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-1002; CAN/CSA A660-10 CERTIFICATION OF MANUFACTURERS OF STEEL BUILDING SYSTEMS CERTIFIED BY QUASAR, CERTIFICATE NUMBER BEHMFG.
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 OR PANELS, 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.

INSULATION

	NONE	BY OTHERS	BY BEHLEN	THICKNESS OVER ZEE	VAPOR BARRIER FLANGE BR. CLIP	RIGID BOARD
ROOF:		■		3 1/2"	■	
WALL:		■		THERMAL TAPE		
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: X2212
NAME: MORAN
ADDRESS:
CITY, STATE: HAYDEN, COLORADO 81639
BUILDER: CHARCHALIS CONSTRUCTION AND INSULATION

PANEL, TRIM AND FRAMING INFORMATION

ROOF PANELS

TYPE: ZL16 GAUGE: 24 COLOR:
UL90 CERTIFICATION: NO

IF ZL-16: FLOATING PANEL CLIPS
CLIP HEIGHT:
SHORT (3/8")
(1 1/2" TO 4" INSULATION)
NO THERMAL BLOCKS

WALL PANELS

TYPE: ADP2 GAUGE: 26 COLOR:

SOFFIT PANELS

TYPE: ADP2 GAUGE: 26 COLOR:

TRIM

RAKE:	GAUGE: 26	COLOR:
EAVE:	GAUGE: 26	COLOR:
HEADER:	GAUGE: 26	COLOR:
SILL:	GAUGE: 26	COLOR:
JAMB:	GAUGE: 26	COLOR:
COPED FLASHING:	GAUGE: 26	COLOR:
BASE SEAL:	GAUGE: 26	COLOR:
CORNER:	GAUGE: 26	COLOR:
SOFFIT:	GAUGE: 26	COLOR:

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 15

GRAVITY LOAD DATA

ROOF LIVE LOAD (psf,*)	: 20.00
UNIFORM ROOF SNOW LOAD (psf)(MAIN)	: 97.30
UNIFORM ROOF SNOW LOAD (psf)(A&B)	: 97.30
SNOW IMPORTANCE FACTOR	: 1.00
RAIN ON SNOW (psf)	: 0.00
Pg (psf)	: 139.0
Pf (psf)(MAIN BUILDING)	: 97.3
Pf (psf)(BUILDING "A"&"B")	: 116.8
Ce	: 1.00
Ct(MAIN BUILDING)	: 1.00
Ct(BUILDING "A"&"B")	: 1.20
COLLATERAL LOAD (psf)	: 3.0

WIND LOAD DATA

BASIC WIND SPEED (mph)	: 115
WIND EXPOSURE	: C
WIND IMPORTANCE FACTOR	: 1.00
GCpi (MAIN BUILDING)=	: ±0.18
GCpi (BUILDING "A"&"B")=	: ±0.55
RISK CATEGORY	: II

EARTHQUAKE LOAD DATA

SITE CLASS			: D
Ss (%g)	: 27.1	Sds:	: 0.286
S1 (%g)	: 7.5	Sd1:	: 0.120
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

*Non-Reducible

MEZZANINE LOADING

FLOOR DEAD LOAD (psf) : 3.375 (1.125" OF PLYWOOD ONLY)
FLOOR LIVE LOAD (psf) : 75.0
FLOOR COLLATERAL LOAD (psf): 13.0
FLOOR PARTITION (psf) : 20.0

MEZZANINE LOADING

FLOOR DEAD LOAD (psf) : 43.0 (4" OF CONCRETE ONLY)
FLOOR LIVE LOAD (psf) : 75.0
FLOOR COLLATERAL LOAD (psf): 13.0
FLOOR PARTITION (psf) : 20.0

KEY PLAN

MBMA METAL BUILDING MANUFACTURERS ASSOCIATION
SGS ISO9001 MEMBER
AISC MEMBER
IAS ACCREDITED MB-1002 AC472
cwbregistration CWB CERTIFIED CSA A660

MORAN
HAYDEN, COLORADO 81639
JOB NO. X2212

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

BEHLEN WALL PANEL: ADP2
BEHLEN ROOF PANEL: ZL16
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

STEPHEN JOSEPH REGENS 43093 PROFESSIONAL ENGINEER
9/24/2019
9/16/2019

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

SCALE : NONE
DRAWN BY C.W.QUAIL DATE 09-13-19
CHECKED BY CHARLIE DATE 9-13-2019
APPROVED BY NRD DATE 9/13/19
REVIEWED BY DATE

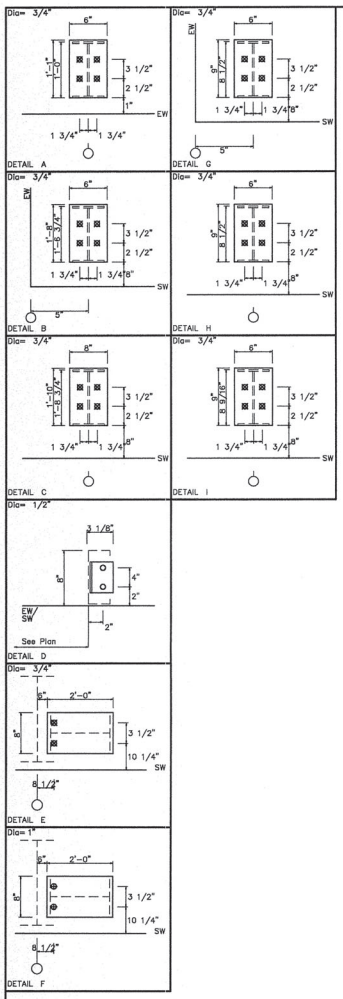
MORAN
HAYDEN, COLORADO

GENERAL INFORMATION

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

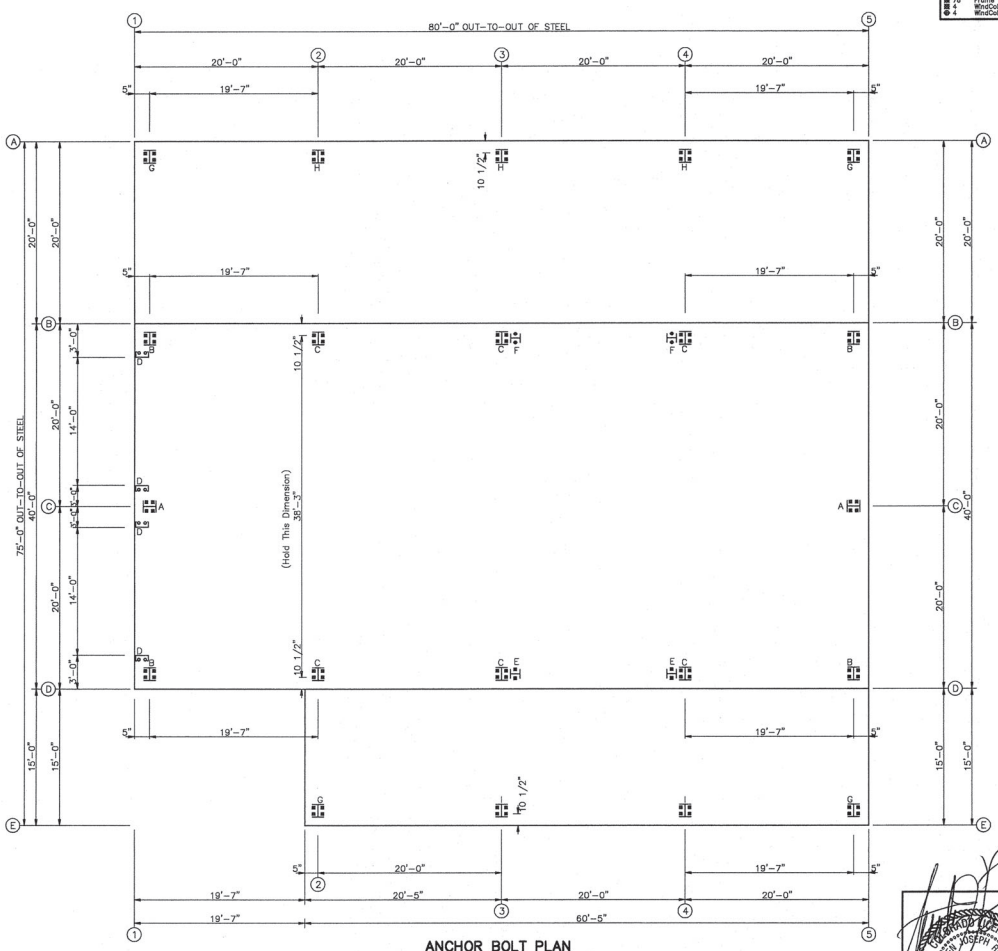
JOB NO. X2212 SHT. 1 OF 33

CWQ



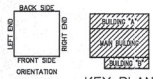
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
8	Jamb	1/2"	F1554	1.00
8	Endwall	3/4"	F1554	2.50
76	Frame	3/4"	F1554	2.50
8	WindCol	3/4"	F1554	2.00
4	WindCol	1"	F1554	3.00



ANCHOR BOLT PLAN

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



KEY PLAN

COLORADO LICENSED
STEPHEN JOSEPH MEURER
43093
9/16/2019
PROFESSIONAL ENGINEER
9/24/2019

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 C.W.QUAIL	DATE 09-13-19	
CHECKED BY CHARLIE	DATE 9-13-2019	
APPROVED BY NRD	DATE 9/13/19	
REVIEWED BY	DATE	

MORAN
HAYDEN, COLORADO

ANCHOR BOLT PLAN

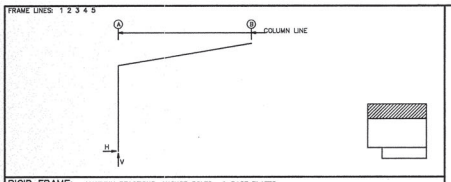
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212

SHT. 2 OF 32

CWQ

FRAME LINES: 1 2 3 4 5



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
1*	A	6	1.1	-1.8	3	-1.2	0.4	4	0.750	6.000	9.000	0.375	0.0
		2	-0.2	23.0	5	-0.1	-2.9						

1* Frame lines: 1 5

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
2*	A	8	1.6	-3.1	3	-1.6	1.9	4	0.750	6.000	9.000	0.375	0.0
		2	-0.3	38.6	5	0.2	-3.5						

2* Frame lines: 2 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Slide_Snow Horiz	Slide_Snow Vert
1*	A	0.0	1.3	0.0	0.5	0.0	3.0	-0.2	17.7	0.0	2.0	0.1	3.8

Frame Line	Column Line	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert
1*	A	-0.1	-6.2	1.8	-4.3	-2.0	-2.3	-0.1	-0.4	1.7	-5.6	1.7	-5.6

Frame Line	Column Line	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	MIN_SNOW Horiz	MIN_SNOW Vert
1*	A	0.0	0.1	0.0	-0.1	0.2	14.9

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Slide_Snow Horiz	Slide_Snow Vert
2*	A	0.0	2.0	0.0	0.8	-0.1	5.0	-0.4	28.9	0.1	3.9	0.2	7.1

Frame Line	Column Line	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert
2*	A	0.4	-7.9	2.3	-3.9	-2.6	-1.5	-0.8	0.5	2.7	-7.0	2.7	-7.2

Frame Line	Column Line	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	Selsmic_Long Horiz	Selsmic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert
2*	A	0.0	0.1	0.0	-0.1	0.0	0.3	0.4	24.4

1* Frame lines: 1 5
2* Frame lines: 2 3 4

LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+Snow+Snow_Drift
2	Dead+Collateral+Snow+Slide_Snow
3	Dead+Collateral+0.6Wind_Left2
4	Dead+Collateral+0.6Wind_Long2R
5	0.6Dead+0.6Wind_Left1
6	0.6Dead+0.6Wind_Right1
7	0.6Dead+0.6Wind_Left2
8	0.6Dead+0.6Wind_Long2R
9	0.56Dead+0.75Selsmic_Long L

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k) Wind Horz	Wind Vert	Selsmic Horz	Selsmic Vert	Panel_Shear (lb/ft) Wind	Sels	Note
L_EW	1							(h)
R_EW	5							(h)
B_SW	A	Torsional Bracing Used						

(h)Rigid frame at endwall

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

ENDWALL COLUMN REACTIONS(k)

MAXIMUM HORIZONTAL = 5.4
SEE RIGID FRAME REACTIONS TABLES FOR VERTICAL REACTIONS AT ENDWALL COLUMNS

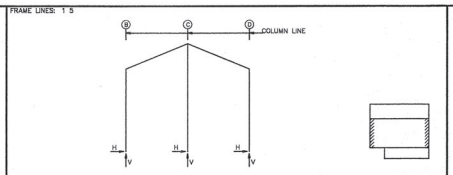
BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k) Wind Horz	Wind Vert	Selsmic Horz	Selsmic Vert	Panel_Shear (lb/ft) Wind	Sels	Note
L_EW	1							(h)
F_SW	D	3,4						(a)
A_EW	5							(h)
B_SW	B	3,4						(a)

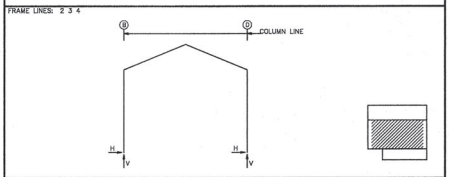
(a)Wind bent in bay
(h)Rigid frame at endwall

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

FRAME LINES: 1 5



FRAME LINES: 2 3 4



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
1*	B	8	4.5	4.8	3	-4.8	6.3	4	0.750	6.000	20.00	0.375	0.0
		10	0.7	47.5	7	-4.1	-3.2						
1*	D	4	4.9	8.3	7	-4.4	9.1	4	0.750	6.000	20.00	0.375	0.0
		9	-0.8	45.0	8	4.2	-2.7						
1*	C	8	0.1	-1.1	7	0.0	-1.1	4	0.750	6.000	12.00	0.375	0.0
		1	0.0	31.4	8	0.1	-1.1						

1* Frame lines: 1 5

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
2*	B	6	7.3	98.8	3	-6.8	17.6	4	0.750	8.000	22.00	0.500	0.0
		1	4.1	108.2	7	-4.1	-1.7						
2*	D	4	6.9	17.1	5	-7.2	92.8	4	0.750	8.000	22.00	0.500	0.0
		1	-4.1	98.2	8	4.3	-1.0						

2* Frame lines: 2 3 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	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert
1*	B	-0.2	8.9	-0.1	3.4	-0.1	5.1	-0.3	14.7	-0.7	29.5	-0.2	5.7
1*	D	0.2	8.8	0.1	3.4	0.1	5.3	0.3	13.1	0.6	29.9	0.2	5.7
1*	C	0.0	3.5	0.0	1.4	0.0	5.2	0.0	2.9	0.0	25.7	0.0	5.9

Frame Line	Column Line	Slide_Snow Horiz	Slide_Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert
1*	B	-0.2	5.5	-6.7	-14.3	7.7	-1.0	-7.7	-10.0	6.7	3.3	2.2	-8.3
1*	D	0.2	4.2	-7.5	-0.3	6.9	-13.4	-6.5	3.5	7.8	-9.8	-1.3	-7.2
1*	C	0.0	0.8	-0.1	-5.3	0.1	-5.3	-0.1	-3.7	0.1	-3.7	0.0	-5.2

Frame Line	Column Line	Wind_Long2 Horiz	Wind_Long2 Vert	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	Selsmic_Long Horiz	Selsmic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert
1*	B	0.7	-8.8	-3.1	-3.2	3.1	3.2	0.7	0.7	-0.4	11.8	-0.3	13.9
1*	D	-2.8	-6.6	-3.1	3.2	3.1	-3.2	0.8	-0.7	0.4	11.8	0.3	13.9
1*	C	0.0	-5.2	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	24.0	0.0	20.6

Frame Line	Column Line	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
1*	B	-0.3	3.5
1*	D	0.3	13.5
1*	C	0.0	20.6

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Floor Horiz	Floor Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert
2*	B	-0.1	17.7	0.0	7.1	1.1	12.7	-0.9	29.5	4.8	69.4	-0.5	12.0
2*	D	0.1	17.5	0.0	7.1	-1.1	11.6	0.9	30.4	-4.8	63.1	0.6	10.4

Frame Line	Column Line	Slide_Snow Horiz	Slide_Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert
2*	B	-0.5	11.5	-6.7	-20.5	10.0	-5.3	-11.5	-12.1	5.4	3.1	7.5	-12.6
2*	D	0.6	8.7	-9.8	-4.4	7.1	-18.2	-5.3	2.8	11.4	-12.5	-5.1	-12.3

Frame Line	Column Line	Wind_Long2 Horiz	Wind_Long2 Vert	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	Selsmic_Long Horiz	Selsmic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert	F2UNB_SL_L Horiz	F2UNB_SL_L Vert
2*	B	6.0	-13.2	-2.6	-3.0	2.6	3.0	-1.5	-11.5	6.1	39.0	4.0	32.2
2*	D	-6.6	-11.7	-2.4	2.9	2.4	-2.9	-0.3	-9.7	-6.1	39.0	-4.0	18.4

Frame Line	Column Line	F2UNB_SL_R Horiz	F2UNB_SL_R Vert
2*	B	4.0	18.4
2*	D	-4.0	32.2

1* Frame lines: 1 5
2* Frame lines: 2 3 4

LOAD COMBINATIONS

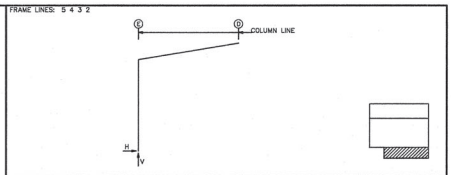
ID	Description
1	Dead+Collateral+Snow+Snow_Drift
2	Dead+Collateral+MIN_SNOW
3	Dead+Collateral+0.6Wind_Left2
4	Dead+Collateral+0.6Wind_Right2
5	Dead+Collateral+0.75Snow+0.45Wind_Left1+0.75Floor_Live
6	Dead+Collateral+0.75Snow+0.45Wind_Right1+0.75Floor_Live
7	0.6Dead+0.6Wind_Left1
8	0.6Dead+0.6Wind_Right1
9	1.03Dead+1.03Collateral+0.75Snow+0.52Selsmic_Left+0.75Floor_Live
10	1.03Dead+1.03Collateral+0.75Snow+0.52Selsmic_Right+0.75Floor_Live
11	0.6Dead+0.6Wind_Right1+0.6Wind_Suction
12	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
13	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
14	0.6Dead+0.6Wind_Pressure+0.6Wind_Long1L

WIND BENT REACTIONS

Wall Loc	Col Line	± Reactions Wind(k) Horz	Wind Vert	Selsmic(k) Horz	Selsmic Vert	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick
F_SW	D	3	4.5	13.1	7.5	21.9	2	0.750	8.000	24.000	0.375
F_SW	D	4	4.5	13.1	7.5	21.9	2	0.750	8.000	24.000	0.375
B_SW	B	4	4.8	14.0	6.7	25.4	2	1.000	8.000	24.000	0.375
B_SW	B	3	4.8	14.0	6.7	25.4	2	1.000	8.000	24.000	0.375

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

FRAME LINES: 5 4 3 2



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
5*	E	6	1.2	-1.9	3	-1.3	0.3	4	0.750	6.000	9.000	0.375	0.0
		2	-0.3	20.7	5	-0.1	-2.4						

5* Frame lines: 5 2

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Base Elev (in)
4*	E	8	1.8	-2.4	3	-1.7	1.4	4	0.750	6.000	9.000	0.375	0.0
		2	-0.3	34.9	5	0.3	-2.9						

4* Frame lines: 4 3

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Slide_Snow Horiz	Slide_Snow Vert
3*	E	0.0	1.0	0.0	0.4	-0.1	2.5	-0.3	14.3	0.1	2.8	0.1	5.0

Frame Line	Column Line	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert
3*	E	-0.1	-5.0	2.0	-3.6	-2.2	-1.9	-0.1	-0.4	1.9	-4.3	1.9	-4.5

Frame Line	Column Line	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	Selsmic_Long Horiz	Selsmic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert
3*	E	0.0	0.1	0.0	-0.1	0.0	0.1	0.2	11.5

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Snow_Drift Horiz	Snow_Drift Vert	Slide_Snow Horiz	Slide_Snow Vert
4*	E	0.0	1.6	0.0	0.6	-0.1	4.0	-0.4	23.1	0.1	5.4	0.2	9.6

Frame Line	Column Line	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert
4*	E	0.5	-6.4	2.3	-4.7	-2.8	-1.3	-0.6	0.3	3.0	-5.5	3.5	-5.6

Frame Line	Column Line	Selsmic_Left Horiz	Selsmic_Left Vert	Selsmic_Right Horiz	Selsmic_Right Vert	Selsmic_Long Horiz	Selsmic_Long Vert	MIN_SNOW Horiz	MIN_SNOW Vert
4*	E	0.0	0.1	0.0	-0.1	0.0	0.1	0.3	18.5

5* Frame lines: 5 2
4* Frame lines: 4 3

ENDWALL COLUMN REACTIONS(k)

MAXIMUM DOWN = 0.1
MAXIMUM UP = 0.0
MAXIMUM HORIZONTAL = 1.1

LOAD COMBINATIONS

ID	Description
1	Dead+Collateral+Snow+Snow_Drift
2	Dead+Collateral+Snow+Slide_Snow
3	Dead+Collateral+0.6Wind_Left2
4	Dead+Collateral+0.6Wind_Long2R
5	0.6Dead+0.6Wind_Left1
6	0.6Dead+0.6Wind_Right1
7	0.6Dead+0.6Wind_Left2
8	0.6Dead+0.6Wind_Long2R
9	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
10	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
11	Dead+Collateral+0.6Wind_Right2+0.6Wind_Suction

BUILDING BRACING REACTIONS

Wall Loc	Col Line	± Reactions(k) Wind Horz	Wind Vert	Selsmic Horz	Selsmic Vert	Panel_Shear (lb/ft) Wind	Sels	Note
R_EW	5							(h)
L_EW	2							(h)
F_SW	E	Torsional Bracing Used						

(h)Rigid frame at endwall

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

KEY PLAN

COLORADO LICENSED
STEPHEN JOSEPH RUMPZ
43093
9/16/2019
PROFESSIONAL ENGINEER

9/24/2019

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

SCALE : NONE
DRAWN BY C.W.QUAIL DATE 09-13-19
CHECKED BY CHARLIE DATE 9-13-2019
APPROVED BY NRD DATE 9/13/19
REVIEWED BY DATE

MORAN
HAYDEN, COLORADO

ANCHOR BOLT REACTIONS

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 3 OF 32

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
	2	14'-0" X 12'-0"		OHD	EW	X		
A	1	10'-0" X 5'-0"	17'-6"	FOS	EW			
B	1	3'-4" X 7'-2"		WK	SW			
C	1	3'-0" X 5'-0"	17'-6"	FOS	SW			
D	5	5'-0" X 5'-0"	17'-6"	FOS	SW			
E	10	4'-0" X 5'-0"	17'-6"	FOS	SW, EW			
F	4	4'-0" X 4'-0"	18'-6"	FOS	SW, EW			
G	1	3'-4" X 7'-2"	16'-0"	WK	EW			

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.

COLORADO LICENSED
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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	J. NELSON	DATE	9/16/19
CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN
HAYDEN, COLORADO 81639

BUILDING ACCESSORIES

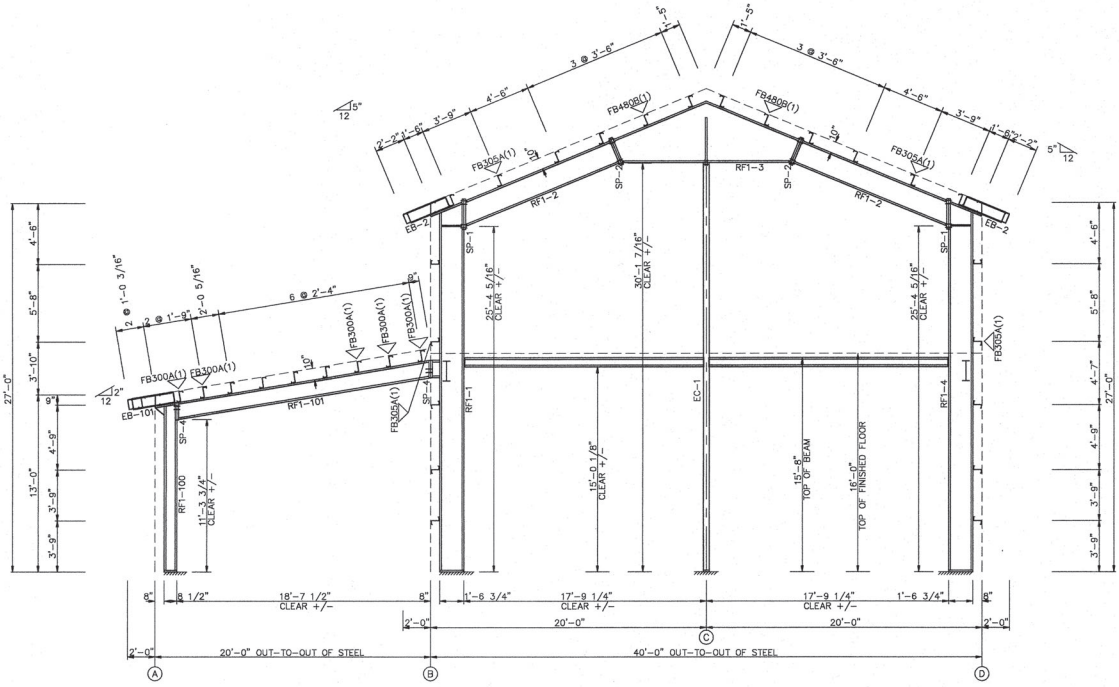
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212

SHT 4 OF 32

SPLICE PLATE & BOLT TABLE												CAP PLATE BOLTS				
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length	Mark	Qty	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.50	6"	1/2"	2'-2 1/2"	EC-1	4	A325	0.500	1.50
SP-2	4	4	0	A325	0.750	2.50	6"	3/8"	2'-0 7/8"					
SP-4	4	0	0	A325	0.750	2.50	6"	3/8"	1'-1"					

FLANGE BRACES: Both Sides(U.N.)
A – L1.5x16G
B – L3.0x12G



RIGID FRAME ELEVATION: FRAME LINE 1

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)

COLORADO LICENSED
STEPHEN JOSEPH AGUILERA
43093
9/20/2019
PROFESSIONAL ENGINEER

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

SCALE : NONE		
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639
CHECKED BY J. NELSON	DATE 9/20/19	
APPROVED BY NRD	DATE 9/20/19	RIGID FRAME ELEVATION
REVIEWED BY	DATE	

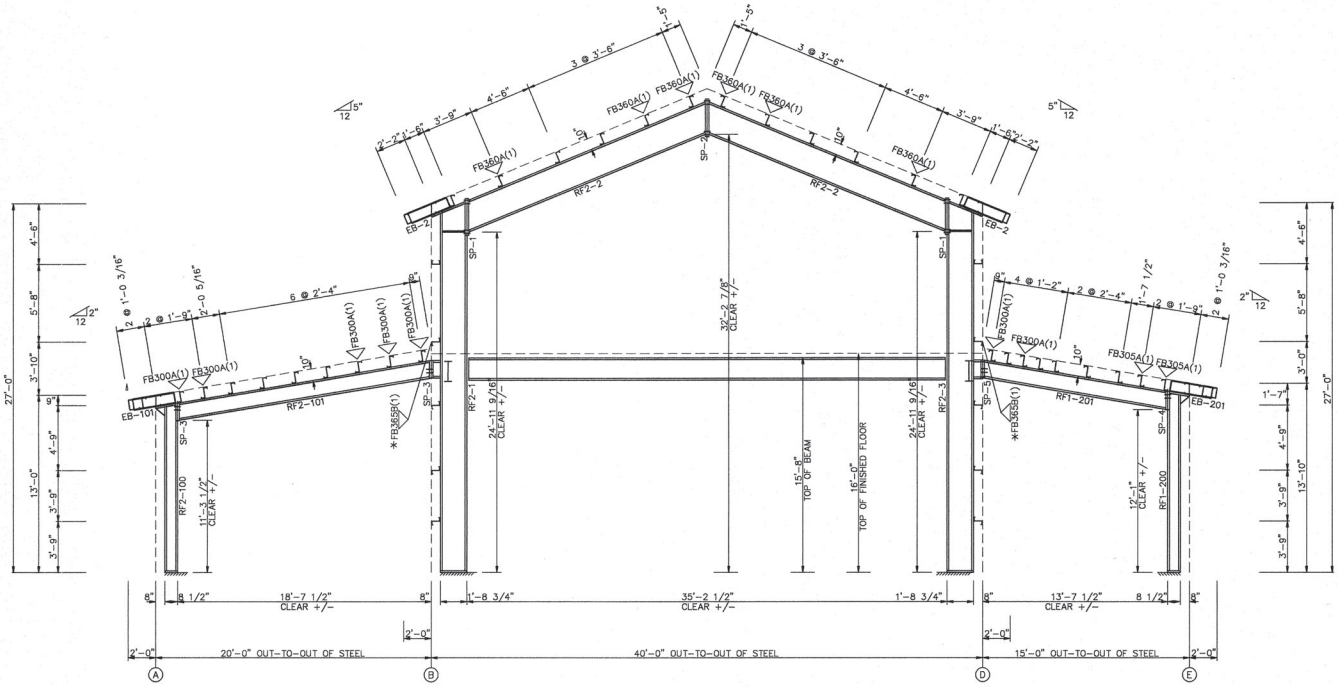
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 5 OF 32

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Qty Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	1.000	3.00	8"	5/8"	2'-8 1/2"
SP-2	4	4	0	A325	1.250	4.00	10"	5/8"	2'-9 7/8"
SP-3	4	0	0	A325	0.750	2.50	8"	3/8"	1'-1 1/4"
SP-4	4	0	0	A325	0.750	2.50	5"	3/8"	1'-1 3/4"
SP-5	4	0	0	A325	0.750	2.50	5"	3/8"	1'-0 3/4"

FLANGE BRACES: Both Sides(U.N.)
B – L2x14Ga
A – L1.5x16G

* – INDICATES BOLTED FLANGE BRACE CLIP CONNECTION.
(ALL OTHERS ARE SCREWED FLANGE BRACE CLIP CONNECTION)



RIGID FRAME ELEVATION: FRAME LINE 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)

COLORADO LICENSED
STEPHEN JOSEPH REIBERT
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9/24/2019
PROFESSIONAL ENGINEER

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

SCALE : NONE		
DRAWN BY J. NELSON	DATE 9/16/19	
CHECKED BY J. NELSON	DATE 9/20/19	
APPROVED BY NRD	DATE 9/20/19	
REVIEWED BY	DATE	

MORAN
HAYDEN CO 81639

RIGID FRAME ELEVATION

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

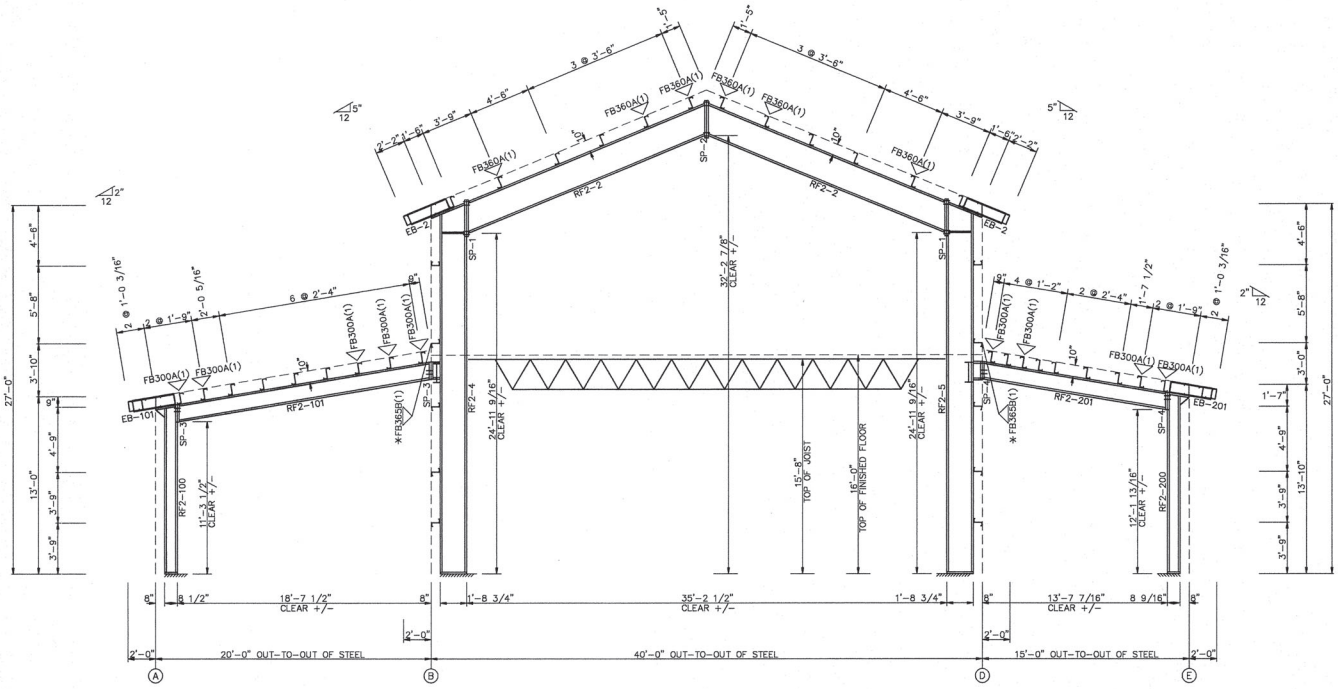
JOB NO. X2212

SHT. 6 OF 32

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Qty Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	1.000	3.00	8"	5/8"	2'-8 1/2"
SP-2	4	4	0	A325	1.250	4.00	10"	5/8"	2'-9 7/8"
SP-3	4	0	0	A325	0.750	2.50	8"	3/8"	1'-1 1/4"
SP-4	4	0	0	A325	0.750	2.50	6"	3/8"	1'-1"

FLANGE BRACES: Both Sides(U.N.)
B – L2x14Ga
A – L1.5x16G

* – INDICATES BOLTED FLANGE BRACE CLIP CONNECTION.
(ALL OTHERS ARE SCREWED FLANGE BRACE CLIP CONNECTION)



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)

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

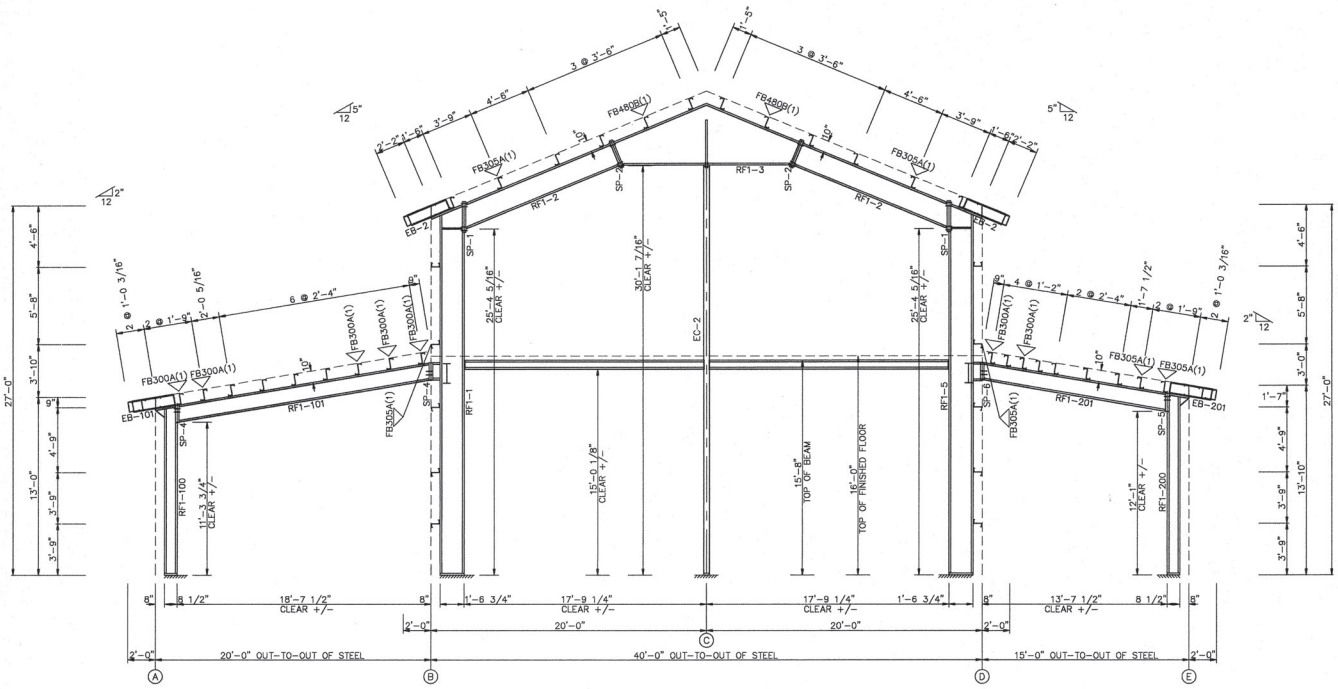
SCALE : NONE		
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639
CHECKED BY J. NELSON	DATE 9/20/19	
APPROVED BY NRD	DATE 9/20/19	RIGID FRAME ELEVATION
REVIEWED BY	DATE	

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 7 OF 32

SPLICE PLATE & BOLT TABLE												CAP PLATE BOLTS				
Mark	Qty Top	Qty Bot	Qty Int	Type	Dia	Length	Width	Thick	Length	Mark	Qty	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.50	8"	1/2"	2'-2 1/2"	EC-1	4	A325	0.500	1.50
SP-2	4	4	0	A325	0.750	2.50	8"	3/8"	2'-0 7/8"					
SP-4	4	0	0	A325	0.750	2.50	6"	3/8"	1'-1"					
SP-5	4	0	0	A325	0.750	2.50	5"	3/8"	1'-1 3/4"					
SP-6	4	0	0	A325	0.750	2.50	5"	3/8"	1'-0 3/4"					

FLANGE BRACES: Both Sides(U.N.)
A – L1.5x16G
B – L3.0x12G



RIGID FRAME ELEVATION: FRAME LINE 5

COLORADO LICENSED
STEPHEN JOSEPH REIMERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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)

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

SCALE : NONE		
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639
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APPROVED BY NRD	DATE 9/20/19	RIGID FRAME ELEVATION
REVIEWED BY	DATE	

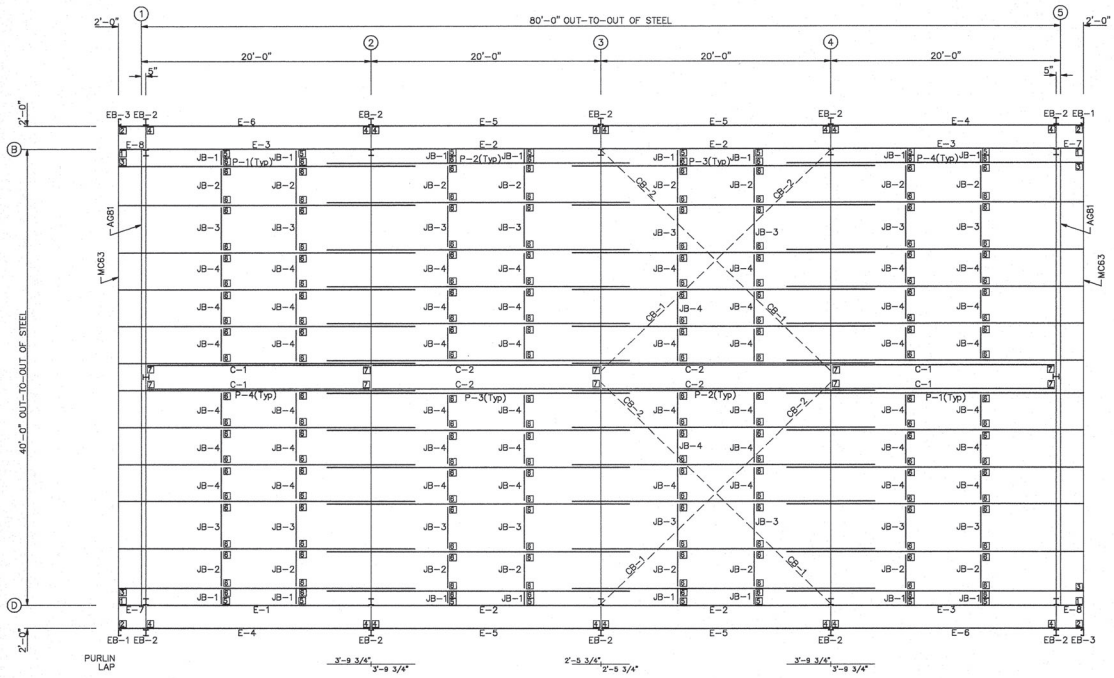
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 8 OF 32

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA.	LENGTH
EB-2	8	A325	1/2"	1 1/2"

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
EB-1	10C14	3'-0"
EB-2	W10X12	3'-0.5/16"
EB-3	10C14	3'-0"
P-1	10Z12	25'-9 5/8"
P-2	10Z14	26'-3 1/2"
P-3	10Z14	26'-3 1/2"
P-4	10Z12	25'-9 5/8"
E-1	10E14	18'-10 1/2"
E-2	10E14	19'-3 1/2"
E-3	10E14	18'-10 1/2"
E-4	10C12	21'-11 3/8"
E-5	10C12	19'-11"
E-6	10C12	21'-11 3/8"
E-7	10E14	1'-9"
CB-1	WR4	9'-0"
CB-2	WR4	20'-0"
775...	10C12	.
775...	10C12	.
JB-1	8C16	.
JB-2	8C16	.
JB-3	8C16	.
JB-4	8C16	.

CONNECTION PLATES ROOF PLAN	
ID	MARK/PART
1	CP217
2	CP215
3	CP216
4	CP179
5	776...
6	CP96
7	775...



NOTE: JB-1 THRU JB-4 @ 1/3 POINTS.

ROOF FRAMING PLAN

EB – 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.

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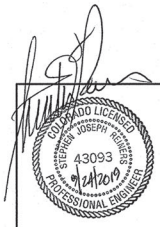


LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

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

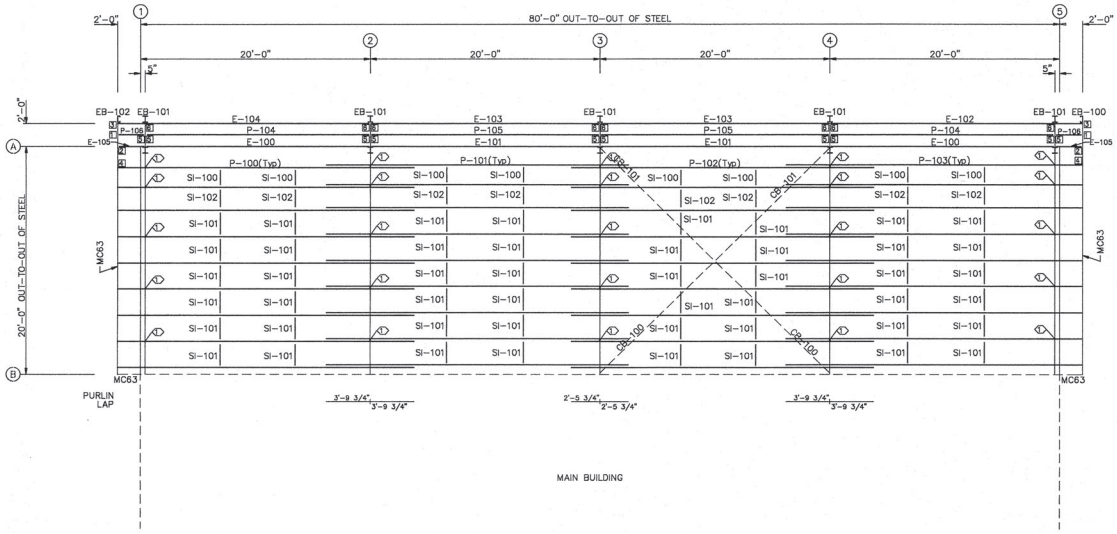
SCALE : NONE			
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ROOF FRAMING	JOB NO. X2212 SHT. 9 OF 32
REVIEWED BY	DATE		

SPECIAL BOLTS & WASHERS ROOF PLAN					
ID	QUAN	TYPE	DIA	LENGTH	W/BT
1	4	A325	1/2"	1 1/2"	0
	W/MP206 BACK-UP PLATE				

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-101	4	A325	1/2"	1 1/2"

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
EB-100	10C14	3'-1 5/16"
EB-101	W10X12	3'-0 5/8"
EB-102	10C14	3'-1 5/16"
P-100	10Z12	26'-3 5/8"
P-101	10Z14	26'-3 1/2"
P-102	10Z14	26'-3 1/2"
P-103	10Z12	25'-8 5/8"
P-104	10Z14	18'-10 1/4"
P-105	10Z14	19'-3 1/4"
P-106	10Z14	1'-8 7/8"
E-100	10E14	18'-10 1/2"
E-101	10E14	19'-3 1/2"
E-102	10C14	21'-11 3/8"
E-103	10C14	19'-11"
E-104	10C14	21'-11 3/8"
E-105	10E14	1'-9"
CB-100	WR4	6'-10"
CB-101	WR4	20'-0"
SI-100	SU67	
SI-101	SU67	
SI-102	SU67	

CONNECTION PLATES ROOF PLAN	
ID	MARK/PART
1	CP102
2	CP217
3	CP215
4	CP216
5	CP167
6	CP179



ROOF FRAMING PLAN

⊠ - 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.

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

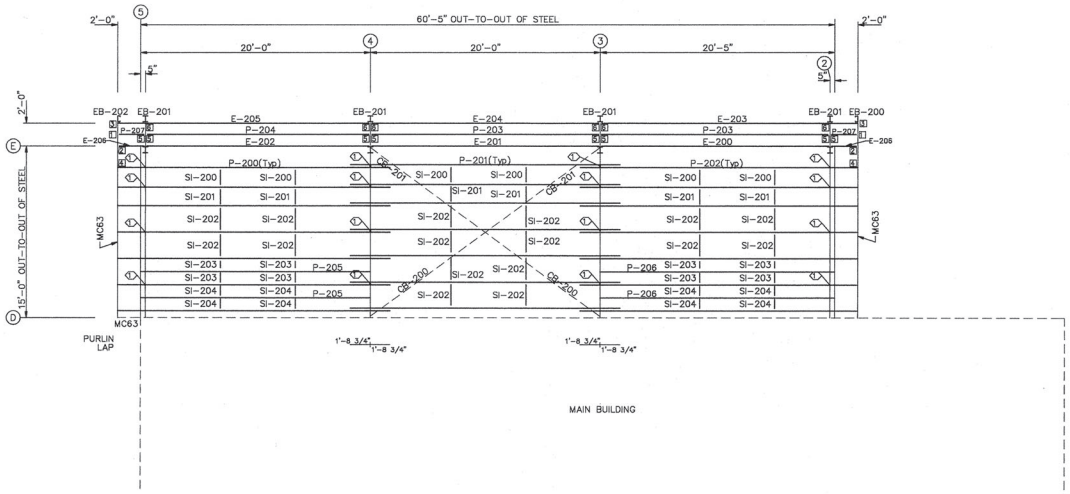
SCALE : NONE		
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639
CHECKED BY J. NELSON	DATE 9/20/19	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
APPROVED BY NRD	DATE 9/23/19	ROOF FRAMING
REVIEWED BY	DATE	JOB NO. X2212 SHT. 10 OF 32

SPECIAL BOLTS & WASHERS ROOF PLAN					
O ID	QUAN	TYPE	DIA	LENGTH	W/BT
1	4	A325 W/MP206 BACK-UP PLATE	1/2"	1 1/2"	0

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-201	4	A325	1/2"	1 1/2"

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
EB-200	10C14	3'-1 5/16"
EB-201	W10X12	3'-0 5/8"
EB-202	10C14	3'-1 5/16"
P-200	10Z12	23'-8 5/8"
P-201	10Z12	23'-5 1/2"
P-202	10Z12	24'-1 5/8"
P-203	10Z14	19'-3 1/4"
P-204	10Z14	18'-10 1/4"
P-205	10Z12	22'-1 7/8"
P-206	10Z12	22'-5 7/8"
P-207	10Z14	1'-8 7/8"
E-200	10E12	19'-3 1/2"
E-201	10E12	19'-3 1/2"
E-202	10E12	18'-10 1/2"
E-203	10C14	22'-4 3/8"
E-204	10C14	19'-11"
E-205	10C14	21'-11 3/8"
E-206	10E12	1'-9"
CB-200	WR4	3'-11"
CB-201	WR4	20'-0"
SI-200	SU6?	
SI-201	SU6?	
SI-202	SU6?	
SI-203	SU6?	
SI-204	SU6?	

CONNECTION PLATES ROOF PLAN	
ID	MARK/PART
1	CP102
2	CP217
3	CP215
4	CP216
5	CP167
6	CP179



ROOF FRAMING PLAN

[B] - 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.

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

SCALE : NONE			
DRAWN BY	J. NELSON	DATE	9/16/19
CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

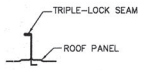
MORAN HAYDEN CO 81639

ROOF FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 11 OF 32

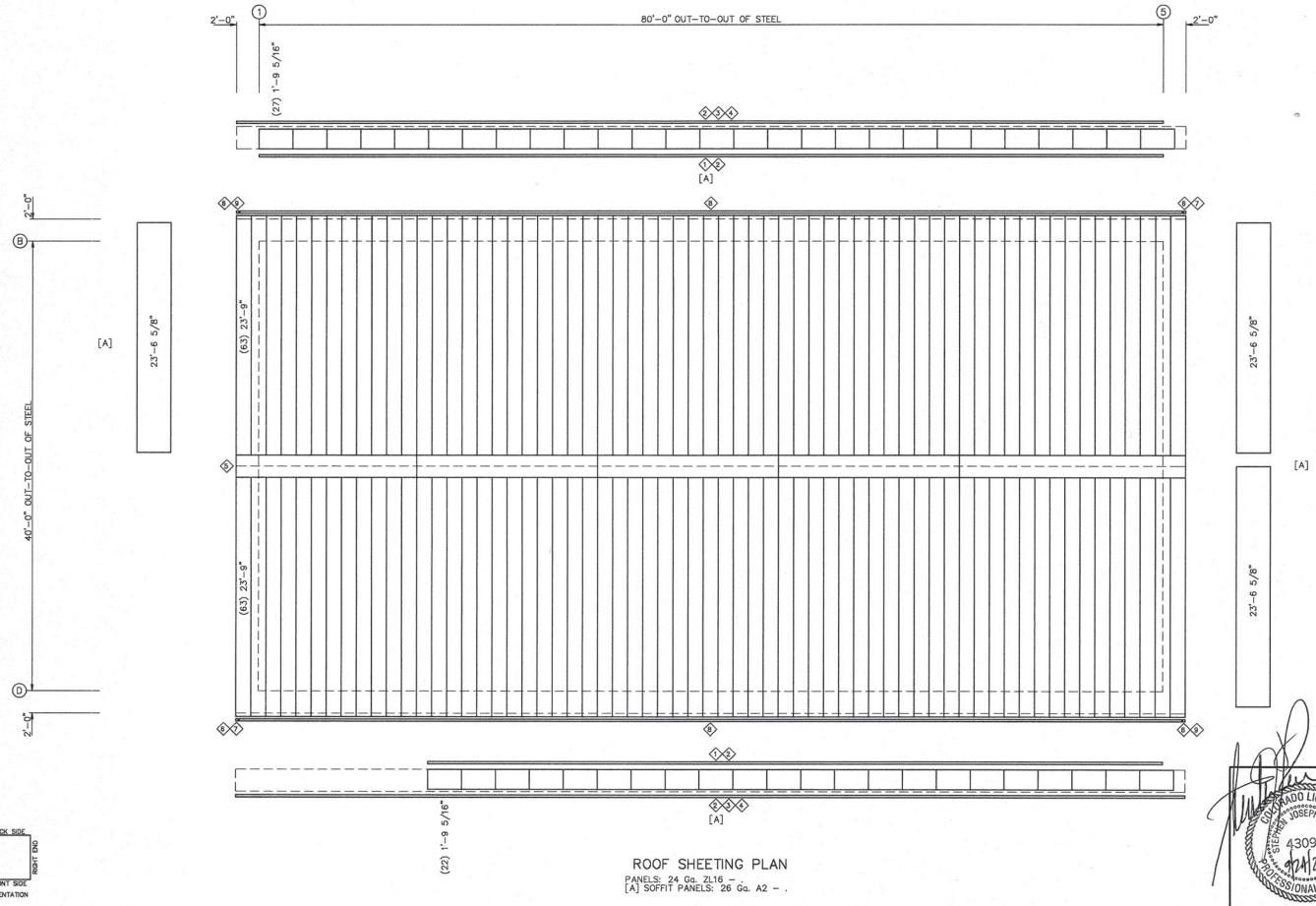
ROOF PANEL SEAM TYPES



FINISHED SEAM

DENOTES AREA OF ROOF THAT REQUIRES TRIPLE-LOCK SEAM

TRIM TABLE ROOF PLAN	
ID	PART
1	TFE7
2	TE32
3	MZ16
4	TW33
5	TBQ7
6	TE13
7	TRB4
8	TE101-20
9	TRB3



ROOF SHEETING PLAN

PANELS: 24 Ga. ZL16 – .
[A] SOFFIT PANELS: 26 Ga. A2 – .

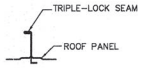
[#] – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

COLORADO LICENSED
STEPHEN JOSEPH ALBERS
43093
9/24/2019
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 J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ROOF SHEETING	JOB NO. X2212 SHT. 12 OF 32
REVIEWED BY	DATE		

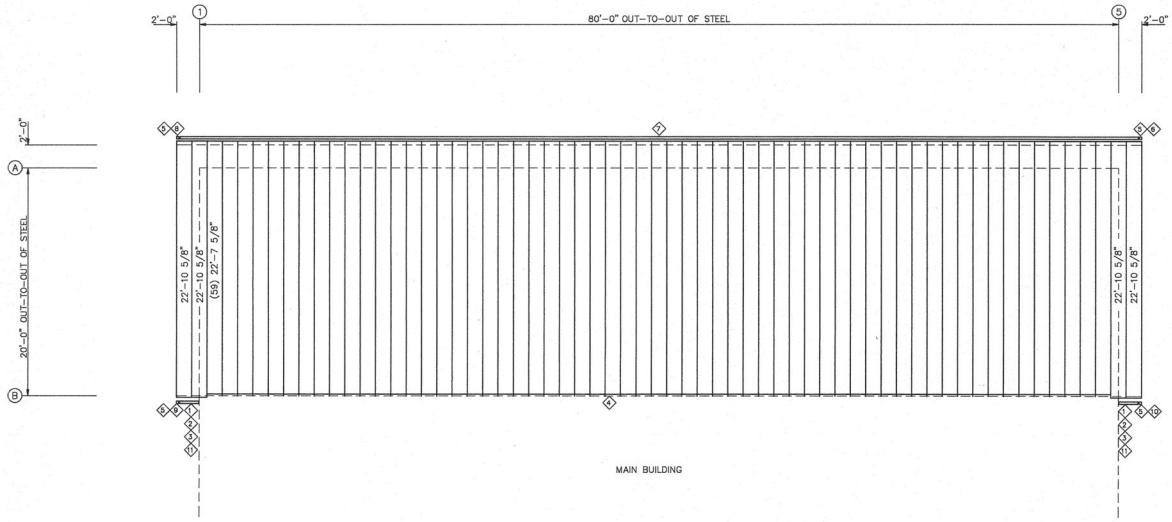
ROOF PANEL SEAM TYPES



FINISHED SEAM

DENOTES AREA OF ROOF THAT REQUIRES TRIPLE-LOCK SEAM

TRIM TABLE ROOF PLAN	
SYM	PART
1	MZ16
2	TE32
3	TW33
4	TCU?
5	TE13
6	TR84
7	TE101-20
8	TR83
9	TR85
10	TR86
11	TE105-20



ROOF SHEETING PLAN

PANELS: 24 Ga. ZL16 - .

B - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

COLORADO LICENSED PROFESSIONAL ENGINEER JOSEPH NEIMERS 43093 STATE 7-24-2019

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	J. NELSON	DATE	9/16/19
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APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN HAYDEN CO 81639

ROOF SHEETING

BEHLEN MFG. CO. COLUMBUS, NEBRASKA

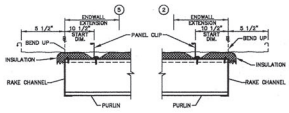
JOB NO. X2212 SHT. 13 OF 32

ROOF PANEL SEAM TYPES

FINISHED SEAM

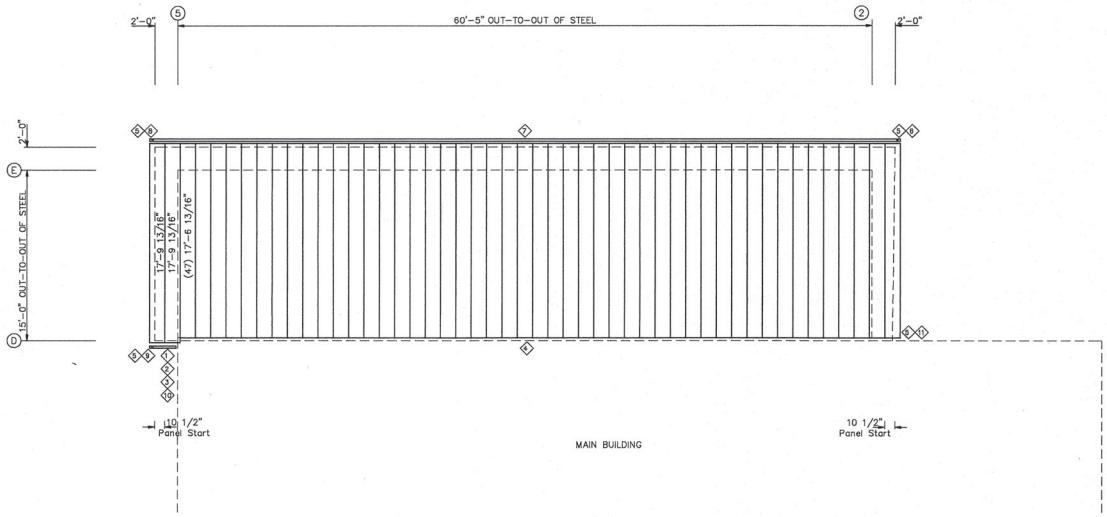
DENOTES AREA OF ROOF THAT REQUIRES TRIPLE-LOCK SEAM

TRIM TABLE ROOF PLAN	
SYM	PART
1	MZ16
2	TE32
3	TW33
4	TCU?
5	TE13
6	TR84
7	TE101-20
8	TR83
9	TR85
10	TE105-20
11	TGX?



STARTING DIMENSION

SLIDING RAKE PLATE NOT SHOWN FOR CLARITY



ROOF SHEETING PLAN

PANELS: 24 Ga. ZL16 - .

⊠ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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

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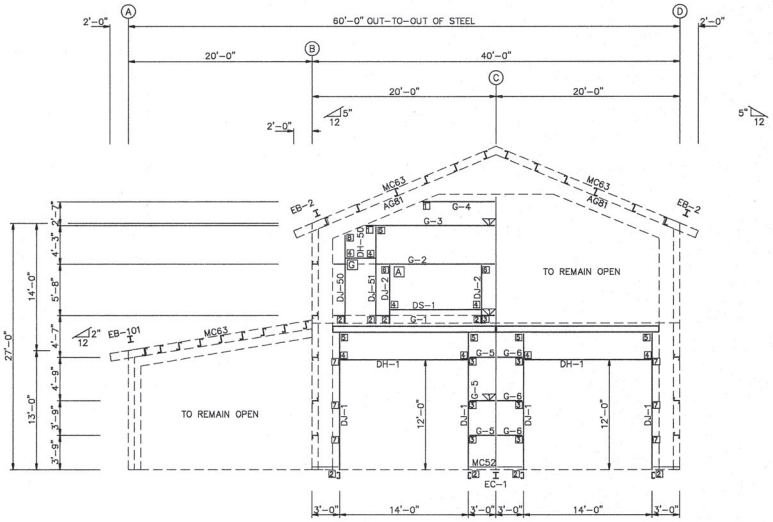
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN
HAYDEN CO 81639

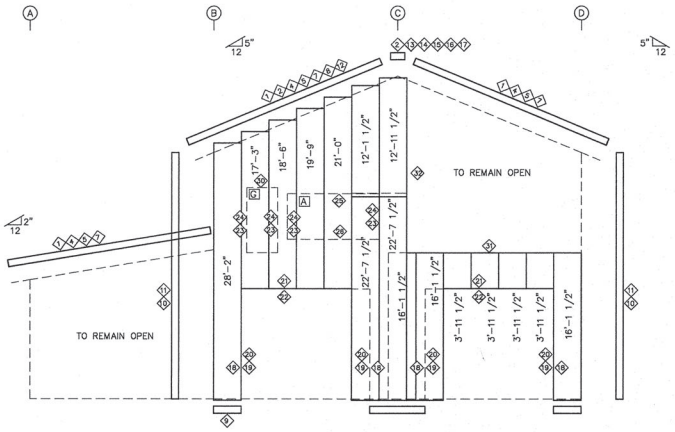
ROOF SHEETING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 14 OF 32



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. A2 – .

⊠ – DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

BOLT TABLE
FRAME LINE 1

COUNT/MD	DWAN	TYPE	DIA.	LENGTH
CODE				
Connrnte/Ast	1	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 1

COUNT	PART	LENGTH
CODE		
EB-2	W10X12	3'-0 5/16"
EC-1	S1250413	30'-1 1/2"
DJ-1	SC14	14'-7 3/4"
DJ-2	SC16	9'-3 1/4"
DJ-50	SC16	-
DJ-51	SC16	-
DH-1	SC16	13'-11 3/4"
DH-50	SC16	-
DS-1	SC16	9'-11 3/4"
G-1	SZ16	17'-4 1/2"
G-2	SC14	17'-4 1/2"
G-3	SZ16	12'-11 11/16"
G-4	SZ16	7'-9 5/16"
G-5	SZ16	2'-3 1/2"
G-6	SZ16	2'-3 1/2"
22212		
EB-101	W10X12	5'-0 3/4"

FLANGE BRACE TABLE
FRAME LINE 1

COUNT/MARK	LENGTH
11 FB1BR1	1'-3 1/2"

CONNECTION PLATES
FRAME LINE 1

CP MARK	PART
1	0
2	CP146
3	CP96
4	CP148
5	CP149
6	CP42
7	776...
8	1778...

TRIM TABLE
FRAME LINE 1

COUNT	PART
1	TM218
2	TE32
3	TR82–20
4	TR68–20
5	TR68–20
6	TW29
7	TM18–12
8	TW11–20
9	TW2–12
10	TW2–16
11	TM33–12
12	TM33–12
13	TR88
14	16861086
15	TR87
16	WZ34
17	TDE7
18	TW18–12
19	TW24–12
20	TW23–12
21	TW18–16
22	TW21–16
23	TW16
24	TW15
25	TW21–12
26	TW36–12
30	TW13
31	TM33–20
32	TW2–20

COLORADO LICENSED
STEPHEN JOSEPH REIMERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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REVIEWED BY	DATE	

MORAN
HAYDEN CO 81639

ENDWALL FRAMING

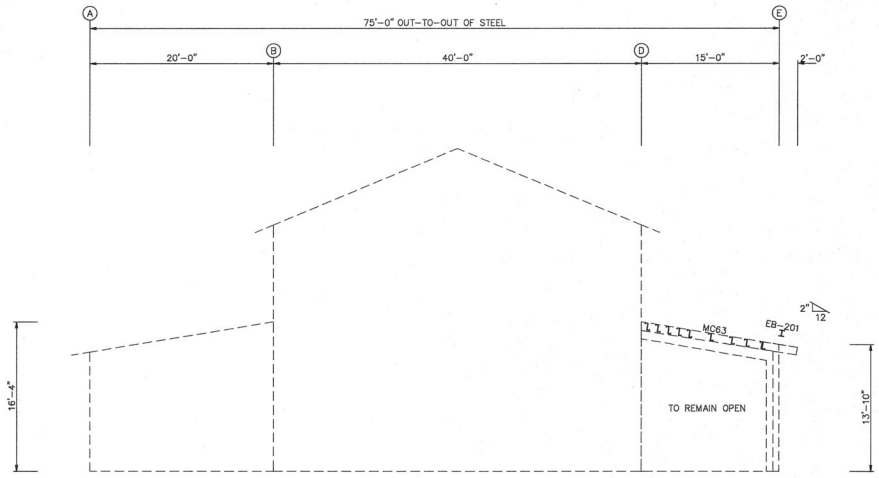
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212

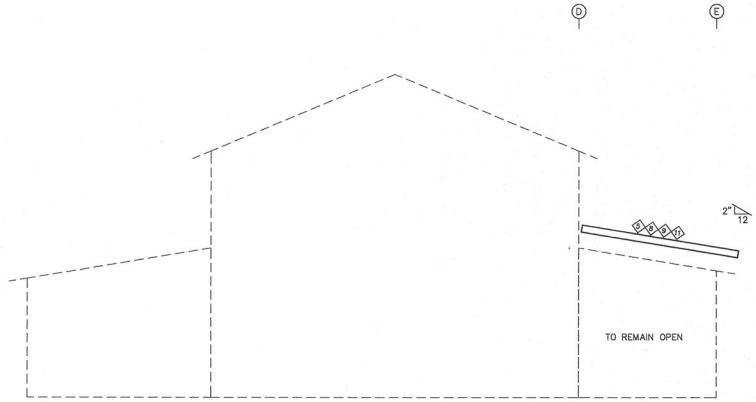
SHT. 15 OF 32

MEMBER TABLE FRAME LINE 2		
MARK	PART	LENGTH
EB-201	W10X12	3'-0 5/8"

TRIM TABLE FRAME LINE 2	
QTY	PART
5	DZ18
8	TR82-20
9	TR66-20
11	TW29



ENDWALL FRAMING: FRAME LINE 2



ENDWALL TRIM: FRAME LINE 2

DS– DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

COLORADO LICENSED
STEPHEN JOSEPH REMPEL
43093
9/24/2019
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			
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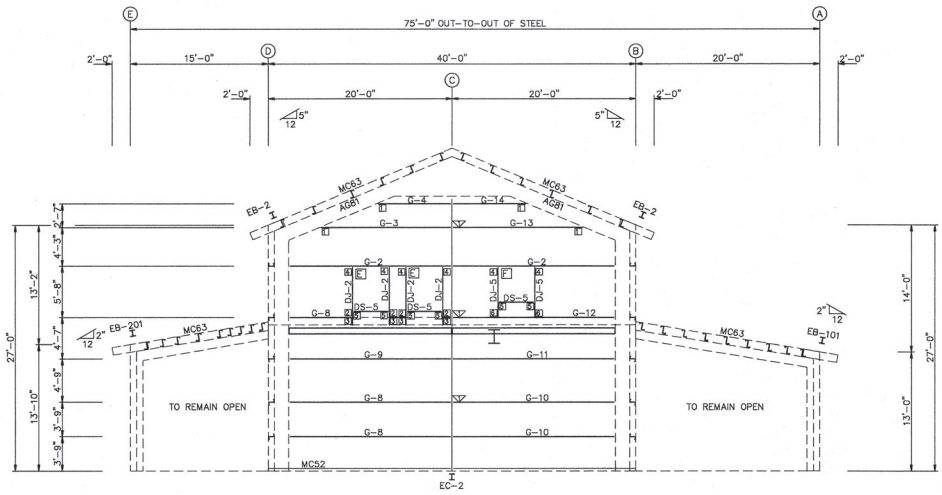
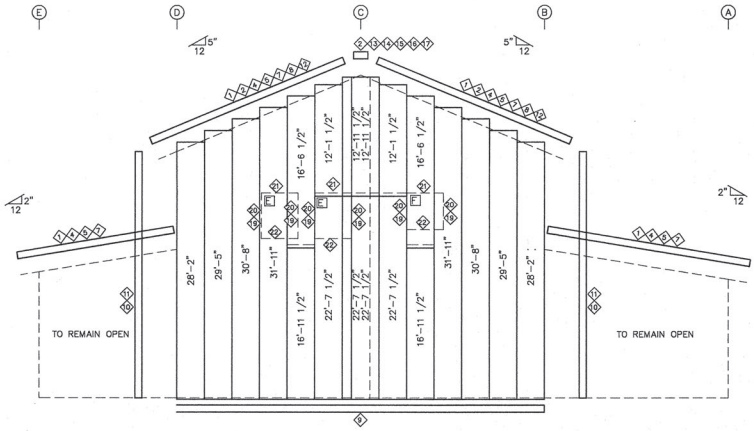
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19		
REVIEWED BY	DATE	ENDWALL FRAMING	JOB NO. X2212 SHT. 16 OF 32



ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. A2 – .

BOLT TABLE
FRAME LINE 5

LOCATION	QUAN	TYPE	DIA	LENGTH
XX212				
XX213				
XX214				
XX215				
XX216				
XX217				
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PERIMETER BEAM BOLT TABLE
FRAME LINE 5

ID	QUAN	TYPE	DIA	LENGTH
1	4	A325	1/2"	1 1/2"
2	12	A325	3/4"	1 3/4"

MEMBER TABLE
FRAME LINE 5

LOCATION	TYPE	LENGTH
XX212		
EB-2	W10X12	3'-5 5/16"
EC-2	B1250413	30'-11 7/8"
DJ-2	8C18	5'-3 1/4"
DJ-5	8C18	5'-3 1/4"
DS-5	8C18	3'-11 1/4"
G-2	8C14	13'-11 1/4"
G-3	8Z16	37'-11 11/16"
G-4	8Z16	37'-9 5/16"
G-8	8Z16	17'-4 1/2"
G-9	8Z16	17'-4 1/2"
G-10	8Z16	17'-4 1/2"
G-11	8Z16	17'-4 1/2"
G-12	8Z14	17'-4 1/2"
G-13	8Z16	37'-11 11/16"
G-14	8Z16	37'-9 5/16"
MC-5	MB410	17'-8 7/8"
XX273		
XX274		
XX275		

FLANGE BRACE TABLE
FRAME LINE 5

LOCATION	LENGTH
1	1'-7 1/2"

CONNECTION PLATES
FRAME LINE 5

ID	MARK	QUAN
1	CP38	3
2	CP46	3
3	CP42	4
4	CP48	3
5	CP48	1

TRIM TABLE
FRAME LINE 5

ID	MARK
1	MZ16
2	TE35
3	TR62–20
4	TR66–20
5	TR69–20
6	TW29
7	TM16–12
8	TW1–20
9	TW2–12
10	TW3–16
11	TM33–12
12	TM33
13	16881086
14	16881088
15	TR81
16	MZ34
17	TE21
18	TW16
19	TW15
20	TW14
21	TW13
22	TW72

COLORADO LICENSED
STEPHEN JOSEPH RECHENES
43093
9/24/2019
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	J. NELSON	DATE	9/16/19
CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN
HAYDEN CO 81639

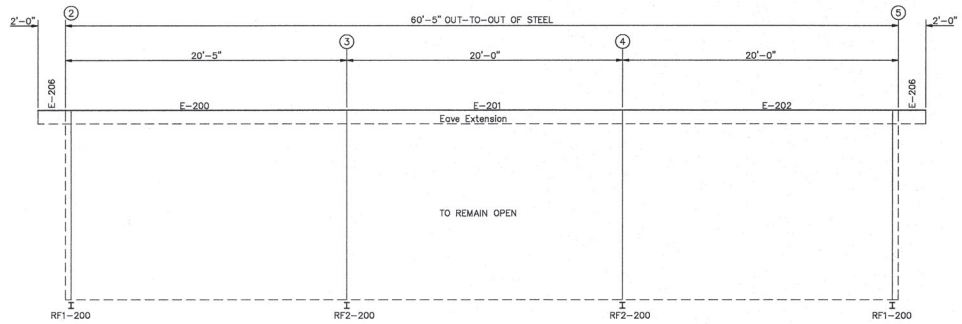
ENDWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

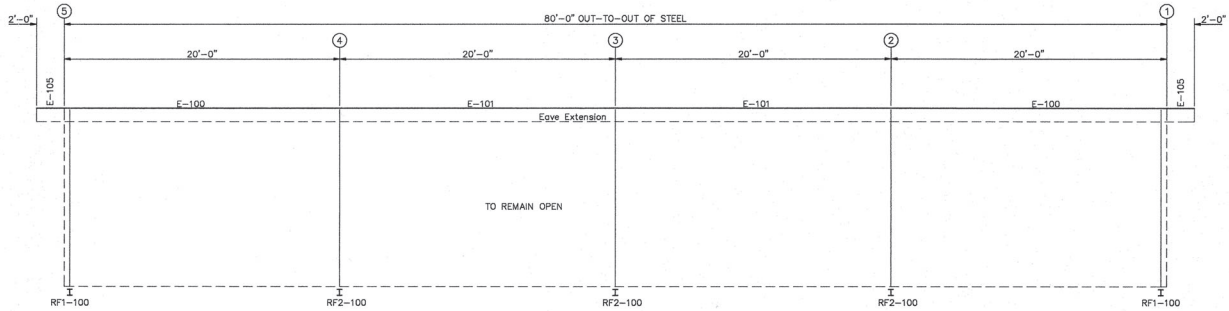
JOB NO. X2212

SHT. 17 OF 32

MEMBER TABLE FRAME LINE E		
MARK	PART	LENGTH
E-200	10E12	19'-3 1/2"
E-201	10E12	19'-3 1/2"
E-202	10E12	18'-10 1/2"
E-206	10E12	1'-9"
E-100	10E14	19'-10 1/2"
E-101	10E14	19'-3 1/2"
E-105	10E14	1'-9"



SIDEWALL FRAMING: FRAME LINE E



SIDEWALL FRAMING: FRAME LINE A

COLORADO LICENSED
STEPHEN JOSEPH FISHERS
43093
12/4/2019
PROFESSIONAL ENGINEER

[HP]– DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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SCALE : NONE

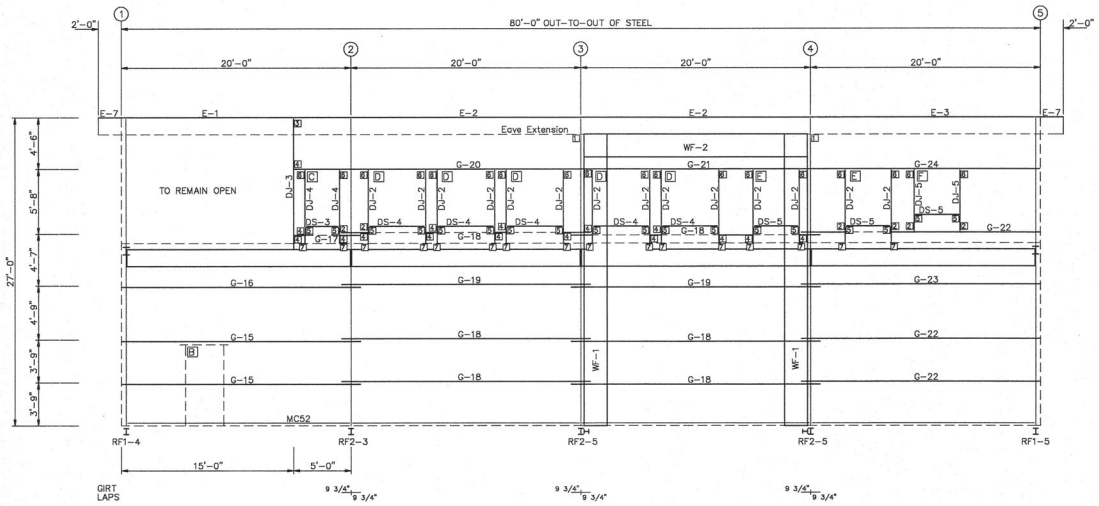
DRAWN BY	J. NELSON	DATE	9/16/19
CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN HAYDEN CO 81639

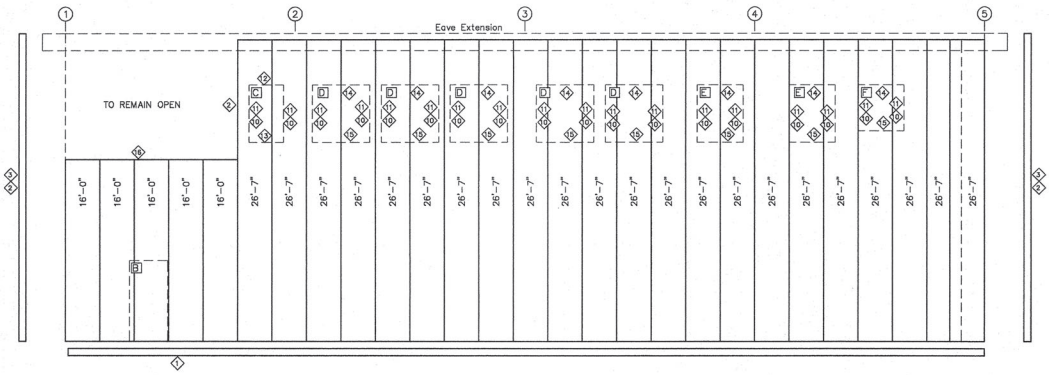
SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 18 OF 32



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Ga. A2 – .

DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

BOLT TABLE
FRAME LINE D

LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – WF-2	8	A325	3/4"	2 1/2"
WF-1 – RF2-5	4	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE D

MARK	PART	LENGTH
WF-1	B24810T6	25'-10"
WF-2	B24805T9	15'-0"
DJ-2	8C16	5'-3 1/4"
DJ-3	8C14	13'-4 3/8"
DJ-4	8C16	4'-11 1/2"
DJ-5	8C16	5'-3 1/4"
DH-2	8C14	15'-0 3/8"
DS-2	8C14	15'-0 3/8"
DS-3	8C16	2'-11 3/4"
DS-4	8C16	4'-11 3/4"
DS-5	8C16	3'-11 3/4"
E-1	10E14	18'-10 1/2"
E-2	10E14	19'-3 1/2"
E-3	10E14	18'-10 1/2"
E-7	10E14	1'-9"
G-15	8Z16	20'-9 5/8"
G-16	8Z14	20'-9 5/8"
G-17	8Z16	5'-5 1/2"
G-18	8Z16	21'-7 1/2"
G-19	8Z14	21'-7 1/2"
G-20	8C12	24'-7 5/8"
G-21	8C12	19'-11 3/4"
G-22	8Z16	20'-9 5/8"
G-23	8Z15	20'-9 5/8"
G-24	8C12	19'-11 3/4"

CONNECTION PLATES
FRAME LINE D

ID	MARK/PART
1	CP150
2	CP149
3	e1
4	CP96
5	CP148
6	CP42
7	CP146

TRIM TABLE
FRAME LINE D

QTY	PART
11	TW7-20
2	TW2-12
3	TW2-16
10	TW16
11	TW15
12	TW13
13	TW71
14	TW14
15	TW72
16	TM33-16

FRAMED OPENING PARTS
(WALK DOOR BELOW 7'-6" GIRT)

QT	MARK	PART	LENGTH
8	MC52	JAMB 8C18	7'-9 7/8"
	MT310	HEADER	4'-2"
	CP146	BASE CLIP	
	CP183	TOP CLIP	
	CP96	GIRT CLIP	
	TW16	JAMB TRIM	7'-3 1/4"
	TW15	JAMB TRIM STIFFENER	7'-3 1/4"
	TW13	DRIP CAP	3'-11"

COLORADO LICENSED
JOSEPH ROGERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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SCALE : NONE

DRAWN BY	J. NELSON	DATE	9/16/19
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APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

MORAN
HAYDEN CO 81639

SIDEWALL FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

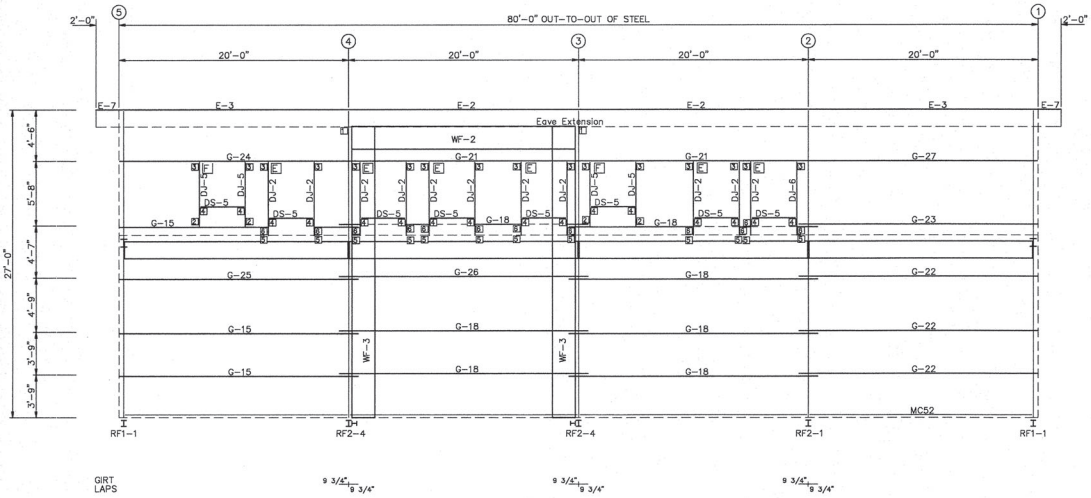
JOB NO. X2212 SHT. 19 OF 32

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

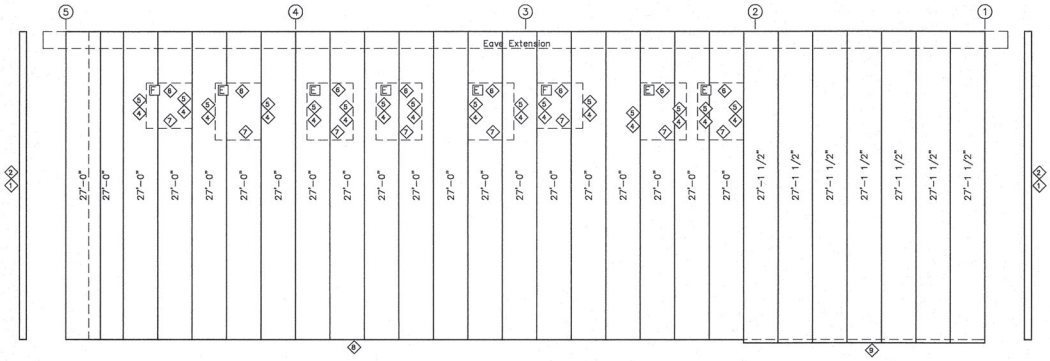
MEMBER TABLE FRAME LINE B		
MARK	PART	LENGTH
WF-2	B2480519	15'-6"
WF-3	B2481016	25'-10"
DJ-2	8C16	5'-3 1/4"
DJ-5	8C16	5'-3 1/4"
DJ-6	8C14	5'-3 1/4"
DS-5	8C16	3'-11 3/4"
E-2	10E14	19'-3 1/2"
E-3	10E14	18'-10 1/2"
E-7	10E14	1'-9"
G-15	8Z16	20'-9 5/8"
G-18	8Z16	21'-7 1/2"
G-21	8C12	19'-11 3/4"
G-22	8Z16	20'-9 5/8"
G-23	8Z15	20'-9 5/8"
G-24	8C12	19'-11 3/4"
G-25	8Z15	20'-9 5/8"
G-26	8Z15	21'-7 1/2"
G-27	8C13	19'-11 3/4"

CONNECTION PLATES FRAME LINE B	
ID	MARK/PART
1	CP159
2	CP149
3	CP42
4	CP148
5	CP146
6	CP96

TRIM TABLE FRAME LINE B	
ID	PART
1	TW2-12
2	TW2-16
4	TW15
5	TW15
6	TW14
7	TW72
8	TW17-20
9	TW11-20



SIDEWALL FRAMING: FRAME LINE B



SIDEWALL SHEETING & TRIM: FRAME LINE B

PANELS: 26 Ga. A2 - .

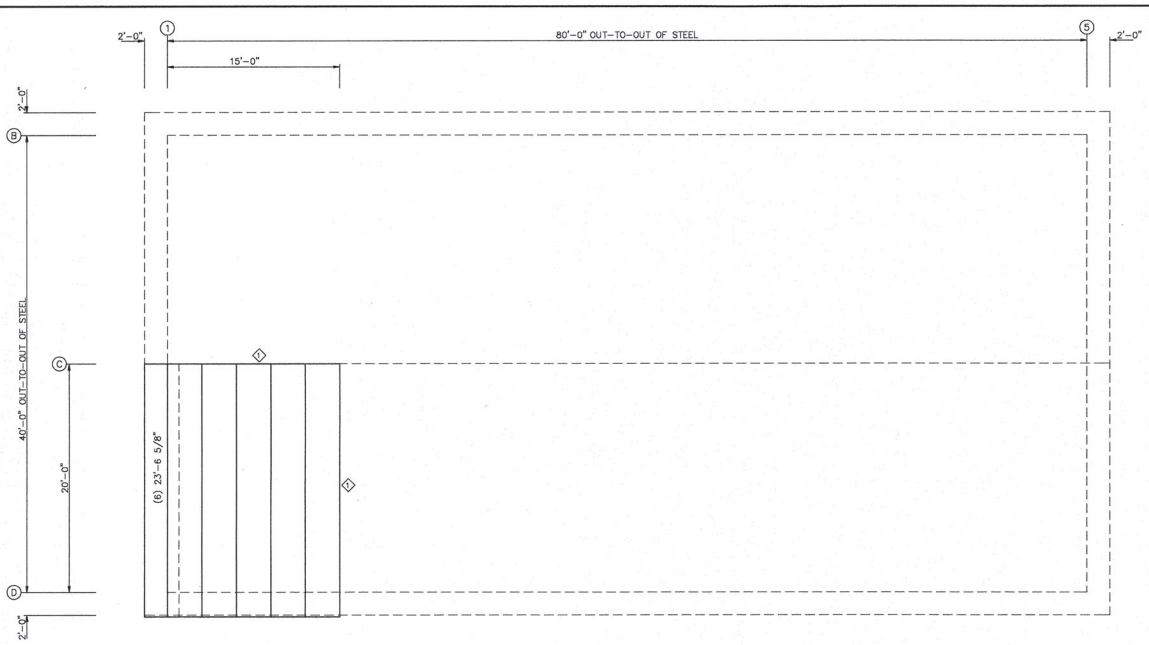
⊞ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

COLORADO LICENSED STEPHEN JOSEPH WEMMERS 43093 10/24/2019 PROFESSIONAL ENGINEER

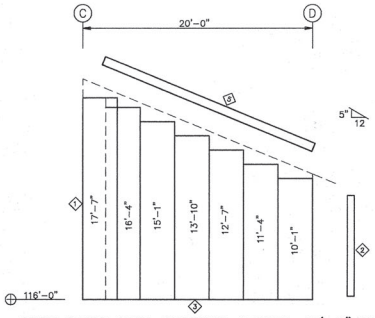
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SCALE : NONE			
DRAWN BY J. NELSON	DATE 9/16/19	MORAN HAYDEN CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	SIDEWALL FRAMING	JOB NO. X2212 SHT. 20 OF 32
REVIEWED BY	DATE		

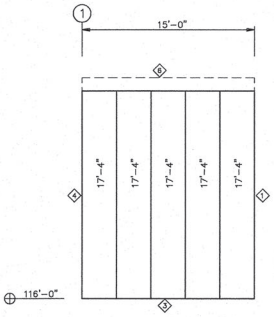
TRIM TABLE ROOF PLAN	
QTY	PART
1	TM33-20
2	TW2-12
3	TW17-20
4	TW2-20
5	A021
6	TDE6?



OPEN PATIO AREA ROOF LINER SHEETING PLAN
PANELS: 26 Ga. A2 – .



OPEN PATIO AREA SHEETING & TRIM: 15'-0" FRAME LINE 1
PANELS: 26 Ga. A2 – .

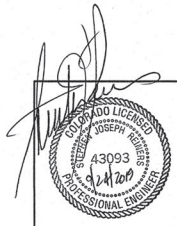


OPEN PATIO AREA SHEETING & TRIM: FRAME LINE C
PANELS: 26 Ga. A2 – .

– DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

IMPORTANT NOTE:

IN ORDER TO NOT INTERRUPT THE VAPOR BARRIER WHEN THE ROOF DEFLECTS DOWNWARD, ALL SHEETING WILL BE FIELD CUT TO FOLLOW THE ROOF SLOPE AND WILL BE "SHORT" OF THE VAPOR BARRIER BY THE AMOUNT OF EXPECTED ROOF DEFLECTION WHICH IS 1.375".



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

SCALE : NONE

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CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

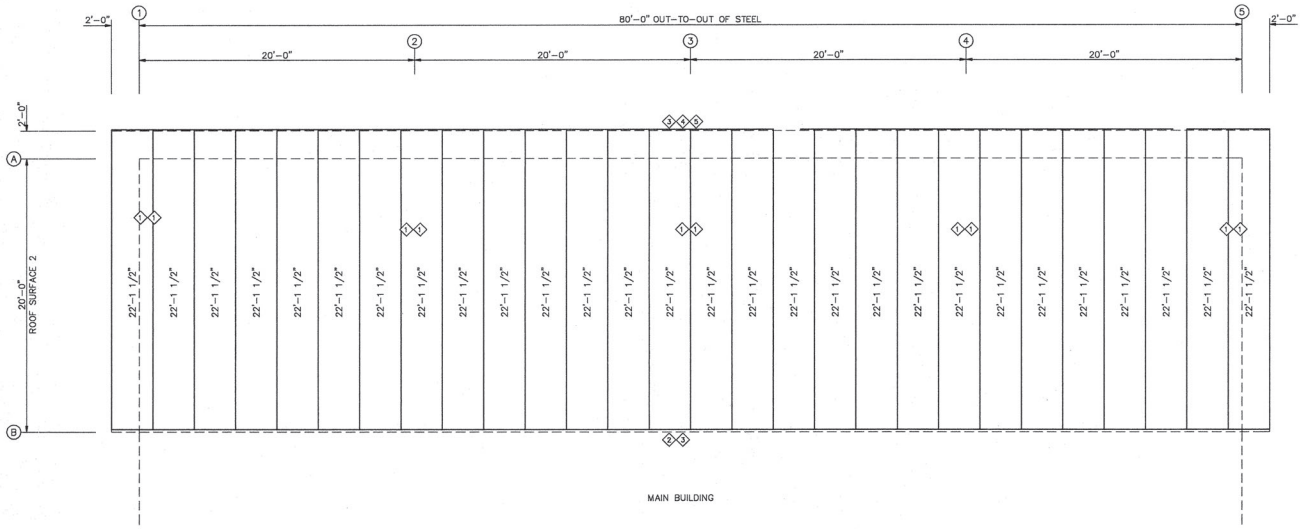
MORAN
HAYDEN CO 81639

ROOF LINER PANEL

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 21 OF 32

TRIM TABLE ROOF	
CID	PART
1	TM33-20
2	TM16-12
3	TE32
4	MZ16
5	TW33



ROOF LINER SHEETING PLAN

PANELS: 26 Ga. A2 - .

COLORADO LICENSED
LEONARD JOSEPH REGINERS
43093
9/24/2019
PROFESSIONAL ENGINEER

⊠ - DENOTES FIELD LOCATED ACCESSORY (SEE ACCESSORY SHEET)

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	J. NELSON	DATE	9/18/19
CHECKED BY	J. NELSON	DATE	9/20/19
APPROVED BY	NRD	DATE	9/23/19
REVIEWED BY		DATE	

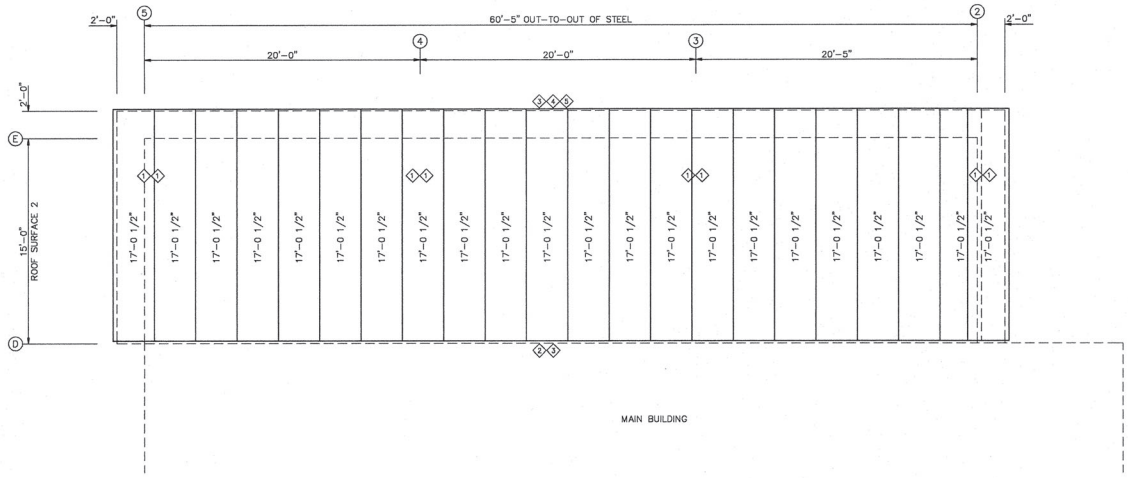
MORAN
HAYDEN CO 81639

ROOF LINER PANEL

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 22 OF 32

TRIM TABLE ROOF	
SYM	PART
1	TM33-20
2	TM16-12
3	TE32
4	MZ16
5	TW33



ROOF LINER SHEETING PLAN
PANELS: 26 Ga. A2 - .

COLORADO LICENSED
STEPHEN JOSEPH REIMERS
43093
9/24/2019
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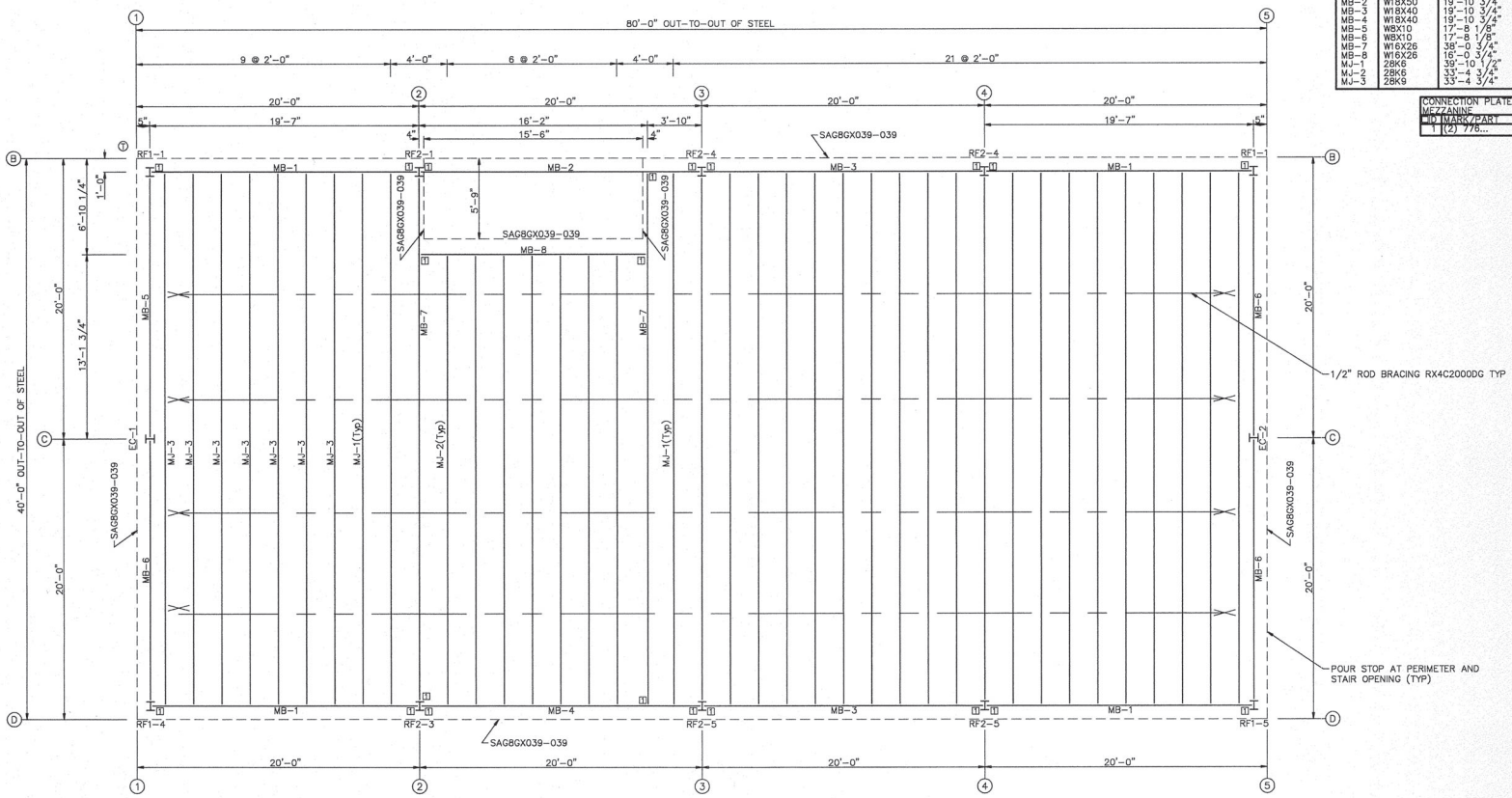
ROOF LINER PANEL

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 23 OF 32

MEMBER TABLE		
MARK	PART	LENGTH
MB-1	W18X40	19'-5 3/4"
MB-2	W18X50	19'-10 3/4"
MB-3	W18X40	19'-10 3/4"
MB-4	W18X40	19'-10 3/4"
MB-5	W8X10	17'-8 1/8"
MB-6	W8X10	17'-8 1/8"
MB-7	W16X26	39'-0 3/4"
MB-8	W16X26	16'-0 3/4"
MJ-1	28K6	39'-10 1/2"
MJ-2	28K6	33'-4 3/4"
MJ-3	28K9	33'-4 3/4"

CONNECTION PLATES MEZZANINE	
ID	MARK/PART
1	(2) 7/8...



MEZZANINE FRAMING

MEZZAINE 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.

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. ALL TOP OF BAR JOIST @ ELEV. = 115'-8"
4. TOP OF FLOOR ELEV. = 16'-0" @ CONCRETE, 15'-11 5/8" AT PLYWOOD
5. Ⓣ INDICATES TAGGED END OF BAR JOISTS.
6. * INDICATES BOLTED BAR JOISTS
7. X INDICATES DIAGONAL 1/2" DIA. ROD BRIDGING LOCATIONS
8. - - - INDICATES TOP & BOTTOM 1/2" DIA. ROD 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 WITH 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 STRUCTURALLLY 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.

COLORADO LICENSED
STEPHEN JOSEPH REGINERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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MORAN
HAYDEN CO 81639

FLOOR FRAMING

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212

SHT. 24 OF 32

DECK : 1.5C22

DECK ERECTION:

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 END LAPS. MINIMUM BEARING OF THE SHEETS SHALL BE 1 1/2".

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

A) END OF SHEETS:
SCREW EACH END TO EACH SIDE LAP PLUS ONE INTERMEDIATE LOCATION. ((4) #12 SCREWS PER SHEET.)

B) END LAPS:
SCREW EACH END LAP AT EACH SIDE LAP PLUS ONE INTERMEDIATE LOCATION. ((4) #12 SCREWS PER SHEET.)

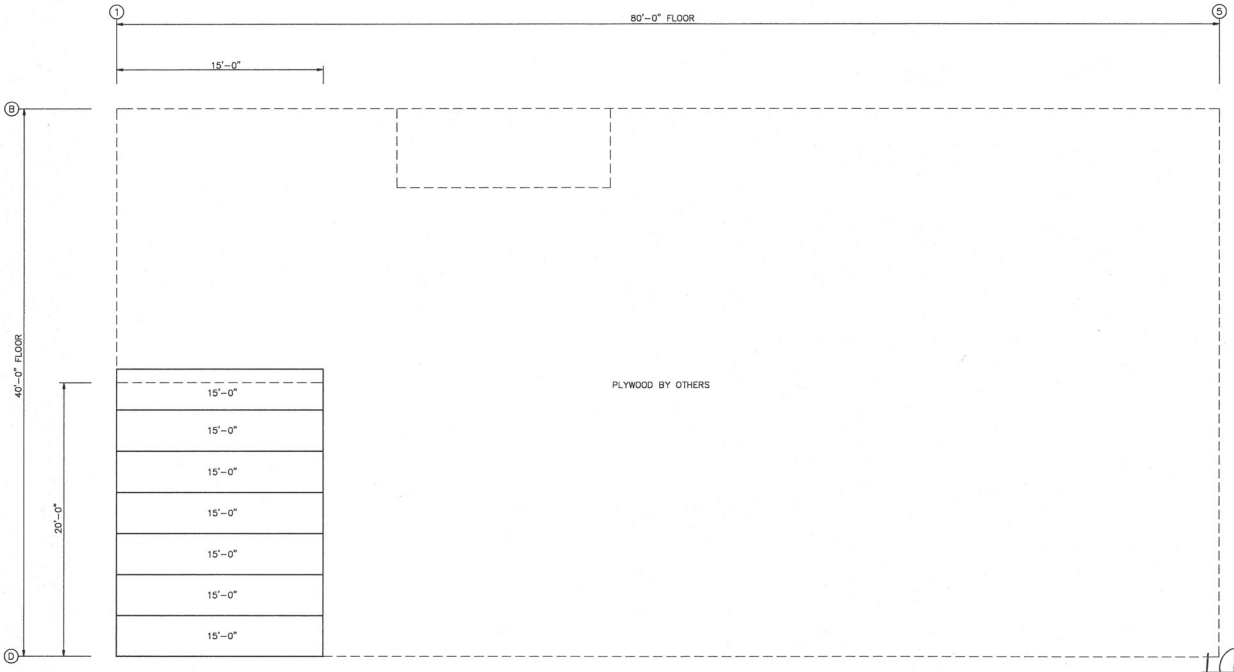
C) SIDE LAPS:
USE (1) #12 SCREW AT EACH SUPPORT

FIELD CUT DECKING AS REQUIRED.

DECK : PLYWOOD BY OTHERS

DECK ERECTION:

DESIGN AND SUPPLY ATTACHMENT OF WOOD DECK TO JOIST BY OTHERS.
SHEAR TO BE RESISTED BY SCREWS IS 110#/FT (0.7E)



MEZZANINE DECKING PLAN
DECK: 1.5C22
NOTE :- FIELD CUT DECK AT OPENING AS REQ'D

COLORADO LICENSED
STEPHEN JOSEPH REDMERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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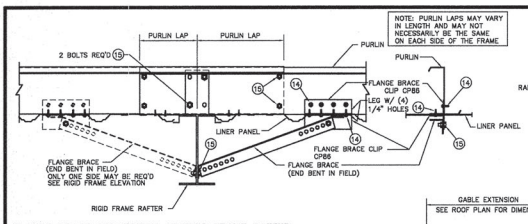
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19		
REVIEWED BY	DATE	FLOOR SHEETING & TRIM	JOB NO. X2212 SHT. 25 OF 32



FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER

SUGGESTED ERECTION SEQUENCE:

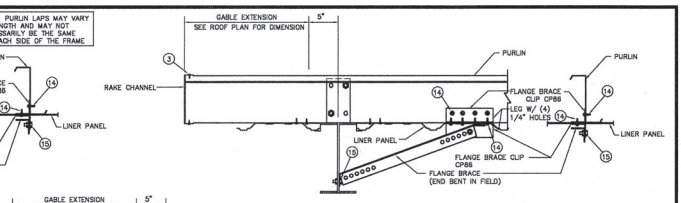
STEP NO. 1 THE FIRST LINER PANEL AT THE SIDE OF THE FRAME SHOULD BE IN PLACE. BOLT THE FLANGE BRACE TO RAFTER AND ATTACH THE LOWER CP86 CLIP TO THE OTHER END OF FLANGE BRACE. (DO NOT TIGHTEN BOLT AT THIS TIME)

STEP NO. 2 ROTATE FLANGE BRACE UPWARDS UNTIL CLIP IS ADJACENT TO LINER PANEL TO CHECK FOR CLIP INTERFERENCE WITH PANEL RIBS. IF INTERFERENCE OCCURS, FIELD MODIFY FLANGE BRACE LENGTH.

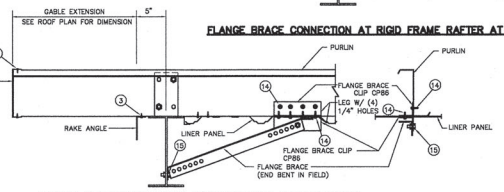
STEP NO. 3 WITH FLANGE BRACE IN UPWARD POSITION, PLACE THE UPPER CP86 CLIP DIRECTLY OVER THE LOWER CP86 CLIP AND ATTACH THE UPPER CP86 CLIP TO THE WEB OF THE PURLIN WITH FOUR (14) SELF-DRILLING SCREWS. (USE 1/4" DIA. PILOT HOLES IN CLIP).

STEP NO. 4 AFTER THE LINER PANEL IS IN PLACE, ATTACH THE LOWER CP86 CLIP TO THE UPPER CP86 CLIP WITH FOUR (14) SELF-DRILLING SCREWS (USE 1/4" DIA. PILOT HOLES IN THE CLIP). TIGHTEN THE 1/2" DIA. BOLTS ON THE FLANGE BRACE.

A1007

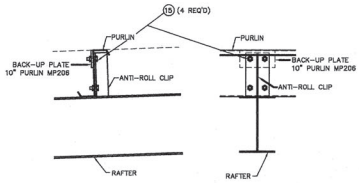


FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER AT END

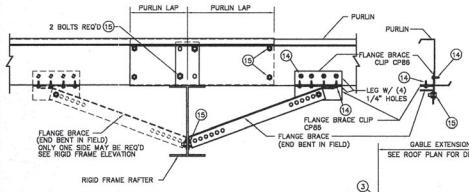


FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER AT END

DETAIL: PURLIN LAP & SPECIAL (SCREWED) FLANGE BRACE ATTACHMENT FOR LINER PANEL ON ROOF



DETAIL: ANTI-ROLL CLIP AT PURLIN LINE



NOTE: PURLIN LAPS MAY VARY IN LENGTH AND MAY NOT NECESSARILY BE THE SAME ON EACH SIDE OF THE FRAME

FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER

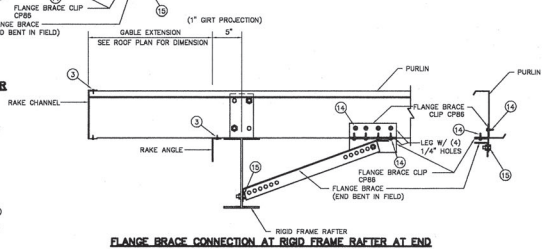
SUGGESTED ERECTION SEQUENCE:

STEP NO. 1 BOLT FLANGE BRACE TO RAFTER AND ATTACH THE LOWER CP86 CLIP TO THE OTHER END OF FLANGE BRACE (DO NOT TIGHTEN BOLT AT THIS TIME).

STEP NO. 2 ROTATE FLANGE BRACE UPWARDS UNTIL CLIP IS ADJACENT TO THE BOTTOM OF PURLIN. POSITION THE UPPER CP86 CLIP DIRECTLY OVER THE LOWER CP86 CLIP AND ATTACH THE UPPER CP86 CLIP TO THE WEB OF THE PURLIN WITH FOUR (14) SELF-DRILLING SCREWS. (USE 1/4" DIA. PILOT HOLES IN CLIP).

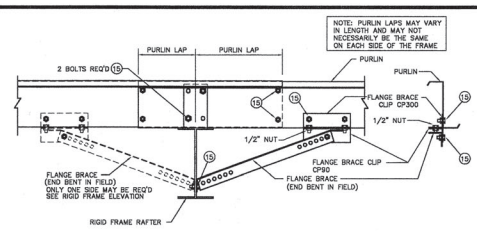
STEP NO. 3 AFTER THE VAPOR BARRIER IS IN PLACE, ATTACH THE LOWER CP86 CLIP TO THE UPPER CP86 CLIP WITH FOUR (14) SELF-DRILLING SCREWS (USE 1/4" DIA. PILOT HOLES IN THE CLIP). TIGHTEN THE 1/2" DIA. BOLTS ON THE FLANGE BRACE.

A1001



FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER AT END

DETAIL: PURLIN CONNECTION & SPECIAL (SCREWED) FLANGE BRACE ATTACHMENT



FLANGE BRACE CONNECTION AT RIGID FRAME RAFTER

SUGGESTED ERECTION SEQUENCE:

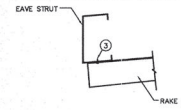
STEP NO. 1 BOLT FLANGE BRACE TO RAFTER AND ATTACH CP90 CLIP TO THE UPPER END OF FLANGE BRACE (DO NOT TIGHTEN BOLTS AT THIS TIME).

STEP NO. 2 ROTATE FLANGE BRACE UPWARDS UNTIL CLIP IS ADJACENT TO THE BOTTOM OF PURLIN. POSITION CP300 CLIP DIRECTLY ABOVE THE LOCATION OF CLIP CP90. FIELD DRILL 9/16" DIA. HOLES IN THE WEB OF THE PURLIN AND INSTALL TWO (15) 1/2" DIA. BOLTS.

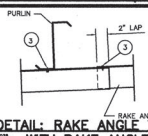
STEP NO. 3 AFTER THE VAPOR BARRIER IS IN PLACE,"SLIT" THE VAPOR BARRIER TO ALLOW THE BOLTS TO PENETRATE. ROTATE FLANGE BRACE AND CLIP UPWARDS AND OVER BOLTS. SECURE WITH TWO 1/2" HVHX NUTS. TIGHTEN ALL BOLTS.

A1004

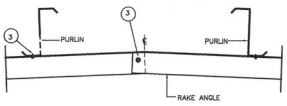
DETAIL: PURLIN LAP & SPECIAL (BOLTED) FLANGE BRACE ATTACHMENT



DETAIL: RAKE ANGLE TO EAVE STRUT



DETAIL: RAKE ANGLE TO PURLIN WITH RAKE ANGLE LAP



DETAIL: RAKE ANGLE @ RIDGE

FASTENER SCHEDULE

LOC.	PART NUMBER	DESCRIPTION	LOC.	PART NUMBER	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION	(14)	3228082	SCREW 12 X 1 1/4 HWH SD #3 PT NW
(2)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(15)	3328183	BOLT 1/2 X 1 1/2 HWH A307 GALV & NUT (3328191)
(3)	3228084	SCREW 12 X 1 HWH SD NW	(16)	3208170	BOLT 1/2 X 1 PLT RD HD A307 PLTD & NUT (2888007)
(4)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW	(17)	3228102	SCREW 12 X 2 FL-TP SD WW
(5)	3228102	SCREW 1/4 X 1 1/4 LG-LF SD WW			
(6)	3228099	SCREW 8 X 1/2 HWH SD NW	(18)	9980011	BOLT 3/8 X 7/8 PHPS HS (W/O WASHER) & NUT (2888008)
			(19)	3188003	BOLT 3/8 X 7/8 HEX SS (W/O WASHER) & NUT (2888008)
(6)	3188333	BOLT 1/2 X 2 HHX A325T GALV & NUT (1328191)	(20)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(8)	1328189	BOLT 5/8 X 3 1/4 HWX A325T GALV & NUT (1328195)	(21)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(9)	1328187	BOLT 3/4 X 1 1/2 HWX A325T GALV & NUT (1328192)	(22)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(10)	1328190	BOLT 3/4 X 2 1/2 HWX A325T GALV & NUT (1328192)			
(11)	3228106	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(23)	3228128	SCREW 17 X 1 LG-LF ST WW
(12)	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(24)	3228138	SCREW 1/4 X 1 HWH SD NW
	3228101	SCREW 12 X 1 1/4 FL-TP SD WW FOR ADP1 ROOF	(25)	3208084	SCREW 10 X 1 1/2 HWH WOODITE WW
(13)	3228104	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR			

ABBREVIATIONS

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

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).

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.

STEPHEN JOSEPH MATTHEWS COLORADO LICENSED 43093 9/24/2019 PROFESSIONAL ENGINEER

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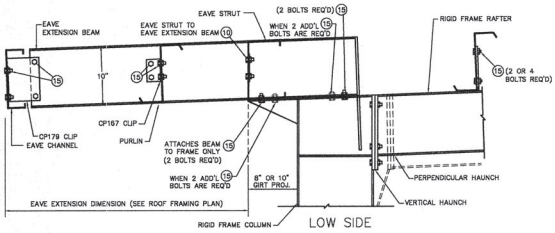
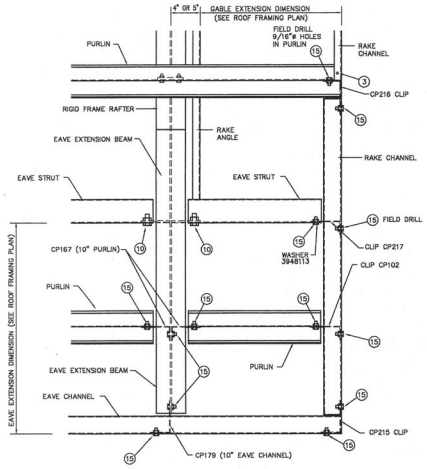
BEHLEN MFG. CO. COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 26 OF 32



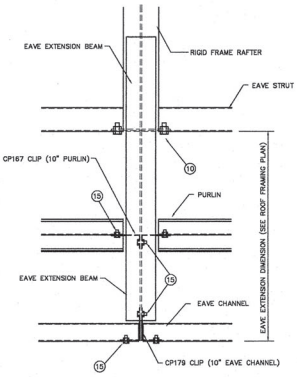
DETAIL: EAVE EXT BEAM CONNECTION @ RIGID FRAME

EX002



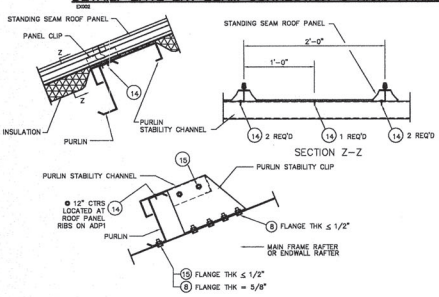
DETAIL: EAVE EXTENSION @ END W/ GABLE EXTENSION (ENDWALL RAFTER FLUSH PURLINS)

EX100



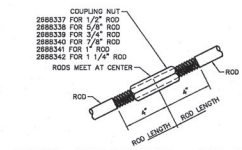
DETAIL: EAVE EXTENSION @ RIGID FRAME (FLUSH PURLINS)

EX002



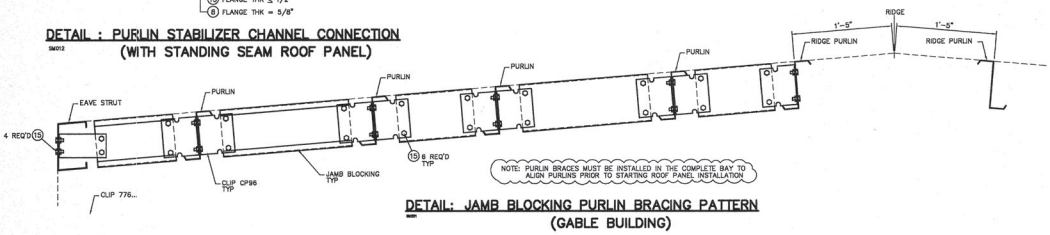
DETAIL : PURLIN STABILIZER CHANNEL CONNECTION (WITH STANDING SEAM ROOF PANEL)

SM012



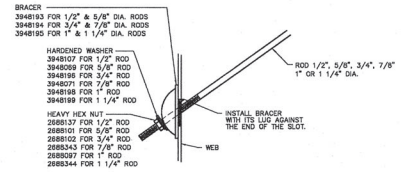
DETAIL: WIND BRACING – ROD SPLICING

WB01



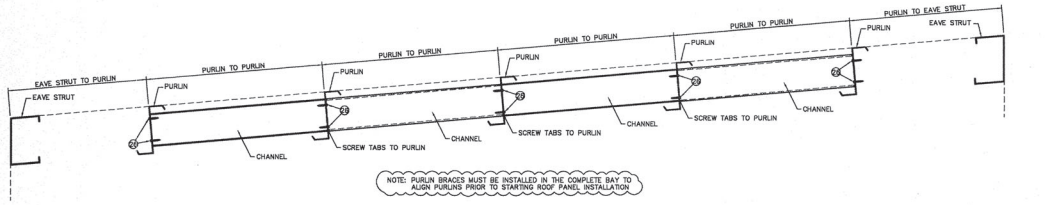
DETAIL: JAMB BLOCKING PURLIN BRACING PATTERN (GABLE BUILDING)

WB01



DETAIL : WIND BRACING

WB02



DETAIL: CONTINUOUS CHANNEL PURLIN BRACING PATTERN (SINGLE SLOPE BUILDING)

FASTENER SCHEDULE

LOC.	PART NUMBER	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION
(2)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF
(3)	3228084	SCREW 12 X 1 HWH SD NW
(4)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW
(5)	3228102	SCREW 1/4 X 1 1/4 LG-LF SD WW
(6)	3228099	SCREW 8 X 1/2 HWH SD NW
(7)	3128133	BOLT 1/2 X 2 HWH A325T GALV & NUT (3328191)
(8)	3128199	BOLT 5/8 X 2 1/4 HWH A325T GALV & NUT (3328192)
(9)	3128187	BOLT 3/4 X 1 1/2 HWH A325T GALV & NUT (3328192)
(10)	3128190	BOLT 3/4 X 2 1/2 HWH A325T GALV & NUT (3328192)
(11)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF
(12)	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR
(13)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW FOR ADP1 ROOF
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR

LOC.	PART NUMBER	DESCRIPTION
(14)	3228087	SCREW 12 X 1 1/4 HWH SD #5 PT NW
(15)	3328193	BOLT 1/2 X 1 1/2 HWH A325T GALV & NUT (3328191)
(16)	3208170	BOLT 1/2 X 1 FLT RD HD A307 PLTD & NUT (2688007)
(17)	3228102	SCREW 12 X 2 FL-TP SD WW
(18)		
(19)	999011	BOLT 3/8 X 7/8 PKPS HD (W/O WASHER) & NUT (2688008)
(20)	3188003	BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2688008)
(21)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(22)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(23)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(24)		
(25)	3228128	SCREW 17 X 1 LG-LF ST WW
(26)	3228138	SCREW 1/4 X 1 HWH SD NW
(27)	3228084	SCREW 10 X 1 1/2 HWH WOODITE WW

ABBREVIATIONS

HD	= HEAD
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
RD	= ROUND
SQ	= SQUARE
WW	= WITH WASHER
NW	= NO WASHER
FLT	= FLAT
HWH	= HEAVY HEX
UNPL	= UNPLATED
PLTD	= PLATED
HWH	= HEX WASHER HEAD
FL-TP	= FLAT TOP
LG-LF	= LONG LEG
PHPZ	= PHILLIPS

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).

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
C									
B									
A									

SCALE : NONE		MORAN HAYDEN, CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
DRAWN BY J. NELSON	DATE 9/18/19		
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ERECTION DETAILS	JOB NO. X2212 SHT. 27 OF 32
REVIEWED BY	DATE		

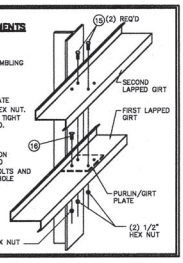
COLORADO LICENSED STEPHEN JOSEPH REINERT 43093 9/24/2019 PROFESSIONAL ENGINEER

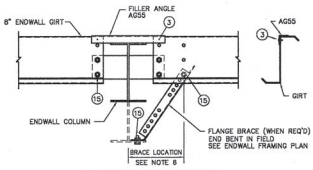
OSHA GIRT CONNECTION REQUIREMENTS

USE THE FOLLOWING PROCEDURE WHEN ASSEMBLING A LAPPED BY-PASS GIRT CONNECTION.

STEP NO. 1
ATTACH FIRST GIRT TO THE PURLIN/GIRT PLATE WITH A (5) 1/2"x1" FLAT HEAD BOLT AND HEX NUT. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND GIRT BEING INSTALLED.

STEP NO. 2
LEAVING FLAT HEAD BOLT INSTALLED, POSITION HOLES IN SECOND GIRT OVER FIRST GIRT AND INSTALL TWO (5) 1/2"x 1 1/4" HEX HEAD BOLTS AND HEX NUTS IN A DIAGONAL FRONT TO BACK HOLE PATTERN.

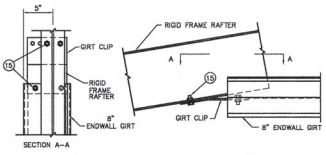




NOTE: CEE GIRT CONNECTION SIMILAR.

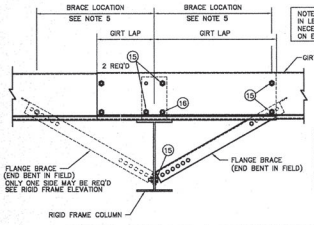
DETAIL: GIRT TO ENDWALL COLUMN W/ 1" GIRT PROJECTION

0017



DETAIL: GIRT TO ENDWALL RAFTER

0024

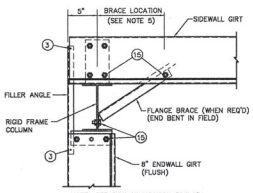


NOTE: GIRT LAPS MAY VARY IN LENGTH AND MAY NOT NECESSARILY BE THE SAME ON EACH SIDE OF THE FRAME

NOTE: ONE FLANGE OF ANY 8" DEEP ZEE IS PROVIDED 1/8" LARGER THAN THE OTHER. THIS IS DONE TO ALLOW PROPER NESTING AT LAPS. BE SURE TO LAP THE 8" ZEES WITH THE LARGER FLANGE OF ONE OVER THE SMALLER OF THE OTHER.

DETAIL: GIRT LAP & FLANGE BRACE PLACEMENT

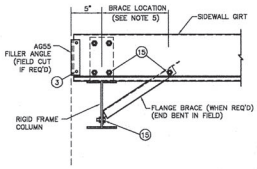
0001



NOTE: CEE GIRT CONNECTION SIMILAR.

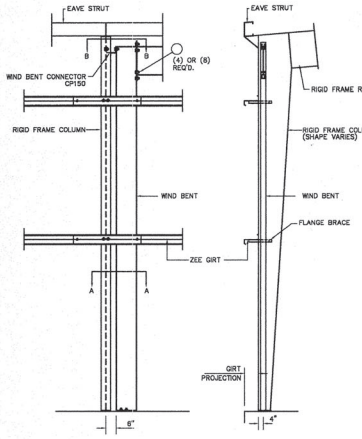
DETAIL: GIRT CONNECTION AT CORNER

0014



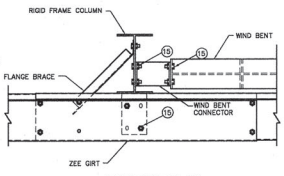
DETAIL: GIRT CONNECTION AT CORNER

0014B

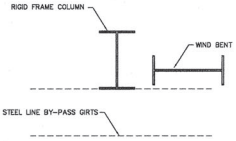


DETAIL: WIND BENT AT RIGID FRAME COLUMN W/ BY-PASS GIRTS W/ 2 BOLT STANDARD WIND BENT CONNECTOR

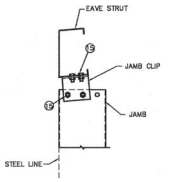
0030



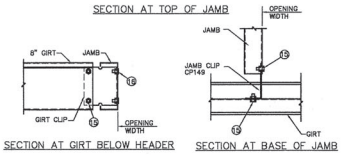
SECTION B-B



SECTION A-A



SECTION AT TOP OF JAMB



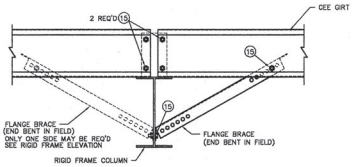
SECTION AT GIRT BELOW HEADER

SECTION AT BASE OF JAMB

IF OPENING IS TO BE FIELD LOCATED, FIELD CUTTING & DRILLING IS REQ'D

DETAIL: JAMB CONNECTIONS FOR OPEN PATIO AREA

0031



DETAIL: CEE GIRT CONNECTION & FLANGE BRACE PLACEMENT

0003

FASTENER SCHEDULE

LOC.	PART NAME2	DESCRIPTION	LOC.	PART NAME2	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION	(14)	3228082	SCREW 12 X 1 1/4 HWH SD AS PT NW
(2)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW	(15)	1328183	BOLT 1/2 X 1 1/2 HWH A307 GALV & NUT (1328189)
(3)	3228084	SCREW 12 X 1 HWH SD NW	(16)	3208372	BOLT 1/2 X 1 FLT RD HD A307 PLTD & NUT (2888007)
(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	(18)	5880011	BOLT 3/8 X 7/8 PKPS HD (W/O WASHER) & NUT (2888008)
			(20)	5186003	BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2888008)
(8)	1189333	BOLT 1/2 X 2 HWH A325T GALV & NUT (1328189)	(21)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(9)	1328188	BOLT 5/8 X 2 1/4 HWH A325T GALV & NUT (1328189)	(22)		SEE WALL PANEL INSTALLATION GUIDE FOR SCREW & SPACING
(10)	1328187	BOLT 3/4 X 1 1/2 HWH A325T GALV & NUT (1328189)	(23)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(11)	1328189	BOLT 3/4 X 2 1/2 HWH A325T GALV & NUT (1328189)			
(12)	3228103	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADPI ROOF	(24)	3228128	SCREW 17 X 1 LG-LF ST WW
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(25)	3228138	SCREW 1/4 X 1 HWH SD NW
(13)	3228101	SCREW 1/4 X 1 1/4 FL-TP SD WW FOR ADPI ROOF	(26)	3208084	SCREW 10 X 1 1/2 HWH WOODITE WW
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR			

ABBREVIATIONS

HD	= HEAD
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
RD	= ROUND
SQ	= SQUARE
WW	= WITH WASHER
NW	= NO WASHER
FLT	= FLAT
HWX	= HEAVY HEX
UNPL	= UNPLATED
PLTD	= PLATED
FHW	= FLAT WASHER HEAD
LG-TP	= LONG TIP
LG-LF	= LONG LIFE
PHPS	= PHILLIPS

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).

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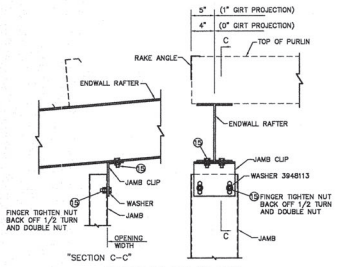
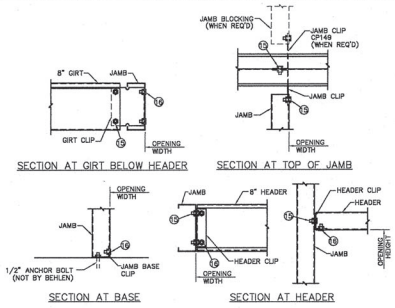
4. THE LENGTH OF THE FLANGE BRACE SUPPLIED AT EACH LOCATION WILL DETERMINE WHICH STANDARD LAP HOLE LOCATION (9, 1'-9, 2'-9 OR 3'-9) IS TO BE USED.
5. ATTACH FLANGE BRACE TO HOLE IN GIRT WHICH BEST FITS THE FLANGE BRACE LENGTH SUPPLIED FOR THE LOCATION.

LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE
0									
0									
0									
0									

SCALE : NONE		MORAN HAYDEN, CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
DRAWN BY J. NELSON	DATE 9/18/19		
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ERECTION DETAILS	JOB NO. X2212 SHT. 28 OF 32
REVIEWED BY	DATE		



SECTION AT TOP OF JAMB



SECTION AT GIRT BELOW HEADER

SECTION AT TOP OF JAMB

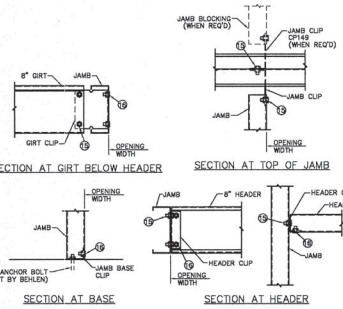
SECTION AT BASE

SECTION AT HEADER

IF OPENING IS FIELD LOCATED, FIELD CUTTING & DRILLING IS REQ'D

DETAIL: FRAMED OPENING IN ENDWALL (TYPE 1 JAMB)

0003



SECTION AT GIRT BELOW HEADER

SECTION AT TOP OF JAMB

SECTION AT BASE

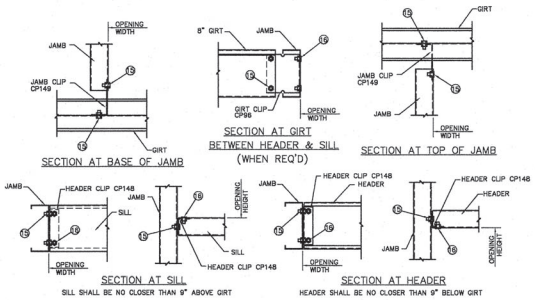
SECTION AT HEADER

IF OPENING IS FIELD LOCATED, FIELD CUTTING & DRILLING IS REQ'D

G

DETAIL: FRAMED OPNG IN ENDWALL (WALKDOOR) W/ ENDWALL BEAM (0" & 1" GIRT PROJECTION)

0004



SECTION AT BASE OF JAMB

SECTION AT GIRT BETWEEN HEADER & SILL (WHEN REQ'D)

SECTION AT TOP OF JAMB

SECTION AT SILL

SILL SHALL BE NO CLOSER THAN 9" ABOVE GIRT

SECTION AT HEADER

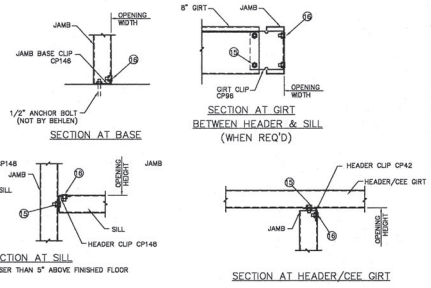
HEADER SHALL BE NO CLOSER THAN 9" BELOW GIRT

OPENING IS TO BE FIELD LOCATED, FIELD CUTTING & DRILLING IS REQ'D

F

DETAIL: 8" FRAMED OPENING W/ SILL (BETWEEN GIRTS)

0030



SECTION AT BASE

SECTION AT GIRT BETWEEN HEADER & SILL (WHEN REQ'D)

SECTION AT SILL

SILL SHALL BE NO CLOSER THAN 5" ABOVE FINISHED FLOOR

SECTION AT HEADER/CEE GIRT

OPENING IS TO BE FIELD LOCATED, FIELD CUTTING & DRILLING IS REQ'D

D E A

DETAIL: 8" FRAMED OPENING W/ SILL (BETWEEN FINISHED FLOOR & GIRT)

0031

FASTENER SCHEDULE

LOC.	PART NAME#	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION
(2)	3228106	SCREW 1/4 X 3/4 FL-TP SD WW
(3)	3228084	SCREW 12 X 1 HWH SD NW
(4)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW
(5)	3228102	SCREW 1/4 X 1 1/4 LG-LF SD WW
(6)	3225059	SCREW 8 X 1/2 HWH SD NW
(7)	3180333	BOLT 1/2 X 2 HWH A325T GALV & NUT (3328191)
(8)	R328199	BOLT 5/8 X 2 1/4 HWH A325T GALV & NUT (3328195)
(9)	R328187	BOLT 3/4 X 1 1/2 HWH A325T GALV & NUT (3328192)
(10)	3328190	BOLT 3/4 X 2 1/2 HWH A325T GALV & NUT (3328192)
(11)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ASP1 ROOF
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR
(12)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW FOR ASP1 ROOF
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR

LOC.	PART NAME#	DESCRIPTION
(13)	3228084	SCREW 12 X 1 1/4 HWH SD #3 PT NW
(14)	3328191	BOLT 1/2 X 1 1/2 HWH A325T GALV & NUT (3328191)
(15)	3208170	BOLT 1/2 X 1 FLT RD HD A307 PLTD & NUT (2688007)
(16)	3228102	SCREW 12 X 2 FL-TP SD WW
(17)		
(18)	999011	BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2980008)
(19)	3180034	BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2980008)
(20)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(21)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(22)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(23)		
(24)	3228128	SCREW 17 X 1 LG-LF ST WW
(25)	3228138	SCREW 1/4 X 1 HWH SD NW
(26)	3228084	SCREW 10 X 1 1/2 HWH WOODITE WW

ABBREVIATIONS

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

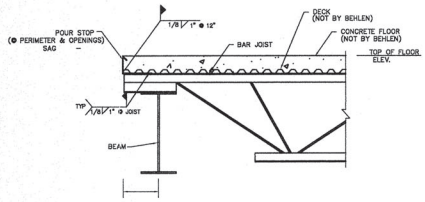
UNLESS OTHERWISE NOTED, CONNECTIONS BY THIS MANUFACTURER USING A-325 HIGH STRENGTH BOLTS ARE DESIGNED TO BE FASTENED USING THE "SNUG TIGHTENED" METHOD, AS DEFINED AND DESCRIBED IN THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS SPECIFICATION (RCSC, 6-23-2000), SECTION 4.1 "SNUG-TIGHTENED JOINTS" (REFERENCE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

NOTES:

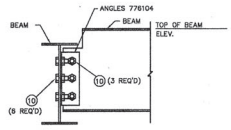
1. FOR SEQUENCE OF ERECTION – SEE APPLICABLE WALL PANEL ERECTION GUIDE.
2. FOR FLANGE BRACE LOCATIONS – SEE FRAME CROSS SECTION AND ROOF FRAMING PLANS.
3. SOME FIELD DRILLING AND/OR FIELD CUTTING OF STEEL COMPONENTS MAY BE REQUIRED DURING THE ERECTION OF THIS BUILDING.
4. THE LENGTH OF THE FLANGE BRACE SUPPLIED AT EACH LOCATION WILL DETERMINE WHICH STANDARD LAP HOLE LOCATION (9, 1'-8, 2'-9 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
C									
B									
A									

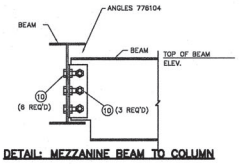
SCALE : NONE		MORAN HAYDEN, CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
DRAWN BY J. NELSON	DATE 9/18/19		
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ERECTION DETAILS	JOB NO. X2212 SHT. 29 OF 32
REVIEWED BY	DATE		



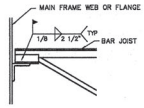
DETAIL: POUR STOP & CONCRETE



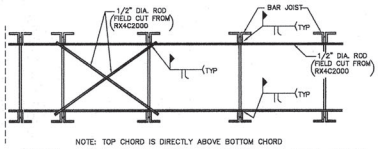
DETAIL: MEZZANINE BEAM TO COLUMN



DETAIL: MEZZANINE BEAM TO COLUMN

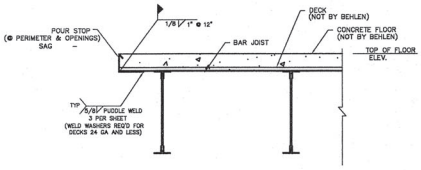


DETAIL: JOIST CONNECTION

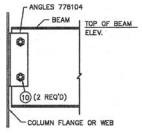


NOTE: TOP CHORD IS DIRECTLY ABOVE BOTTOM CHORD

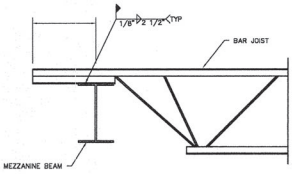
DETAIL: HORIZONTAL ROD BRIDGING TO BAR JOIST



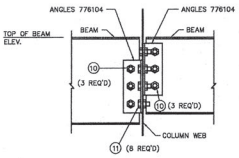
DETAIL: POUR STOP & CONCRETE



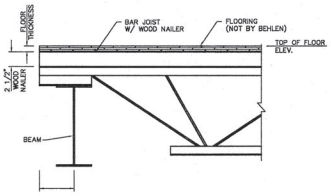
DETAIL: MEZZANINE BEAM TO COLUMN



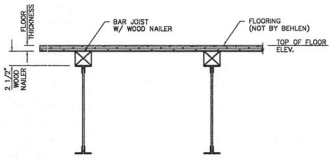
DETAIL: BAR JOIST CONNECTION @ END



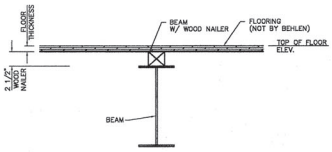
DETAIL: BEAM TO COLUMN



DETAIL: BAR JOIST WITH WOOD NAILER
A6203



DETAIL: BAR JOIST WITH WOOD NAILER
A6203



DETAIL: BEAM WITH WOOD NAILER
A6202

FASTENER SCHEDULE

LOC.	PART NAME#	DESCRIPTION
(1)		AS NOTED ON ROOF FRAME ELEVATION
(2)	3228106	SCREW 1/4 X 3/4 FL-TP SD WW
(3)	3228084	SCREW 12 X 1 HWH SD NW
(4)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW
(5)	3228102	SCREW 1/4 X 1 1/4 LG-LF SD WW
(6)	3228099	SCREW 8 X 1/2 HWH SD NW
(8)	3188333	BOLT 1/2 X 2 HHX A325T GALV & NUT (3328192)
(9)	3328189	BOLT 5/8 X 2 1/4 HHX A325T GALV & NUT (3328192)
(10)	3328187	BOLT 3/4 X 1 1/2 HHX A325T GALV & NUT (3328192)
(11)	3328190	BOLT 3/4 X 2 1/2 HHX A325T GALV & NUT (3328192)
(12)	3228108	SCREW 1/4 X 3/4 FL-TP SD WW FOR ASPI ROOF
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR
(13)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW FOR ASPI ROOF
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR

LOC.	PART NAME#	DESCRIPTION
(14)	3228087	SCREW 12 X 1 1/4 HWH SD #3 PT NW
(15)	3328193	BOLT 1/2 X 1 1/2 HHX A325T GALV & NUT (3328192)
(16)	3208170	BOLT 1/2 X 1 FLT RD HD A307 PLTD & NUT (2888007)
(17)	3228100	SCREW 12 X 2 FL-TP SD NW
(18)	9995011	BOLT 3/8 X 7/8 PHPS HD (W/O WASHER) & NUT (2990008)
(20)	3188003	BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2990008)
(22)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(23)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(24)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(25)		
(26)	3228128	SCREW 17 X 1 LG-LF ST WW
(28)	3228138	SCREW 1/4 X 1 HWH SD NW
(29)	3208084	SCREW 10 X 1 1/2 HWH WOODTITE WW

ABBREVIATIONS

RD	= ROUND
SD	= SELF DRILLING
ST	= SELF TAPPING
SS	= STAINLESS STEEL
CT	= CONICAL
RD	= ROUND
WW	= WIDE WASHER
NW	= NO WASHER
FLT	= FLAT
HHW	= HEAVY HEX
UNPL	= UNPLATED
PLTD	= PLATED
HWH	= HEX WASHER HEAD
FL-TP	= FLAT TOP
LG-LF	= LONG LIFE
PHPS	= PHILLIPS

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NOTES:

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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.

COLORADO LICENSED
STEPHEN JOSEPH REDDERS
43093
9/24/2019
PROFESSIONAL ENGINEER

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

SCALE : NONE

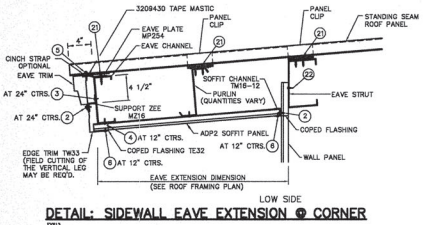
DRAWN BY	J. NELSON	DATE 9/18/19
CHECKED BY	J. NELSON	DATE 9/20/19
APPROVED BY	NRD	DATE 9/23/19
REVIEWED BY		DATE

MORAN
HAYDEN, CO 81639

ERECTION DETAILS

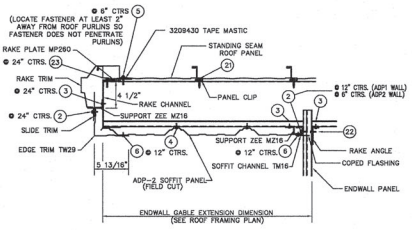
BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 30 OF 32



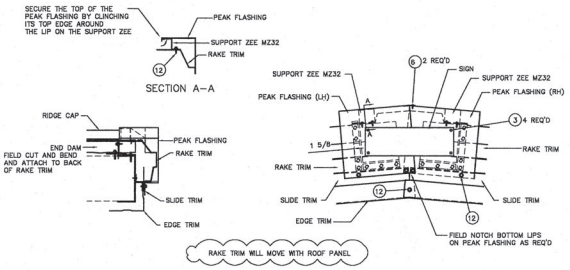
DETAIL: SIDEWALL EAVE EXTENSION @ CORNER

E0513

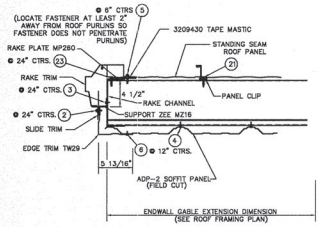


DETAIL: ENDWALL GABLE EXTENSION

E0504

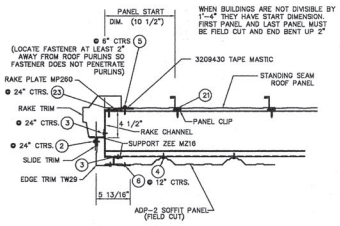


STEP 3 PEAK FLASHING CONNECTION



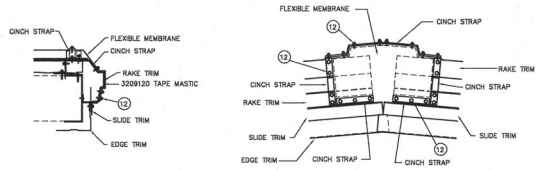
DETAIL: ENDWALL GABLE EXTENSION

E0504

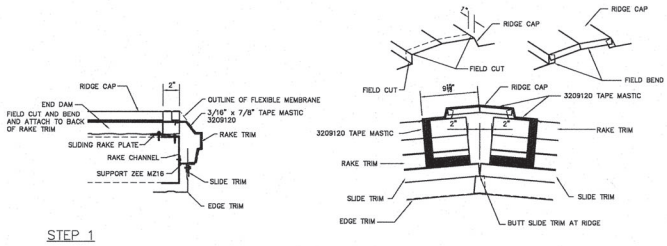


DETAIL: ENDWALL GABLE EXTENSION

E0504



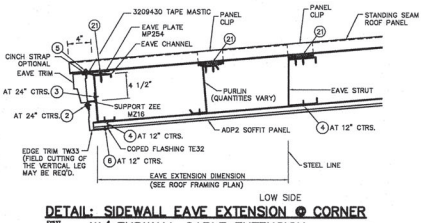
STEP 2 FLEXIBLE MEMBRANE & CINCH STRAP CONNECTION



STEP 1

DETAIL: RAKE TRIM ATTACHMENT AT BUILDING PEAK (GABLE EXTENSION)

E0510



DETAIL: SIDEWALL EAVE EXTENSION @ CORNER W/ ENDWALL GABLE EXTENSION

E0537

FASTENER SCHEDULE

LOC.	PART NUMBER	DESCRIPTION	LOC.	PART NUMBER	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION	(14)	3228208	SCREW 12 X 1 1/4 HWH SD #3 PT NW
(2)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW	(15)	3228183	BOLT 1/2 X 1 1/2 HWX ASSY 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)	3228088	SCREW 8 X 1/2 HWH SD NW	(18)	998011	BOLT 3/8 X 7/8 PHPS HS (W/O WASHER) & NUT (2688008)
			(19)	5188003	BOLT 3/8 X 7/8 HEX HS (W/O WASHER) & NUT (2688008)
(7)	3188333	BOLT 1/2 X 2 HWH ASSY GALV & NUT (1328191)	(20)	3228122	SCREW 1/4 X 1 1/2 HWH SD NW
(8)	1328189	BOLT 5/8 X 1 1/4 HWX ASSY GALV & NUT (1328195)	(21)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(9)	1328187	BOLT 3/4 X 1 1/2 HWX ASSY GALV & NUT (1328197)	(22)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(10)	1328190	BOLT 3/4 X 2 1/2 HWX ASSY GALV & NUT (1328197)			
(11)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW FOR ADP1 ROOF	(23)	3228126	SCREW 17 X 1 LG-LF ST WW
	3228103	SCREW 1/4 X 3/4 LG-LF SD WW FOR SSR	(24)	3228138	SCREW 1/4 X 1 HWH SD NW
(12)	3228101	SCREW 12 X 1 1/4 FL-TP SD WW FOR ADP1 ROOF	(25)	3228084	SCREW 10 X 1 1/2 HWH WOODTITE WW
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR			

ABBREVIATIONS

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

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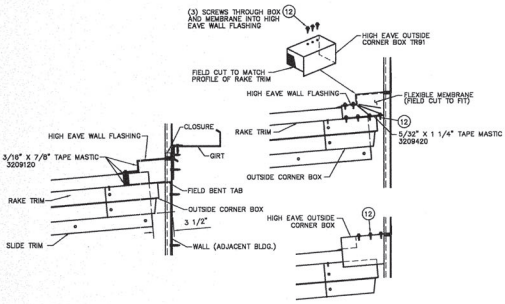
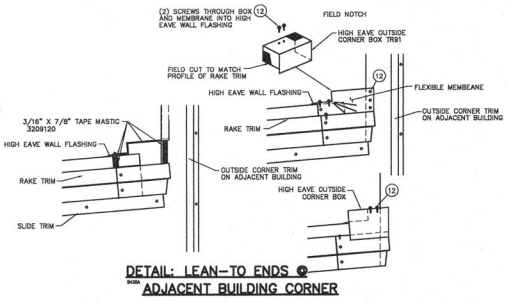
LETTER	REVISIONS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	REVIEWED BY	DATE

SCALE : NONE		MORAN HAYDEN, CO 81639	BEHLEN MFG. CO. COLUMBUS, NEBRASKA
DRAWN BY J. NELSON	DATE 9/18/19		
CHECKED BY J. NELSON	DATE 9/20/19		
APPROVED BY NRD	DATE 9/23/19	ERECTION DETAILS	JOB NO. X2212 SHT. 31 OF 32
REVIEWED BY	DATE		

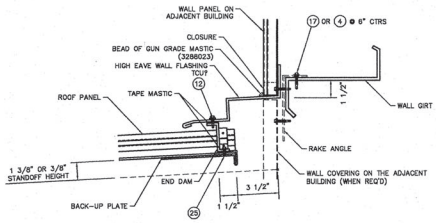
COLORADO LICENSED STEPHEN JOSEPH REGIERS 43093 9/24/2019 PROFESSIONAL ENGINEER



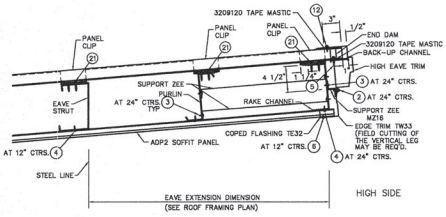
DETAIL: LEAN-TO STOP SHORT OF ADJACENT BUILDING CORNER



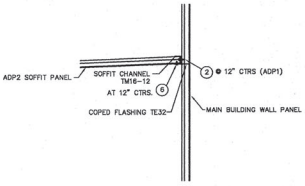
DETAIL: LEAN-TO ENDS @ ADJACENT BUILDING CORNER



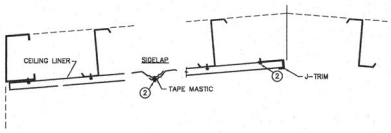
DETAIL: TRIM ALONG HIGH EAVE OF LEAN-TO-BUILDING



DETAIL: SIDEWALL EAVE EXTENSION AT CORNER OF HIGH EAVE OF LEAN-TO BUILDINGS



DETAIL: LEAN-TO SOFFIT PANEL TO MAIN BUILDING



DETAIL: CEILING LINER

FASTENER SCHEDULE

LOC.	PART NUMBER	DESCRIPTION	LOC.	PART NUMBER	DESCRIPTION
(1)		AS NOTED ON RIGID FRAME ELEVATION	(14)	3228083	SCREW 12 X 1 1/4 HWH SD #5 PT NW
(2)	3228100	SCREW 1/4 X 3/4 FL-TP SD WW	(15)	3228183	BOLT 1/2 X 1 1/2 HWX A307 GALV & NUT (3328191)
(3)	3228084	SCREW 12 X 1 HWH SD NW	(16)	3228178	BOLT 1/2 X 1 FLT SD 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)	9990111	BOLT 3/8 X 7/8 PNPS HD (W/O WASHER) & NUT (2660008)
			(20)	3188004	BOLT 3/8 X 7/8 HEX HD (W/O WASHER) & NUT (2688008)
(8)	3168333	BOLT 1/2 X 2 HWHX A325T GALV & NUT (3328191)	(21)	3228122	SCREW 1/4 X 1 1/2 THW1 SD NW
(9)	3328189	BOLT 5/8 X 2 1/4 HWHX A325T GALV & NUT (3328195)	(23)		SEE WALL PANEL ERECTION GUIDE FOR SCREW & SPACING
(10)	3328187	BOLT 3/4 X 1 1/2 HWHX A325T GALV & NUT (3328197)	(24)	3228124	SCREW 1/4 X 1 1/4 HWH SHOULDER SD NW
(11)	3328190	BOLT 3/4 X 2 1/2 HWHX A325T GALV & NUT (3328197)			
(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 WOODITE WW
	3228105	SCREW 1/4 X 1 1/4 LG-LF SD WW FOR SSR			

ABBREVIATIONS

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

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).

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.

COLORADO LICENSED
STEPHEN JOSEPH NORD
43093
9/24/2019
PROFESSIONAL ENGINEER

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

SCALE : NONE

DRAWN BY J. NELSON	DATE	9/18/19
CHECKED BY J. NELSON	DATE	9/20/19
APPROVED BY NRD	DATE	9/23/19
REVIEWED BY	DATE	

MORAN
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ERECTION DETAILS

BEHLEN MFG. CO.
COLUMBUS, NEBRASKA

JOB NO. X2212 SHT. 32 OF 32