GENERAL NOTES

1. THE SEAL THAT APPEARS ON THESE DRAWINGS IS THE SEAL OF THE ENGINEER FOR THIS BUILDING MANUFACTURER WHO IS NOT THE ENGINEER OF RECORD.
2. 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.
3. 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.
4. FOUNDATIONS MUST BE DESIGNED FOR LOCAL SOIL CONDITIONS BY A QUALIFIED FOUNDATION ENGINEER TO SAFELY SUPPORT COLUMN LOADS.
5. 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.
6. 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.
7. WALL & LINER PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. UNAUTHORIZED REMOVAL OF PANELS IS PROHIBITED.
8. 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.
9. 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.
10. 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 BEHMFO.
11. 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.
12. 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 NFPA 13:9.2.1.3.1. 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.

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

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 OCCURING CONDITION IS OFTEN REFFERED 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 X4405	THICKNESS OVER ZEE X4405A	VAPOR BARRIER FLANGE BR. CLIP	RIGID BOARD
ROOF:			■	0"	3"		
WALL:			■	0"	3"		
THERMAL BLOCKS:	■						

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:	X4405
NAME:	BOONE OFFICE 2024
ADDRESS:	401 SW SISTERS WELCOME RD
CITY, STATE:	LAKE CITY, FLORIDA 32025
BUILDER:	SIMQUE CONSTRUCTION, LLC

PANEL, TRIM AND FRAMING INFORMATION

ROOF PANELS
(K0726)

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

TRIM

RAKE:	GAUGE: 26	COLOR: HAWAIIAN BLUE
EAVE:	GAUGE: 26	COLOR: HAWAIIAN BLUE
GUTTER HIGH CAPACITY:	GAUGE: 26	COLOR: HAWAIIAN BLUE
DOWNSPOUT: (QTY) 15	GAUGE: 26	COLOR: ASH GRAY
HEADER:	GAUGE: 26	COLOR: ASH GRAY
SILL:	GAUGE: 26	COLOR: ASH GRAY
JAMB:	GAUGE: 26	COLOR: ASH GRAY
BASE SEAL:	GAUGE: 26	COLOR: ASH GRAY
CORNER:	GAUGE: 26	COLOR: ASH GRAY

WALL PANELS
(K0726)

TYPE: PBR 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.	GALVANIZED
CLIPS	DARK GRAY PRIMER

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 21

GRAVITY LOAD DATA

ROOF LIVE LOAD (psf,*)	: 20.0
MIN. ROOF SNOW LOAD (psf)	: 0.00
Pg (psf)	: 0.00
Pf (psf)	: 0.0
SNOW IMPORTANCE FACTOR	: 1.00
Ce	: 1.00
Ct	: 1.00
COLLATERAL LOAD (psf)	: 3.0
RAIN ON SNOW (psf)	: 0.00
SNOW DRIFT (psf), WIDTH (ft.)	: N/A

*Reducible

WIND LOAD DATA

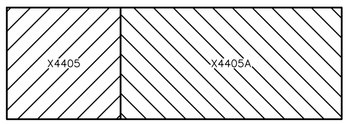
WIND SPEED, V-ult (mph)	: 120
WIND SPEED, V-asd (mph)	: 92.95
WIND EXPOSURE	: C
WIND IMPORTANCE FACTOR	: 1.00
GCpi=	: ±0.18
DESIGN WIND PRESSURE (p,psf)	: N/A
RISK CATEGORY	: II - Normal

EARTHQUAKE LOAD DATA

SITE CLASS	: D
Ss (%,g) : 8.5 Sds:	: 0.091
S1 (%,g) : 5 Sd1:	: 0.080
SEISMIC DESIGN CATEGORY	: B
SEISMIC IMPORTANCE FACTOR	: 1.00
R	: 3.00
Cs	: 0.01
BASIC STRUCTURAL SYSTEM	: SOMF & SOCBF
ANALYSIS PROCEDURE	: Equivalent Lateral Force
BASE SHEAR (Trans, kips)(X4405)	: 0.80
BASE SHEAR (Long), kips)(X4405)	: 0.73
BASE SHEAR (Trans, kips)(X4405A)	: 1.26
BASE SHEAR (Long), kips)(X4405A)	: 1.29

LIVE LOAD DATA

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



KEY PLAN

MEZZANINE LOADING

DEAD LOAD (psf)	: 60.0 (4 INCHES OF CONCRETE)
LIVE LOAD (psf)	: 100.0
COLLATERAL LOAD (psf)	: 3.0
PARTITION LOAD (psf)	: 0.0

5/1/2024, 12:05:39 PM

This document has been electronically sealed and digitally signed by Scott D. Close, 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:
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
(X) FOR APPROVALS
( ) FOR PERMIT ONLY
( ) FOR PRELIMINARY USE ONLY
( ) NOT FOR CONSTRUCTION
( ) FOR REVIEW ONLY

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
A	CHANGED UL90 TO BE "NO"	DW	4-25-24	DANA	4-25-24	SDC	5-1-24		

SCALE : NONE			
DRAWN BY	C.W.QUAIL	DATE	04-10-24
CHECKED BY	CHARLIE	DATE	4-10-2024
APPROVED BY	SDC	DATE	4-11-2024
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

GENERAL INFORMATION

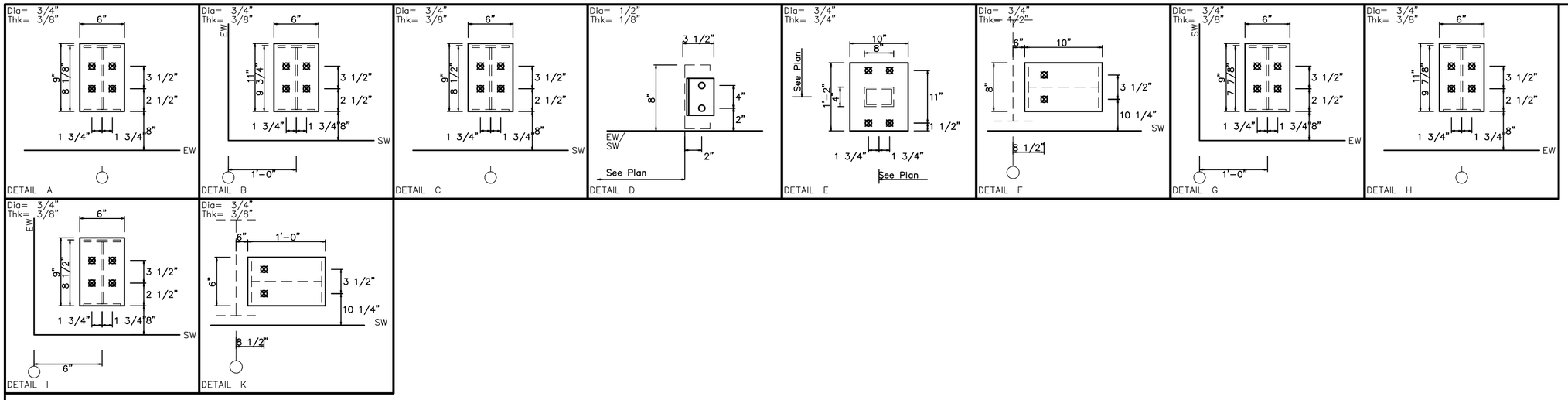
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 1 OF 19

BOONE OFFICE 2024
LAKE CITY, FLORIDA 32025

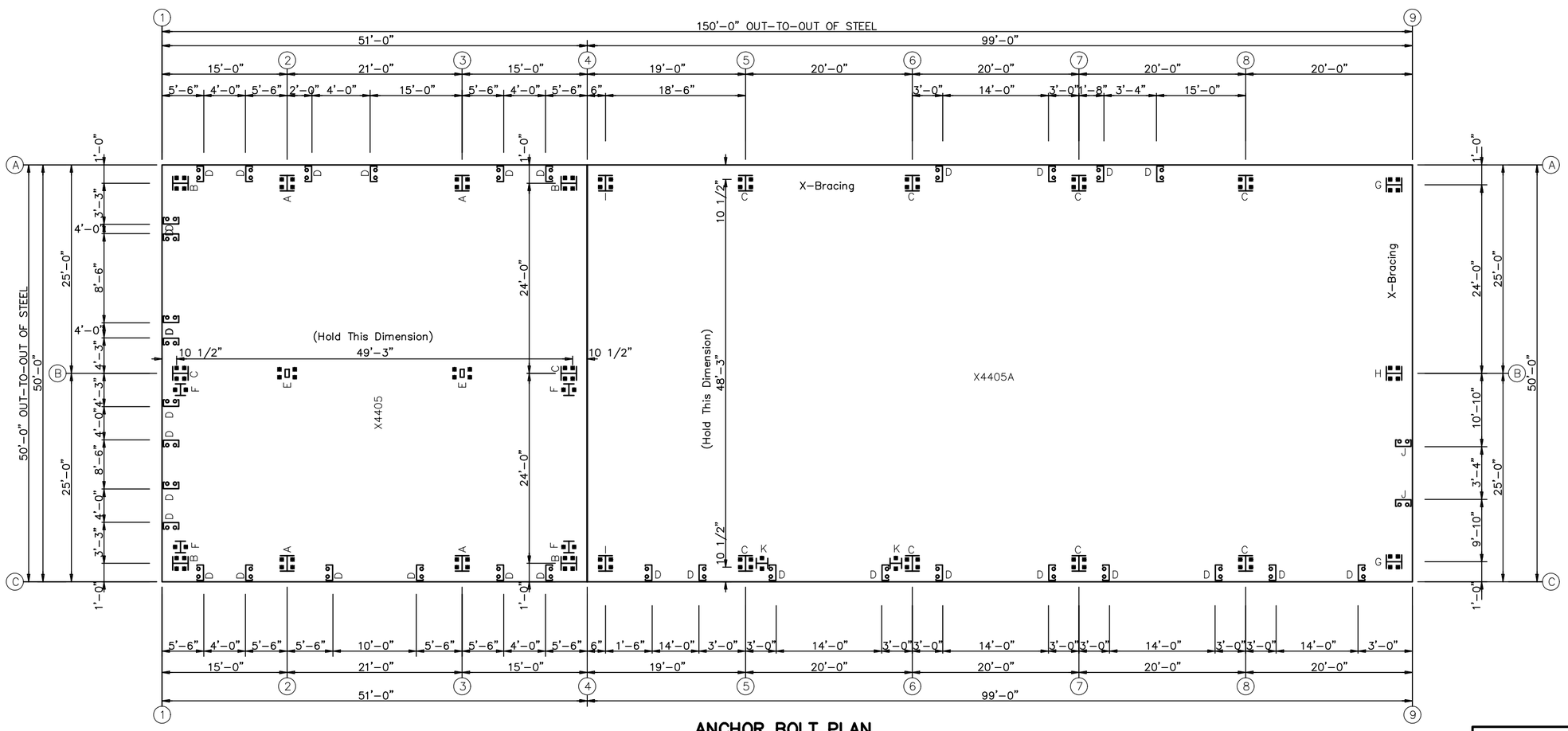
JOB NO. X4405

CWQ



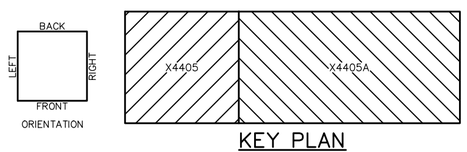
ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Type	Proj (in)
○	72	Jamb	1/2"	F1554	1.00
■	28	Endwall	3/4"	F1554	2.50
■	64	Frame	3/4"	F1554	2.50
■	12	WindCol	3/4"	F1554	2.50
■	8	Floor	3/4"	F1554	2.50



ANCHOR BOLT PLAN

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



KEY PLAN

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
0	FOR CONSTRUCTION	C.W.Q.	4-10-2024	CHARLIE	4-10-2024	SDC	5-1-2024		

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

SCALE : NONE
DRAWN BY C.W.QUAIL DATE 04-10-24
CHECKED BY CHARLIE DATE 4-10-2024
APPROVED BY SDC DATE 4-11-2024
REVIEWED BY DATE

BOONE OFFICE 2024
LAKE CITY, FLORIDA

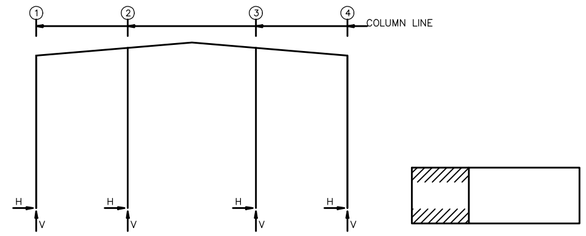
ANCHOR BOLT PLAN

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

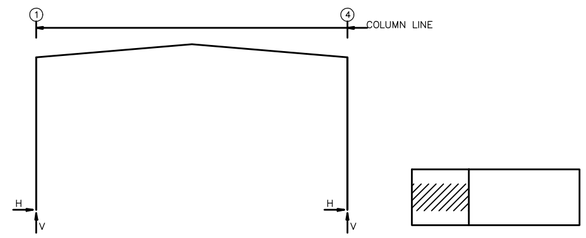
JOB NO. X4405 SHT. 2 OF 19

CWQ

FRAME LINES: C A



FRAME LINES: B



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
C*	1	3	3.1	10.5	10	−3.4	0.6
		7	2.0	20.4	8	−2.6	−0.3
C*	4	11	3.4	0.6	2	−3.1	10.5
		6	−2.0	20.4	9	2.6	−0.3
C*	2	1	0.1	39.4			
C*	3	1	−0.1	39.4	1	−0.1	39.4

C* Frame lines: C A

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
B	1	5	5.8	29.0	10	−6.5	−0.4
		13	4.0	33.9	8	−5.7	−5.3
B	4	11	6.5	−0.5	4	−5.8	28.5
		12	−4.0	33.5	9	5.7	−5.4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Floor Horiz	Floor Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
C*	1	0.1	7.9	0.0	0.6	0.1	1.6	0.2	11.3	−4.5	−8.5	5.0	3.3
C*	4	−0.1	7.9	0.0	0.6	−0.1	1.6	−0.2	11.3	−5.0	3.3	4.5	−8.5
C*	2	0.0	15.4	0.0	1.4	0.0	5.0	0.0	22.6	0.0	−1.8	0.0	−12.1
C*	3	0.0	15.4	0.0	1.4	0.0	5.0	0.0	22.6	0.0	−12.1	0.0	−1.8

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
C*	1	−5.8	−6.9	3.6	4.9	2.6	−3.9	2.2	−3.5	−0.1	−0.2	0.1	0.2
C*	4	−3.6	4.9	5.8	−6.9	−2.2	−3.5	−2.6	−3.9	−0.1	0.2	0.1	−0.2
C*	2	0.0	0.1	0.0	−10.2	0.0	−8.0	0.0	−3.6	0.0	0.3	0.0	−0.3
C*	3	0.0	−10.2	0.0	0.1	0.0	−3.6	0.0	−8.0	0.0	−0.3	0.0	0.3

Frame Line	Column Line	F1PAT_LL_1 Horiz	F1PAT_LL_1 Vert	F1PAT_LL_2 Horiz	F1PAT_LL_2 Vert	F1PAT_LL_3 Horiz	F1PAT_LL_3 Vert	F1PAT_LL_4 Horiz	F1PAT_LL_4 Vert	F1PAT_LL_5 Horiz	F1PAT_LL_5 Vert
C*	1	0.0	1.2	0.0	−0.4	0.0	0.1	0.0	0.8	0.0	−0.3
C*	4	0.0	0.1	0.0	−0.4	0.0	1.2	0.0	−0.3	0.0	0.8
C*	2	0.0	1.2	0.0	2.0	0.0	−0.2	0.0	3.2	0.0	1.8
C*	3	0.0	−0.2	0.0	2.0	0.0	1.2	0.0	1.8	0.0	3.2

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Floor Horiz	Floor Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
B	1	1.0	12.5	0.7	2.8	2.5	9.2	0.5	15.3	−10.4	−21.3	4.2	−10.5
B	4	−1.0	12.3	−0.7	2.8	−2.5	9.2	−0.5	15.0	−4.1	−10.5	10.4	−21.3

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
B	1	−11.8	−13.2	2.8	−2.4	2.2	−17.5	1.6	−14.4	−0.2	−0.2	0.2	0.2
B	4	−2.8	−2.4	11.8	−13.2	−1.6	−14.4	−2.2	−17.5	−0.2	0.2	0.2	−0.2

C* Frame lines: C A

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
C	2 *	14	3.7	4.3	15	−3.4	4.8
		1	0.0	39.7			
C	3 *	16	3.7	4.3	17	−3.4	4.8
		1	0.0	39.7			
A	3 *	14	3.7	4.2	15	−3.4	4.7
		1	0.0	39.5			
A	2 *	16	3.7	4.2	17	−3.4	4.7
		1	0.0	39.5			

*See Rigid Frame Interior Column Reactions

LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+Floor_Live
2	Dead+Collateral+0.6Wind_Left1
3	Dead+Collateral+0.6Wind_Right1
4	Dead+Collateral+0.75Live+0.45Wind_Left1+0.75Floor_Live
5	Dead+Collateral+0.75Live+0.45Wind_Right1+0.75Floor_Live
6	Dead+Collateral+0.75Live+0.45Wind_Left2+0.75Floor_Live
7	Dead+Collateral+0.75Live+0.45Wind_Right2+0.75Floor_Live
8	0.6Dead+0.6Wind_Left1
9	0.6Dead+0.6Wind_Right1
10	0.6Dead+0.6Wind_Left2
11	0.6Dead+0.6Wind_Right2
12	1.01Dead+1.01Collateral+0.75Live+0.52Seismic_Left+0.75Floor_Live
13	1.01Dead+1.01Collateral+0.75Live+0.52Seismic_Right+0.75Floor_Live
14	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
15	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
16	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
17	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L

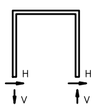
BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis	Note
L_EW	C								(h)
F_SW	4	C,B							(a)
R_EW	A								(h)
B_SW	1	C,B							(a)

(a)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

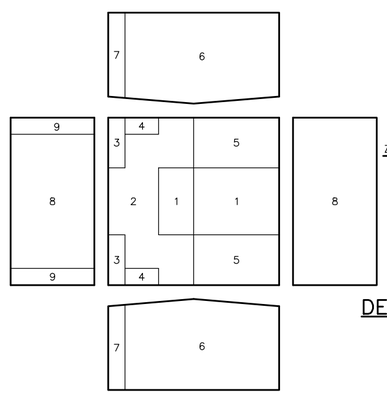


Wall Loc	Wall Line	Col Line	Wind(k) Horz	Wind(k) Vert	Seismic(k) Horz	Seismic(k) Vert	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Thick
F_SW	4	C	3.7	7.7	0.2	0.4	2	0.750	8.000	10.000	0.500
F_SW	4	B	3.7	7.7	0.2	0.4	2	0.750	8.000	10.000	0.500
B_SW	1	B	3.7	7.7	0.2	0.4	2	0.750	8.000	10.000	0.500
B_SW	1	C	3.7	7.7	0.2	0.4	2	0.750	8.000	10.000	0.500

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

FLOOR COLUMN REACTIONS

Frame Line	Col Line	Max_Vert Ld	Max_Vert (k)	Dead Vert (k)	Coll Vert (k)	Live Vert (k)	Anc._Bolt Qty	Anc._Bolt Dia	Base Plate (in) Width	Base Plate (in) Length	Base Plate (in) Thick	Base Elev (in)
B	2	1	78.3	29.3	1.4	47.7	4	0.750	10.00	14.00	0.750	0.0
B	3	1	78.3	29.3	1.4	47.7	4	0.750	10.00	14.00	0.750	0.0



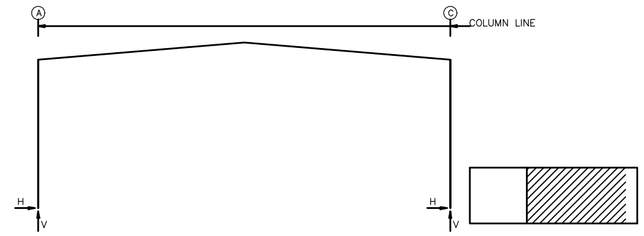
COMPONENTS & CLADDING UNFACTORED

ZONE	WIDTH (FT)	LENGTH (FT)	PRESSURE(PSF) MEMBER	PRESSURE(PSF) PANEL	SUCTION(PSF) MEMBER	SUCTION(PSF) PANEL
1			16.00	16.00	−39.47	−55.04
2	15.00	15.00	16.00	16.00	−52.53	−72.75
3	5.00	15.00	16.00	16.00	−58.52	−99.00
4	10.00	5.00	16.00	16.00	−58.52	−99.00
5		15.00	16.00	16.00	−52.53	−72.75
6			26.39	31.63	−29.03	−34.26
7	5.00		26.39	31.63	−31.64	−42.14
8			26.40	31.60	−29.00	−43.30
9	5.00		26.40	31.60	−31.61	−42.19

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

DESIGN CALCULATION WIND

FRAME LINES: 4 5 6 7 8



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
4	A	3	1.6	2.3	6	−2.3	−2.8
		1	1.6	5.4	4	−2.3	−4.3
4	C	7	2.3	−2.8	2	−1.6	2.3
		1	−1.6	5.4	5	2.3	−4.3

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
5*	A	1	3.6	9.3	4	−3.5	−6.1
					8	−0.1	−7.7
5*	C	5	3.5	−6.1	1	−3.6	9.3
		1	−3.6	9.3	5	3.5	−6.1

5* Frame lines: 5 6 7 8

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert
4	A	0.3	1.2	0.2	0.7	1.0	3.5	−4.1	−8.3	0.6	−4.8	−4.2	−5.9
4	C	−0.3	1.2	−0.2	0.7	−1.0	3.5	−0.6	−4.8	4.1	−8.3	−0.5	−2.4
5*	A	0.6	1.8	0.6	1.5	2.4	6.0	−6.5	−12.0	0.0	−7.4	−6.2	−7.1
5*	C	−0.6	1.8	−0.6	1.5	−2.4	6.0	0.0	−7.4	6.5	−12.0	−0.2	−2.5

Frame Line	Column Line	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
4	A	0.5	−2.4	−0.4	−7.4	−0.7	−5.7	−0.1	0.0	0.1	0.0	0.0	0.0
4	C	4.2	−5.9	0.7	−5.7	0.4	−7.4	−0.1	0.0	0.1	0.0	0.0	0.0
5*	A	0.2	−2.5	−0.7	−14.6	−1.1	−12.6	−0.1	−0.1	0.1	0.1	0.0	−0.5
5*	C	6.2	−7.1	1.1	−8.7	0.7	−10.7	−0.1	0.1	0.1	−0.1	0.0	0.0

5* Frame lines: 5 6 7 8

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
9	C	9	1.3	−1.9	10	−1.2	−1.9
		1	0.0	2.8	9	1.3	−1.9
9	B	11	4.5	−5.8	12	−4.1	−3.8
		1	0.0	8.5	11	4.5	−5.8
9	A	13	1.3	−3.4	12	−1.2	−1.7
		14	1.0	3.4	13	1.3	−3.4

LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+Live
2	Dead+Collateral+0.75Live+0.45Wind_Left1
3	Dead+Collateral+0.75Live+0.45Wind_Right1
4	0.6Dead+0.6Wind_Left1
5	0.6Dead+0.6Wind_Right1
6	0.6Dead+0.6Wind_Left2
7	0.6Dead+0.6Wind_Right2
8	0.6Dead+0.6Wind_Long1L
9	0.6Dead+0.6Wind_Suction+0.6Wind_Long1L
10	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L
11	0.6Dead+0.6Wind_Left1+0.6Wind_Suction
12	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
13	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
14	Dead+Collateral+0.75Live+0.45Wind_Left2+0.45Wind_Suction

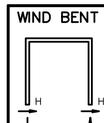
BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Panel_Shear (lb/ft) Seis	Note
L_EW	4								(h)
F_SW	C	5,6							(a)
R_EW	9	B,A	3.7	2.8	0.2	0.1			
B_SW	A	6,5	4.9	3.8	0.6	0.5			

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

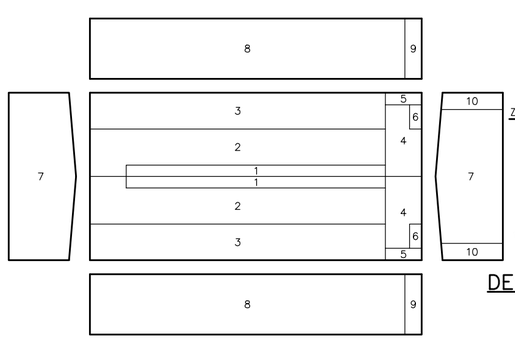
REACTION VALUES SHOWN ARE UNFACTORED.
MAXIMUM LOAD COMBINATION FACTORS ARE:
WIND : 0.60
SEISMIC : 0.70

WIND BENT REACTIONS



Wall Loc	Wall Line	Col Line	Wind(k) Horz	Wind(k) Vert	Seismic(k) Horz	Seismic(k) Vert	Bolt(in) Qty	Bolt(in) Dia	Base_Plate(in) Width	Base_Plate(in) Length	Thick
F_SW	C	5	2.5	4.5	0.3	0.6	2	0.750	6.000	12.000	0.375
F_SW	C	6	2.5	4.5	0.3	0.6	2	0.750	6.000	12.000	0.375

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

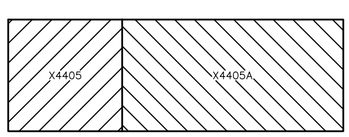


COMPONENTS & CLADDING UNFACTORED

ZONE	WIDTH (FT)	LENGTH (FT)	PRESSURE(PSF) MEMBER	PRESSURE(PSF) PANEL	SUCTION(PSF) MEMBER	SUCTION(PSF) PANEL
1			16.00	16.00	−25.48	−29.61
2	10.80	10.80	16.00	16.00	−36.95	−51.52
3	10.80		16.00	16.00	−49.18	−68.10
4		10.80	16.00	16.00	−49.18	−68.10
5	3.60	10.80	16.00	16.00	−54.78	−92.68
6	7.20	3.60	16.00	16.00	−54.78	−92.68
7			24.71	29.61	−27.18	−32.07
8			24.70	29.60	−27.20	−32.10
9	5.00		24.70	29.60	−29.65	−39.48
10	5.00		24.71	29.61	−29.63	−39.45

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

DESIGN CALCULATION WIND



KEY PLAN

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
0	FOR CONSTRUCTION	C.W.Q.	4-10-2024	CHARLIE	4-10-2024	SDC	5-1-2024		

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

SCALE : NONE
DRAWN BY C.W.QUAIL DATE 04-10-24
CHECKED BY CHARLIE DATE 4-10-2024
APPROVED BY SDC DATE 4-11-2024
REVIEWED BY DATE

BOONE OFFICE 2024
LAKE CITY, FLORIDA

ANCHOR BOLT REACTIONS

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 3 OF 19

CWQ

WALL FRAMED OPENINGS

* TYPE OF OPENING

OHD = OVERHEAD DOOR
RU = ROLL-UP
OWS = ONE WAY SLIDE
TWS = TWO WAY SLIDE
SF = STORE FRONT
BF = BI-FOLD/HYDRAULIC
WK = WALK DOOR
FOS = FRAMED OPENING W/ SILL

PLAN I.D.	QTY	SIZE (WIDTH X HEIGHT)	SILL HEIGHT (IF REQUIRED)	TYPE OF OPENING *	LOCATION SW, EW OR PW	JAMB COVER	TORSION SPRING SUPPORT	OTHER INFORMATION
A	7	4'-0 X 4'-0	15'-2	FOS	SW & EW			
B	9	4-0 X 4'-0	3'-2	FOS	SW & EW			
C	ONE	10'-0 X 9'-0		SF	EW			
D	ONE	10'-0 X 4'-0	15'-2	FOS	EW			
E	ONE	3'-4 X 7'-2	12'-0	WK	EW			
F	2	3'-4 X 7'-2		WK	SW			
	6	14'-0 X 14'-0		RU	SW			

NOTES:

1. FOR BUILDINGS DESIGNED AS ENCLOSED, ALL WINDOWS, DOORS, AND LOUVERS SHALL BE RATED TO COMPLY WITH THE WIND DESIGN CRITERIA IDENTIFIED ON SHEET 1 OF THESE PLANS.
2. ALL FIELD LOCATED FRAMED OPENINGS WILL REQUIRE FIELD CUTTING OF GIRTS, PURLINS, AND SHEETING.

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

"X" DENOTES OPTION SUPPLIED BY BUILDING MANUFACTURER

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

SCALE : NONE

DRAWN BY	D. WURDINGER	DATE	4-30-24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

BUILDING ACCESSORIES

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

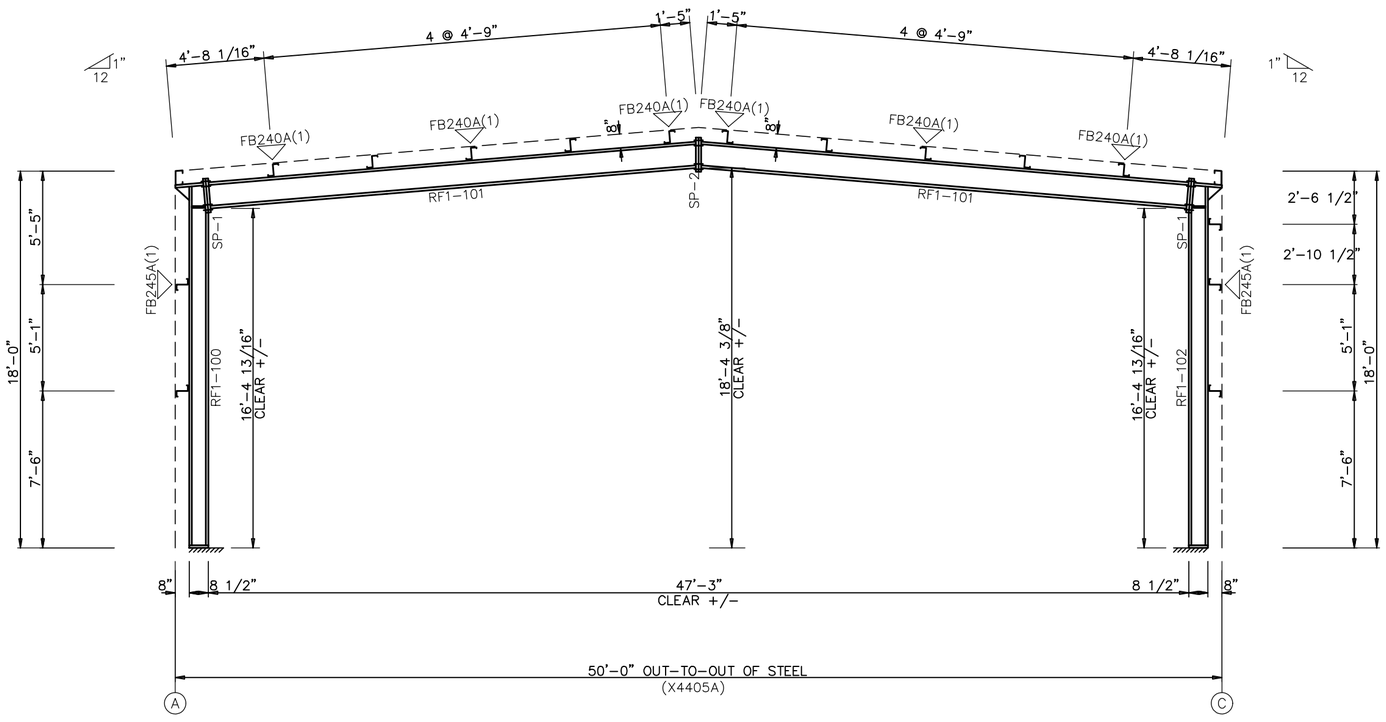
JOB NO. X4405

SHT. 4 OF 19

G:\JOBS\X4405\ACC

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
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"	1/2"	1'-6 7/8"

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



RIGID FRAME ELEVATION: FRAME LINE 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)

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

RIGID FRAME ELEVATION

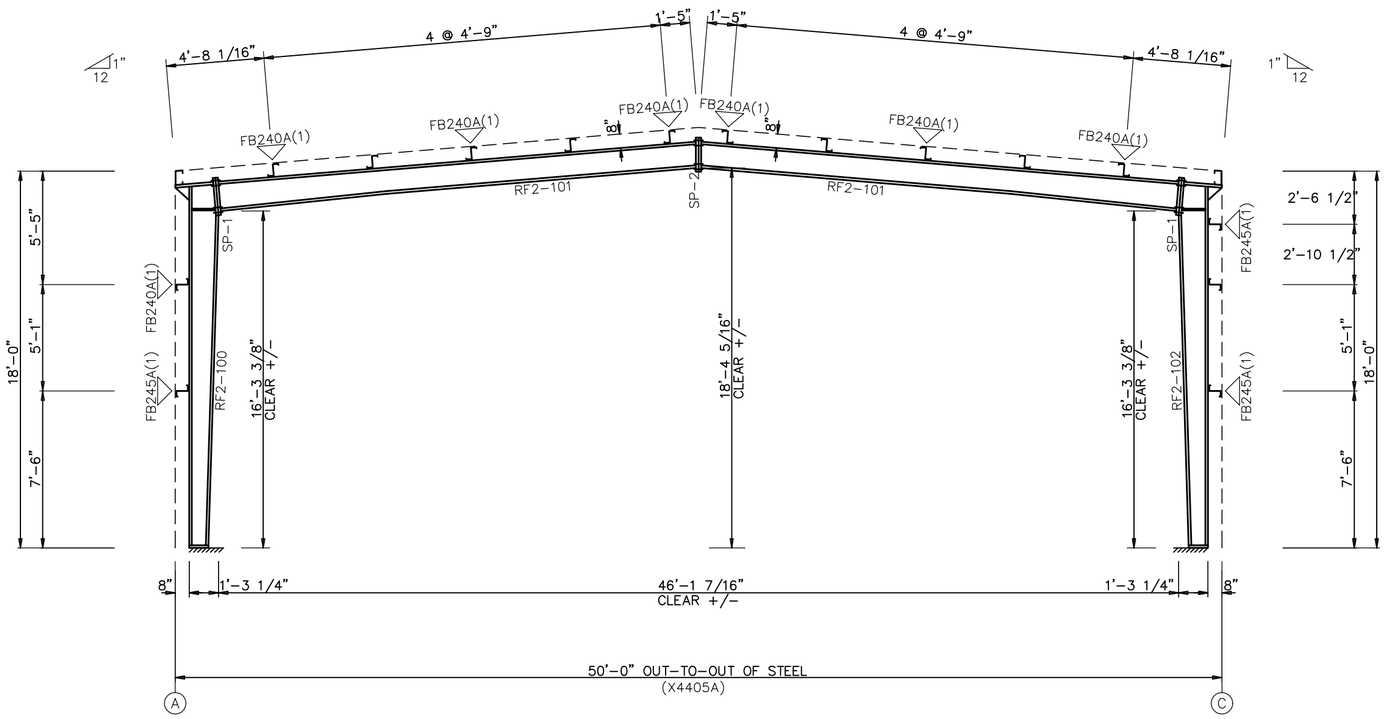
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 5 OF 19

G:\JOBS\X4405\RFDWG1

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

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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

RIGID FRAME ELEVATION

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 6 OF 19

G:\JOBS\X4405\RFDWG2

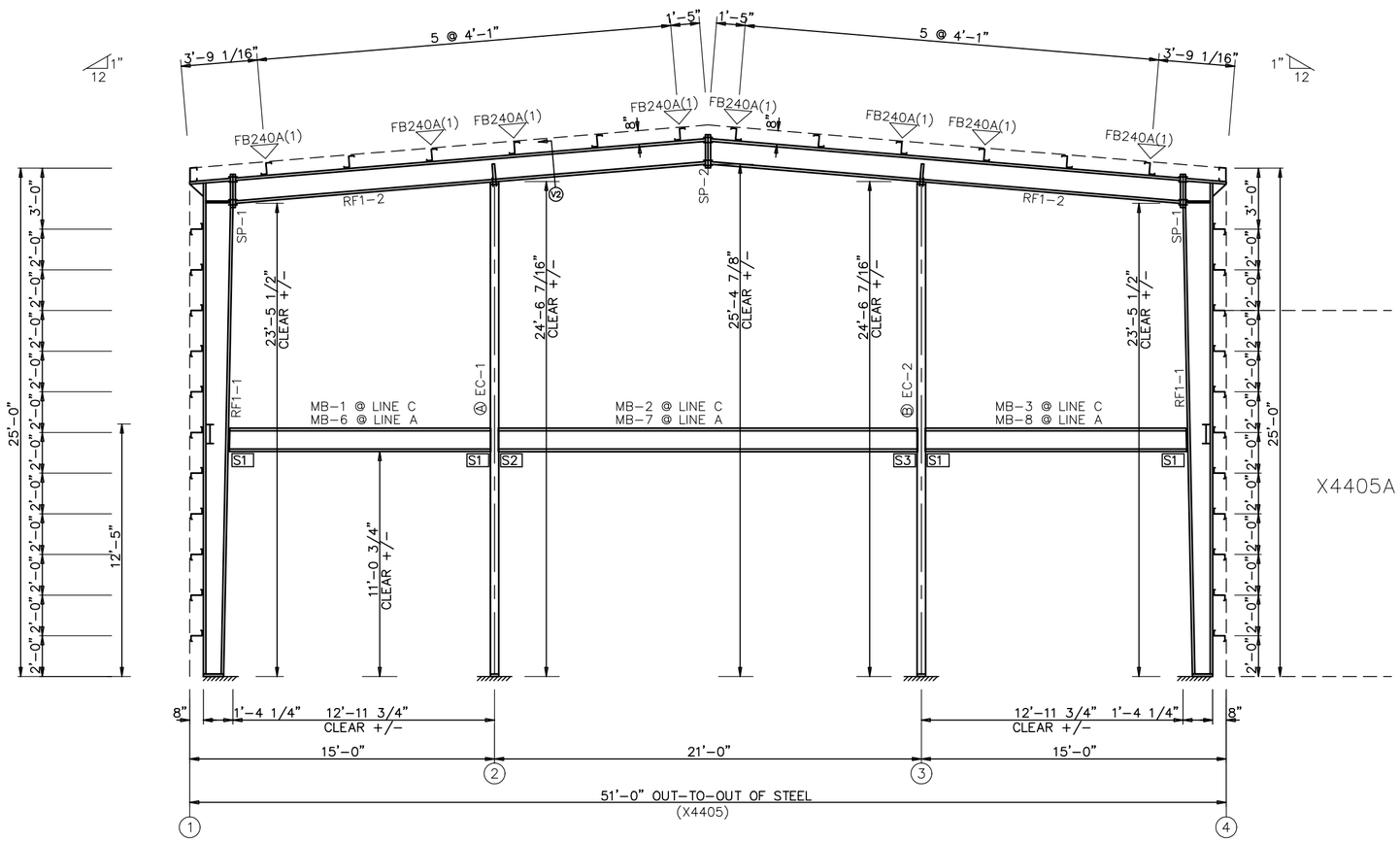
SPLICE PLATE & BOLT TABLE											
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length		
SP-1	4	4	0	A325	0.750	2.50	6"	1/2"	1'-6 7/8"		
SP-2	4	4	0	A325	0.750	2.50	5"	3/8"	1'-6 7/8"		

CAP PLATE BOLTS				
Mark	Qty	Type	Dia	Length
EC-1	4	A325	0.500	1.50
EC-2	4	A325	0.500	1.50

SUPPORT BEAM BOLT TABLE				
OID	Qty	Type	Dia	Length
S1	9	A325	0.750	2.50
S2	9	A325	0.750	2.50
S3	9	A325	0.750	2.50

ALTERNATE MEMBER		
Frame Line	OID	Mark
A	A	EC-2
	B	EC-1

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



RIGID FRAME ELEVATION: FRAME LINES A & C

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)

SCOTT D. CLOSE
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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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

RIGID FRAME ELEVATION

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 7 OF 19

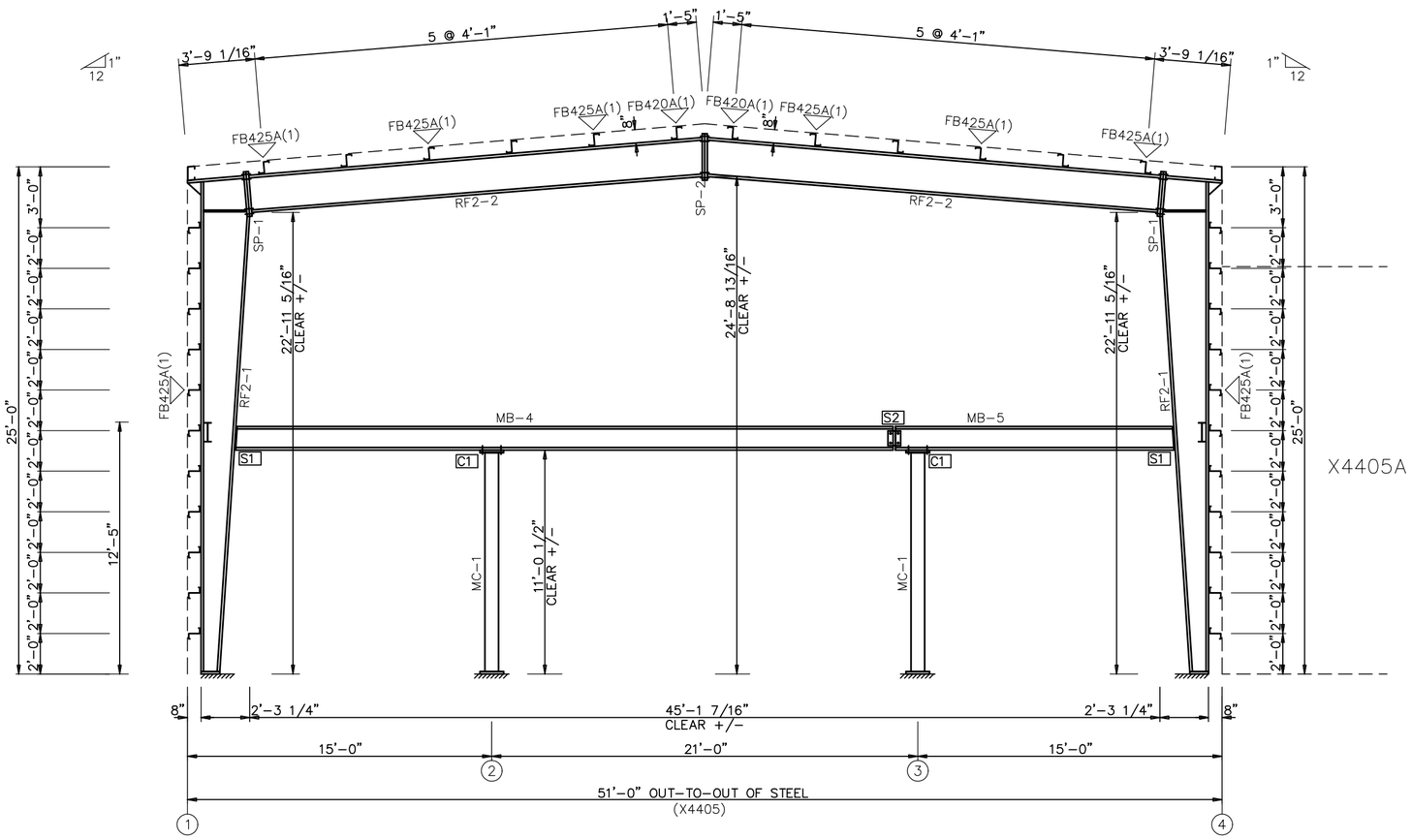
G:\JOBS\X4405\RFDWG3

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
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	6"	1/2"	2'-2 7/8"

SUPPORT BEAM BOLT TABLE				
☐ID	Qty	Type	Dia	Length
S1	6	A325	0.750	2.50
S2	4	A325	0.750	2.50

SUPPORT COLUMN BOLT TABLE				
☐ID	Qty	Type	Dia	Length
C1	4	A325	0.500	2.00

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



RIGID FRAME ELEVATION: FRAME LINE B

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)

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

RIGID FRAME ELEVATION

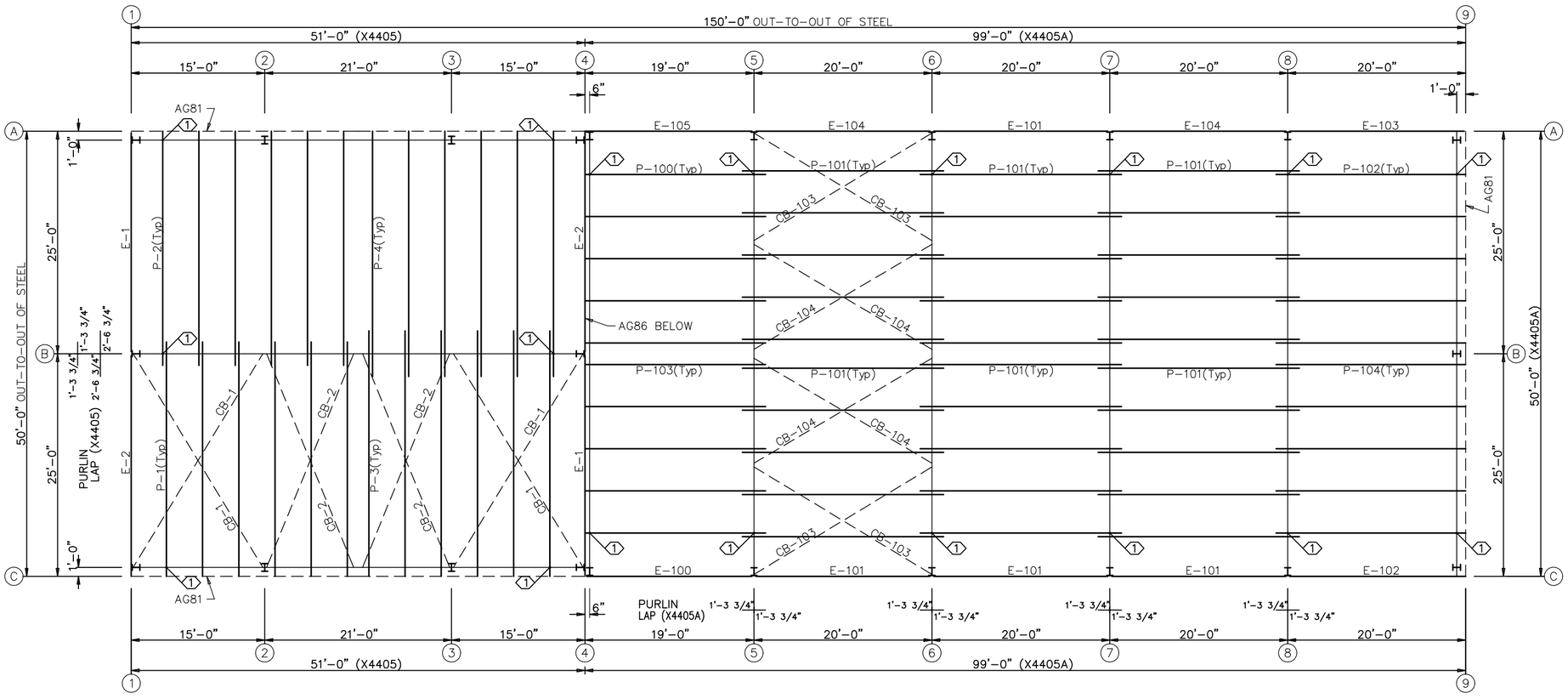
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 8 OF 19

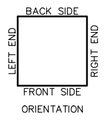
G:\JOBS\X4405\RFDWG4

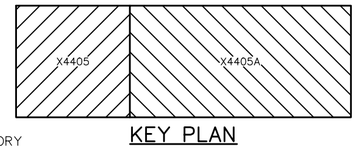
SPECIAL BOLTS & WASHERS ROOF PLAN					
⬡ ID	QUAN	TYPE	DIA	LENGTH	W/BT
1	4	A325	1/2"	1 1/2"	0

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
X4405		
P-1	8X25Z13	26'-3 5/8"
P-2	8X25Z13	26'-3 5/8"
P-3	8X25Z14	27'-6 5/8"
P-4	8X25Z14	27'-6 5/8"
E-1	8E14	24'-11 3/4"
E-2	8E14	24'-11 3/4"
CB-1	WX4	25'-11"
CB-2	WX4	24'-2"
X4405A		
P-100	8X25Z16	20'-3 5/8"
P-101	8X25Z16	22'-7 1/2"
P-102	8X25Z16	21'-3 5/8"
P-103	8X25Z16	20'-3 5/8"
P-104	8X25Z16	21'-3 5/8"
E-100	8E14	18'-9 3/4"
E-101	8E14	19'-11 3/4"
E-102	8E14	19'-11 3/4"
E-103	8E14	19'-11 3/4"
E-104	8E14	19'-11 3/4"
E-105	8E14	18'-9 3/4"
CB-103	WX4	21'-2"
CB-104	WX4	21'-5"



ROOF FRAMING PLAN





KEY PLAN

LH – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

TO FACILITATE THE PROPER ORIENTATION OF PURLINS/BUNDLES WHEN UNLOADING OR PLACING ON THE ROOF, POSITION THE END OF THE PURLIN/BUNDLE THAT IS TAGGED WITH A BAR CODE LABEL TO THE LEFT WHEN STANDING ON THE OUTSIDE OF THE BUILDING LOOKING IN; THE TOP FLANGE OF ZEE PURLINS SHOULD FACE UPHILL UNLESS DETAILS INDICATE OTHERWISE.

THE ARROW ON THE BARCODE LABEL POINTS TO THE NARROWER FLANGE FOR 8" ZEES; ON ALL OTHER PROFILES, THE ARROW TYPICALLY POINTS TO THE OUTSIDE FLANGE UNLESS DETAILS INDICATE OTHERWISE.

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SCALE : NONE			
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CHECKED BY	DANA	DATE	4-30-24
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REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

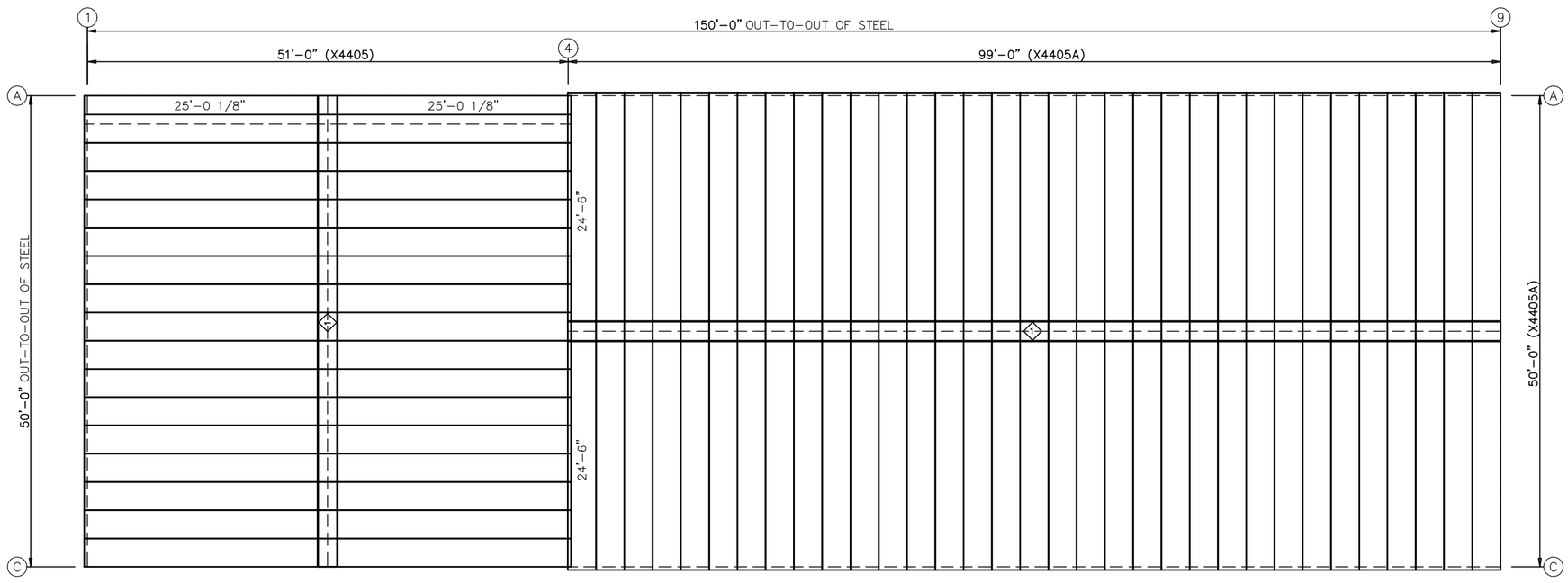
ROOF FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 9 OF 19

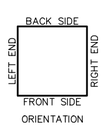
G:\JOBS\X4405\ROOFDWG1

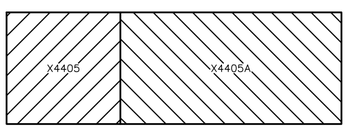
TRIM TABLE ROOF PLAN	
◇ID	PART
1	RC0



ROOF SHEETING PLAN

PANELS: 26 Ga. PBR – GALVALUME





KEY PLAN

1 – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

SCOTT D. CLOSE
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No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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BOONE OFFICE 2024
LAKE CITY, FLORIDA

ROOF SHEETING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 10 OF 19

G:\JOBS\X4405\ROOFDWG2

MEZZAININE INFORMATION:

MAIN FRAME COLUMNS, ENDWALL COLUMNS, AUXILIARY COLUMNS, BAR JOISTS, FLOOR BEAMS AND / OR DECKING ARE DESIGNED TO ADEQUATELY HANDLE A MEZZANINE IN THE AREA SHOWN ON THE PLANS, BASED ON THE MEZZANINE LOADS ON THE COVER PAGE.

JOIST ERECTION:

CARE SHALL BE EXERCISED AT ALL TIMES TO AVOID DAMAGE TO THE JOISTS AND ACCESSORIES THROUGH CARELESS HANDLING DURING UNLOADING, STORING, AND ERECTING.

** IMPORTANT ** UNDER NO CIRCUMSTANCES SHALL ANY PERSONNEL ATTEMPT TO WALK ON UNBRIDGED JOISTS. AS SOON AS THE JOISTS ARE ERECTED, ALL BRIDGING SHALL BE COMPLETELY INSTALLED AND ANCHORED, THEN THE JOIST SHOULD BE PERMANENTLY FASTENED INTO PLACE. UNTIL THIS IS DONE, NO CONSTRUCTION LOADS SHALL BE APPLIED TO THE JOISTS.

WHERE BOLTED DIAGONAL BRIDGING IS REQUIRED, THE HOISTING CABLES SHALL NOT BE RELEASED UNTIL THE DIAGONAL BRIDGING IS COMPLETELY INSTALLED. EACH JOIST SHALL BE STRAIGHTENED AND PLUMBED PRIOR TO CONNECTING THE BRIDGING TO THE JOIST. WHEN IT IS NECESSARY FOR THE ERECTOR TO CLIMB ON THE JOISTS TO INSTALL THE BRIDGING, EXTREME CAUTION MUST BE EXERCISED SINCE UNBRIDGED JOISTS MAY EXHIBIT SOME DEGREE OF INSTABILITY UNDER THE ERECTOR'S WEIGHT.

AFTER THE BRIDGING IS COMPLETELY INSTALLED AND ANCHORED, THE ENDS OF THE JOISTS SHALL BE FULLY CONNECTED TO THE SUPPORT. ALL FIELD WELDING SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO INSURE THAT THE JOISTS ARE NOT DAMAGED BY SUCH WELDING.

ENDS OF K-SERIES JOISTS RESTING ON STEEL SHALL BE ATTACHED THERETO WITH A MINIMUM OF TWO 1/8 INCH FILLET WELDS 2 1/2 INCHES LONG, OR WITH A 1/2 INCH BOLT. IN STEEL FRAMES, WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT COLUMN LINES SHALL BE FIELD BOLTED AT THE COLUMNS TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.

ON COLD-FORMED MEMBERS WHOSE YIELD STRENGTH HAS BEEN ATTAINED BY COLD WORKING, AND WHOSE AS-FORMED STRENGTH IS USED IN THE DESIGN, THE TOTAL LENGTH OF WELD AT ANY ONE POINT SHALL NOT EXCEED 50 PERCENT OF THE OVERALL DEVELOPED WIDTH OF THE COLD-FORMED SECTION.

DECK ERECTION:

DECK : 1.5C22

PLACE DECK SHEETS SIDE TO SIDE BEGINNING AT THE CORNER OF THE MEZZANINE, MAINTAINING ALIGNMENT. WHEN LAPPING, MAKE ALIGNMENT ADJUSTMENTS IF NECESSARY. PLACE SHEETS WITH EDGES UP, MAKE SIDE LAPS ONE-HALF CORRUGATION. DO NOT STAGGER 2" END LAPS. MINIMUM BEARING OF THE SHEETS SHALL BE 1 1/2".

SHEETS SHALL BE ATTACHED TO SUPPORTS WITH SCREWS. REQUIREMENTS ARE AS FOLLOWS:

A) SUPPORT CONNECTIONS: (36-4) PATTERN
B) SIDE LAPS: ONE BETWEEN JOISTS

SUPPORT SCREWS SHALL BE A #12X1.25 HWH SD #5PT NW (3228087). (#12 TEK OR EQUIVALENT IF NOT FURNISHED BY BMC)
SIDELAP SCREWS SHALL BE A SCREW #1/4X3/4 FL-TP SD WW (3228100). (#10 TEK OR EQUIVALENT IF NOT FURNISHED BY BMC)

FIELD CUT DECKING AS REQUIRED.

GENERAL NOTES:

1. 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.
2. TEMPORARY BRACING MUST BE INSTALLED BY ERECTOR TO PROVIDE ADEQUATE STABILITY DURING ERECTION. BRACING INDICATED ON THE ERECTION DRAWINGS IS FOR THE STABILITY OF THE COMPLETED STRUCTURE AND SHALL NOT BE REMOVED
3. TOP OF ALL BAR JOISTS @ ELEV. 112'-5"
4. TOP OF FLOOR ELEV. = 112'-9"
5. Ⓣ INDICATES TAGGED END OF MEZZANINE BEAMS.
6. X INDICATES DIAGONAL 1X1X7/64" ANGLE BRIDGING LOCATIONS
7. - - - INDICATES TOP & BOTTOM 1X1X7/64" ANGLE BRIDGING LOCATIONS

FLOOR VIBRATION NOTE

MEZZANINE FLOORS CONSTRUCTED WITH HIGH STRENGTH STRUCTURAL BEAMS, BAR JOISTS, METAL DECK AND A THIN CONCRETE COVERING PROVIDE A LIGHT WEIGHT AND RELATIVELY LOW COST ALTERNATIVE FOR OFFICE SPACE, DISPLAY AREAS AND SIMILAR USES. A POTENTIAL PROBLEM WITH SUCH FLOORS IS THAT THE NATURAL FREQUENCY OF THE FLOOR SYSYEM MAY FALL WITHIN THE RANGE OF COMMON EXCITING FORCES SUCH AS FOOT TRAFFIC. WHEN THIS OCCURS, THE OCCUPANT MAY OBJECT TO THE RESULTING VIBRATION EVEN THOUGH THE FLOOR IS STRUCTURALLY SOUND.

DAMPING, IN THE FORM OF PARTITIONS AND MASS FROM DESKS AND EQUIPMENT, MAY BE ENOUGH TO ELIMINATE OBJECTIONABLE MOVEMENT. HOWEVER, IN "OPEN SPACE" ARRANGEMENTS WITHOUT SIGNIFICANT FLOOR LOADING, SOME VIBRATION CAN BE EXPECTED.

AS A DESIGNER AND SUPPLIER OF STRUCTURAL COMPONENTS, THIS BUILDING MANUFACTURER HAS LITTLE OR NO KNOWLEDGE CONCERNING THE DAMPING AND SPECIAL NEEDS OF THE OCCUPANTS. WE ONLY DESIGN FOR THE LOADS AND SPANS DESCRIBED ON THE ORDER FORM TO MEET STRESS AND DEFLECTION LIMITS OF THE APPLICABLE CODE. THE CODES DO NOT SPECIFY REQUIREMENTS FOR NATURAL FREQUENCY. IT IS IMPORTANT FOR ARCHITECT OR DESIGN/BUILD CONTRACTOR TO TAKE FLOOR VIBRATION REQUIREMENTS INTO CONSIDERATION WHEN SPECIFYING SPANS AND CONCRETE THICKNESS

THIS BUILDING MANUFACTURER WILL NOT ACCEPT RESPONSIBILITY FOR FLOOR VIBRATION.

MEMBER TABLE

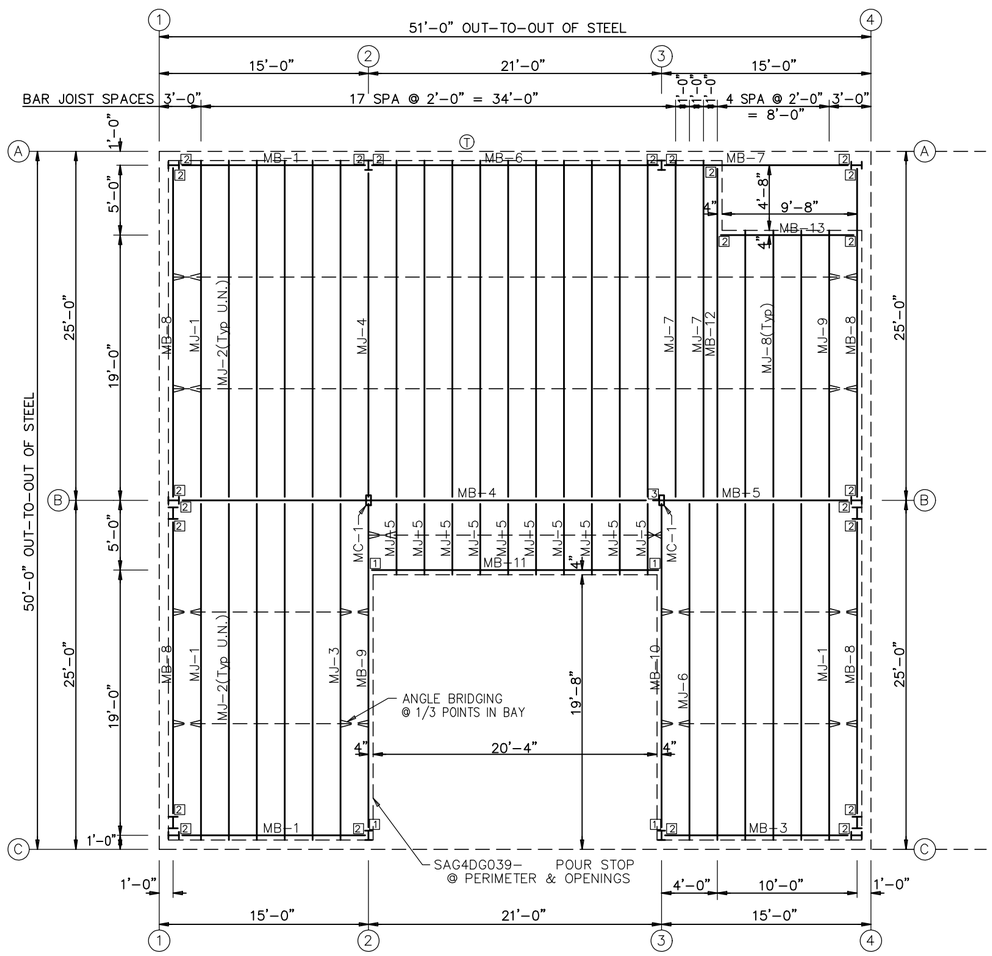
MARK	PART	LENGTH
MB-1	W14X22	13'-2"
MB-2	W14X48	20'-10 3/4"
MB-3	W14X22	13'-2"
MB-4	W12X40	32'-9 11/16"
MB-5	W12X40	13'-9 11/16"
MB-6	W14X30	20'-10 3/4"
MB-7	W14X22	13'-2"
MB-8	W12X14	23'-10 3/4"
MB-9	W10X22	23'-7 3/8"
MB-10	W10X22	23'-8 7/8"
MB-11	W10X22	20'-10 3/4"
MB-12	W12X26	23'-10 3/4"
MB-13	W12X26	10'-6 3/4"
MC-1	T8X4X316	11'-2 9/16"
MJ-1	14K4	
MJ-2	16K4	
MJ-3	16K5	
MJ-4	16K4	
MJ-5	10K1	
MJ-6	16K5	
MJ-7	10K1	
MJ-8	14K1	
MJ-9	10K1	

SUPPORT COLUMN BOLT TABLE

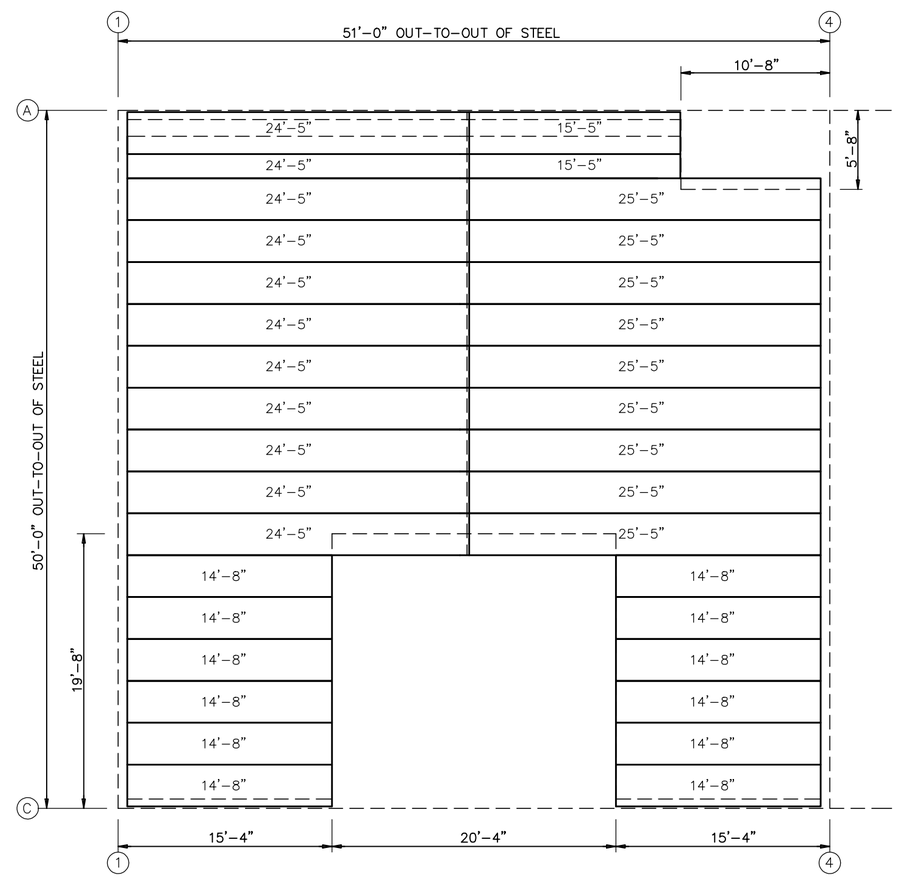
ID	QUAN	TYPE	DIA	LENGTH
C1	4	A325	1/2"	2"

CONNECTION PLATES MEZZANINE PLAN

ID	MARK/PART
1	(2)776001
2	(2)776002
3	(2)776003
4	



MEZZANINE FRAMING PLAN



MEZZANINE DECKING PLAN

PANELS: 26 Ga. 0.6C - GALVANIZED

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SCALE : NONE		
DRAWN BY D. WURDINGER	DATE 4/24/24	
CHECKED BY DANA	DATE 4-30-24	
APPROVED BY SDC	DATE 5-1-24	
REVIEWED BY	DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

MEZZANINE FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 11 OF 19

G:\JOBS\X4405\MEZZ

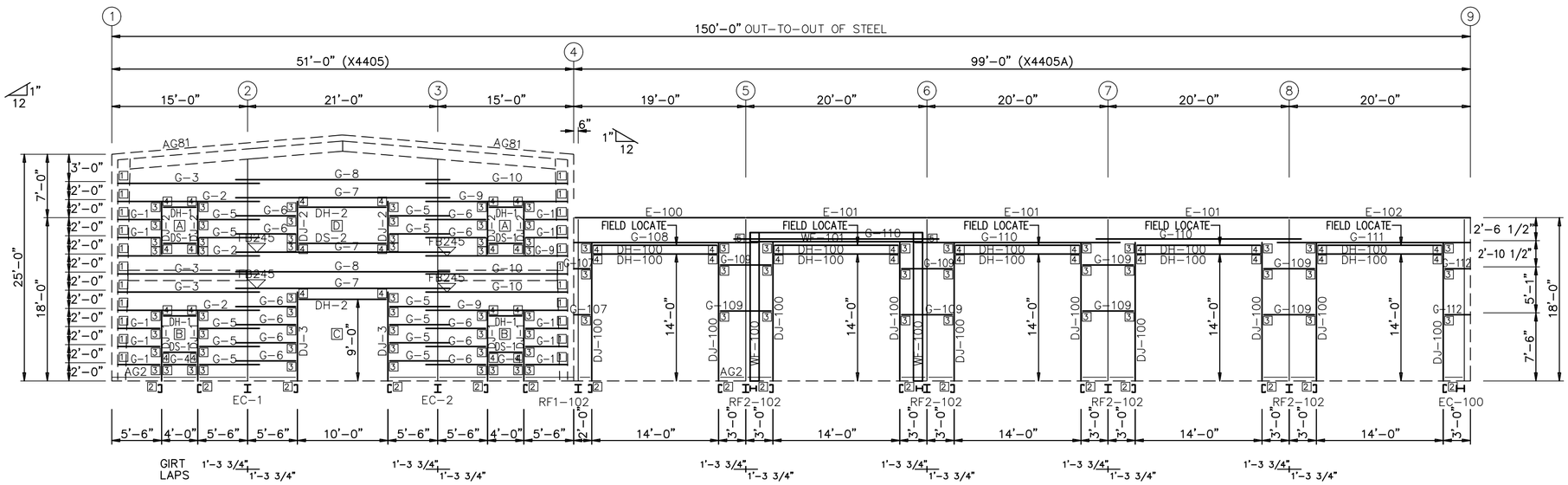
BOLT TABLE FRAME LINE C				
LOCATION	QUAN	TYPE	DIA	LENGTH
X4405				
Columns/Raf	4	A325	1/2"	1 1/2"
X4405A				
WF-100 - WF-101	8	A325	3/4"	2 1/2"
WF-100 - RF2-102	4	A325	1/2"	1 1/2"

MEMBER TABLE FRAME LINE C		
MARK	PART	LENGTH
X4405		
EC-1	W8X15	24'-6 5/8"
EC-2	W8X15	24'-6 5/8"
DJ-1	8X35C16	7'-7 5/8"
DJ-2	8X35C16	5'-3 1/2"
DJ-3	8X35C16	9'-7 5/8"
DH-1	8X35C16	3'-11 3/4"
DH-2	8X35C16	9'-11 3/4"
DS-1	8X35C16	3'-11 3/4"
DS-2	8X35C16	9'-11 3/4"
G-1	8X25Z16	4'-5 1/4"
G-2	8X25Z16	15'-7 1/4"
G-3	8X25Z16	15'-7 1/4"
G-4	8X25Z16	3'-3 1/2"
G-5	8X25Z16	6'-5 1/2"
G-6	8X25Z16	6'-5 1/2"
G-7	8X25Z16	23'-7 1/2"
G-8	8X25Z16	23'-7 1/2"
G-9	8X25Z16	15'-7 1/4"
G-10	8X25Z16	15'-7 1/4"
X4405A		
WF-100	B1250413	16'-10"
WF-101	B1250413	16'-11 3/4"
DJ-100	8X35C16	15'-1 1/8"
DH-100	8X35C16	13'-11 3/4"
E-100	8E14L05	18'-9 3/4"
E-101	8E14L05	19'-11 3/4"
E-102	8E14L05	19'-11 3/4"
G-107	8X25Z16	1'-5 5/8"
G-108	8X25Z16	20'-1 5/8"
G-109	8X25Z16	5'-3 1/2"
G-110	8X25Z16	22'-7 1/2"
G-111	8X25Z16	21'-3 5/8"
G-112	8X25Z16	2'-7 5/8"

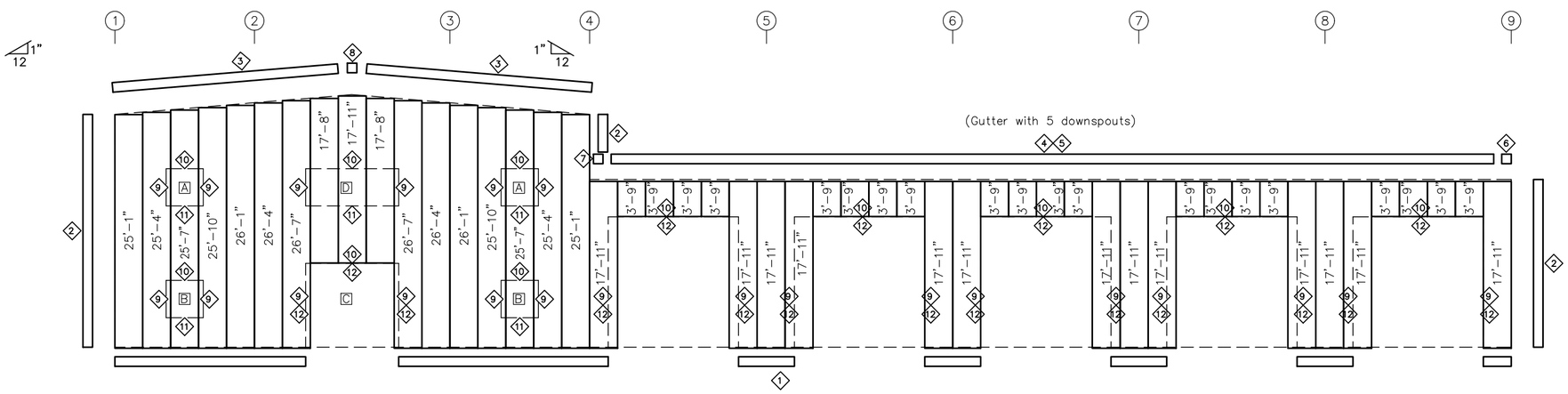
FLANGE BRACE TABLE FRAME LINE C		
ID	MARK	LENGTH
1	FB245	2'-0 1/2"

CONNECTION PLATES FRAME LINE C	
ID	MARK/PART
1	MP332
2	CP306
3	CP302
4	CP308
5	CP150
6	AG55
7	CP309
8	CP310

TRIM TABLE FRAME LINE C	
ID	PART
1	BT1
2	OCT1
3	RT1
4	ET1
5	GU1
6	GEC1R
7	GEC1L
8	PKB1
9	JT1
10	HT1
11	WT5
12	WT1
13	



WALL FRAMING: FRAME LINE C



WALL SHEETING & TRIM: FRAME LINE C

(K0726)PANELS: 26 Ga. PBR - ASH GRAY

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

LS - DENOTES FIELD OR FACTORY LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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APPROVED BY	SDC	DATE	5-1-24
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BOONE OFFICE 2024
LAKE CITY, FLORIDA

SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 12 OF 19

G:\JOBS\X4405\LINEC

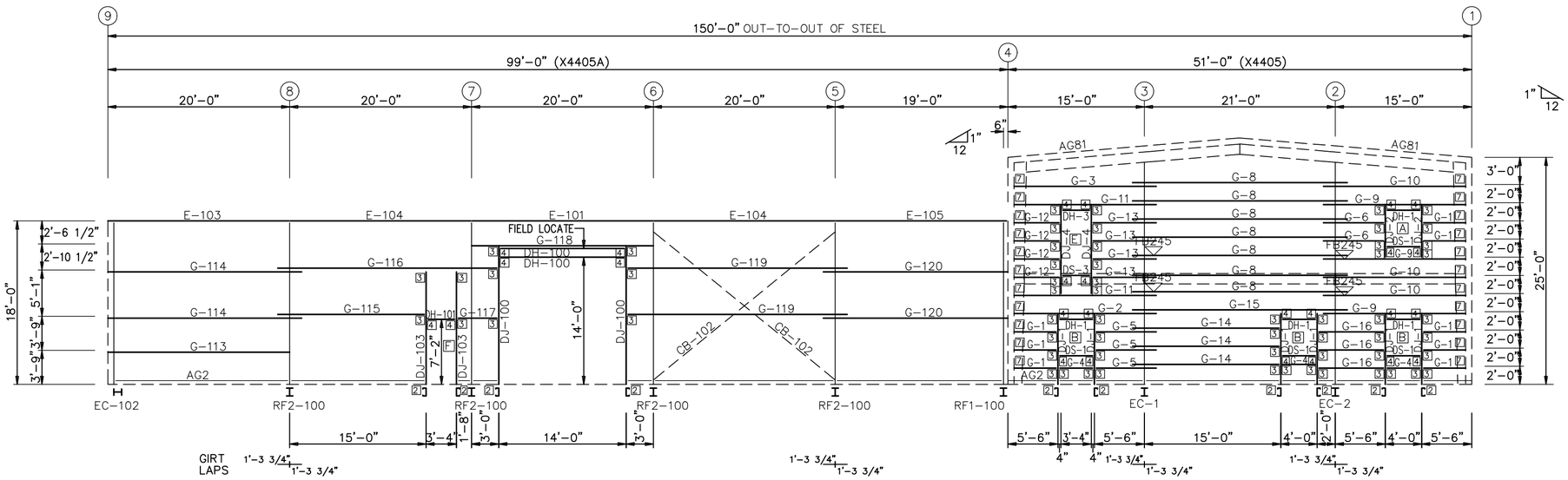
BOLT TABLE FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
X4405				
Columns/Rgt	4	A325	1/2"	1 1/2"

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
X4405		
EC-1	W8X15	24'-6 5/8"
EC-2	W8X15	24'-6 5/8"
DJ-1	8X35C16	7'-7 5/8"
DJ-2	8X35C16	5'-3 1/2"
DJ-4	8X35C16	9'-3 1/2"
DH-1	8X35C16	3'-11 3/4"
DH-3	8X35C16	3'-3 3/4"
DS-1	8X35C16	3'-11 3/4"
DS-3	8X35C16	3'-3 3/4"
G-1	8X25Z16	4'-5 1/4"
G-2	8X25Z16	15'-7 1/4"
G-3	8X25Z16	15'-7 1/4"
G-4	8X25Z16	3'-3 1/2"
G-5	8X25Z16	6'-5 1/2"
G-6	8X25Z16	6'-5 1/2"
G-8	8X25Z16	23'-7 1/2"
G-9	8X25Z16	15'-7 1/4"
G-10	8X25Z16	15'-7 1/4"
G-11	8X25Z16	15'-7 1/4"
G-12	8X25Z16	4'-9 1/4"
G-13	8X25Z16	6'-9 1/2"
G-14	8X25Z16	15'-11 1/2"
G-15	8X25Z16	23'-7 1/2"
G-16	8X25Z16	6'-9 1/2"
X4405A		
DJ-100	8X35C16	15'-1 1/8"
DJ-103	8X35C16	12'-2 5/8"
DH-100	8X35C16	13'-11 3/4"
DH-101	8X35C16	3'-3 3/4"
E-101	8E14L05	19'-11 3/4"
E-103	8E14L05	19'-11 3/4"
E-104	8E14L05	19'-11 3/4"
E-105	8E14L05	18'-9 3/4"
G-113	8X25Z16	20'-1 7/8"
G-114	8X25Z16	21'-3 5/8"
G-115	8X25Z16	15'-11 1/2"
G-116	8X25Z16	23'-11 1/2"
G-117	8X25Z16	3'-11 1/2"
G-118	8X25Z16	20'-4"
G-119	8X25Z16	23'-11 1/2"
G-120	8X25Z16	20'-1 5/8"
CB-102	WX5	23'-11"

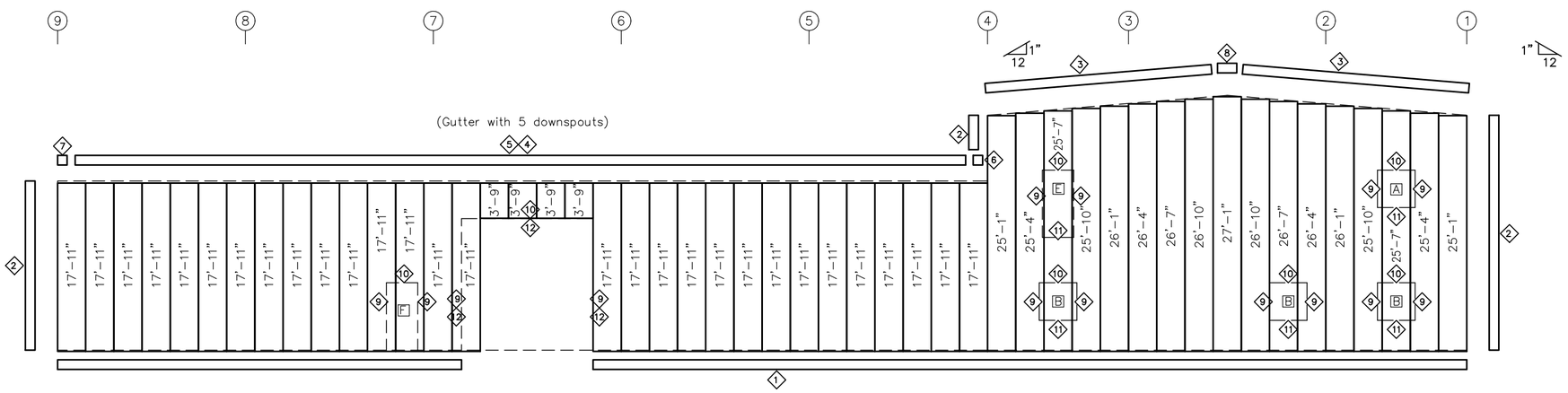
FLANGE BRACE TABLE FRAME LINE A		
QTY	MARK	LENGTH
1	FB245	12'-0 1/2"

CONNECTION PLATES FRAME LINE A	
ID	MARK/PART
1	
2	CP306
3	CP302
4	CP308
5	CP309
6	CP310
7	MP332

TRIM TABLE FRAME LINE A	
ID	PART
1	BT1
2	OCT1
3	RT1
4	ET1
5	GU1
6	GEC1R
7	GEC1L
8	PKB1
9	JT1
10	HT1
11	WT5
12	WT1
13	



WALL FRAMING: FRAME LINE A



WALL SHEETING & TRIM: FRAME LINE A

(K0726)PANELS: 26 Ga. PBR – ASH GRAY

LH – DENOTES FIELD OR FACTORY LOCATED ACCESSORY (SEE ACCESSORY SHEET)

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 13 OF 19

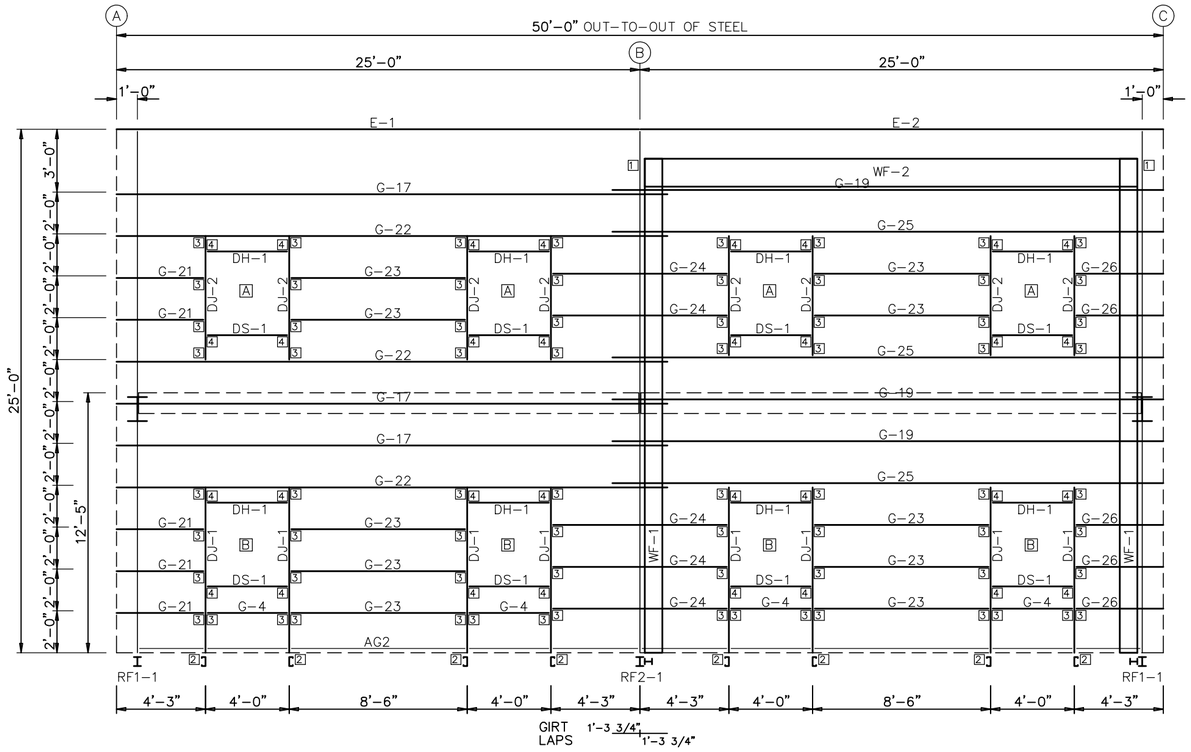
G:\JOBS\X4405\LINEA

BOLT TABLE FRAME LINE 1				
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"
WF-1 – RF1-1	4	A325	1/2"	1 1/2"

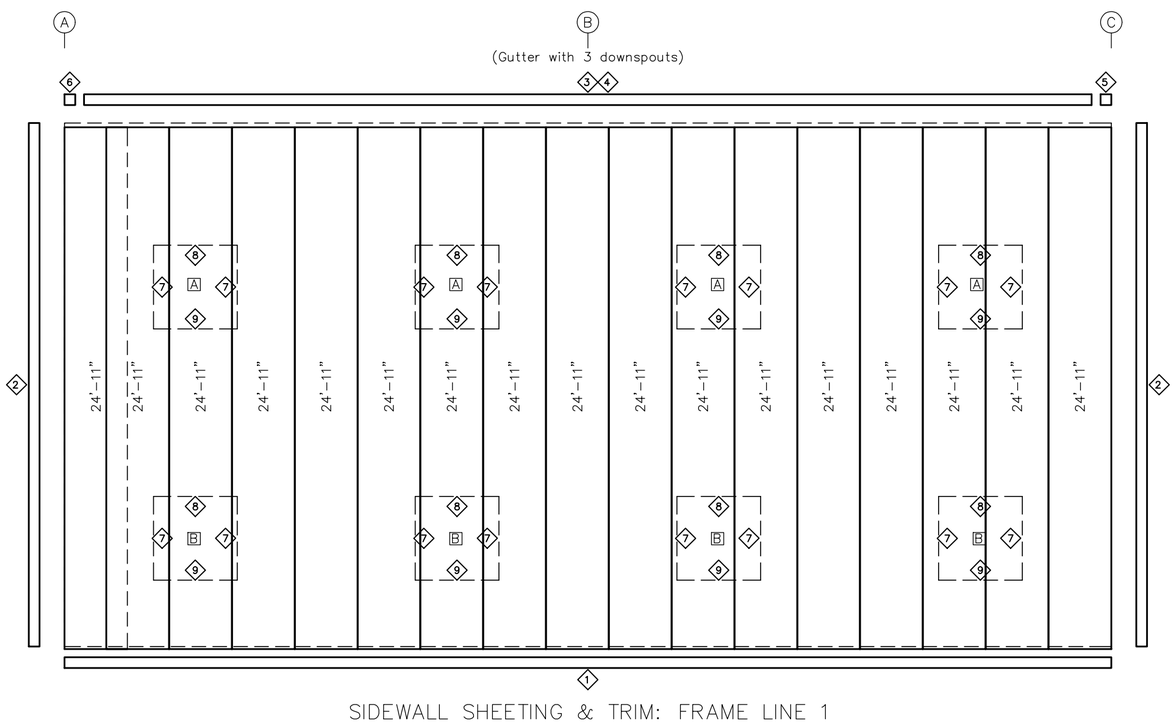
MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
WF-1	B1080513	23'-10"
WF-2	B1660513	21'-3 5/8"
DJ-1	8X35C16	7'-7 5/8"
DJ-2	8X35C16	5'-3 1/2"
DH-1	8X35C16	3'-11 3/4"
DS-1	8X35C16	3'-11 3/4"
E-1	8E14L05	24'-11 3/4"
E-2	8E14L05	24'-11 3/4"
G-4	8X25Z16	3'-3 1/2"
G-17	8X25Z16	26'-3 5/8"
G-19	8X25Z16	26'-3 5/8"
G-21	8X25Z16	3'-10 5/8"
G-22	8X25Z16	26'-3 5/8"
G-23	8X25Z16	7'-9 1/2"
G-24	8X25Z16	7'-9 1/2"
G-25	8X25Z16	26'-3 5/8"
G-26	8X25Z16	3'-10 5/8"

CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	CP150
2	CP306
3	CP302
4	CP308

TRIM TABLE FRAME LINE 1	
◇ID	PART
1	BT1
2	OCT1
3	ET1
4	GU1
5	GEC1R
6	GEC1L
7	JT1
8	HT1
9	WT5
10	



SIDEWALL FRAMING: FRAME LINE 1



SIDEWALL SHEETING & TRIM: FRAME LINE 1

(K0726)PANELS: 26 Ga. PBR – ASH GRAY

LRT – DENOTES FIELD OR FACTORY LOCATED ACCESSORY (SEE ACCESSORY SHEET)

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

SCALE : NONE	
DRAWN BY D. WURDINGER	DATE 4/24/24
CHECKED BY DANA	DATE 4-30-24
APPROVED BY SDC	DATE 5-1-24
REVIEWED BY	DATE

BOONE OFFICE 2024
LAKE CITY, FLORIDA

SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 14 OF 19

G:\JOBS\X4405\LINE1

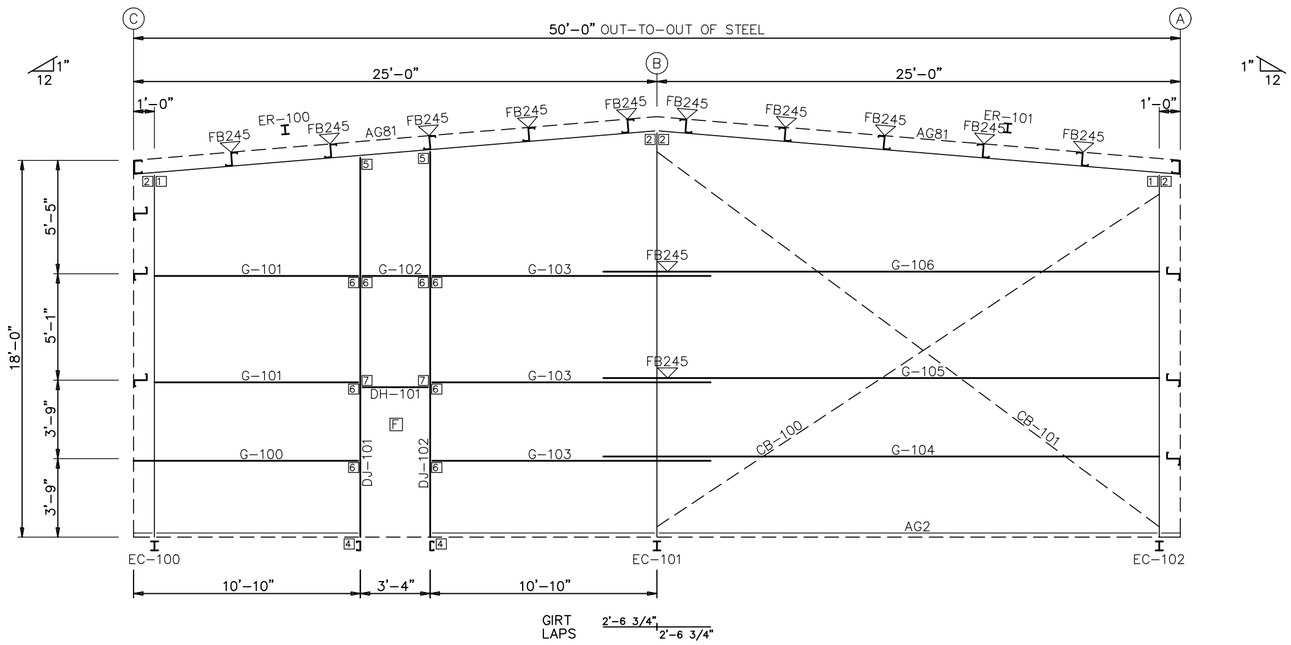
BOLT TABLE FRAME LINE 9				
LOCATION	QUAN	TYPE	DIA.	LENGTH
ER-100/ER-101	6	A325	5/8"	2 1/4"
Columns/Raf	8	A325	1/2"	1 1/2"
Jamb	4	A325	1/2"	1 1/2"

MEMBER TABLE FRAME LINE 9		
MARK	PART	LENGTH
EC-100	W8X10	16'-5 1/16"
EC-101	W10X12	18'-5 1/16"
EC-102	W8X10	16'-5 1/16"
ER-100	W10X12	25'-1 5/8"
ER-101	W10X12	25'-1 5/8"
DJ-101	8X35C14	18'-0 5/8"
DJ-102	8X35C14	18'-3 3/4"
DH-101	8X35C16	3'-3 3/4"
G-100	8X25Z16	10'-5 5/8"
G-101	8X25Z16	9'-9 1/4"
G-102	8X25Z16	2'-7 1/2"
G-103	8X25Z16	13'-0 1/2"
G-104	8X25Z16	26'-10 1/4"
G-105	8X25Z15	26'-10 1/4"
G-106	8X25Z13	26'-10 1/4"
CB-100	WX4	26'-10"
CB-101	WX4	27'-11"

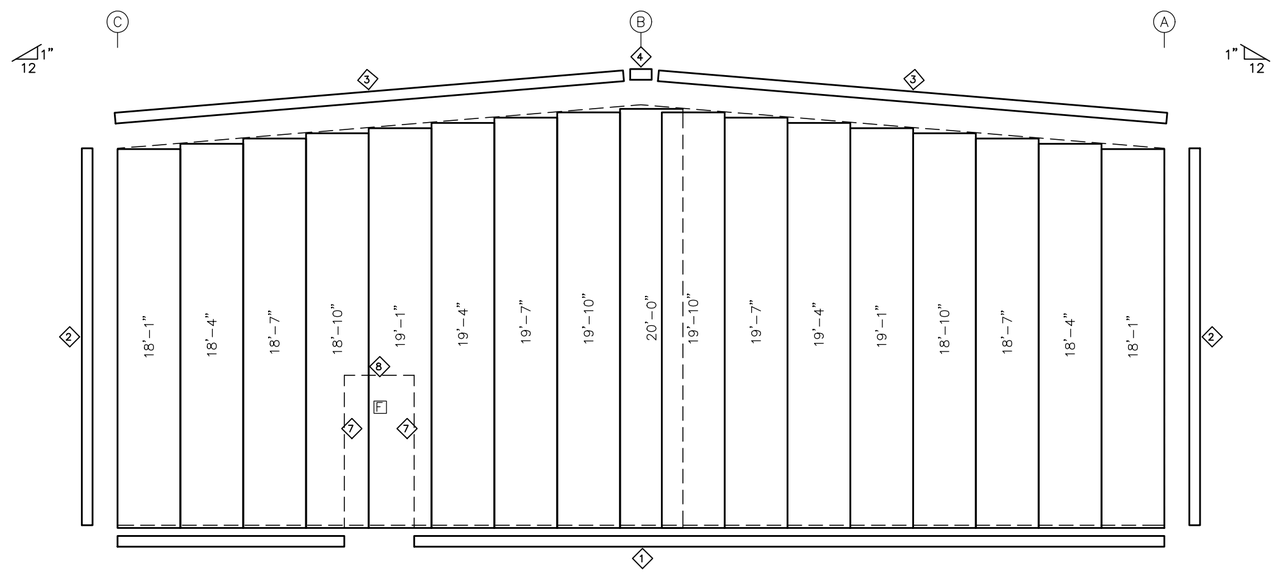
FLANGE BRACE TABLE FRAME LINE 9		
▽ID	MARK	LENGTH
1	FB245	2'-0 1/2"

CONNECTION PLATES FRAME LINE 9	
⬭ID	MARK/PART
1	CP131
2	CP130
3	
4	CP306
5	CP368
6	CP302
7	CP308

TRIM TABLE FRAME LINE 9	
◇ID	PART
1	BT1
2	OCT1
3	RT1
4	PKB1
5	TR3-1
6	TR21
7	JT1
8	HT1



ENDWALL FRAMING: FRAME LINE 9



ENDWALL SHEETING & TRIM: FRAME LINE 9

(K0726)PANELS: 26 Ga. PBR – ASH GRAY

⬭ – DENOTES FIELD OR FACTORY LOCATED ACCESSORY (SEE ACCESSORY SHEET)

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

SCALE : NONE		
DRAWN BY D. WURDINGER	DATE 4/24/24	
CHECKED BY DANA	DATE 4-30-24	
APPROVED BY SDC	DATE 5-1-24	
REVIEWED BY	DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

ENDWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 15 OF 19

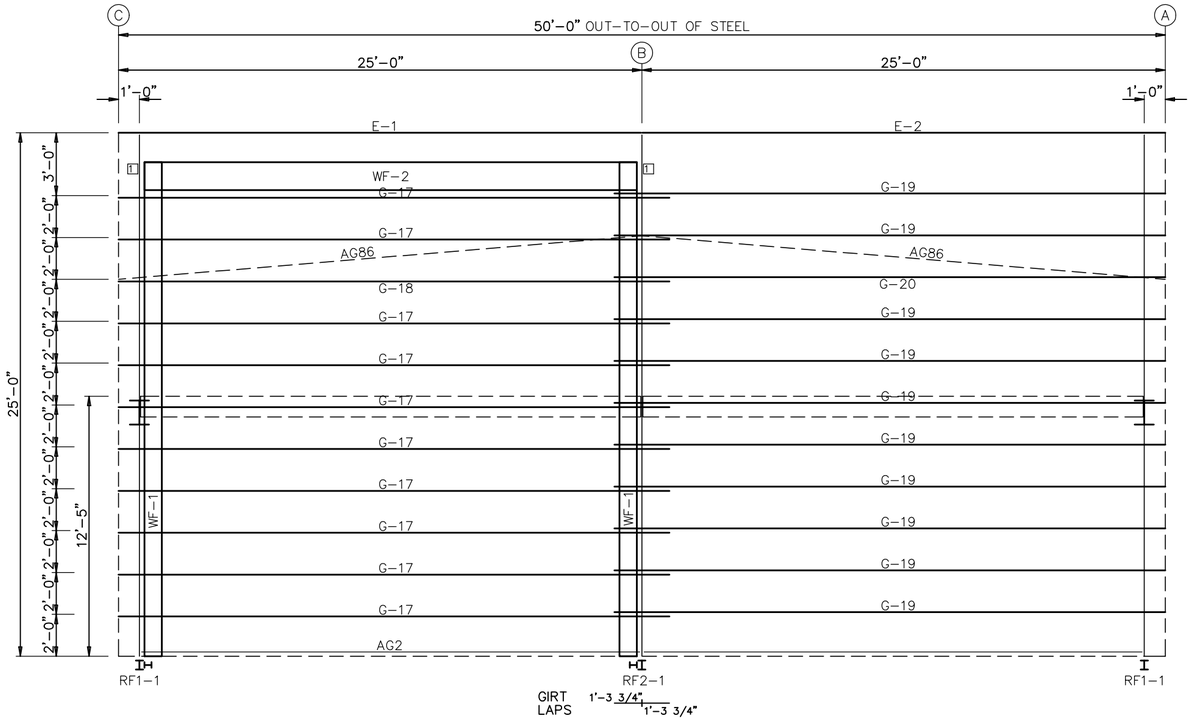
G:\JOBS\X4405\LINE9

BOLT TABLE FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	8	A325	3/4"	2 1/2"
WF-1 - RF1-1	4	A325	1/2"	1 1/2"
WF-1 - RF2-1	4	A325	1/2"	1 1/2"

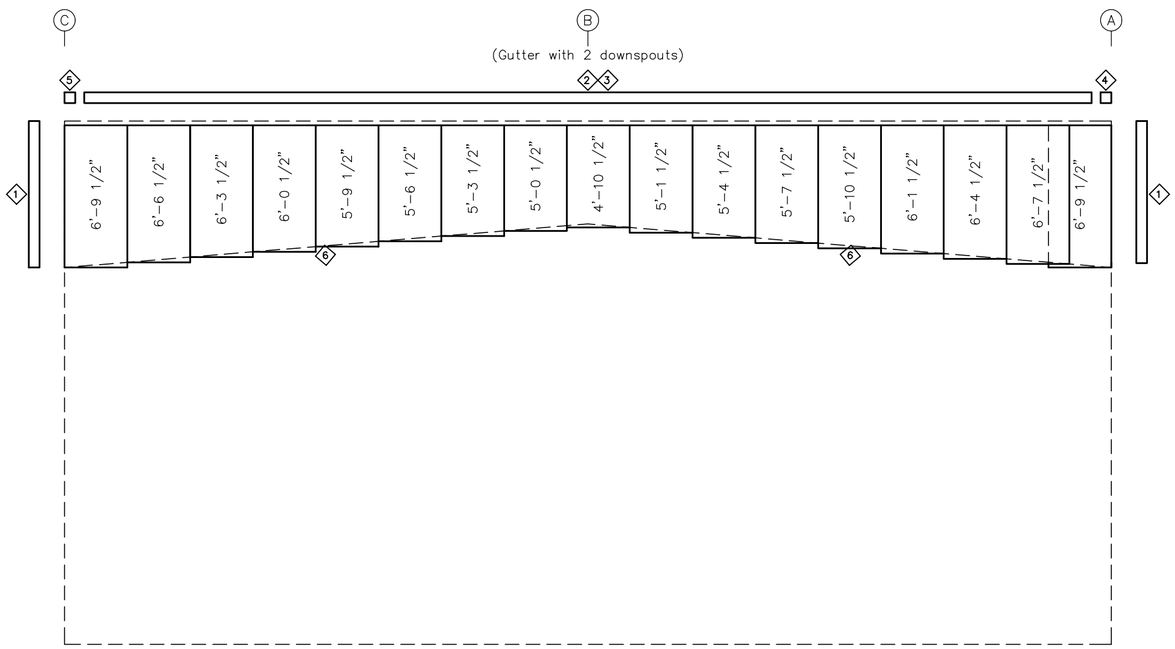
MEMBER TABLE FRAME LINE 4		
MARK	PART	LENGTH
WF-1	B1080513	23'-10"
WF-2	B1660513	21'-3 5/8"
E-1	8E14L05	24'-11 3/4"
E-2	8E14L05	24'-11 3/4"
G-17	8X25Z16	26'-3 5/8"
G-18	8x25Z16	26'-3 5/8"
G-19	8X25Z16	26'-3 5/8"
G-20	8x25Z16	26'-3 5/8"

CONNECTION PLATES FRAME LINE 4	
ID	MARK/PART
1	CP150

TRIM TABLE FRAME LINE 4	
◇ID	PART
1	OCT1
2	ET1
3	GU1
4	GEC1R
5	GEC1L
6	RTW2
7	



SIDEWALL FRAMING: FRAME LINE 4



SIDEWALL SHEETING & TRIM: FRAME LINE 4

(K0726)PANELS: 26 Ga. PBR - ASH GRAY

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

LS - DENOTES FIELD OR FACTORY LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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

SCALE : NONE			
DRAWN BY	D. WURDINGER	DATE	4/24/24
CHECKED BY	DANA	DATE	4-30-24
APPROVED BY	SDC	DATE	5-1-24
REVIEWED BY		DATE	

BOONE OFFICE 2024
LAKE CITY, FLORIDA

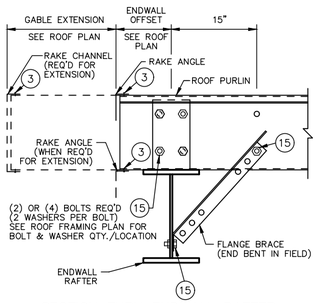
SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

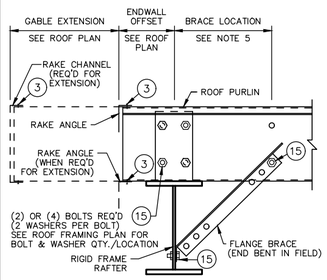
JOB NO. X4405

SHT. 16 OF 19

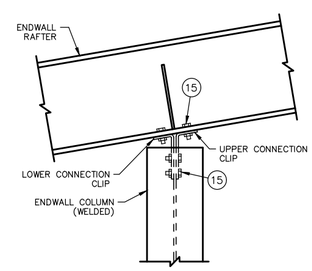
G:\JOBS\X4405\LINE4



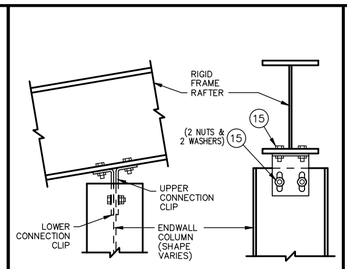
SECTION THRU ENDWALL RAFTER



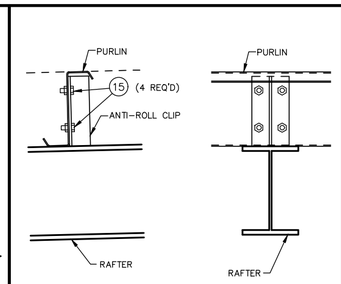
ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



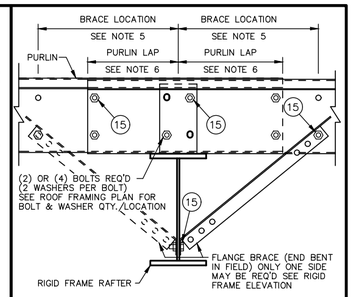
ENDWALL RAFTER TO COLUMN



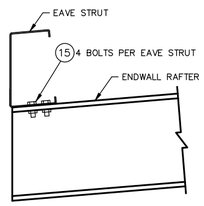
COLUMN TO RIGID FRAME RAFTER



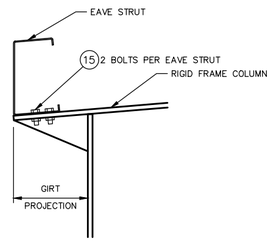
ANTI-ROLL CLIP AT PURLIN LINE



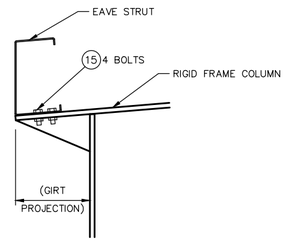
ROOF PURLIN TO INTERIOR FRAME RAFTER



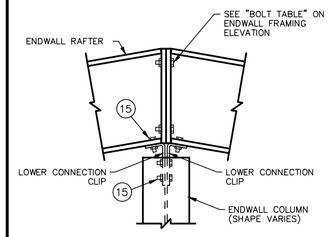
EAVE STRUT TO ENDWALL RAFTER



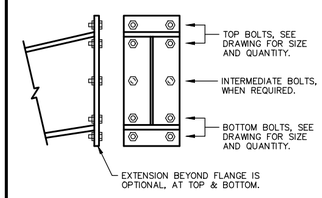
EAVE STRUT TO RIGID FRAME



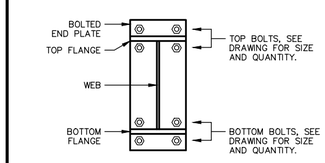
EAVE STRUT TO RIGID FRAME AT ENDWALL



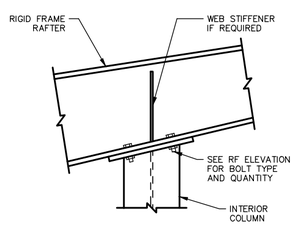
RAFTER SPLICE AT RIDGE W/ ENDWALL COLUMN



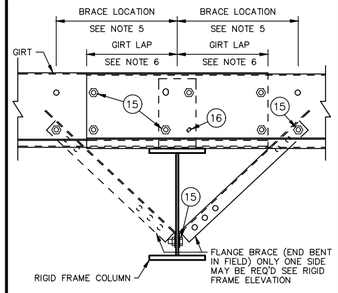
BOLTED END PLATE CONNECTION AT BUILDING PEAK



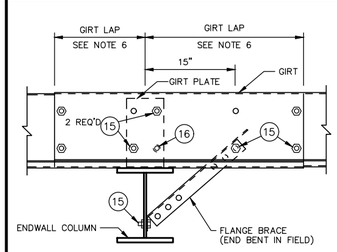
BOLTS FOR RAFTER TO COLUMN CONNECTION



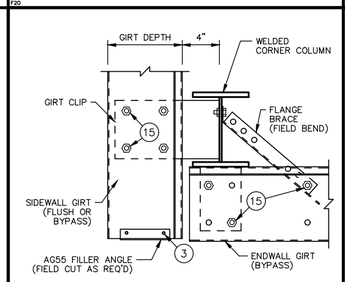
INTERIOR COLUMN TO RAFTER



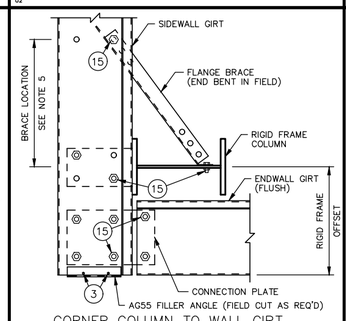
WALL GIRT TO FRAME COLUMN



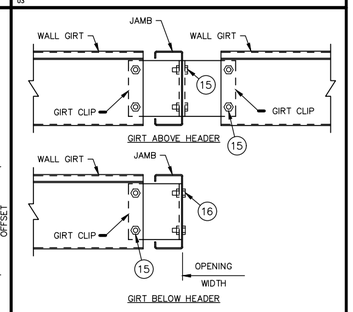
ENDWALL COLUMN TO WALL GIRT



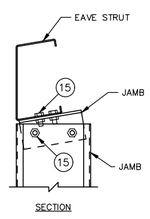
CORNER COLUMN TO WALL GIRT



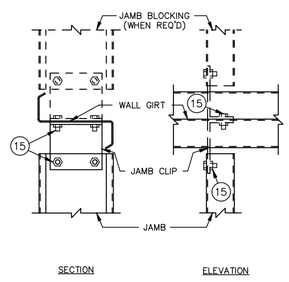
CORNER COLUMN TO WALL GIRT



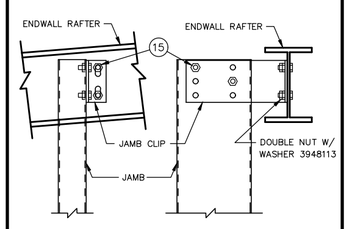
WALL GIRT TO JAMB



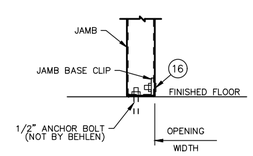
JAMB TO EAVE STRUT



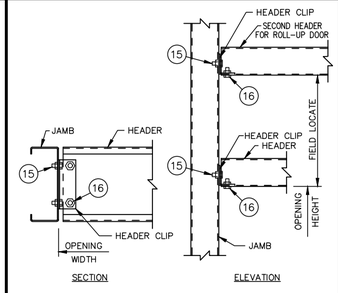
JAMB TO WALL GIRT



JAMB TO ENDWALL RAFTER WEB



JAMB TO FINISHED FLOOR



HEADER TO JAMB

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 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)	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW			
(6)	3228099	SCREW 8 X 1/2 HWH SD NW	(19)	996011	BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2688008)
			(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 1/2 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)			
(12)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(25)	3228126	SCREW 17 X 1 LG-LF ST WW
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(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
	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

HD	= HEAD
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
PT	= POINT
RD	= ROUND
WW	= WITH WASHER
NW	= NO WASHER
FLT	= FLAT
HVHX	= HEAVY HEX
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

NOTES:

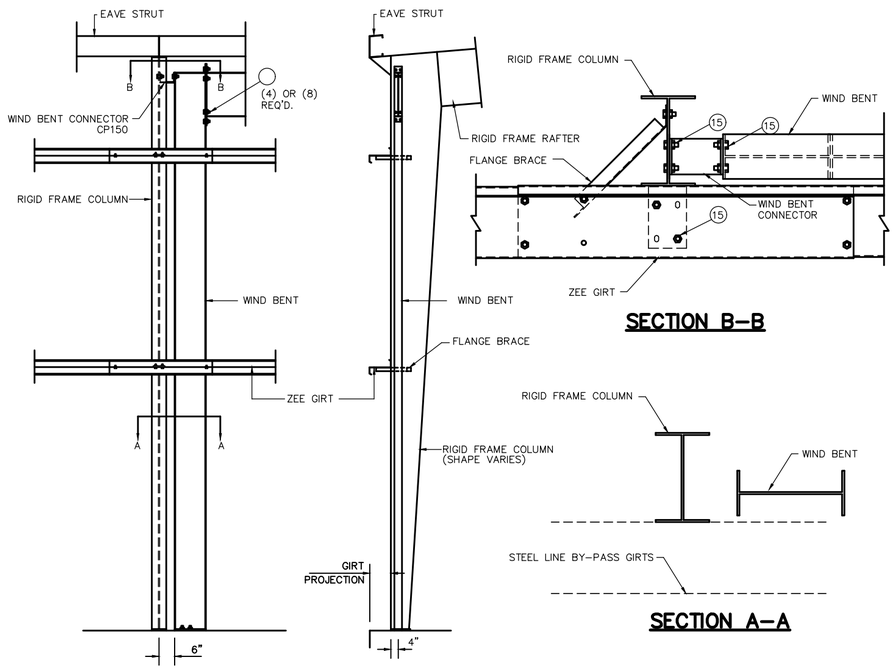
1. FOR SEQUENCE OF ERECTION – SEE APPLICABLE WALL PANEL ERECTION GUIDE.
2. FOR FLANGE BRACE LOCATIONS – SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
3. SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
4. THE LENGTH OF THE FLANGE BRACE SUPPLIED AT EACH LOCATION WILL DETERMINE WHICH STANDARD LAP HOLE LOCATION (1'-3", 2'-6", 3'-9", OR 5'-0") IS TO BE USED.
5. ATTACH FLANGE BRACE TO HOLE IN GIRT WHICH BEST FITS THE FLANGE BRACE LENGTH SUPPLIED FOR THE LOCATION.
6. 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 (RCSC, 6-23-2000),SECTION 4.1 "SNUG-TIGHTENED JOINTS" (REFERENCE SECTION 8.1).

SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

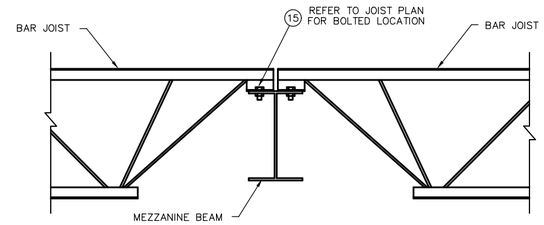
SCALE : NONE		BOONE OFFICE 2024 LAKE CITY, FL 32024	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
DRAWN BY D. WURDINGER	DATE 4/ 8/24		
CHECKED BY DANA	DATE 4-30-24		
APPROVED BY SDC	DATE 5-1-24		
REVIEWED BY	DATE	DETAIL DRAWINGS	JOB NO. X4405 SHT. 17 OF 19

G:\JOBS\X4405\DTDWG1

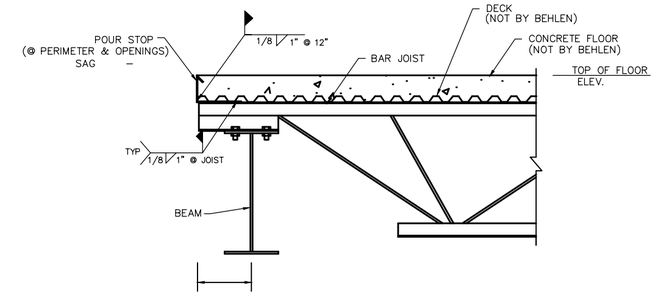


DETAIL: WIND BENT AT RIGID FRAME COLUMN W/ BY-PASS GIRTS W/ 2 BOLT STANDARD WIND BENT CONNECTOR

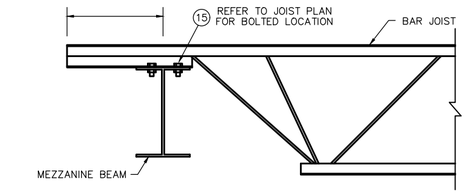
W036



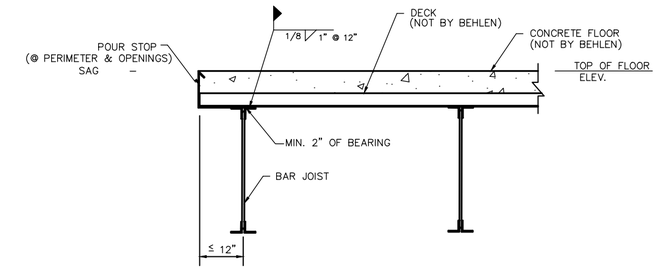
DETAIL: BAR JOIST CONNECTION



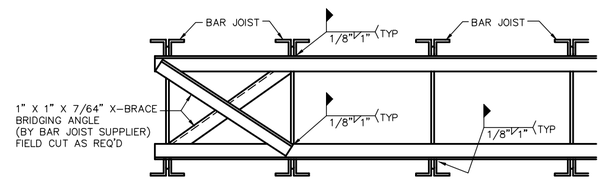
DETAIL: POUR STOP & CONCRETE



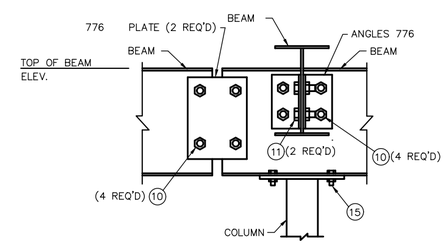
DETAIL: BAR JOIST CONNECTION @ END



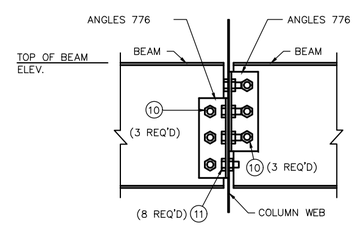
DETAIL: POUR STOP & CONCRETE



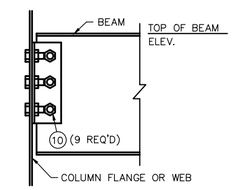
DETAIL: HORIZ. BRIDGING TO BAR JOIST



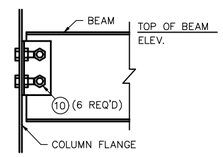
DETAIL: BEAM/BEAM/COLUMN CONNECTION



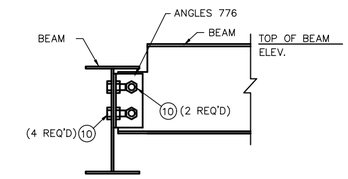
DETAIL: BEAM TO COLUMN



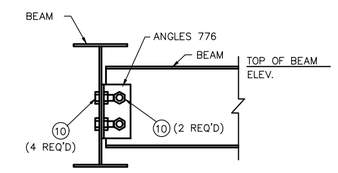
DETAIL: MEZZANINE BEAM TO COLUMN



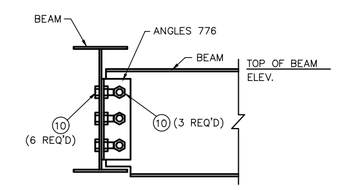
DETAIL: MEZZANINE BEAM TO COLUMN



DETAIL: MEZZANINE BEAM TO BEAM



DETAIL: MEZZANINE BEAM TO BEAM



DETAIL: MEZZANINE BEAM TO BEAM

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 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)	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW			
(6)	3228099	SCREW 8 X 1/2 HWH SD NW	(19)	996011	BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2688008)
			(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 1/2 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)			
(12)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(25)	3228126	SCREW 17 X 1 LG-LF ST WW
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(26)	3228138	SCREW 1/4 X 1 HWH SD NW
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FL-TP	= FLAT TOP
LG-LF	= LONG LIFE
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LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

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SCOTT D. CLOSE LICENSE No. 65849 STATE OF FLORIDA PROFESSIONAL ENGINEER

SCALE : NONE

DRAWN BY	D. WURDINGER	DATE 4-30-24
CHECKED BY	DANA	DATE 4-30-24
APPROVED BY	SDC	DATE 5-1-24
REVIEWED BY		DATE

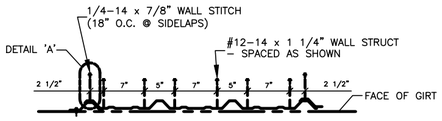
BOONE OFFICE 2024
LAKE CITY, FL 32024

ERECTION DETAILS

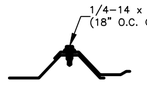
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 18 OF 19

G:\JOBS\X4405\DTDWG2



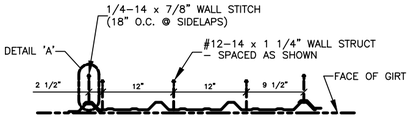
STD. 'PBR' WALL PANEL FASTENER SPACING AT EAVE STRUT, END LAP AND BASE



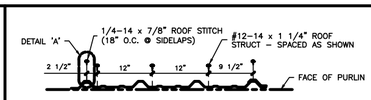
DETAIL "A"

WALL PANEL ATTACHMENT

"PBR" PANELS



STD. 'PBR' WALL PANEL FASTENER SPACING AT INTERMEDIATE GIRTS

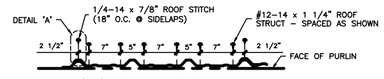


'PBR' ROOF PANEL FASTENER SPACING AT INTERMEDIATE PURLINS AND "ZONE 2" U.N.O.

DETAIL "A"

ROOF PANEL ATTACHMENT

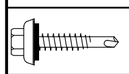
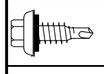
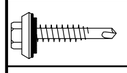
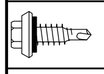
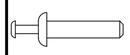
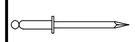
SEE SHEET 3 FOR WIND PRESSURE ZONES

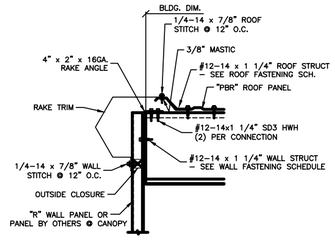


'PBR' ROOF PANEL FASTENER SPACING AT EAVE, END LAP, PEAK PURLINS AND ALSO USED IN ALL OF "ZONE 2".

PANEL and TRIM FASTENERS

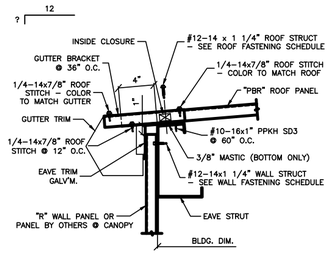
Technical Data and Applications

ITEM	T.B.S. FABTROL PART NAME (DESCRIPTION)	APPLICATIONS
	SCR #12-14 x 1 1/4" ROOF STRUCT. ATLAS' #12-14x1 1/4" TCP3 HWH 3/8 "ULTIMATE" (OR EQUIVALENT)	1. 'PBR' Roof Panel to Purlins. 2. LOC-SEAM Panel @ Eave and End Laps.
	SCR 1/4-14 x 7/8" ROOF STITCH ATLAS' 1/4-14x7/8" TCP1 HWH 3/8 "ULTIMATE" (OR EQUIVALENT)	1. 'PBR' Roof Panel Sidelaps. 2. Roof Trims to Panel.
	SCR #12-14 x 1 1/4" WALL STRUCT. ATLAS' #12-14x1 1/4" TCP3 HWH CARBON "FLAT-TOP" (OR EQUIVALENT)	1. 'R' Wall Panel to Girts.
	SCR 1/4-14 x 7/8" WALL STITCH ATLAS' 1/4-14x7/8" TCP1 HWH 5/16 CARBON "FLAT-TOP" (OR EQUIVALENT)	1. 'R' Wall Panel Sidelaps. 2. Wall Trims to Panel.
	SCR #10-16 x 1" SD2 PPKH #10-16x1 SELF-DRILLING-POINT#2 PHILLIPS-PANCAKE HEAD STEEL SCREW. (OR EQUIVALENT)	1. Cleat to Panel.
	SCR #9-15 x 1 1/2" WOOD WALL SFS' #9-15x1 1/2 SELF-PIERCING-POINT HWH 1/4 "WOODGRIP" STEEL SCREW w/ WASHER. (OR EQUIVALENT)	1. Wall Panels or Trim to Wood.
	1/4 x 1 1/4" MHD DRIVEPIN MUSHROOM HEAD DRIVE PIN w/ ZAMAC BODY & CARBON STEEL NAIL.	1. Base Angle to Concrete. (*PROVIDED BY ERECTOR)
	1/8 x 1/4" ALUM. RIVET 9/32 dia., 1/4" - 5/8" GRIP, LARGE FLANGE PROTRUDING CROWN HEAD, OLYMPIC BULB-TITE RIVET w/ NEOPRENE WASHER.	1. All Trim and Gutter Laps.



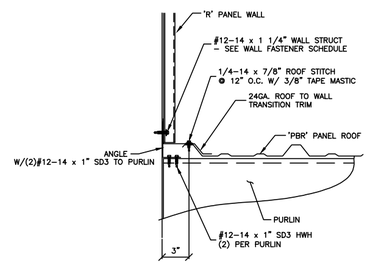
RAKE DETAIL w/ WALL PANEL & @ CANOPY RAKE

"PBR" PANEL ROOF

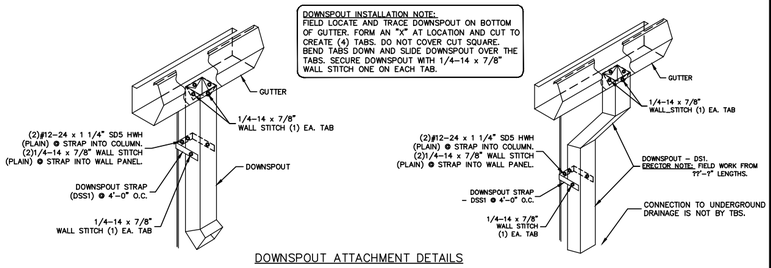


RAKE DETAIL w/ WALL PANEL & @ CANOPY LOW EAVE

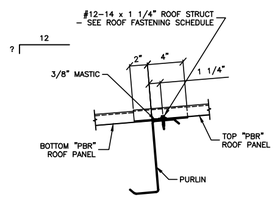
"PBR" PANEL ROOF



ROOF TO TALLER BUILDING

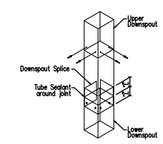


DOWNSPOUT ATTACHMENT DETAILS

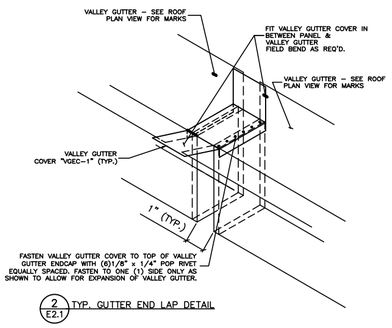


PANEL ENDLAP DETAIL

"PBR" PANEL ROOF

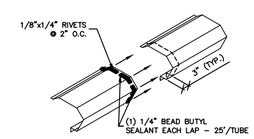


DOWNSPOUT LAP

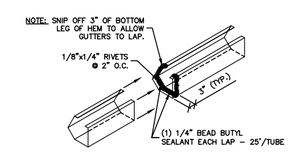


2 / E2.1 TYP. GUTTER END LAP DETAIL

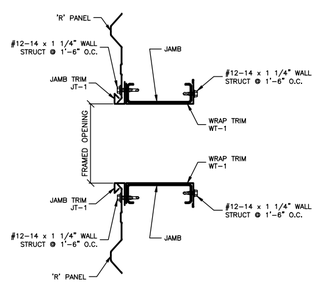
INSTALLATION NOTE:
INSTALL BEAD OF URETHANE SEALANT ALONG INSIDE LAP OF GUTTERS AND SWIPE SMOOTH TO ENSURE GUTTERS DO NOT LEAK. ALSO ADD A DAB OF URETHANE @ EVERY HOLE DRILLED FOR A 1/8" RIVET TO SEAL HOLE ONCE RIVET IS INSTALLED.



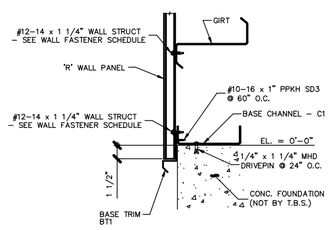
RAKE TRIM LAP DETAIL



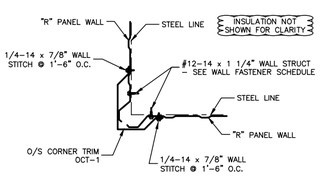
EAVE GUTTER LAP DETAIL



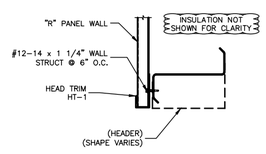
JAMB DETAIL @ FRAMED OPENING
"PBR" PANEL WALL



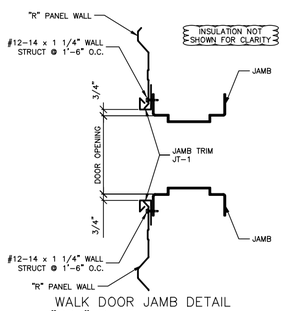
BASE CHANNEL DETAIL
"PBR" PANEL WALL



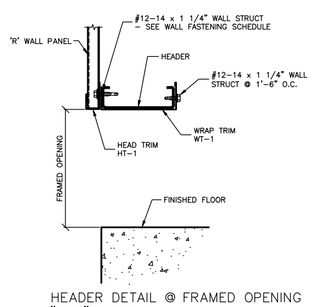
OUTSIDE CORNER DETAIL
"R" PANEL WALL



WALK DOOR HEADER DETAIL
"PBR" PANEL WALL



WALK DOOR JAMB DETAIL
"PBR" PANEL WALL



HEADER DETAIL @ FRAMED OPENING
"PBR" PANEL WALL

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 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)	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW			
(6)	3228099	SCREW 8 X 1/2 HWH SD NW	(19)	996011	BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2688008)
			(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 1/2 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)			
(12)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(25)	3228126	SCREW 17 X 1 LG-LF ST WW
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(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
	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

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

NOTES:

1. FOR SEQUENCE OF ERECTION - SEE APPLICABLE WALL PANEL ERECTION GUIDE.
2. FOR FLANGE BRACE LOCATIONS - SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
3. SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
4. 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.
5. ATTACH FLANGE BRACE TO HOLE IN GIRT WHICH BEST FITS THE FLANGE BRACE LENGTH SUPPLIED FOR THE LOCATION.

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

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).

SCOTT D. CLOSE
LICENSE
No. 65849
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SCALE : NONE		
DRAWN BY D. WURDINGER	DATE 4-30-24	BOONE OFFICE 2024 LAKE CITY, FL 32024
CHECKED BY DANA	DATE 4-30-24	
APPROVED BY SDC	DATE 5-1-24	ERECTION DETAILS
REVIEWED BY	DATE	

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X4405 SHT. 19 OF 19

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