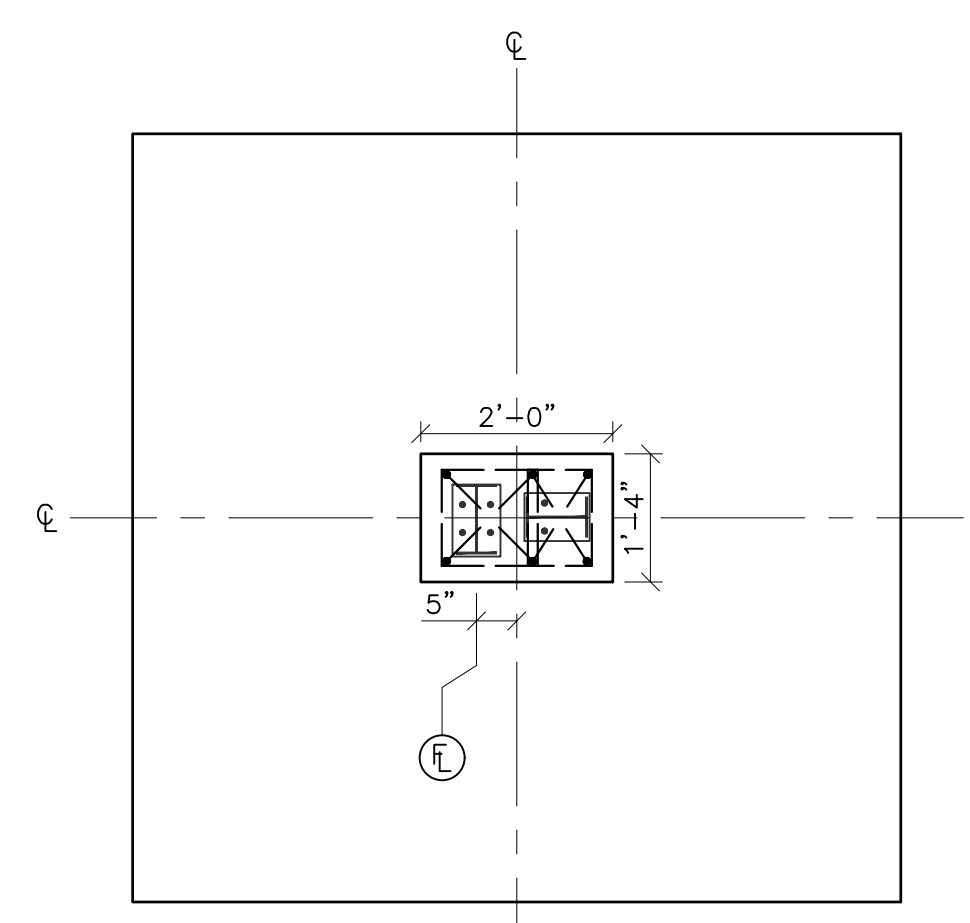


TYP AB TROUGH W/ PIER
 SCALE: 3/4" = 1'-0"

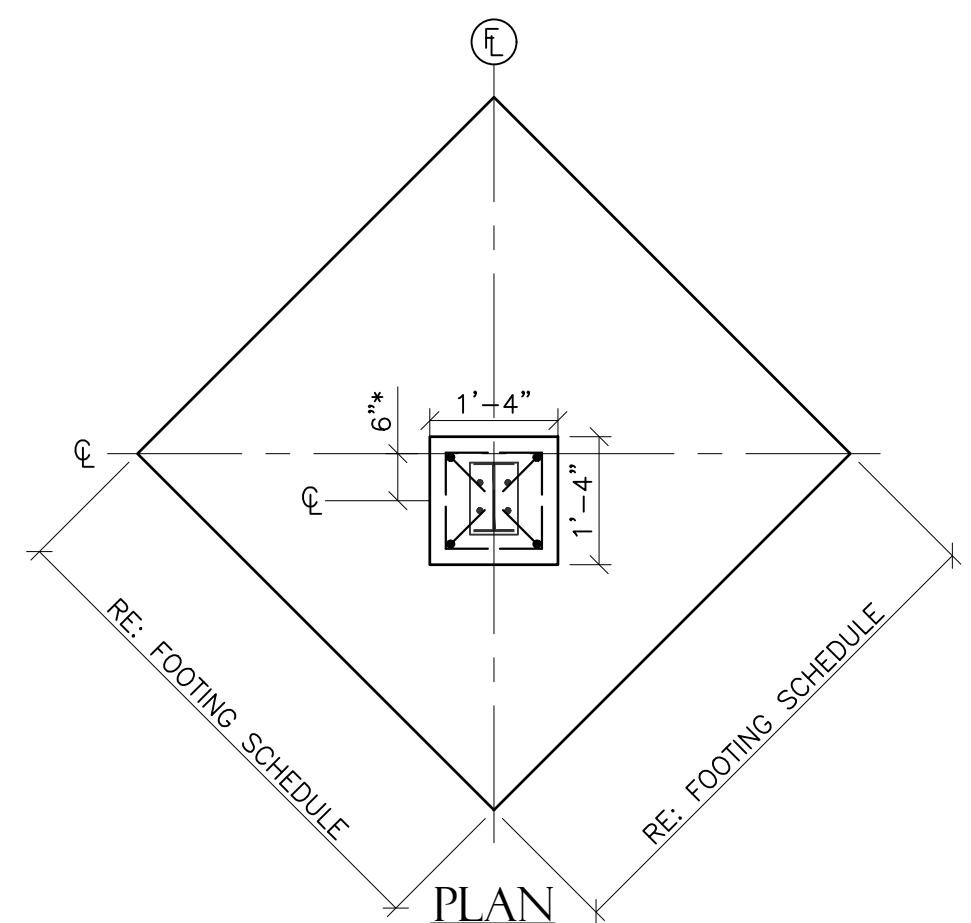


SECTION
 SCALE: 1/2" = 1'-0"
 NOTE: Ⓞ SIM - FOOTING CENTERLINE MAY BE OFFSET FROM COLUMN CENTERLINE A MAXIMUM OF 12" TOWARD FRAME LINE 2

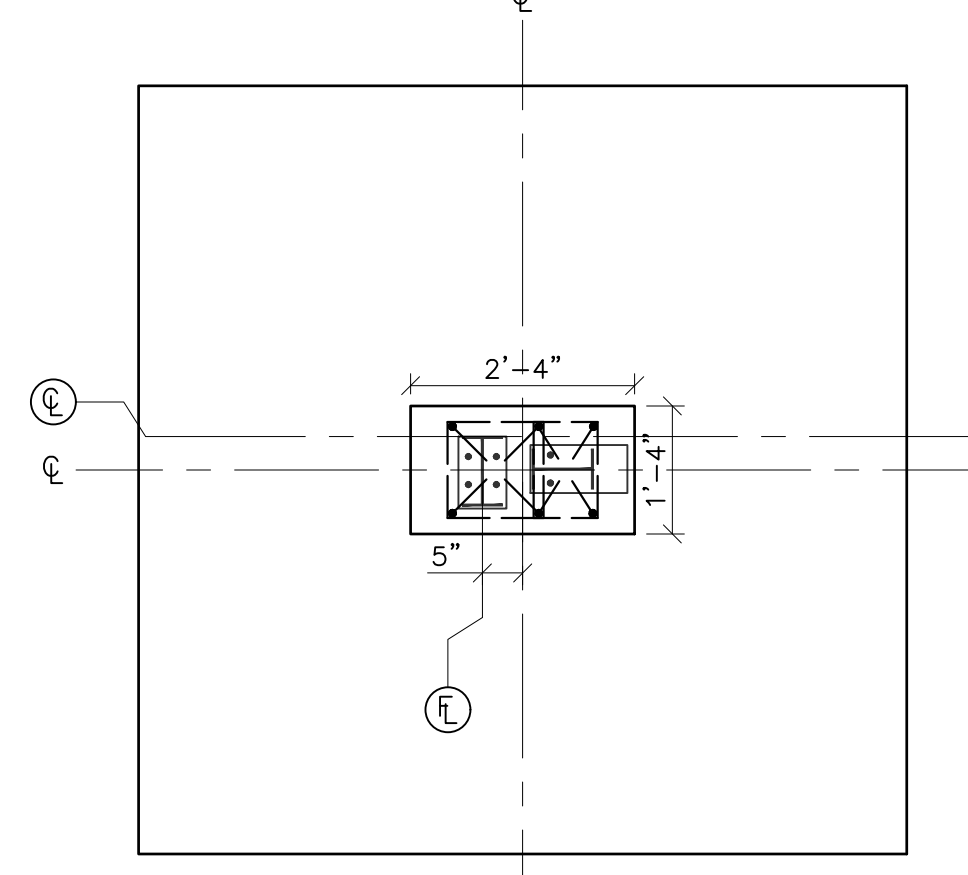
NOTE: CONTRACTOR TO TAKE CARE TO AVOID INTERFERENCE BETWEEN ANCHOR BOLTS AND STEEL REINFORCEMENT HOOKS



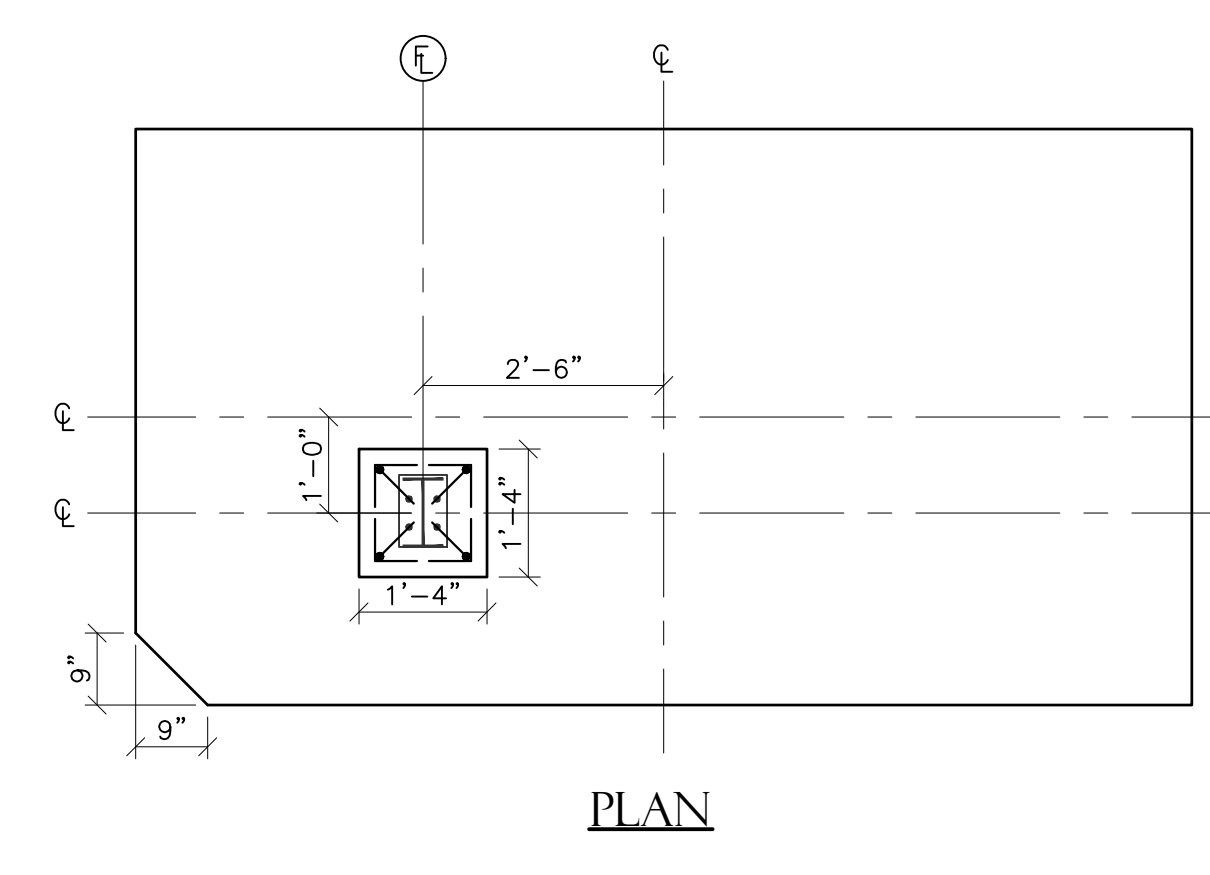
PLAN



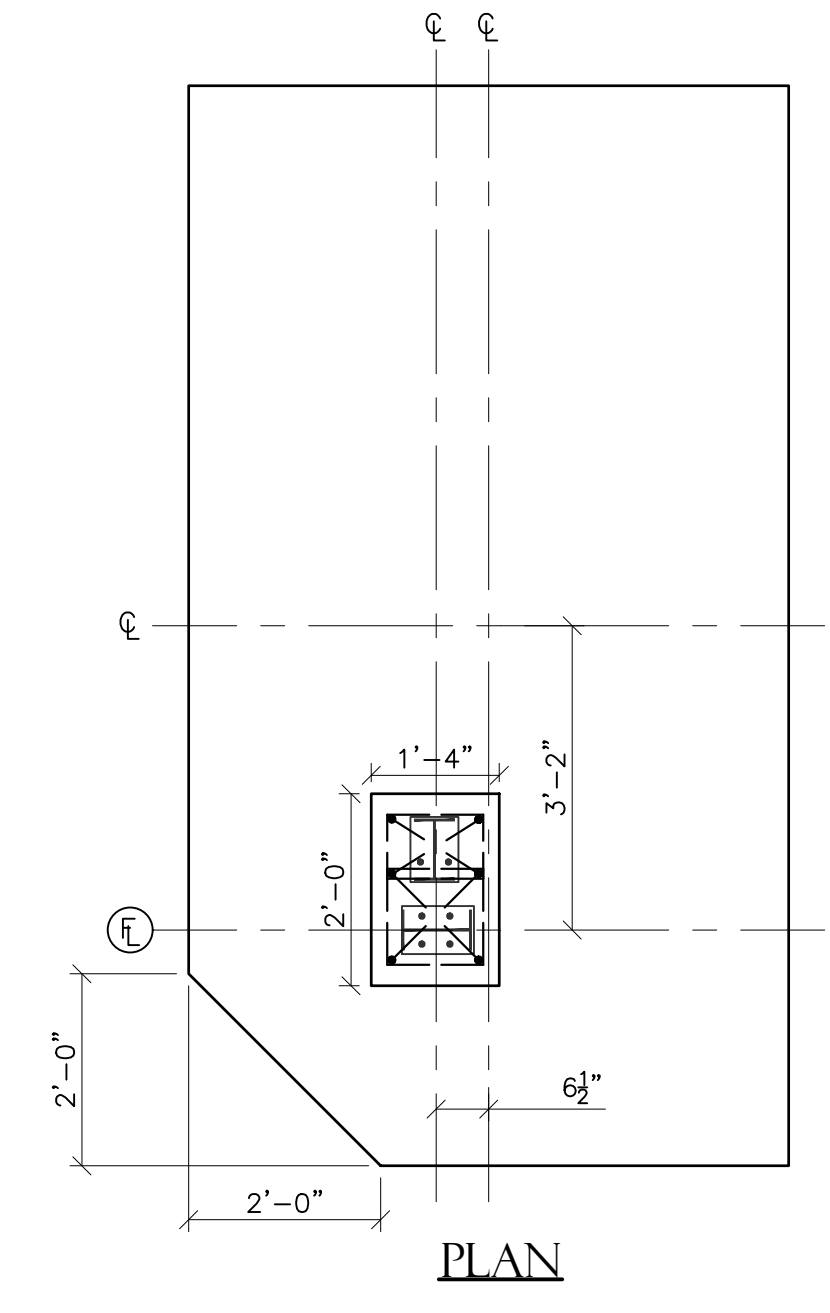
PLAN



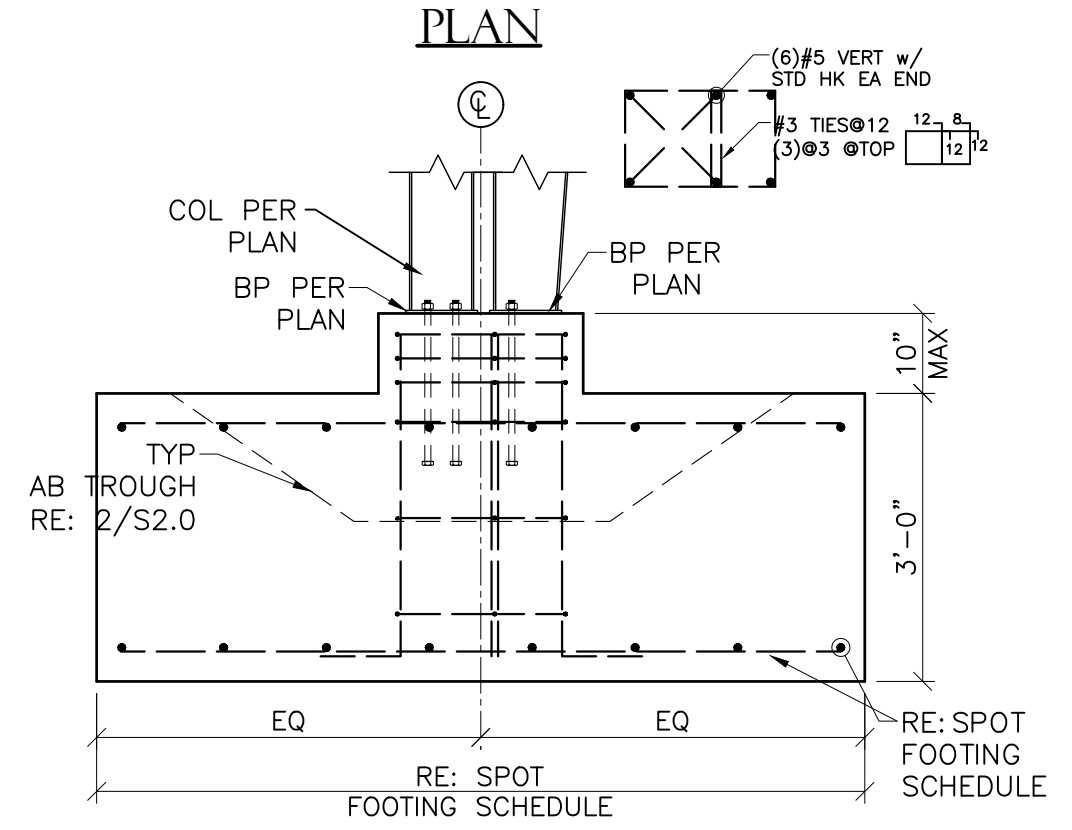
PLAN



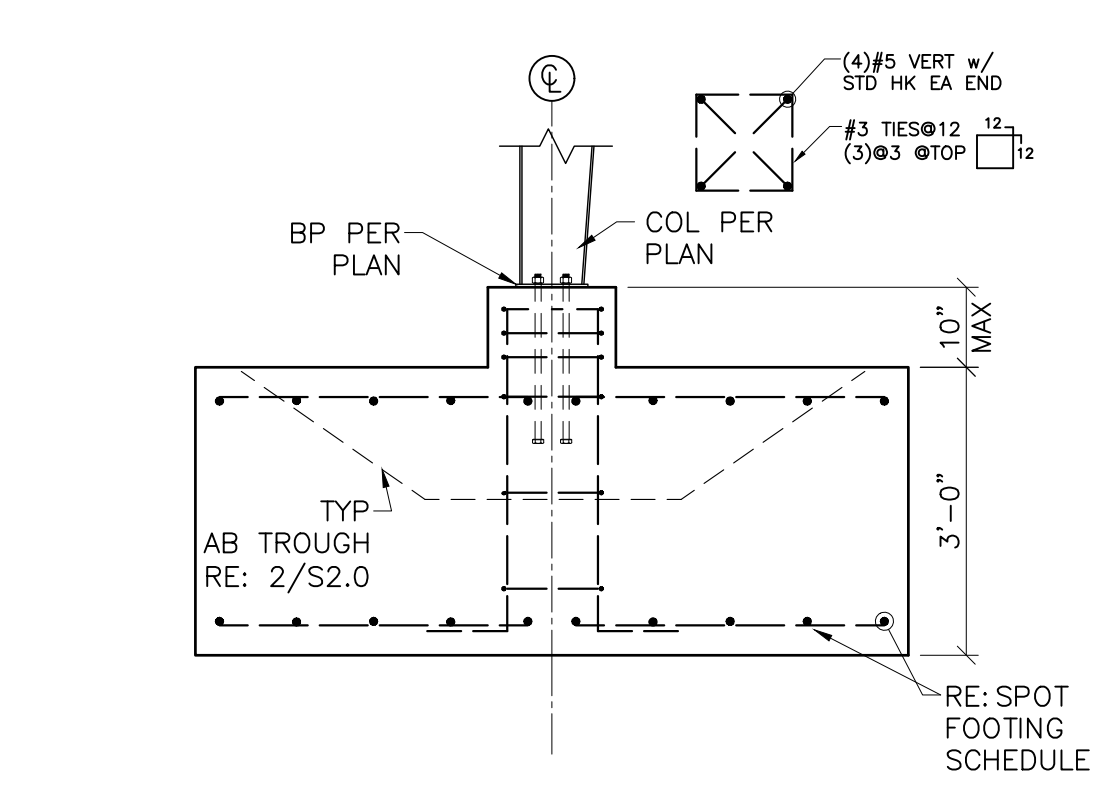
PLAN



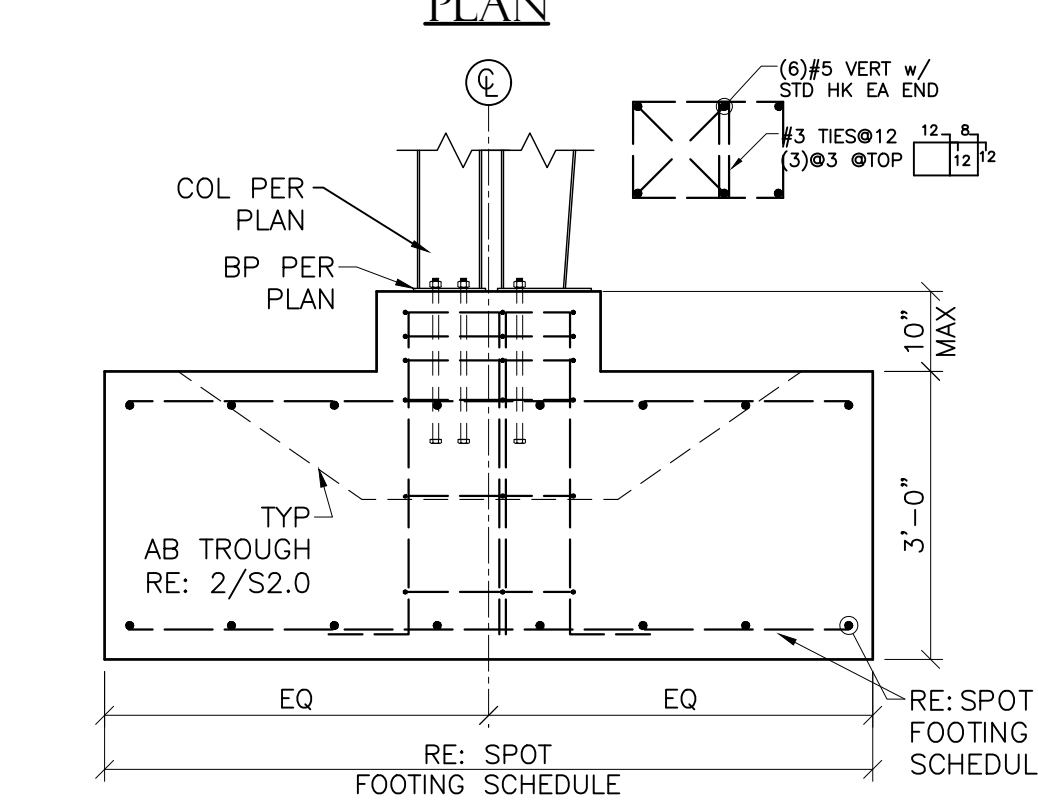
PLAN



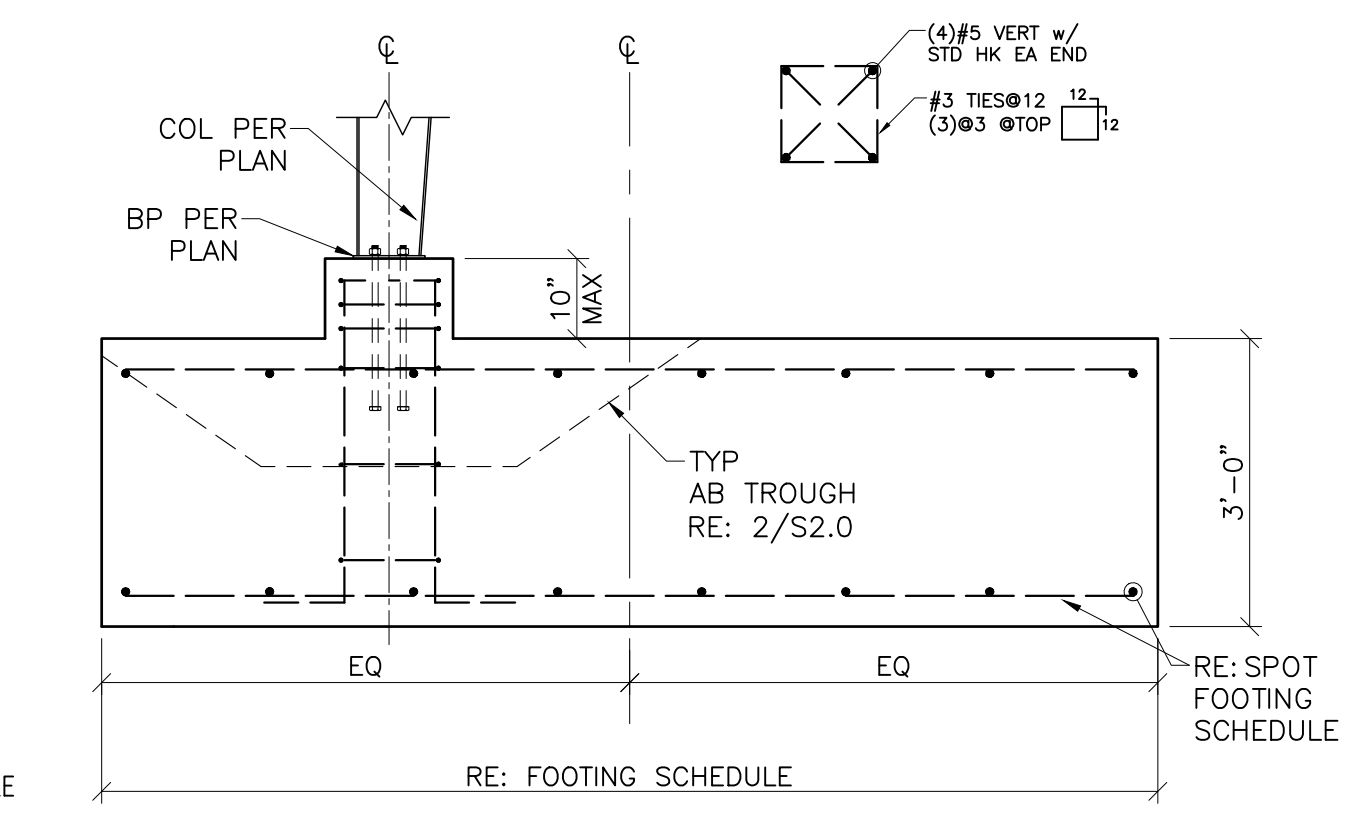
SECTION
 SCALE: 1/2" = 1'-0"



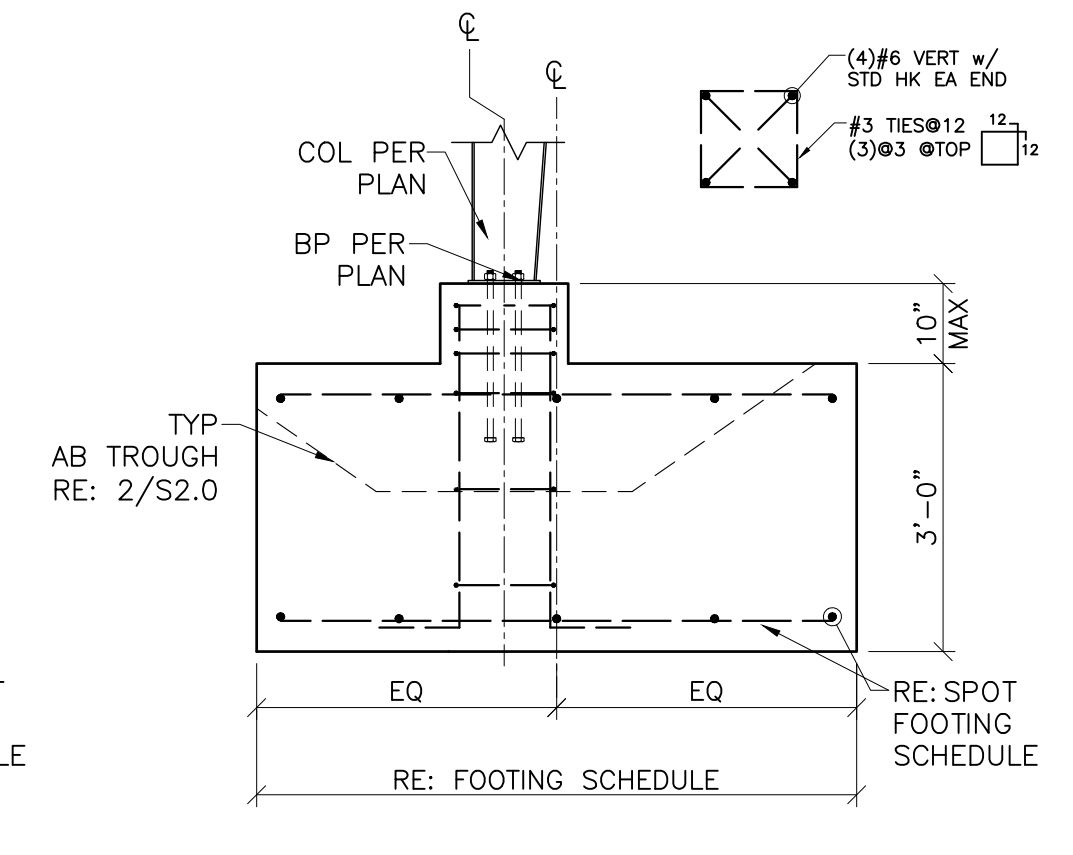
SECTION
 SCALE: 1/2" = 1'-0"
 NOTE: *6" MAX COLUMN CENTERLINE OFFSET FROM FOOTING CENTERLINE ALONG FRAMELINE



SECTION
 SCALE: 1/2" = 1'-0"



SECTION
 SCALE: 1/2" = 1'-0"



SECTION
 SCALE: 1/2" = 1'-0"

CKFF 619 NORTH ROGERS STREET ABILENE, KANSAS	DESIGNER	BEJ	DRAWN BY	CM
	CFN	1616STRU	SHEET	S2.0
DETAILS	PROJ. NO.	A23-1616	REV	0
	DAVID L. VERMETTEN ENGINEER KS # 19823			
2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH: (785) 762-5040 je@kvweng.com www.kvweng.com				
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24.				
REV		DATE	DESCRIPTION	
0	3-27-24	FOR PERMIT	DSN DWN CHK	

STRUCTURAL NOTES:

GENERAL NOTES:

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE OTHER PROJECT DRAWINGS AND SPECIFICATIONS. THE MATERIAL REQUIREMENTS IN THESE NOTES ARE TO BE CONSIDERED AS MINIMUM. SPECIFICATIONS SHALL GOVERN WHEN MORE STRINGENT.

ALL DIMENSIONS ON STRUCTURAL DRAWINGS NEED TO BE CHECKED AGAINST THE PRE-ENGINEERED METAL BUILDING (PEMB) DRAWINGS BY THE GENERAL CONTRACTOR. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. THE CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK.

SEE PEMB DRAWINGS FOR DOOR HEIGHTS AND WALL OPENING DIMENSIONS.

DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS.

THE INFORMATION CONTAINED IN THE STRUCTURAL DRAWINGS IS INCOMPLETE AND VOID UNLESS IT IS USED IN CONJUNCTION WITH ALL CONTRACT DOCUMENTS AND SPECIFICATIONS, STANDARD PRACTICES, CODES, ETC.

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATIONS OF PENETRATIONS AND EMBEDDED ITEMS THROUGH THE STRUCTURE FOR ALL TRADES. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

THESE DOCUMENTS ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR THE REUSE ON EXTENSIONS OF THE PROJECT OR ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY KAW VALLEY ENGINEERING IS PROHIBITED AND WILL BE AT THE SOLE RISK OF OTHERS AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO KAW VALLEY ENGINEERING.

SUBCONTRACTORS SHALL ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND DOCUMENTS, FOR COORDINATION OF VARIOUS TRADES; FABRICATION PROCESSES; CONSTRUCTION TECHNIQUES AND SAFETY CONDITIONS.

KAW VALLEY ENGINEERING SHALL NOT SUPERVISE, DIRECT OR HAVE CONTROL OVER THE CONSTRUCTION WORK. NOR SHALL IT HAVE AUTHORITY OVER OR RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTORS.

THE GENERAL CONTRACTOR, AT HIS EXPENSE, SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT THE SAME IN THE FIELD. ANY OBSERVATION VISITS BY THE FIELD REPRESENTATIVE (ENGINEER) SHALL NOT INCLUDE THE INSPECTION OF THE ITEMS.

ALL LOCAL, STATE AND FEDERAL REGULATIONS AND PROCEDURES REGARDING SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

KAW VALLEY ENGINEERING WAVES ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN INTENT THEY CONVEY, AND FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO OBTAIN AND/OR FOLLOW KAW VALLEY ENGINEERING'S GUIDANCE WITH RESPECT TO ANY OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

WORK REQUIRING SPECIAL INSPECTIONS SHALL BE INSPECTED ACCORDING TO THE BUILDING CODE AND SHALL INCLUDE:
CONCRETE
REINFORCING STEEL

DESIGN CRITERIA:

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF ABILENE.

LOADS AS PROVIDED BY BELHUN MFG. CO. X4313 PLANS DATED 1-24-24

FOUNDATION AND EARTHWORK NOTES:

FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF PER TABLE 1806.2 OF 2018 IBC. FOUNDATIONS SHALL BEAR IN UNDISTURBED SOILS.

FOUNDATIONS FOR PRE-ENGINEERED METAL BUILDING SYSTEMS ARE SUBJECT TO REVISIONS OR CHANGES PENDING THE SUBMITTAL OF THE FINAL BUILDING FOUNDATION LOADS BY THE METAL BUILDING MANUFACTURER. THE PRE-ENGINEERED METAL BUILDING FOUNDATION LOADS SHALL BE SUBMITTED AND REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.

ASSUMED SUBGRADE MODULUS (k) = 150 LB/IN³

IT IS THE RECOMMENDATION OF KAW VALLEY ENGINEERING THAT THE FOUNDATION BEARING MATERIAL SHOULD BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED.

UNUSUAL CONDITIONS OR CHANGES TO THE FOUNDATIONS AS REQUIRED BY FIELD CONDITIONS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

MAINTAIN ALL EXCAVATIONS FREE OF WATER.

CONCRETE NOTES:

PERFORM WORK IN ACCORDANCE WITH ACI 318.

CONCRETE SHALL BE 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED (SELECT PROPORTIONS FOR CONCRETE IN ACCORDANCE WITH ACI 318).

THE WATER/CEMENT RATIO SHALL NOT EXCEED .50 FOR ALL CONCRETE.

UNLESS NOTED OTHERWISE BY THE DESIGNATION "UN-REINFORCED", ALL CONCRETE SHOWN ON THESE PLANS SHALL BE REINFORCED TO THE MINIMUM SPECIFIED AMOUNTS PER ALL APPLICABLE CODES.

REINFORCING STEEL SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.

AGGREGATES SHALL CONFORM TO ASTM C33.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE/THAW CYCLES SHALL BE AIR ENTRAINED, 6%(±) BY VOLUME.

MATERIALS AND ADMIXTURES SHALL NOT CONTAIN CALCIUM CHLORIDE.

SLEEVES, OPENINGS, OR OTHER ATTACHMENTS NOT SHOWN ON DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING CONCRETE.

WELDING (INCLUDING TACK WELDING) OF REINFORCEMENT BARS, ONE TO ANOTHER OR TO OTHER STEEL MEMBERS, IS PROHIBITED EXCEPT WHERE DETAILED OR APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

REINFORCEMENT AND EMBEDMENTS SHALL BE ACCURATELY POSITIONED AND SECURED AGAINST DISPLACEMENT PRIOR TO PLACING CONCRETE. NO STABBING OF REINFORCEMENT INTO FRESH CONCRETE. ADDITIONAL REINFORCEMENT, IN ADDITION TO THAT SHOWN, MAY BE REQUIRED FOR THE PLACEMENT/ POSITIONING OF DETAILED REINFORCEMENT.

MINIMUM TENSION LAP SPLICE LENGTHS AND TENSION DEVELOPMENT LENGTHS SHALL BE AS SCHEDULED, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

MAINTAIN CONCRETE COVER AS SCHEDULED.

REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE.

CONCRETE COVER FOR REINFORCEMENT (ACI 318)	
(UNLESS NOTED OTHERWISE ON THE DRAWINGS)	
LOCATION	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2" 1 1/2"
#6 AND LARGER #5 AND SMALLER	
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:	1 1/2" 3/4" 1 1/2"
SLABS, WALLS, AND JOISTS	
#14 AND LARGER #11 AND SMALLER	
BEAMS AND COLUMNS	1 1/2"

SPLICE & DEVELOPMENT LENGTHS FOR REINFORCEMENT
(UNLESS NOTED OTHERWISE ON THE DRAWINGS)

f_c = 4000 PSI

BAR SIZE	LENGTH OF LAPPED SPLICES FOR REINF (INCHES)		LENGTH OF END ANCHORAGE FOR DEVELOPMENT OF REINFORCEMENT (INCHES)			HOOK LENGTH	BAR SIZE
	TOP BARS*	OTHERS	TOP BARS*	OTHERS	HOOKEED BARS		
3	25	19	19	15	8	6	3
4	33	25	25	19	10	8	4
5	41	31	31	24	12	10	5
6	49	37	37	29	15	12	6
7	71	54	54	42	17	14	7
8	81	62	62	48	19	16	8
9	91	70	70	54	22	20	9
10	102	79	79	61	25	22	10
11	114	87	87	67	27	24	11
14	--	--	105	81	33	31	14
18	--	--	140	108	43	41	18

* TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE CONSIDERED AS TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS.

UNLESS EITHER OF THE FOLLOWING TWO CASES EXIST FOR STRAIGHT BARS, THE DEVELOPMENT OR SPLICE LENGTH FOR STRAIGHT BARS IN THE ABOVE TABLE MUST BE MULTIPLIED BY 1.5:

- I. THE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER, THE CLEAR COVER IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER, AND STIRRUPS OR TIES PROVIDED THROUGHOUT THE DEVELOPMENT OR SPLICE LENGTH MEET OR EXCEED THE CODE MINIMUM.
- II. THE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS GREATER THAN OR EQUAL TO TWO BAR DIAMETERS AND THE CLEAR COVER IS GREATER THAN OR EQUAL TO ONE BAR DIAMETER.

THE DEVELOPMENT LENGTH FOR HOOKED BARS, SIZE 11 AND SMALLER, PLACED WITH SIDE COVER GREATER THAN OR EQUAL TO 2 1/2" AND COVER ON THE BAR EXTENSION BEYOND THE HOOK (90° HOOK ONLY) GREATER THAN OR EQUAL TO 2", MAY BE MULTIPLIED BY 0.7.

VALUES IN THE ABOVE TABLE ARE NOT TO BE USED FOR EPOXY COATED REINFORCING AND/OR REINFORCING PLACED IN CONCRETE CONTAINING LIGHTWEIGHT AGGREGATE.

	DLY	CHK
	CM	DWN
	BEJ	DSN
	FOR PERMIT	DESCRIPTION
	3-27-24	DATE
0	REV	



DAVID L. VERMETTEN
ENGINEER
KS # 19823

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH: (785) 762-5040
je@kaveg.com | www.kaveg.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY KANSAS STATE CERTIFICATE OF AUTHORIZATION # E-113. EXPIRES 12/31/24

CKFF
619 NORTH ROGERS STREET
ABILENE, KANSAS

NOTES

PROJ. NO.	A23-1616
DESIGNER	DRAWN BY
BEJ	CM
CFN	
1616STRU	
SHEET	REV
S3.0	0

Permit #: 2024-078



Please submit this form to:
Community Development
419 N Broadway
785-263-2355
kolson@abilenecityhall.com

APPLICATION FOR SIGN PERMIT

Minimum Permit Fee is \$25.00 up to 25 sq. ft. and \$.20 per sq. ft. thereafter.

Permit Fee: \$ 25.00

Address of Sign Location: 105 N Cedar Abilene, KS 67410

Property Owner: Rachel McKee Address: 404 SE 6th St, Abilene KS 67410

Property Owner Phone #: 785.280.0908 E-mail: rmckee56@outlook.com

Contractor: _____

Contractor Phone #: _____ Email: _____

Check Type of sign:

Wall Sign Projecting Sign Free Standing Roof Sign

Memorial Sign Window Sign Ground Sign Portable

Tablets or Plaques Other (Describe) _____

How many signs: 1 Area of proposed sign(s) (Sq. Ft.) 15

Total Area of Existing Signs (Sq. Ft.) 0

Total (Sq. Ft.) 15

Distance sign projects from wall 60" How is sign secured: bolted to brick

Height between grade line and bottom of sign _____

Width of right-of-way from back of curb to building _____

Size of Sign(s)	1.) Width <u>56"</u>	2.) Width _____	3.) Width _____
	Length <u>36"</u>	Length _____	Length _____
	Depth _____	Depth _____	Depth _____
	Weight <u>50lbs</u>	Weight _____	Weight _____

Footings & Base information for free standing sign(s) _____

Of what material is sign constructed? Aluminum

Is sign illuminated? -If yes, how? No

Do sign obstruct any window or exit? No

ON BACK OF APPLICATION, WRITE MESSAGE & ALL SYMBOLS ON SIGN!

This is to certify that I agree that the provisions of the zoning ordinance, Article 27, will be complied with whether the same are specified herein or not.

Applicant Name: Rachel McKee

Applicant Signature: *Rachel McKee* Date: 4/3/24

Contractor Agent for Contractor Owner Agent for Owner

FOR OFFICE USE ONLY

Total Sq. Ft. of Lot _____ Zoning District _____ Sign Area to Lot Area Ration _____

Allowable Sign Area _____ Approved _____ Disapproved _____

Minimum Permit Fee is \$25.00 up to 25 sq. ft. and \$.20 per sq. ft. thereafter PERMITS FEE _____

City Inspector: _____ Date: _____

