



Conditional Use Application

Date: 03/21/2023

Applicant / Owner

Applicant Name: Western Steel Builders, Inc.
Address: 906 Main Street West
City, State, Zip: Hazen, ND 58545
Phone: 701-748-6305
Email: austinwsb@westriv.com

Owner Name: Scott & Heather Buchmann
Address: 600 12th Ave NE
City, State, Zip: Beulah, ND 58523
Phone: 701-891-0023
Email: scottbuchmann@hotmail.com

Contact Person / Agent

Name: Austin Clarys
Address: 906 Main Street West
City, State, Zip: Hazen, ND 58545
Phone: 701-494-6012

Email: austinwsb@westriv.com
Start Date: 2023-05-01
Completion Date: 2023-10-31

Project

Site Address: 718 Co Rd 21
City, State, Zip: Beulah, ND 58523
Existing Zone: C-2
Proposed Zone:
Existing Use: Self-Service Storage
Proposed Use: Self-Service Storage

Acreage: 2.40
of Lots: 1
Flood Class: No
Elevation Cert: No

Legal Description: BB-144-88-90-25-29

Project Description: 16-unit self-service storage building identical to the existing storage building on the east side of property.

I do hereby certify that the information contained herein is true and correct.

Austin Clarys

Name

03/21/2023

Date



**WAIVER EXEMPTION REQUEST -
ACCESSIBILITY WITHIN THE
STATE BUILDING CODE**

File #: _____

Office Use Only

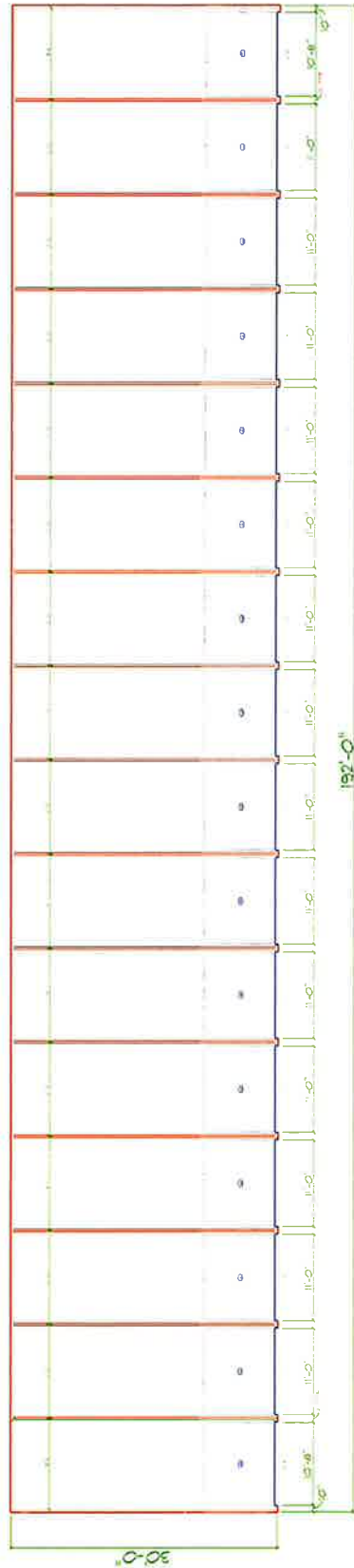
APPLICANT

1. Name: AUSTIN CLARYS 2. Company: WESTERN STEEL BUILDERS, INC.
3. Telephone: 701.748.6305 4. Email: austinwsb@westriv.com
5. Address: 906 Main Street West Hazen ND 58545-1001
Street Address Town State Zip Code
6. Is the applicant also the owner? ☐ Yes ☒ No If no, please include owner's written authorization of you as agent.

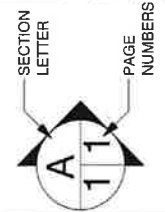
SUBJECT PROPERTY

7. Name of building: BUCHMANN STORAGE 2 (SCOTT & HEATHER BUCHMANN)
8. Address: 718 CO RD 21 BEULAH ND 58523
Street Address Town State Zip Code
9. Owner: SCOTT & HEATHER BUCHMANN 600 12TH AVE NE, BEULAH, ND 58523
Name Address
10. Use group: C-2 11. Change of use: ☐ Yes ☒ No If yes, from : _____ to: _____
Permitted Use
12. Type of construction: METAL BUILDING 13. Number of stories: 1
14. Area of building in square feet: Whole building: 5,760 SF Addition or alteration: N/A
15. Check applicable designation: ☒ New Building ☐ Existing Building ☐ Addition ☐ Alteration ☐ Other (explain): _____
16. Date of approval of current building permit: _____

Continued...



PHONE:
FAX:
MOBILE:



Buchman Storage - 16 Unit

PHONE: 701-891-0203
FAX:
MOBILE:

718 Co Rd 21
Beulah
North Dakota
scottbuchman@hotmail.com

DRAWN BY:

SCALE:

DATE: Monday, September 19, 2022

PAGE:

1

Scott Buchmann - Mini Storage 2

30'-0" x 192'-0" x 5" SOG w/ T.E.

Legend

 Scott Buchmann - Mini Storage 2



VARCO PRUDEN MINI-STORAGE BUILDING 1/2:12 PITCH LEAN-TO



Sheet Index

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A1.0	FLOOR PLAN & ELEVATIONS BLDG A
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C1.0	INTERIOR WALL FRAMING ELEVATION
C2.0	END WALL FRAMING ELEVATION
C3.0	ROOF FRAMING PLAN BLDG A
E1.0	SIDEWALL ELEVATIONS
E1.1	SIDEWALL ELEVATIONS
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REVISION	BY	DATE



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VP BUCHMAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND
COVER PAGE

Date	2/6/23
Drawn by	TSL
Scale	N.T.S.
Proj. No.	P57285
Order No.	
Sheet No.	

Cover

Abbreviations

Terms	Terms	Colors
BEW Blank Endwall	NTS. Not To Scale	ASGY Ash Gray
BSW Blank Sidewall	O.C. On Center	BWHT Bright White
BLDG. Building	OPP. Opposite	CDRD Cedar Red
CNR Corner	PART Partition	CLBG Classic Beige
COL Column	PT Partition	CRMB Cream Beige
CTR. Center	PSF Pounds Per Sq. Foot	CONB Conit. Brown
DIA. Diameter	PTD. Painted	DTAN Desert Tan
DBL. Double	QTY. Quantity	EVGN Evergreen
EPDM Ethylene-Propylene-Diene-Monomer	REQ'D. Required	GARN Garnet
EW Endwall	R.O. Rough Opening	IWHT Iced White
EXT Exterior	S.D. Self Drilling	ORAN Sunset Orange
F.O. Finished Opening	STR. Starter	PLBL Polar Blue
F.M. Field Modify	TYP. Typical	ROYB Royal Blue
GA. Gauge	WWF Welded Wire Fabric	SGRY Slate Gray
GALV. Galvanized		
GALVM. Galvalume		
I.D. Inside Diameter		
INT Interior		
MISC. Miscellaneous		
MPH Miles Per Hour		
NOM. Nominal		

Part Numbering

10-DIGIT PART NUMBER
5000500000

COMPONENT NUMBER COLOR GAUGE

2-DIGIT CODE IDENTIFIES MATERIAL COLOR OR GAUGE
STRUCTURAL PARTS USE GAUGE CODE
NON-STRUCTURAL PARTS USE COLOR CODE

4-DIGIT RANDOM NUMBER
RANGE FROM 0000 TO 9999
MOST COMPONENTS WILL FOLLOW A LOGICAL SEQUENCE
BASED ON HOW OR WHERE THEY ARE USED ON A BUILDING

4-DIGIT COMPONENT CODE
THIS IDENTIFIES A CLASS OF PARTS
SUCH AS COLUMNS, HEADERS, BASEPLATES ETC.

9-DIGIT NUMBER
33

Imaginary Decimal Point

5-DIGIT LENGTH
FIRST 3-DIGITS = INCHES
LAST 2-DIGITS ARE DECIMAL (FRACTION)
ALWAYS IMAGINE A DECIMAL POINT BEFORE LAST 2-DIGITS

2-DIGIT CODE IDENTIFIES MATERIAL COLOR OR GAUGE
STRUCTURAL PARTS USE GAUGE CODE
NON-STRUCTURAL PARTS USE COLOR CODE

2-DIGIT PROFILE CODE
THIS IDENTIFIES A STANDARD PROFILE
SUCH AS PANELS, TRIMS, STUDS, ETC.

2-DIGIT GAUGE CODES	2-DIGIT WALL & TRIM COLOR CODES	2-DIGIT DOOR or TRIM COLOR CODES	2-DIGIT 2-DIGIT COLOR CODES	2-DIGIT 2-DIGIT COLOR CODES
12 = 12-GAUGE	14 = 14-GAUGE	16 = 16-GAUGE	18 = 18-GAUGE	20 = 20-GAUGE
80 = Cream Beige	21 = Ash Gray	44 = Conit. Brown	10 = Regal White	28 = Clay
14 = 14-GAUGE	28 = Matte Black	45 = Garnet	11 = Roman Blue	33 = Polar White
16 = 16-GAUGE	31 = Pinkish Red	46 = Evergreen	12 = Evergreen	37 = Sand Stone
18 = 18-GAUGE	32 = Lead White	47 = Cedar Red	13 = Petrol Blue	38 = VP Charcoal Black
27 = Light Stone	41 = Desert Tan	48 = Shale	14 = Surrey Beige	39 = VP Patriotic Bronze
80 = Galvalume	42 = Polar Blue	49 = Lead White	23 = Regal/Harbor Blue	40 = Natural Stone
82 = Galvalume	43 = Royal Blue	54 = Bright White (Door)	24 = Colonial Red	65 = Yellow
	52 = Lime Green (Door only)	82 = Matte Black	28 = Matte Black	66 = Silver Metallo
		87 = Birch White		

Most of Trachte's standard color codes are shown. Special colors are not shown. Permit plans may not show the correct color of your desired building. The final erection set of drawings may show the correct colors ordered. The colors may not always be shown within the drawing set but the material listing will always show the correct color for the part listed.

Glossary

Anchor Bolts (Concrete Screws)	Bolts used to anchor eave/base angles or channels, and base plates to a foundation or other support.
Angle, Eave/Base	An angle or channel used at the base or top of a paneled wall section. Channels are usually used when the wall section is insulated.
Channel, Eave/Base	A plate attached to the bottom of a column or jamb which rests on a foundation or other support, usually secured by anchor bolts.
Base Plate	A plate attached to the bottom of a column or jamb which rests on a foundation or other support, usually secured by anchor bolts.
Bracing	Angles or straps used in the plane of the roof and walls to transfer loads, such as wind, seismic and crane thrusts to the foundation.
Bridging	Series of bracing used in the roof framing to stiffen purlins.
Clip	A plate or angle used to fasten two or more members together.
Column	A main member used in a vertical position on a building to transfer loads from main roof rafters, or purlins to the foundation.
Eave	The line along the sidewall formed by the intersection of the planes of the roof and wall.
Footing	A pad or mat, usually of concrete, located under a column, wall or other structural member, that is used to distribute the loads from that member into the supporting soil.
Girt	A horizontal structural member that is attached to sidewall or endwall columns and supports paneling.
Gutter	A light gauge metal member at an eave, valley or parapet designed to carry water from the roof to downspouts or drains.
Header	The horizontal framing member located at the top of a framed opening, (doors).
Jamb	The vertical framing members located at the sides of an opening (doors).
Purlin	A horizontal structural member which supports roof covering.
Rafter	The main beam supporting the roof system.
Rake Angle	Angle fastened to purlins at rake for attachment of endwall or partition panels.
Structural Line	Usually chalk lines laid out on the foundation to aid in placing columns and other structural components of a building floor plan. Accurate placement of these lines is critical to erecting a building.
Rake Trim	A trim designed to close the opening between the roof and endwall panels.
Ridge	The horizontal line formed by opposing sloping sides of a roof running parallel with the building length.

Symbols & Materials

	Revision Indicator
	Notation Reference
	Detail Identification/Reference
	Detail Identification
	Section Identification/Reference
	Part Number Identification
	Rise/Run Identification
	North Arrow
	Concrete
	Earth
	Insulation
	Down Spout

Code Summary

CODE CONSTRUCTION TYPE	2018 INTERNATIONAL BUILDING CODE
USE GROUP	TYPE II B
GROUND SNOW LOAD	MODERATE HAZARD STORAGE, S-1
SNOW EXPOSURE CATEGORY	40 psf
SNOW IMPORTANCE FACTOR	B
WIND VELOCITY (V _{ULT})	0.8
WIND VELOCITY (V _{ASD})	111 mph
WIND EXPOSURE CATEGORY	86 mph
RISK CATEGORY	B
SPECTRAL RESPONSE ACCELERATION (S _s)	I
SPECTRAL RESPONSE ACCELERATION (S ₁)	0.052
SPECTRAL RESPONSE ACCELERATION (S _{DS})	0.023
SPECTRAL RESPONSE ACCELERATION (S _{D1})	0.055
SITE CLASS	0.037
SEISMIC DESIGN CATEGORY	D
	A

General Notes

Structural Fasteners
Trachte structural bolts are SAE J429-Grade-2 or ASTM A307A unless specifically noted. These are typically Trachte Part No's 760110 & 764200. All bolt holes shall be aligned to permit insertion of bolts without undue damage to threads. Bolts shall be placed in all holes and nuts threaded to complete assembly. Compacting joint to snug-tight condition shall progress systematically from most rigid part of joint. Snug-tightened condition is tightness attained with a few impacts of impact wrench or full effort of ironworker using ordinary spud wrench to bring connected piles into firm contact. Specification for Structural Joints Using High Strength Bolts, December 31, 2009

Self Drilling Fasteners
Use self-drilling screws in the locations, quantities, and methods shown or noted on these drawings. Self-Drilling Fasteners should be used in accordance with SAE J78 specifications for Self-Drilling Screws.

WARNING: When installing Self-Drilling screws, take care to minimize exposed screwpoint hazard, by locating screws next to panel bands and near recessed corners of angles.

Structural Bracing
All structural bracing is an integral part of the structural system and should be installed where noted or shown on the Floor Plans & Roof Framing Plans all connections should be consistent with all details related to installation of bracing components. Removal or alteration of bracing without prior authorization is prohibited.

Temporary Bracing
Temporary supports or bracing required to erect the building is the responsibility of the erector to determine, furnish, install and remove.

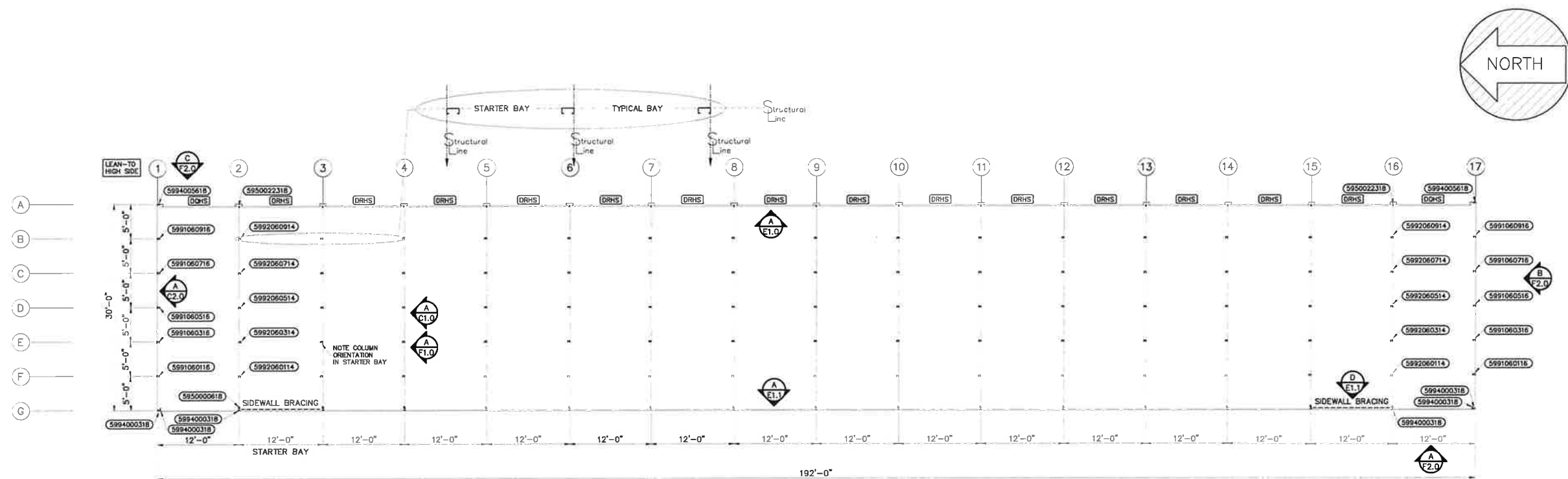
Permits
It is the responsibility of the Building Owner/ Contractor/ Erector to obtain all appropriate approvals and necessary permits from City, County, State, or other agencies as required.

Structural Lines
Structural lines are referenced often throughout our drawing details. These relate to the chalk lines that are to be laid out on the foundation. The lines should always be laid out taking into consideration the inherent imperfections commonly associated with foundations. The edge of a foundation is seldom straight enough to use as a base for dimensioning. It is recommended to begin your layout at 10'-1" from the sidewall edge (refer to "Locating The First Line" in the Trachte Erection Manual). All other lines should be placed accurately from the first line.

By Others
The design, detailing, and materials for items designated as "By Others" are not the responsibility of Trachte Building Systems, Inc.

Field Cutting and Drilling
Field cutting and drilling of some parts will be required.

NOTICE:
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FLOOR PLAN FOR 10'-4" EAVE, 1/2:12 PITCH, MINI STORAGE BUILDING A 1/8" = 1'-0"

DOOR SCHEDULE							
QTY	CODE	TYPE	SIZE	ROUGH OPENING (REF.)	MANUF.	DESCRIPTION	COLOR
2	DQHS	ROLL-UP	10'-8" x 10'-3"	10'-8" x 10'-3"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED ..
14	DRHS	ROLL-UP	11'-0" x 10'-3"	11'-0" x 10'-3"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED ..

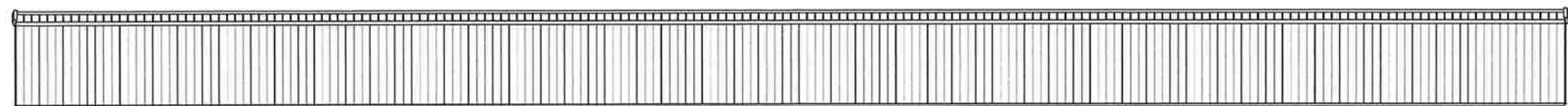
ROLL-UP DOORS MEET ASTM E330

DO NOT ORDER DOORS BY OTHERS PRIOR TO RECEIVING THE ERECTION SET.
RO AND DOOR SIZES MAY VARY DUE TO ENGINEERING ISSUES.



HIGH SIDE WALL ELEVATION

1/8"=1'-0"



LOW SIDE WALL ELEVATION

1/8"=1'-0"



END WALL ELEVATION



END WALL ELEVATION

REVISION

By
Date



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VP BUCHMAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND
FLOOR PLAN & ELEVATIONS BLDG A

Date
2/6/23

Drawn by
TSL

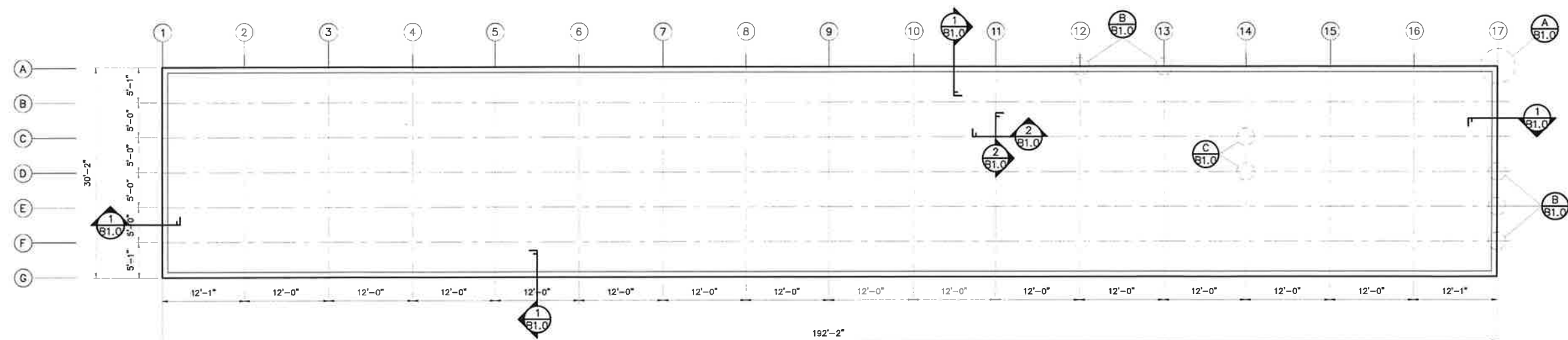
Scale
1/8" = 1'-0"

Proj. No.
P57285

Order No.
-

Sheet No.

A1.0



GENERAL FOUNDATION NOTES

FOUNDATION DESIGN NOTES:

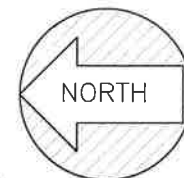
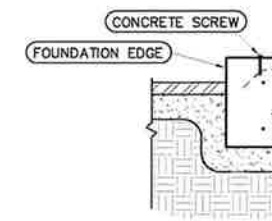
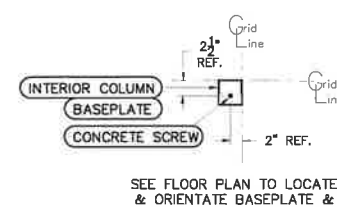
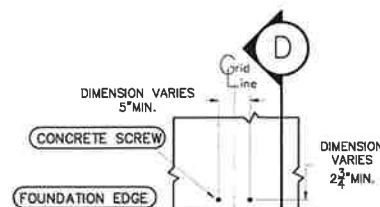
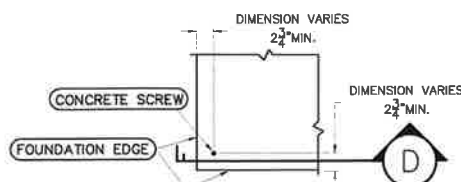
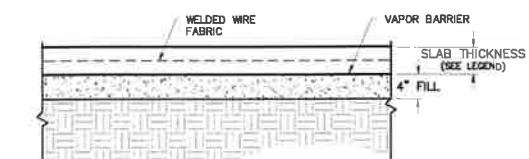
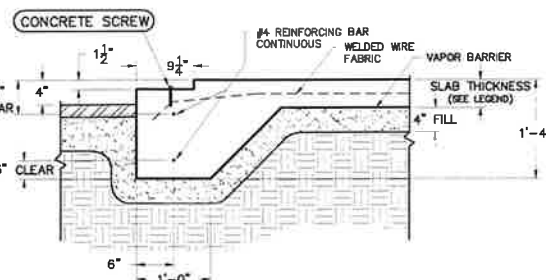
GENERAL FOUNDATION NOTES:

NOTE

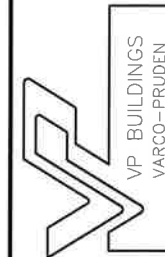
FOUNDATION
LEGEND

SLAB THICKNESS
5"

3/8" x 2 1/2'

 $3/8" \times 2 1/2"$ [illegible]

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VP
BUCHANAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND

2/6/23

Drawn by: _____

Scale $1/8" = 1'-0"$

P57285

Order No. _____

B1.0

PART # INDEX	
PART #	DESCRIPTION
5050020012	12ga. interior base plate
5050020112	12ga. DBL. jamb, base plate
5050022218	18ga. DBL. jamb clip
5950000618	18ga. PT. support, BSW, 10'-4"
5950022318	18ga. support, JAMB, 11'-7" EV.
59700119XX	18ga. double jamb, 11'-7", COLORED
5987000018	18ga. PT. rake angle, 5' long
5992060114	14ga. interior column, 3.63" x 2" 5'/EV
5992060314	14ga. interior column, 3.63" x 2" 10'/EV
5992060514	14ga. interior column, 3.63" x 2" 15'/EV
5992060714	14ga. interior column, 3.63" x 2" 20'/EV
5992060914	14ga. interior column, 3.63" x 2" 25'/EV
5994000318	18ga. BSW column, 3.63" x 1.5", 10'-4EV

01 INSTALLATION PROCEDURES FOR CONCRETE SCREW ANCHORS

- STEP 1. USING THE SAME DIAMETER DRILL BIT, DRILL A HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH. THE TOLERANCES OF THE DRILL BIT USED SHOULD MEET THE REQUIREMENTS OF ANSI STANDARD B212.15.
- STEP 2. REMOVE DUST AND DEBRIS FROM THE HOLE USING A HAND PUMP, COMPRESSED AIR, OR VACUUM.
- STEP 3. SELECT A TORQUE WRENCH OR POWERED IMPACT WRENCH AND DO NOT EXCEED THE MAXIMUM TORQUE, T_{max} OR T_{min} , RESPECTIVELY FOR THE SELECTED ANCHOR DIAMETER AND EMBEDMENT. ATTACH AN APPROPRIATE SIDED HEX SOCKET/DRIVER TO THE IMPACT WRENCH. MOUNT THE SCREW ANCHOR HEAD INTO THE SOCKET.
- STEP 4. DRIVE THE ANCHOR INTO THE HOLE UNTIL THE HEAD OF THE ANCHOR COMES INTO CONTACT WITH THE FIXTURE. THE ANCHOR MUST BE SNUG AFTER INSTALLATION. DO NOT SPIN THE HEX SOCKET OFF THE ANCHOR TO DISENGAGE.

02 POWDER ACTUATED ANCHORS (BY ERECTOR)

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS. POWDER ACTUATED ANCHORS ARE TO BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS ONLY. TRACK BASE IS AN EXAMPLE OF PARTS THAT REQUIRE POWDER ACTUATED ANCHORS. NOTE: SOME PARTS REQUIRE BOTH POWDER ACTUATED & CONCRETE SCREW ANCHORING AS SPECIFIED.

100 7", 9", 11" & 12" PURLINS:

7" (AS SHOWN) AND 9" PURLINS HAVE TWO-BOLT CONNECTIONS ON EACH END. 11" AND 12" PURLINS REQUIRE THREE-BOLT CONNECTIONS ON EACH END.

19 PARTITION SUPPORT AT BLANK WALL

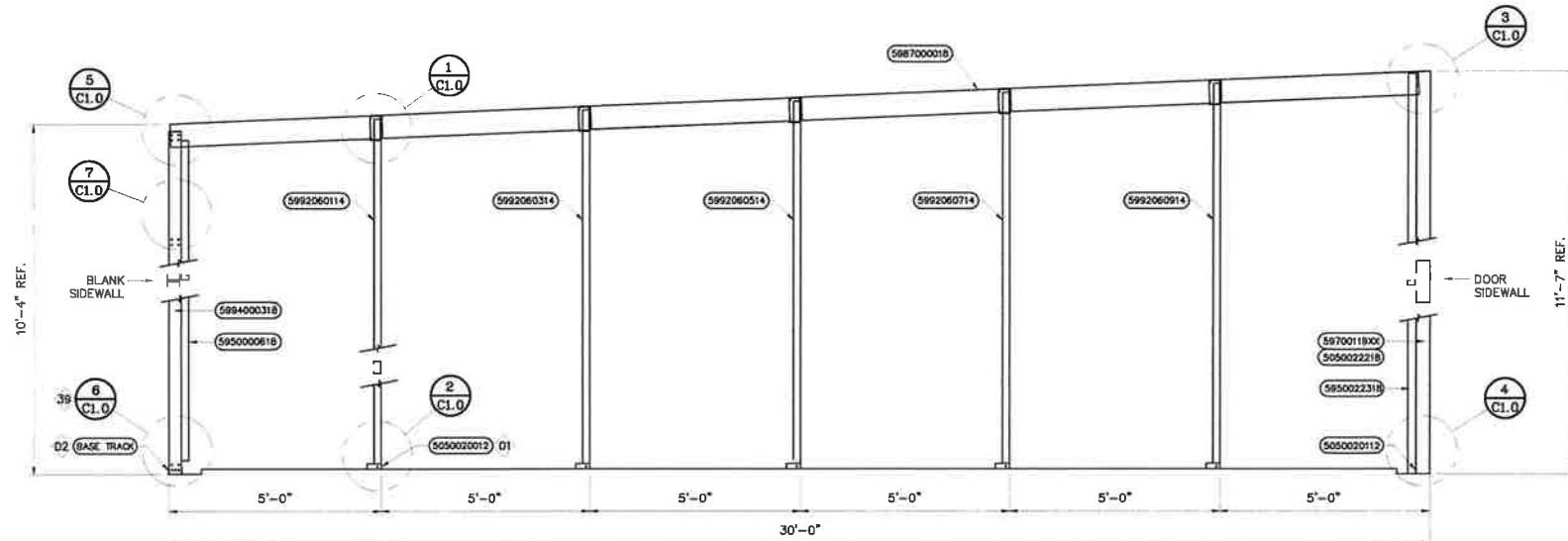
BLANK SIDEWALL PARTITION SUPPORT IS ONLY REQUIRED WHERE AN INTERIOR PARTITION PANEL WALL INTERSECTS WITH THE BLANK SIDEWALL. REVIEW YOUR FLOOR PLAN FOR LOCATION AND QUANTITY OF BLANK SIDEWALL SUPPORTS. THE BLANK SIDEWALL SUPPORT MAY NEED TO BE FIELD CUT TO THE PROPER HEIGHT. INSULATED SIDEWALLS WILL USE A ZEE SHAPED SUPPORT, DIFFERENT FROM THE ONE SHOWN. SEE FLOOR PLAN FOR PARTITION CHANNEL PART NUMBERS.

39 EXTERIOR COLUMN & NOTCH LAYOUT

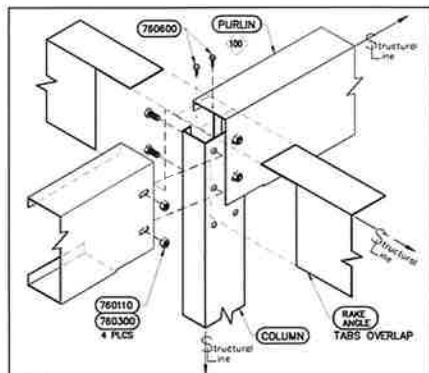
FOUNDATION SHOWN WITH A NOTCH, REFER TO FOUNDATION PLAN FOR ACTUAL FOUNDATION LAYOUT. INSTALL SILL PLATE SEALER (#102702) UNDER THE BASE TRACK AT ANY NO NOTCH BLANK WALL.

52 BASE PLATE REFERENCE HOLES

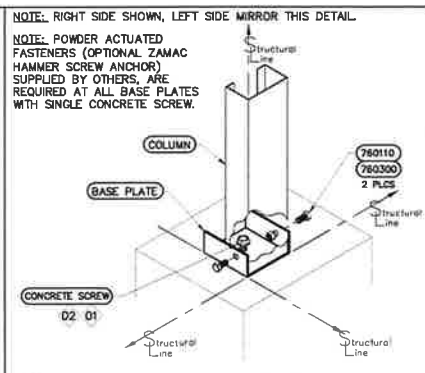
HOLES AT THE CENTER OF THE BASE PLATES ARE USED AS A GUIDE TO LOCATE BASEPLATES ON THE STRUCTURAL LINES (CHALK LINES).



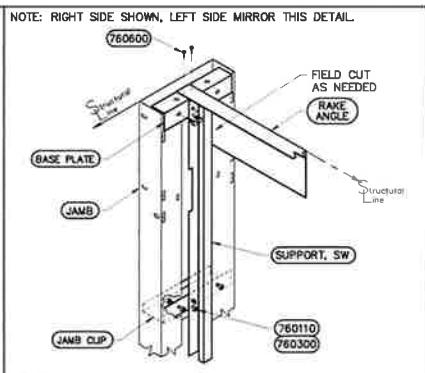
A INTERIOR WALL FRAMING ELEVATION, 1/2" PITCH LEAN-TO
PARTITION PANEL NOT SHOWN, SEE PARTITION DETAILS



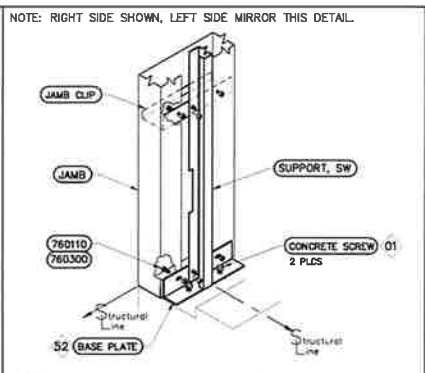
1 INTERIOR COLUMN, PURLIN, RAKE ANGLE CONNECTION



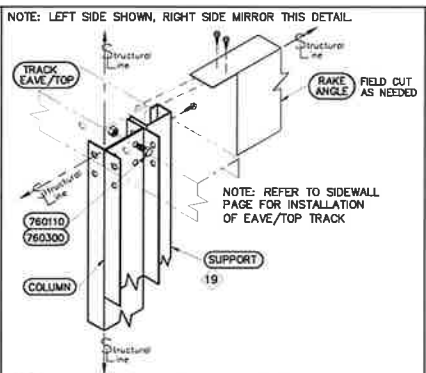
2 INTERIOR COLUMN/BASE PLATE CONNECTION



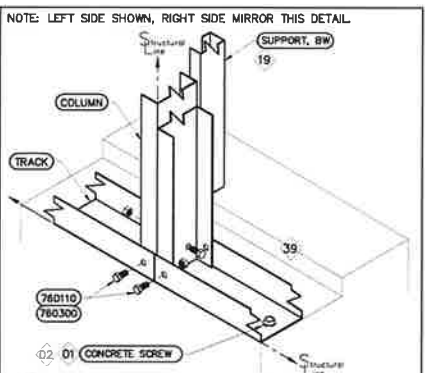
3 JAMB/SUPPORT/RAKE ANGLE CONNECTION



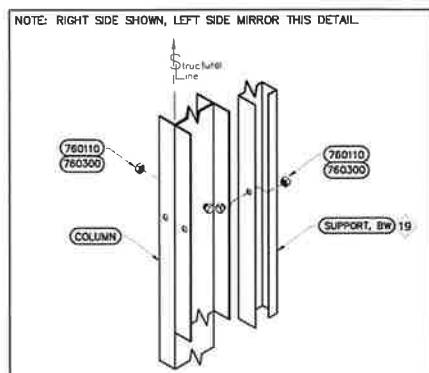
4 JAMB/SUPPORT/BASE PLATE CONNECTION



5 SIDEWALL COLUMN/RAKE ANGLE CONNECTION @ BLANK WALL



6 SIDEWALL COLUMN/BASE ANGLE CONNECTION @ BLANK WALL



7 BLANK SIDEWALL COLUMN @ SUPPORT CONNECTION

REVISION	By	Date



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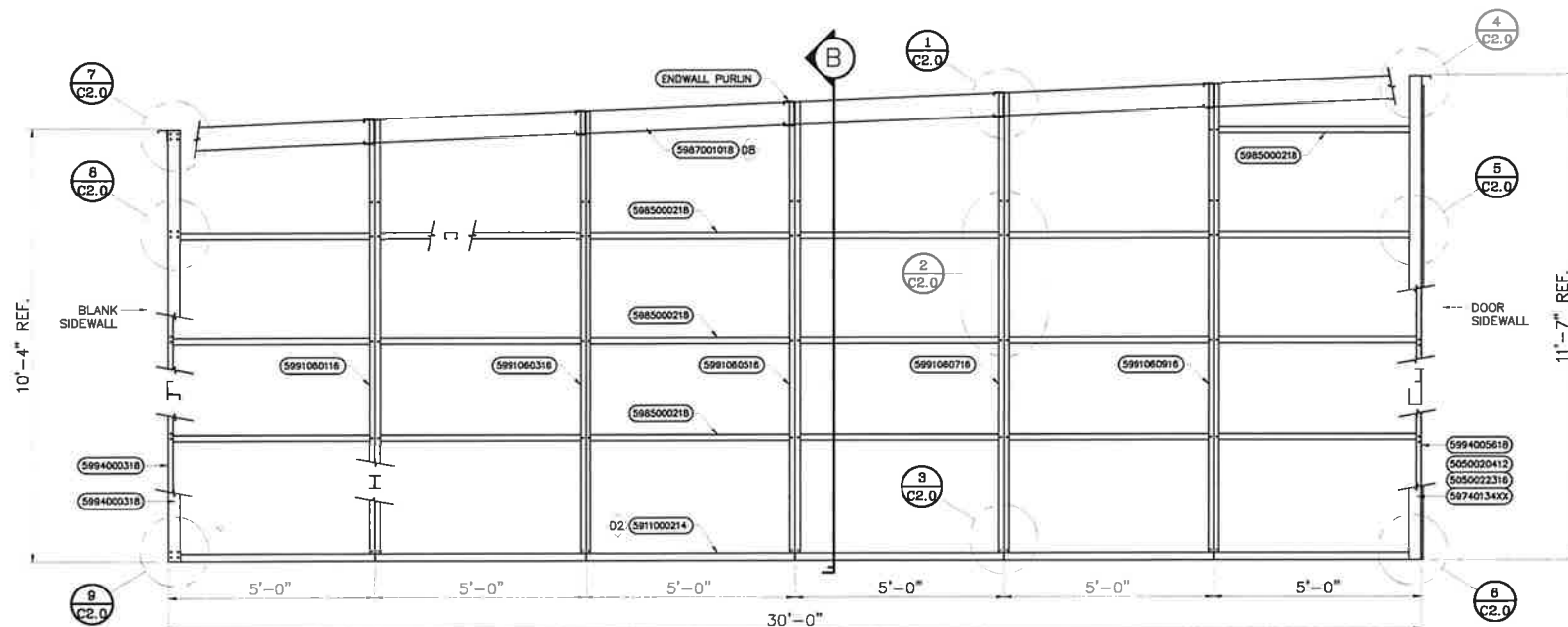


VP BUILDINGS
VARCO-PRUDEN

VP
BUCHANAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND
Interior Wall Framing Details

C1.0

PART # INDEX	
PART #	DESCRIPTION
5050020412	12ga. STR. jamb, base plate
5050022316	16ga. STR. jamb clip
5911000214	14ga. EXT. wall base track 3.88" x 5' long
59740134XX	18ga. starter jamb, LH, 11'-7", COLORED
5985000218	18ga. EXT. girt, 4'-11 1/4" long
5987001018	18ga. PT. rake angle, 16' long
5991060116	16ga. EW column, 3.63" x 1.5", 5'-0" /EV
5991060316	16ga. EW column, 3.63" x 1.5", 10'-0" /EV
5991060516	16ga. EW column, 3.63" x 1.5", 15'-0" /EV
5991060716	16ga. EW column, 3.63" x 1.5", 20'-0" /EV
5991060916	16ga. EW column, 3.63" x 1.5", 25'-0" /EV
5994000318	18ga. BSW column, 3.63" x 1.5", 10'-4EV
5994005618	18ga. BSW column, 3.63" x 1.5", 11'-7EV



04 (A) NOTCHED BLANK ENDWALL ELEVATION, 1/2" PITCH LEAN-TO (INTERIOR VIEW)

01 INSTALLATION PROCEDURES FOR CONCRETE SCREW ANCHORS

- STEP 1. USING THE SAME DIAMETER DRILL BIT, DRILL A HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH. THE TOLERANCES OF THE DRILL BIT USED SHOULD MEET THE REQUIREMENTS OF ANSI STANDARD B212.15.
- STEP 2. REMOVE DUST AND DEBRIS FROM THE HOLE USING A HAND PUMP, COMPRESSED AIR, OR VACUUM.
- STEP 3. SELECT A TORQUE WRENCH OR POWERED IMPACT WRENCH AND DO NOT EXCEED THE MAXIMUM TORQUE, T_{MAX} OR T_{MIN} , RESPECTIVELY FOR THE SELECTED ANCHOR DIAMETER AND EMBEDMENT. ATTACH AN APPROPRIATE SIDED HEX SOCKET/DRIVER TO THE IMPACT WRENCH, MOUNT THE SCREW ANCHOR HEAD INTO THE SOCKET.
- STEP 4. DRIVE THE ANCHOR INTO THE HOLE UNTIL THE HEAD OF THE ANCHOR COMES INTO CONTACT WITH THE FIXTURE. THE ANCHOR MUST BE SNUG AFTER INSTALLATION. DO NOT SPIN THE HEX SOCKET OFF THE ANCHOR TO DISENGAGE.

02 POWDER ACTUATED ANCHORS (BY ERECTOR)

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS. POWDER ACTUATED ANCHORS ARE TO BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS ONLY. TRACK BASE IS AN EXAMPLE OF PARTS THAT REQUIRE POWDER ACTUATED ANCHORS. NOTE SOME PARTS REQUIRE BOTH POWDER ACTUATED & CONCRETE SCREW ANCHORING AS SPECIFIED.

04 LEAN-TO ENDWALL ELEVATIONS

ACTUAL ENDWALL LAYOUT MAY MIRROR THIS ELEVATION. SEE FLOOR PLAN FOR ACTUAL LAYOUT AND LOCATION OF HIGH SIDE. STARTER JAMBS ARE LEFT & RIGHT HANDED. IF CONSTRUCTING A MIRROR VIEW OF THIS ELEVATION USE THE OPPOSITE STARTER JAMB. STARTER JAMB PART NUMBERS ARE DIFFERENT BUT SIMILAR. SEE BILL OF MATERIAL FOR CORRECT PART NUMBER.

08 FIELD CUTTING

PARTS PROVIDED FOR OUR BUILDINGS OFTEN NEED FIELD CUTTING. ALL FIELD CUTS SHOULD BE DONE WITH ACCURATE MEASUREMENTS AND QUALITY TOOLS TO ASSURE THAT GOOD APPEARANCE IS NOT COMPROMISED. OUR SILL TRIM OFTEN NEEDS TO BE NOTCHED FOR CLEARANCE OF BOLT HEADS OR OTHER OBSTRUCTIONS. LAP JOINTS SHOULD ALWAYS BE ARRANGED TO SHED WATER FROM OVERHEAD OR FROM THE PREVAILING WIND DIRECTION. GOOD QUALITY & ACCURATE FIELD CUTS WILL MINIMIZE THE AMOUNT OF CAULK NEEDED AND PROVIDE FOR A GOOD APPEARANCE.

100 7", 9", 11" & 12" PURLINS:

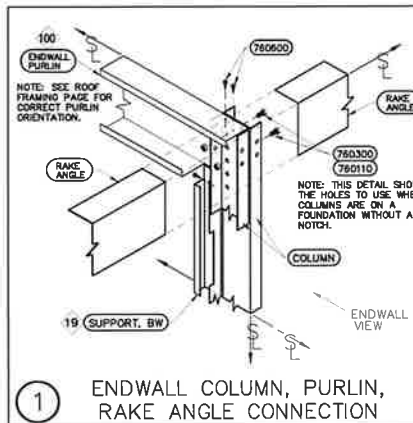
7" (AS SHOWN) and 9" PURLINS HAVE TWO-BOLT CONNECTIONS ON EACH END. 11" AND 12" PURLINS REQUIRE THREE-BOLT CONNECTIONS ON EACH END.

19 PARTITION SUPPORT AT BLANK WALL

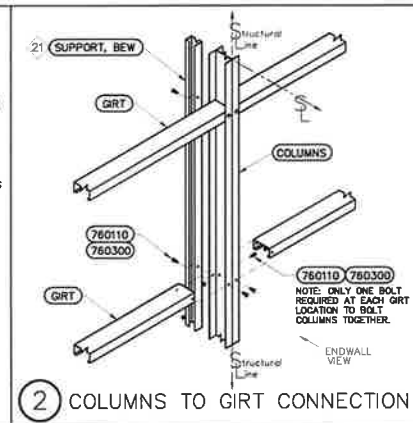
BLANK SIDEWALL PARTITION SUPPORT IS ONLY REQUIRED WHERE AN INTERIOR PARTITION PANEL WALL INTERSECTS WITH THE BLANK SIDEWALL. REVIEW YOUR FLOOR PLAN FOR LOCATION AND QUANTITY OF BLANK SIDEWALL SUPPORTS. THE BLANK SIDEWALL SUPPORT MAY NEED TO BE FIELD CUT TO THE PROPER HEIGHT. INSULATED SIDEWALLS WILL USE A ZEE SHAPED SUPPORT, DIFFERENT FROM THE ONE SHOWN. SEE INSULATION DETAILS IF YOU HAVE INSULATED SIDEWALLS. SEE FLOOR PLAN FOR PARTITION CHANNEL PART NUMBERS.

21 PARTITION SUPPORT AT BLANK ENDWALL

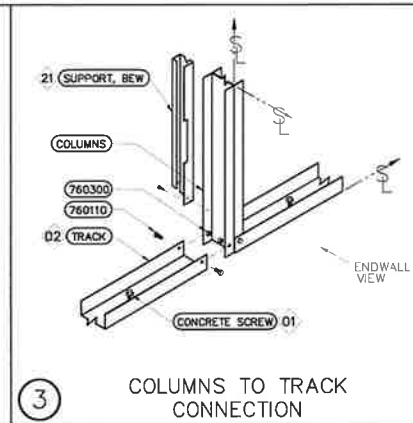
PARTITION SUPPORT ARE ONLY REQUIRED AT AN INTERIOR PARTITION WALL. SEE FLOOR PLAN FOR LOCATION AND QUANTITY. LINE UP THE BOTTOM BOLT HOLE WITH THE BOTTOM ENDWALL GIRT AND FIELD CUT SUPPORT JUST BELOW PURLIN. YOU WILL NEED TO FIELD NOTCH SUPPORT TO ALLOW FOR THE TOP TEC-SCREW CONNECTION.



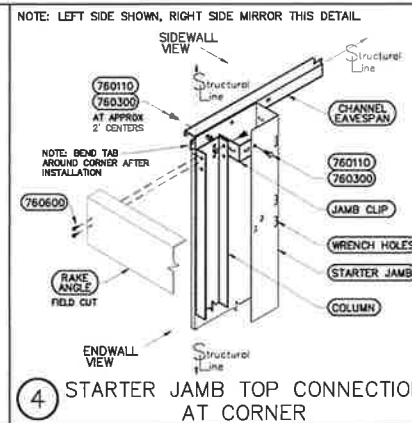
1 ENDWALL COLUMN, PURLIN, RAKE ANGLE CONNECTION



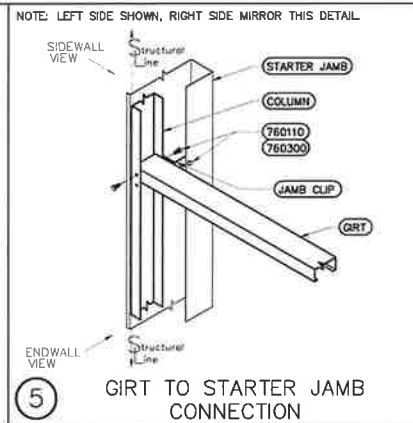
2 COLUMNS TO GIRT CONNECTION



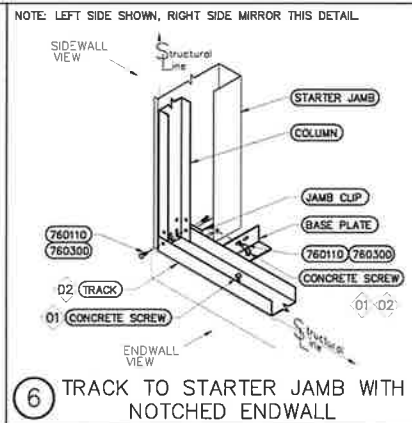
3 COLUMNS TO TRACK CONNECTION



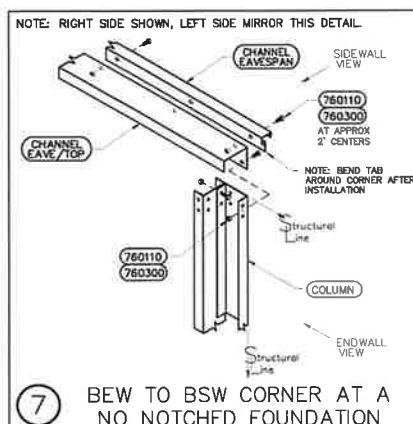
4 STARTER JAMB TOP CONNECTION AT CORNER



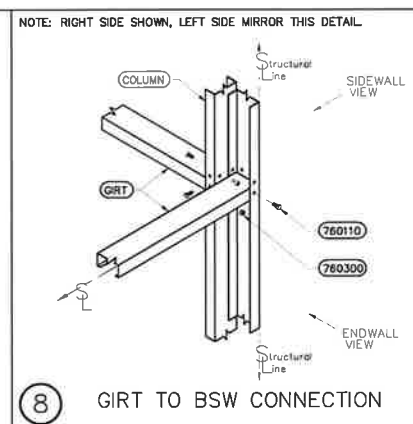
5 GIRT TO STARTER JAMB CONNECTION



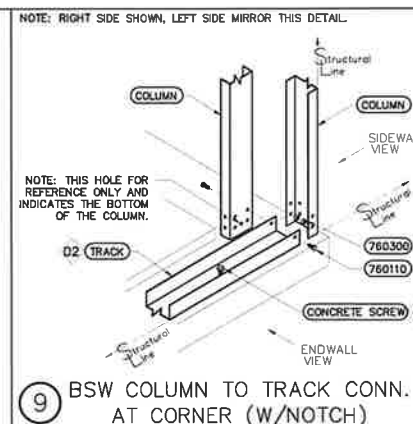
6 TRACK TO STARTER JAMB WITH NOTCHED ENDWALL



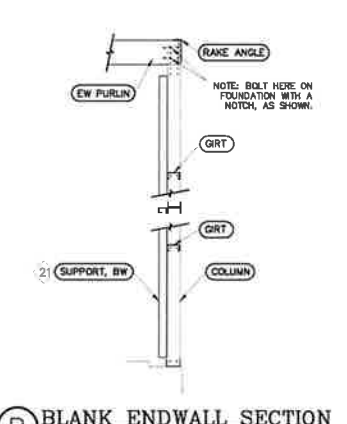
7 BEW TO BSW CORNER AT A NO NOTCHED FOUNDATION



8 GIRT TO BSW CONNECTION



9 BSW COLUMN TO TRACK CONN. AT CORNER (W/NOTCH)



B BLANK ENDWALL SECTION

REVISION

NO.	DATE	DESCRIPTION



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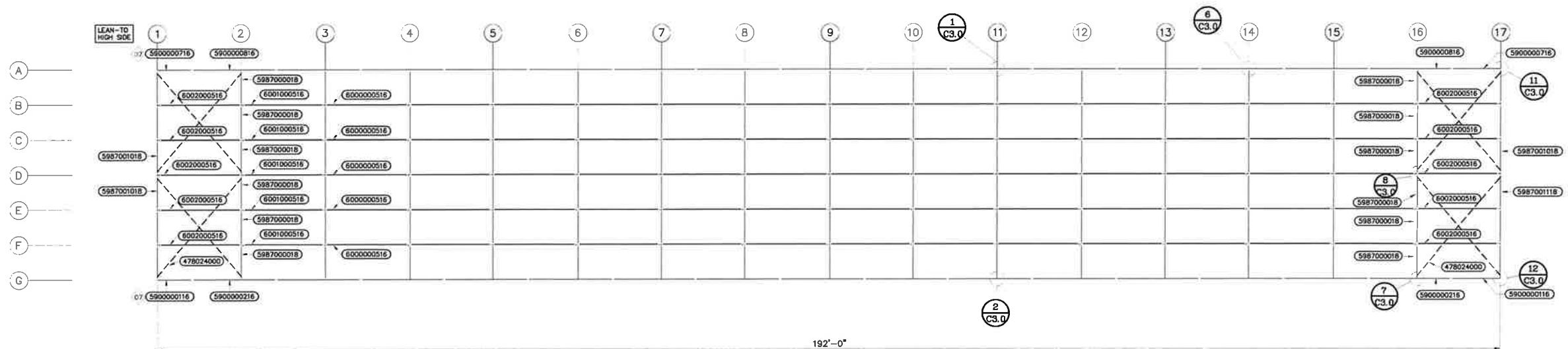
VP
BUCHANAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND

2/6/23
TSL
1/2" = 1'-0"
P57285

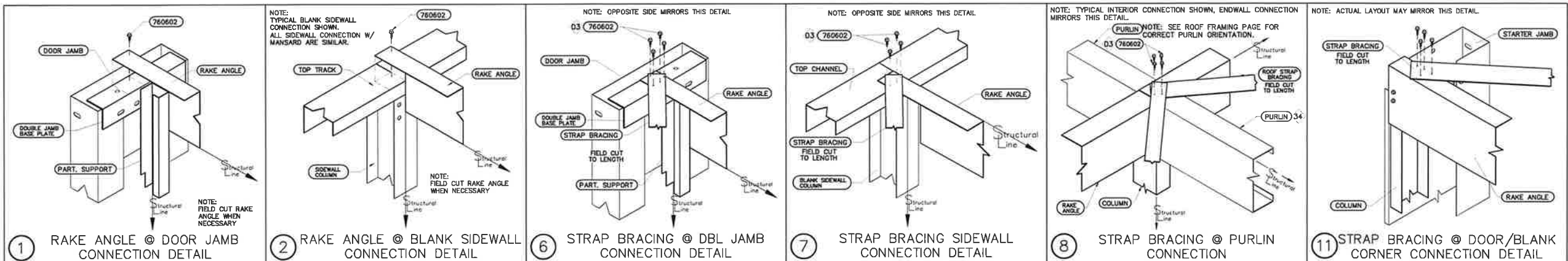
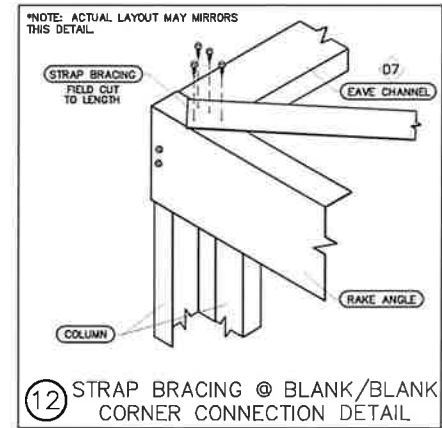
C2.0

PART # INDEX	
PART #	DESCRIPTION
478024000	16ga. strap bracing 20'-0" long
5900000116	16ga. SW span channel 5'-0" long
5900000216	16ga. SW span channel 10'-0" long
5900000716	16ga. high side SW span channel 5'-0" long
5900000816	16ga. high side SW span channel 10'-0" long
5987000018	18ga. PT. rake angle, 5' long
5987001018	18ga. PT. rake angle, 16' long
5987001118	18ga. PT. rake angle, 21' long
6000000516	16ga. typical purlin, 7" x 3" x 12'-0"
6001000516	16ga. starter purlin, 7" x 3" x 11'-8"
6002000516	16ga. endwall purlin, 7" x 3" x 12'-1.5"

- 03 **STRAP CROSS BRACING**
FASTEN STRAP WITH (4) #12 x 1/4" SELF DRILLING SCREWS, P/N 760600, AT EACH END. NOTE THE STRAPS MUST BE INSTALLED AFTER WALLS OR ROOF SECTIONS ARE SQUARED & PLUMBED. ALL STRAPS ARE TO BE INSTALLED SO THEY ARE STRAIGHT & TIGHT (UNDER TENSION). REFER TO ROOF PLAN OR FLOOR PLAN FOR EXACT LOCATION AND PLACEMENT OF ALL BRACING.
- 07 **EAVE SPAN CHANNEL**
WHEN INSTALLING THE EAVE SPAN CHANNELS START WITH A 5' CHANNEL FOLLOWED WITH 10' AND END WITH A 5' EAVE SPAN CHANNEL. CHANNELS WILL OVERLAP AT EACH END. SPAN CHANNELS SHOULD START AND END AT THE MIDPOINT OF A BAY WHENEVER POSSIBLE. SEE ROOF FRAMING PLAN TO DETERMINE WHICH P/N'S TO START & END WITH. INSTALL BOLTS TO SPAN CHANNELS THROUGH TOP TRACKS OR HEADERS @ 2'-0" OC. FIELD CUT EXCESS AT END OF RUN.
- 34 **PURLIN ORIENTATION**
THE PURLINS ARE ORIENTATED AS SHOWN. THE WEBS OF THE PURLIN AND INTERIOR COLUMN WILL FALL ON THE STRUCTURAL LINE. THE OPEN CAVITY OF THE PURLIN AND INTERIOR COLUMN SHOULD FACE THE EAVE OF THE BUILDING.



ROOF FRAMING PLAN FOR 10'-4" EAVE, 1/2:12 PITCH, MINI STORAGE BUILDING A 1/8" = 1'-0"



REVISION

DATE

REGISTERED PROFESSIONAL ENGINEER

HOWARD

FL - 0514

(407) 628-0003

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VP BUILDINGS

VARCO-PRUDEN

VP BUCHMAN STORAGE

718 COUNTY ROAD 21

BEULAH, ND

ROOF FRAMING PLAN BLDG A

Date: 2/6/23

Drawn by: TSL

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

Proj. No: P57285

Order No:

Sheet No:

C3.0

PART # INDEX	
PART #	DESCRIPTION
5050020112	12ga. DBL. jamb, base plate
5050020412	12ga. STR. jamb, base plate
5050022218	18ga. DBL. jamb clip
5050022318	18ga. STR. jamb clip
5950022318	18ga. support, JAMB, 11'-7" EV.
59700119XX	18ga. double jamb, 11'-7", COLORED
59740133XX	18ga. starter jamb, RH, 11'-7", COLORED
59740134XX	18ga. starter jamb, LH, 11'-7", COLORED
59767128XX	18ga. SW 18" header, 10'-8", COLORED
59767132XX	18ga. SW 18" header, 11'-0", COLORED
5994005618	18ga. BSW column, 3.63" x 1.5", 11'-7EV

01 INSTALLATION PROCEDURES FOR CONCRETE SCREW ANCHORS

STEP 1. USING THE SAME DIAMETER DRILL BIT, DRILL A HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH. THE TOLERANCES OF THE DRILL BIT USED SHOULD MEET THE REQUIREMENTS OF ANSI STANDARD B212.15.

STEP 2. REMOVE DUST AND DEBRIS FROM THE HOLE USING A HAND PUMP, COMPRESSED AIR, OR VACUUM.

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02 POWDER ACTUATED ANCHORS (BY ERECTOR)

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06 STARTER BAY

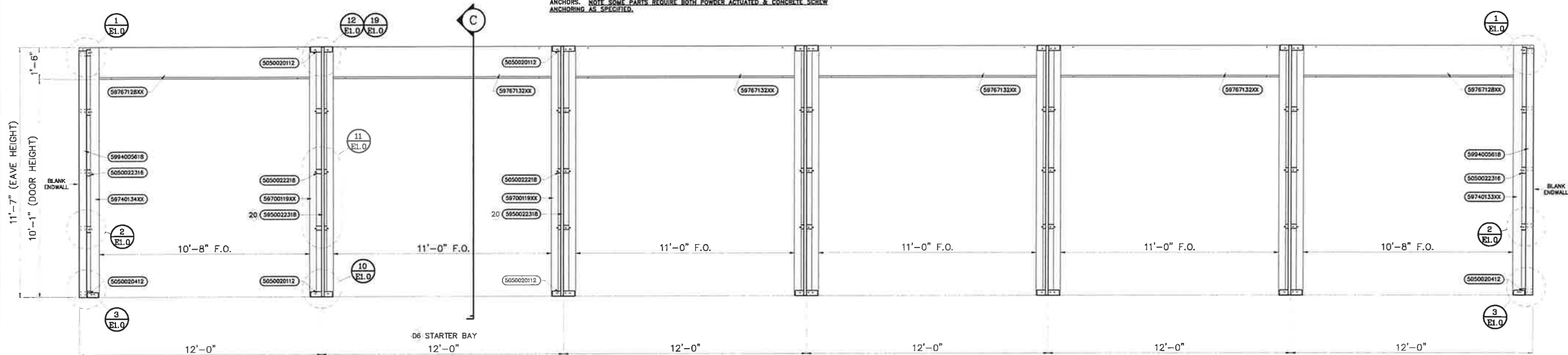
A STARTER BAY IS A BAY WHERE 2 ROWS OF COLUMNS FALL IN-BETWEEN THE 10' STRUCTURAL LINES OF THE FLOOR PLAN LAYOUT. TYPICAL 10' BAYS WILL ONLY HAVE ONE ROW OF COLUMNS WITHIN THE 10' STRUCTURAL LINES. THERE IS ALWAYS AT LEAST ONE 10' STARTER BAY. THERE MAY BE MORE THAN ONE IF YOUR BUILDING HAS CORRIDORS. THESE AREAS WILL BE MARKED AS A "STARTER BAY" ON THE FLOOR PLAN AND SIDE WALL PAGES. IT IS CRITICAL THAT THE STARTER BAY BE ERECTED CORRECTLY.

07 EAVE SPAN CHANNEL

WHEN INSTALLING THE EAVE SPAN CHANNELS START WITH A 5' CHANNEL FOLLOWED WITH 10' AND END WITH A 5' EAVE SPAN CHANNEL. CHANNELS WILL OVERLAP AT EACH END. SPAN CHANNELS SHOULD START AND END AT THE MIDPOINT OF A BAY WHENEVER POSSIBLE. SEE ROOF FRAMING PLAN TO DETERMINE WHICH P/N'S TO START & END WITH. INSTALL BOLTS TO SPAN CHANNELS THROUGH TOP TRACKS OR HEADERS @ 2'-0" OC. FIELD CUT EXCESS AT END OF RUN.

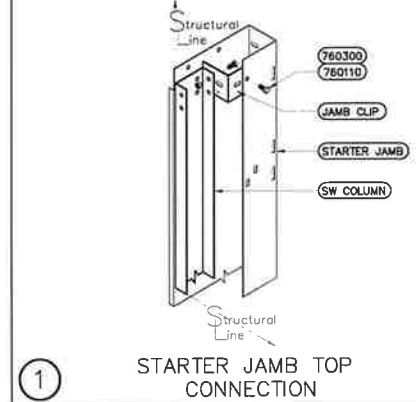
20 PARTITION SUPPORT AT DOOR SIDEWALL

DOOR SIDEWALL PARTITION SUPPORT IS NEEDED AT EVERY DOUBLE JAMB ALONG THE SIDEWALL. THE SIDE FLANGE OF THE SUPPORT WILL ALWAYS FALL ON THE STRUCTURAL LINE. THE SUPPORT WILL BE ON THE SAME SIDE OF THE STRUCTURAL LINE AS THE INTERIOR COLUMNS. SEE FLOOR PLAN FOR CORRECT ORIENTATION.

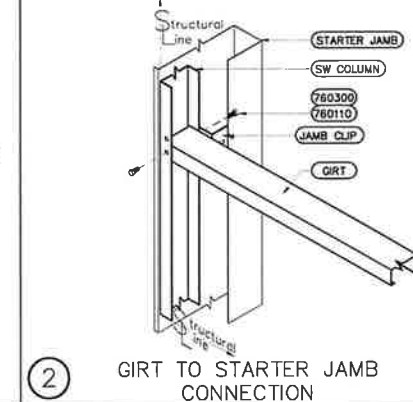


A SIDEWALL ELEVATION (INTERIOR VIEW)
(TYP. SIDEWALL ELEVATIONS SHOWN. LENGTH MAY VARY)

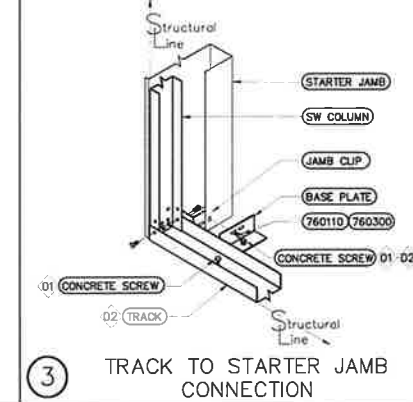
NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



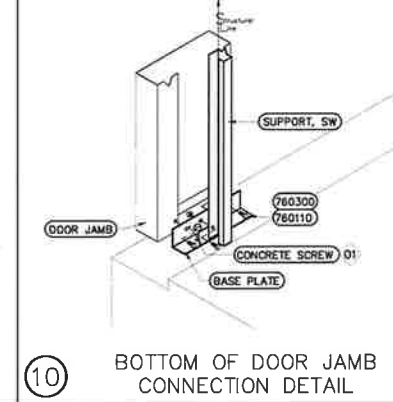
NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



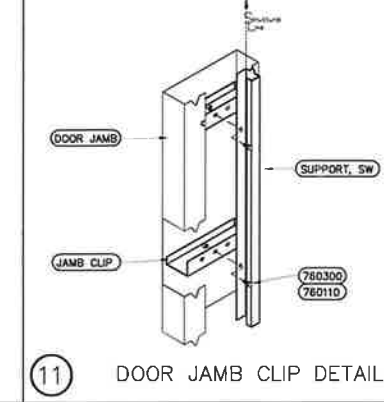
NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



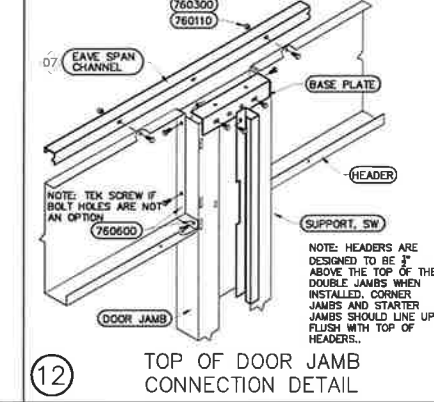
NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



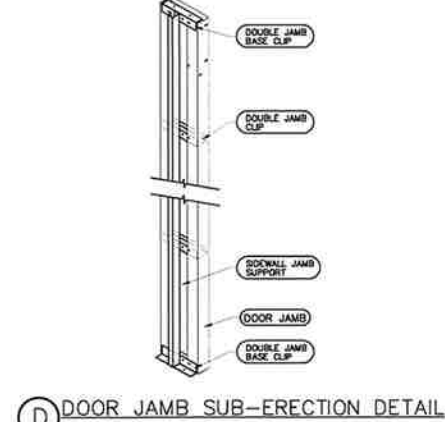
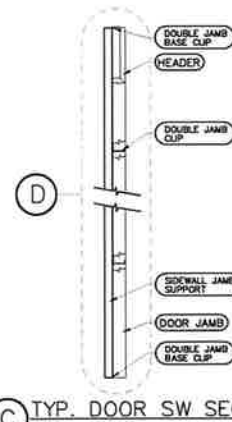
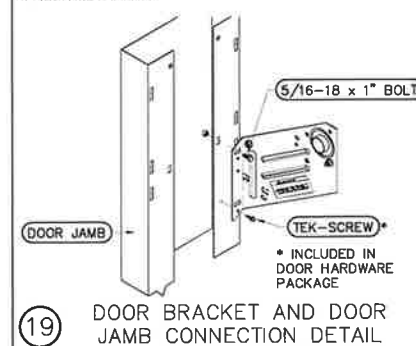
NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



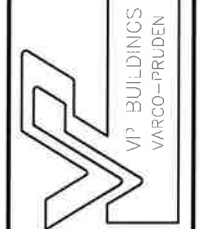
NOTE: NON-WINDLOCK DOOR BRACKET SHOWN. SEE WINDLOCK DETAIL WHEN MOUNTING WINDLOCK DOORS
NOTE: TYPICAL DOOR JAMB SHOWN. ALL OTHER DOOR JAMBS ARE SIMILAR



REVISION	Date



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VP
BUCHANAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND

2/6/23
TSL
1/2" = 1'-0"
P57285

E1.0

PART # INDEX	
PART #	DESCRIPTION
478019200	16ga. atrop. bracing 16'-0" long
478021800	16ga. atrop. bracing 18'-2" long
478024000	16ga. atrop. bracing 20'-0" long
5910000714	14ga. eave top track 3.88" x 3.13" x 12' long
5911087714	14ga. top base track 3.88" x 11'-8.5" long
5985002516	16ga. EXT. wall base track 3.88" x 12' long
5985002616	16ga. EXT. qirt 11'-11 1/4" long
5994000318	18ga. BSW column, 3.63" x 1.5", 10'-4EV

01. INSTALLATION PROCEDURES FOR CONCRETE SCREW ANCHORS

STEP 1. USING THE SAME DIAMETER DRILL BIT, DRILL A HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH. THE TOLERANCES OF THE DRILL BIT USED SHOULD MEET THE REQUIREMENTS OF ANSI STANDARD B212.15.

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03. STRAP CROSS BRACING

FASTEN STRAP WITH (4) #12 x 3/4" SELF DRILLING SCREWS, P/N 760600, AT EACH END. NOTE THE STRAPS MUST BE INSTALLED AFTER WALLS OR ROOF SECTIONS ARE SQUARED & PLUMBED. ALL STRAPS ARE TO BE INSTALLED SO THEY ARE STRAIGHT & TIGHT (UNDER TENSION). REFER TO ROOF PLAN OR FLOOR PLAN FOR EXACT LOCATION AND PLACEMENT OF ALL BRACING.

06. STARTER BAY

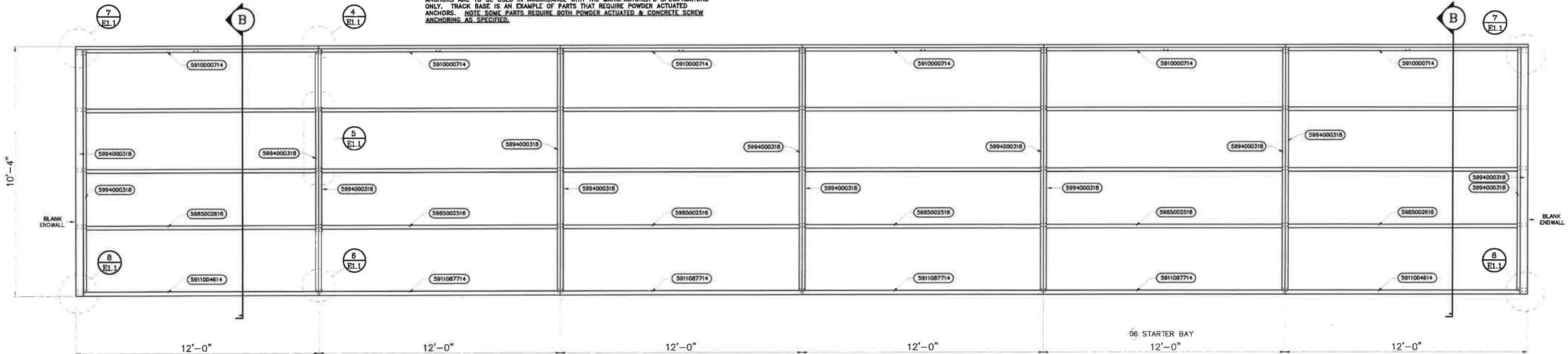
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07. EAVE SPAN CHANNEL

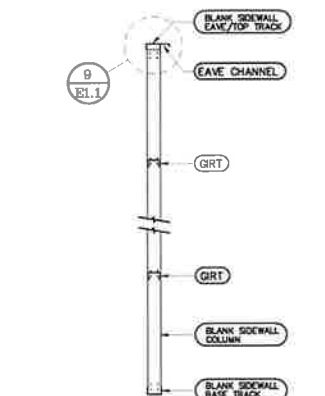
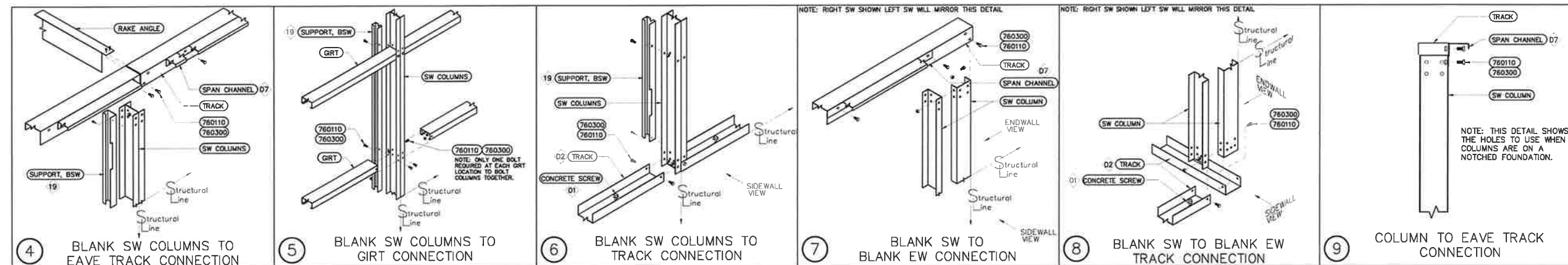
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19. PARTITION SUPPORT AT BLANK WALL

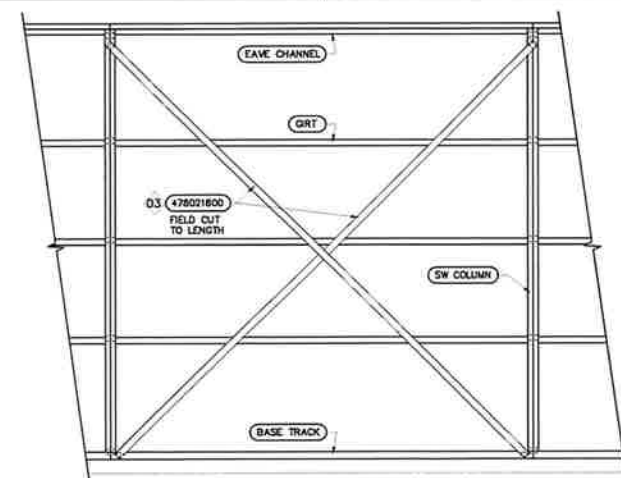
BLANK SIDEWALL PARTITION SUPPORT IS ONLY REQUIRED WHERE AN INTERIOR PARTITION PANEL WALL INTERSECTS WITH THE BLANK SIDEWALL. REVIEW YOUR FLOOR PLAN FOR LOCATION AND QUANTITY OF BLANK SIDEWALL SUPPORTS. THE BLANK SIDEWALL SUPPORT MAY NEED TO BE FIELD CUT TO THE PROPER HEIGHT. INSULATED SIDEWALLS WILL USE A ZEE SHAPED SUPPORT, DIFFERENT FROM THE ONE SHOWN. SEE INSULATION DETAILS IF YOU HAVE INSULATED SIDEWALLS. SEE FLOOR PLAN FOR PARTITION CHANNEL PART NUMBERS.



A. SIDEWALL ELEVATION (INTERIOR VIEW)
(TYP. SIDEWALL ELEVATIONS SHOWN. LENGTH MAY VARY)



B. TYPICAL BSW SECTIONAL



D. SIDEWALL ELEVATION W/ WALL BRACING (INTERIOR VIEW)
(SEE FLOOR PLAN FOR QUANTITY AND LOCATION OF WALL BRACING)

REVISION
Date



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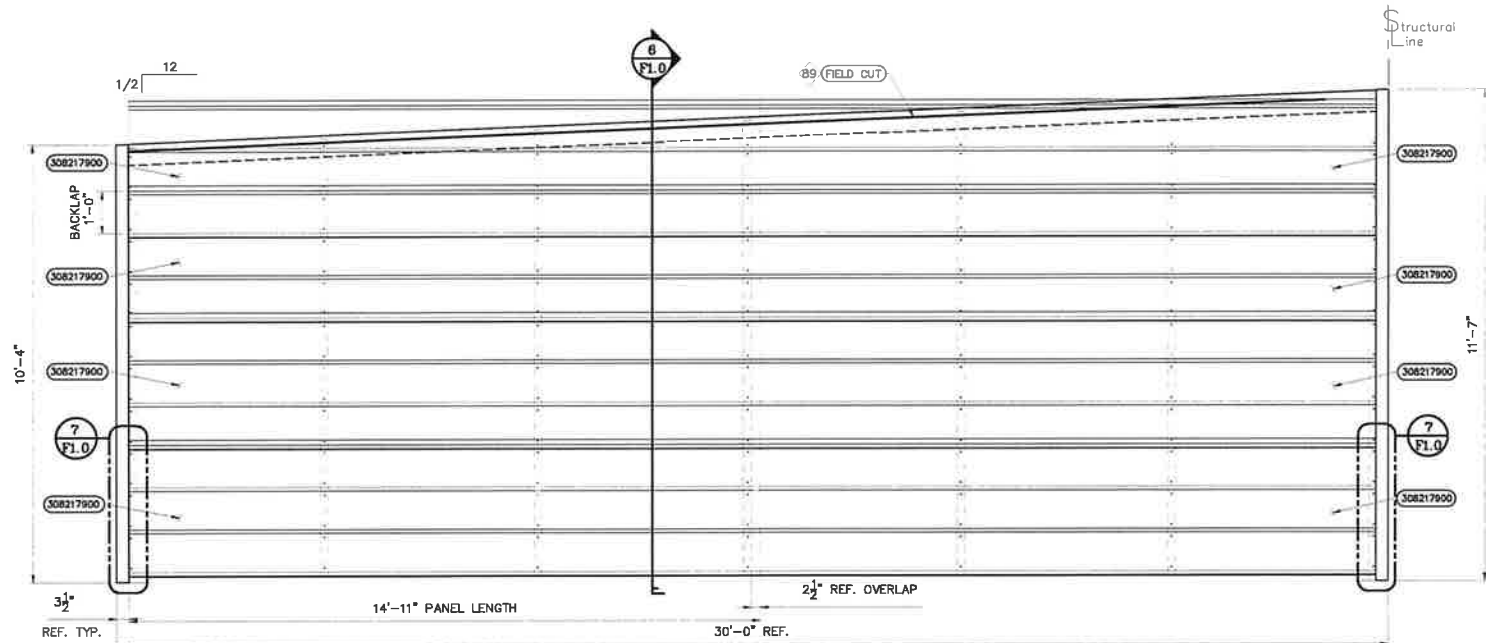
VP
BUCHANAN STORAGE
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BEULAH, ND
Sheet No.

2/8/23
TSL
1/2" = 1'-0"
P57285

E1.1

PART # INDEX	
PART #	DESCRIPTION
308217900	29ga. PT. panel, 14'-11" long

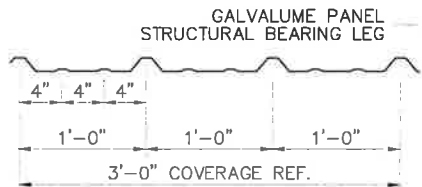
89 FIELD CUT PARTITION PANEL
FIELD CUT PARTITION PANEL TO MATCH THE ROOF PITCH. LAP PARTITION PANEL ONTO RAKE ANGLE (IF PRESENT) AND COLUMNS.



A TRANSVERSE PANEL LAYOUT 10'-4" EAVE, 30' WIDE LEAN-TO

LONGITUDINAL PARTITION PANELS 10-4		
LOC.	HEIGHT	QTY
5' /EV	128.5"	3.5
10' /EV	129"	3.5
15' /EV	131.5"	4.0
20' /EV	134"	4.0
25' /EV	136.5"	4.0
30' /EV	139"	4.0
35' /EV	141.5"	4.0
40' /EV	144"	4.0
45' /EV	146.5"	4.0
50' /EV	149"	4.5
55' /EV	151.5"	4.5
60' /EV	154"	4.5
65' /EV	156.5"	4.5
70' /EV	159"	4.5
75' /EV	161.5"	4.5
80' /EV	164"	4.5
85' /EV	166.5"	5.0
90' /EV	169"	5.0
95' /EV	171.5"	5.0
100' /EV	174"	5.0

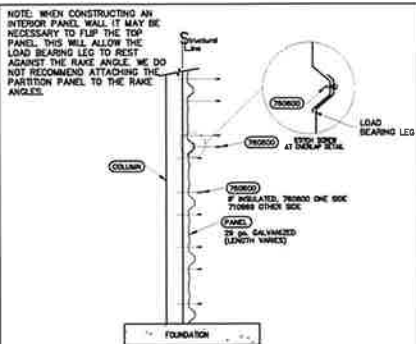
NOTE: SHOWN ABOVE IS THE REQUIRED QUANTITY OF PARTITION PANEL FOR INSTALLATION (EXCLUDING ON-THE-ROOF RAKE, 100' WIDE LEAN-TO, AND 10' SHORT PANEL). IF YOU HAVE A RAKE, ADD 10' TO THE TOTAL.



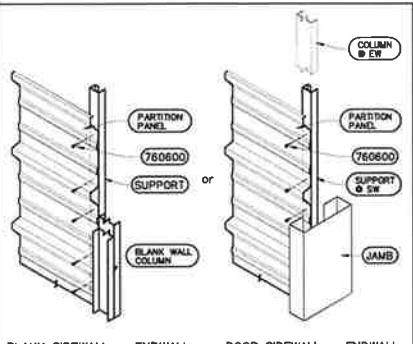
TRACHTE PARTITION PANEL PROFILE

FT/EV	PART #	QTY
5' /EV	388012200	1.0
10' /EV	388012200	1.0
15' /EV	388012200	1.0
20' /EV	388012200	1.0
25' /EV	388013400	1.0
30' /EV	388013400	1.0
35' /EV	388013400	1.0
40' /EV	388013400	1.0
45' /EV	388013400	1.0
50' /EV	388014600	1.0
55' /EV	388014600	1.0
60' /EV	388014600	1.0
65' /EV	388014600	1.0
70' /EV	388014600	1.0
75' /EV	388014600	1.0

NOTE: ABOVE IS THE REQUIRED PARTITION CHANNEL. PART #S AND QUANTITIES ARE GIVEN IN FEET / EV.



6 PARTITION PANEL FASTENING DETAIL
ATTENTION: Partition wall panel lengths were determined with the panel starting at least 30" in from the sidewall. All buildings 25' or more will have 2-parties that lap at a interior column line. The parties should overlap at least by 1'.

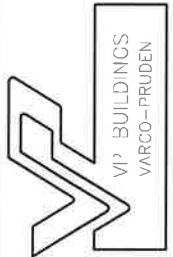


7 PARTITION PANEL EXTERIOR CONNECTION

REVISION	Date



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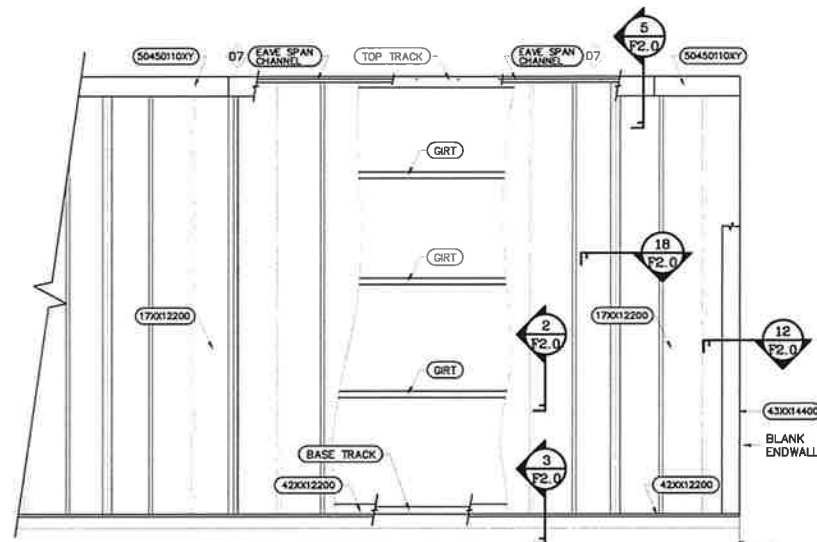
VP
BUCHANAN STORAGE
718 COUNTY ROAD 21
BEULAH, ND
INTERIOR PARTITION WALL DETAILS

Date: 2/6/23
Drawn by: TSL
Scale: 1/2" = 1'-0"
Plan No: P57285
Order No:
Sheet No:
F1.0

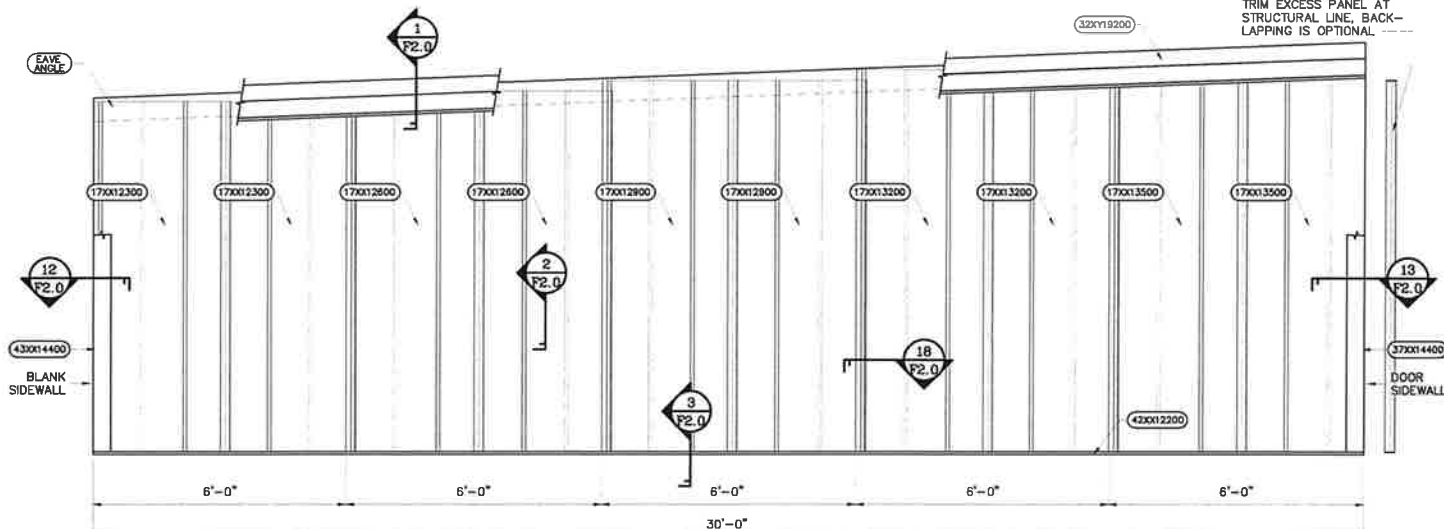
PART # INDEX	
PART #	DESCRIPTION
17XX12200	exterior wall panel, 10'-2", COLORED
17XX12300	exterior wall panel, 10'-3", COLORED
17XX12600	exterior wall panel, 10'-6", COLORED
17XX12900	exterior wall panel, 10'-9", COLORED
17XX13200	exterior wall panel, 11'-0", COLORED
17XX13500	exterior wall panel, 11'-3", COLORED
32XY19200	rake trim, ACCENT COLOR, 16'-0" long
37XX14400	26ga. CNR. trim panel/frame, COLORED, 12'-0"
42XX12200	26ga. sill trim, COLORED, 10'-2" long
43XX14400	26ga. CNR. trim panel/panel, COLORED, 12'-0"
50450110XY	26ga. eave trim (bsw), 10'-2", ACCENT COLOR
59200045XY	26ga. high side eavetrim (dsw), ACCENT COLOR

04 **LEAN-TO ENDWALL ELEVATIONS**
 ACTUAL ENDWALL LAYOUT MAY MIRROR THIS ELEVATION. SEE FLOOR PLAN FOR ACTUAL LAYOUT AND LOCATION OF HIGH SIDE. STARTER JAMBS ARE LEFT & RIGHT HANDED. IF CONSTRUCTING A MIRROR VIEW OF THIS ELEVATION USE THE OPPOSITE STARTER JAMB. STARTER JAMB PART NUMBERS ARE DIFFERENT BUT SIMILAR. SEE BILL OF MATERIAL FOR CORRECT PART NUMBER.

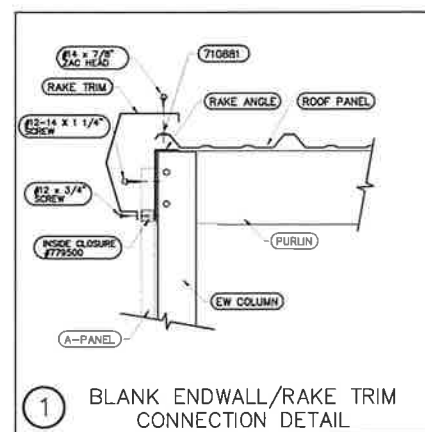
07 **EAVE SPAN CHANNEL**
 WHEN INSTALLING THE EAVE SPAN CHANNELS START WITH A 5' CHANNEL FOLLOWED WITH 10' AND END WITH A 5' EAVE SPAN CHANNEL. CHANNELS WILL OVERLAP AT EACH END. SPAN CHANNELS SHOULD START AND END AT THE MIDPOINT OF A BAY WHENEVER POSSIBLE. SEE ROOF FRAMING PLAN TO DETERMINE WHICH P/N'S TO START & END WITH. INSTALL BOLTS TO SPAN CHANNELS THROUGH TOP TRACKS OR HEADERS @ 2'-0" O.C. FIELD CUT EXCESS AT END OF RUN.
 128 **SILL TRIM LAP JOINT DIRECTIONS**
 WHEN JOINING SILL TRIM TO SILL TRIM OVERLAP PARTS 2" MAX. ADD SEALANT TO LAP JOINT OF SILL TRIMS.
 76 **EXTERIOR A-PANEL**
 FIELD CUT FIRST PANEL TO REMOVE FIRST RIB IN ORDER TO MISS THE BOLT HEADS WITH THE PANEL SCREWS. ENSURE THAT THE PANEL RIBS ARE OFFSET FROM THE 1'-0" GRID LINE.



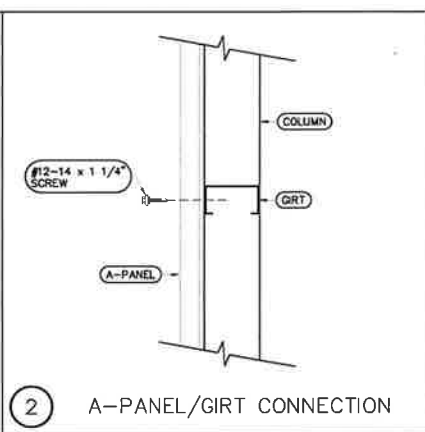
A BLANK SIDEWALL PANEL W/ BLANK ENDWALL ELEVATION



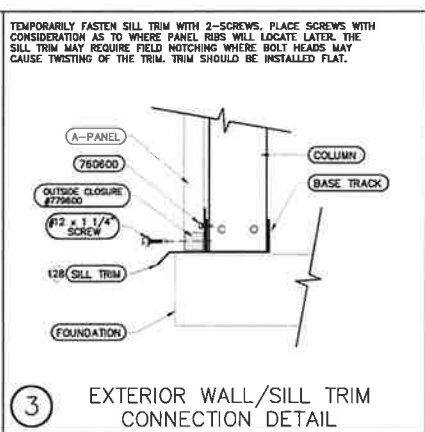
B BLANK ENDWALL PANEL DETAIL ELEVATION, 1/2" PITCH



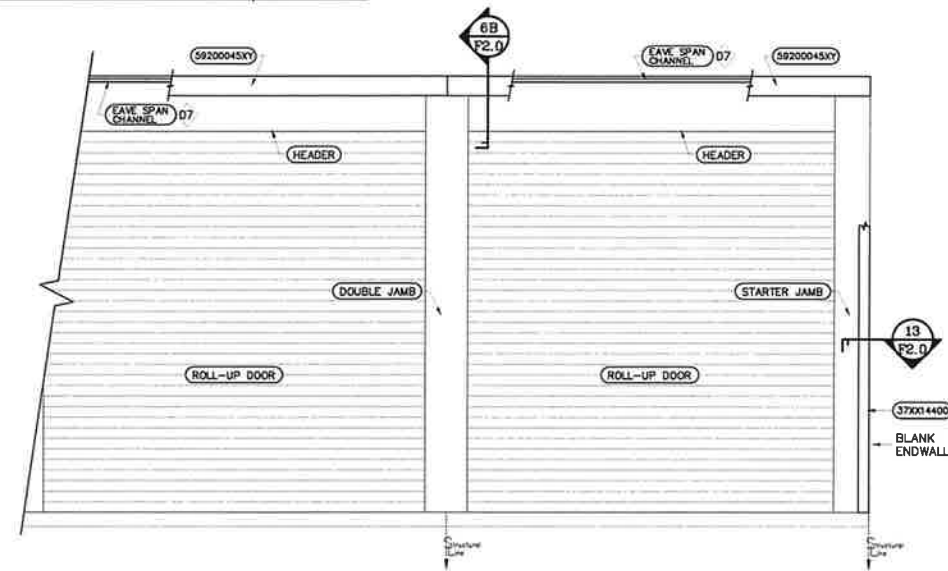
1 BLANK ENDWALL/RAZE TRIM CONNECTION DETAIL



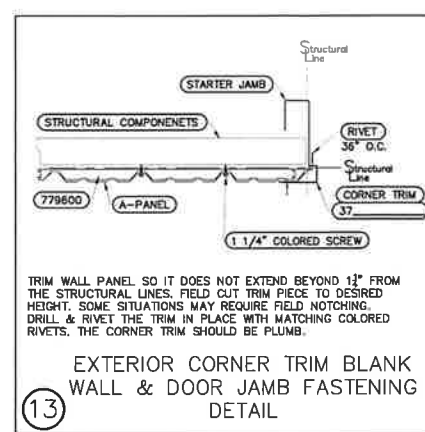
2 A-PANEL/GIRT CONNECTION



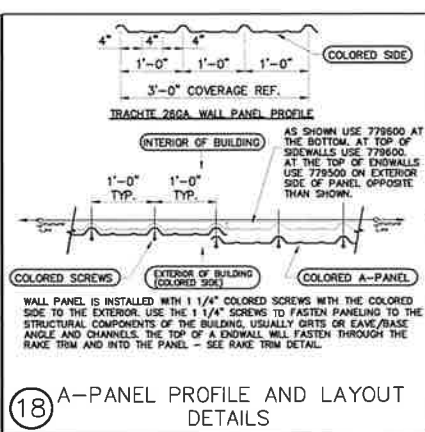
3 EXTERIOR WALL/SILL TRIM CONNECTION DETAIL



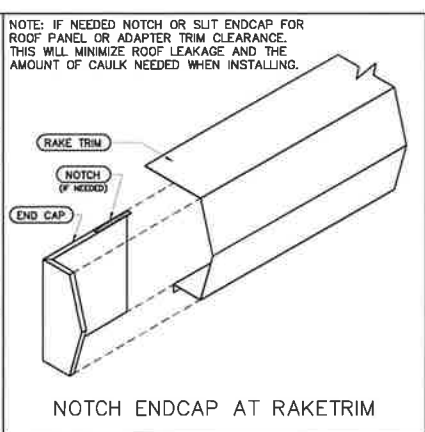
C DOOR FRAME SIDEWALL W/ BLANK ENDWALL ELEV (HIGH SIDE)



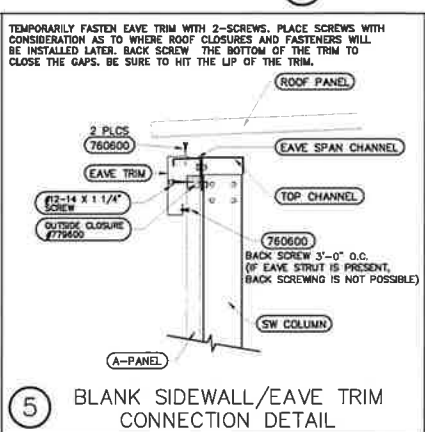
13 EXTERIOR CORNER TRIM BLANK WALL & DOOR JAMB FASTENING DETAIL



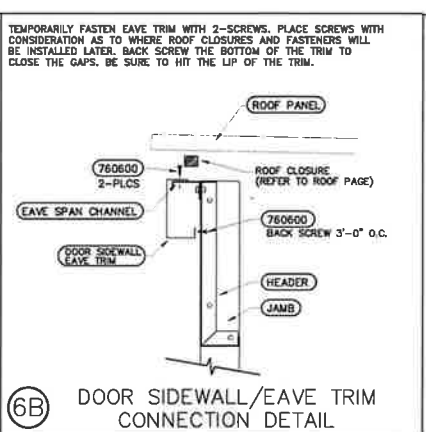
18 A-PANEL PROFILE AND LAYOUT DETAILS



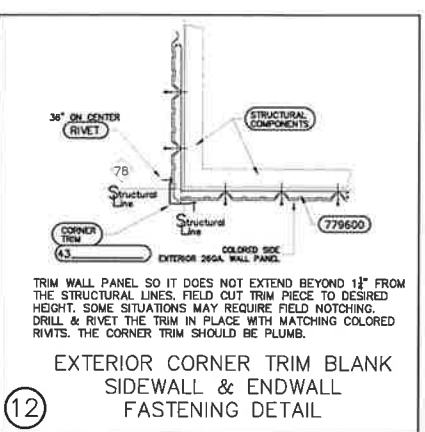
NOTCH ENDCAP AT RAKETRIM



5 BLANK SIDEWALL/EAVE TRIM CONNECTION DETAIL



6B DOOR SIDEWALL/EAVE TRIM CONNECTION DETAIL



12 EXTERIOR CORNER TRIM BLANK SIDEWALL & ENDWALL FASTENING DETAIL

REVISION



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VP BUCHANAN STORAGE
 718 COUNTY ROAD 21
 BEULAH, ND

Date 2/6/23
 Drawn by TSL
 Scale 1/2" = 1'-0"
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 Sheet No. -

F2.0

