TRACHTE BUILDING SYSTEMS, INC.
MINI-STORAGE BUILDING
1/4:12 POST & PURLIN

Sheet Index

REVISION	By Date

Abbreviations

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

Part Numbering

10–DIGIT PART NUMBER

5000	5000	00
COMPONENT	NUMBER	COLOR GAGE

2–DIGIT CODE
IDENTIFIES MATERIAL COLOR OR GAGE
STRUCTURAL PARTS USE GAGE 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			.		
COMPONENT	FINISH	LENGTH			

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 GAGE
STRUCTURAL PARTS USE GAGE CODE
NON–STRUCTURAL PARTS USE COLOR CODE

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

2–DIGIT GAGE CODES	2–DIGIT COLOR CODES	2–DIGIT COLOR CODES	2–DIGIT COLOR CODES	2–DIGIT COLOR CODES
12 = 12–Gage	60 = Cream Beige	64 = Bright White	43 = Royal Blue	47 = Cedar Red
14 = 14–Gage	61 = Slate Gray	40 = Sunset Orange	44 = Contl. Brown	80 = Galvanized
16 = 16–Gage	62 = Classic Beige	41 = Desert Tan	45 = Garnet	82 = Galvalume
18 = 18–Gage	63 = Iced White	42 = Polar Blue	46 = Evergreen	

6–DIGIT PART NUMBERS ARE ALSO USED. THESE FOLLOW NO SPECIFIC STRUCTURE. THEY ARE COMMONLY USED FOR FASTENERS, SWING DOORS, PEAK BOXES, AND SOME OTHER PARTS.
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 — Bolts used to anchor eave/base angles or channels, and base plates to a foundation or other support.

Angle, Eave/Base — Channel, 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.

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

- 2 — Revision Indicator
- 01 — Notation Reference
- Detail / Page — Detail Identification/Reference
- Detail — Detail Identification
- Detail / Page — Section Identification/Reference
- Part No. — Part Number Identification
- 12 / 4 — Rise/Run Identification
- NORTH — North Arrow
- Concrete
- Earth
- Insulation
- DS — Down Spout

Code Summary

CODE	2009 INTERNATIONAL BUILDING CODE
CONSTRUCTION TYPE	TYPE II B
USE GROUP	MODERATE HAZARD STORAGE, S–1
GROUND SNOW LOAD	30 psf
SNOW EXPOSURE CATEGORY	B
SNOW IMPORTANCE FACTOR	0.8
WIND VELOCITY	90 mph
WIND EXPOSURE CATEGORY	B
WIND IMPORTANCE FACTOR	0.87
SEISMIC USE GROUP	I
SPECTRAL RESPONSE ACCELERATION (S_S)	0.105
SPECTRAL RESPONSE ACCELERATION (S_1)	0.044
SPECTRAL RESPONSE ACCELERATION (S_{DS})	0.112
SPECTRAL RESPONSE ACCELERATION (S_{D1})	0.070
SITE CLASS	D
SEISMIC DESIGN CATEGORY	B

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–fit 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 plies into firm contact.
Specification for Structural Joints Using ASTM A325 or A490 Bolts, June 23, 2000

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 bends 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.

NOTICE:

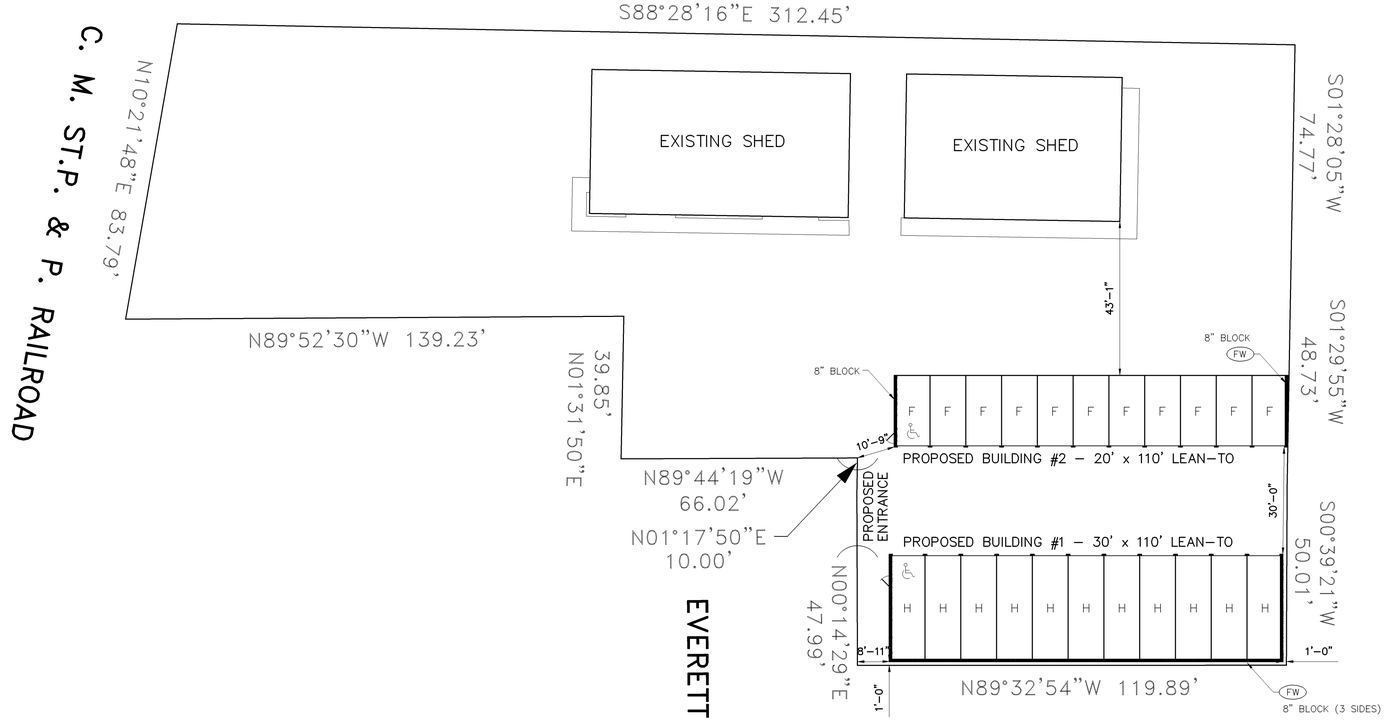
THE SPECIFIC PROJECT INFORMATION PROVIDED TO TRACHTE BUILDING SYSTEMS, INC. WAS USED IN THE DEVELOPMENT OF THE ENGINEERING DRAWINGS, DETAILS, MATERIALS LIST AND PRICING. ANY DISCREPANCIES BETWEEN THIS INFORMATION AND THE ACTUAL JOB CONDITIONS WILL AFFECT THE ACCURACY OF THIS WORK. TRACHTE IS NOT RESPONSIBLE FOR ANY ADDITIONAL MATERIALS OR ANY LAYOUT PROBLEMS CAUSED BY INACCURATE SITE INFORMATION.

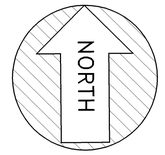
PLEASE RECHECK THIS INFORMATION CAREFULLY!

Job Description: PROPOSED MINI STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title: COVER SHEET

Date: APRIL 4, 2012
Drawn by: MAS
Scale:
Plan No.: P–42735
Order No.:
Sheet No.: Cover





UNIT MIX

LABEL	UNIT SIZE	# UNITS	%	SQ. FEET
F	10 x 20	11	50.0	2200
H	10 x 30	11	50.0	3300
	TOTAL	22	100	5500

DENOTES HANDICAP/WHEELCHAIR ACCESSIBLE UNITS

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PLEASE RECHECK THIS INFORMATION CAREFULLY!

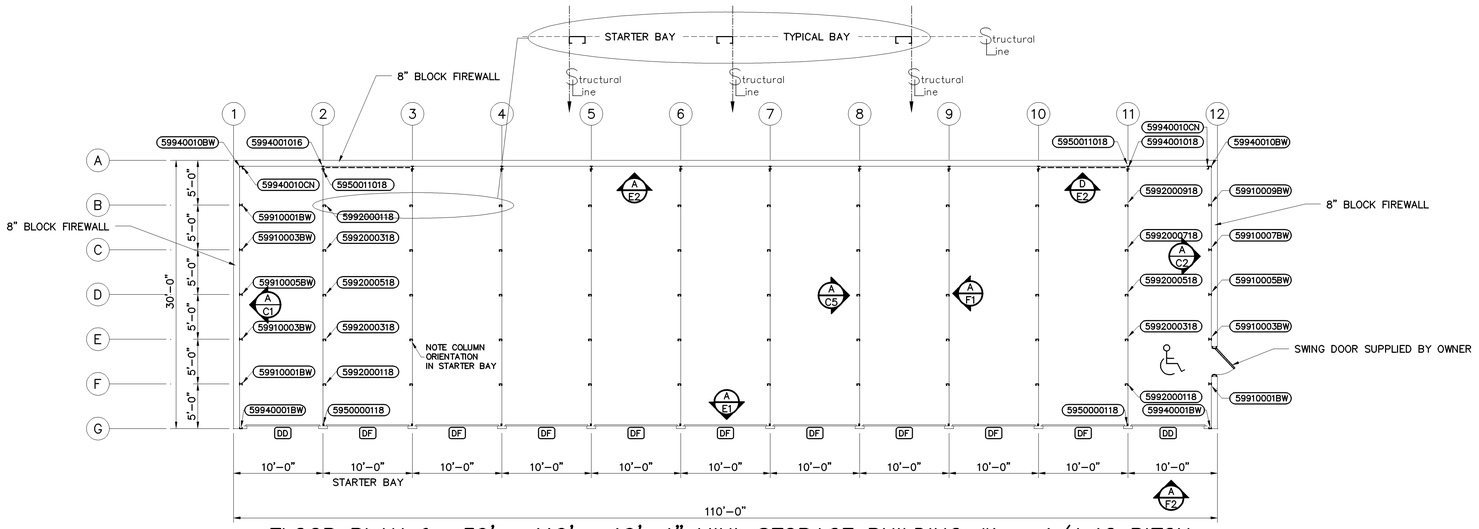
REVISION	by
APRIL 4, 2012	MAS

TBS

Job Description: PROPOSED MINI–STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title: SITE PLAN

Date: FEB. 23, 2012
Drawn by: SKS
Checked by:
Scale: 1" = 20'–0"
Plan No.: 42735
Sheet No.: SITE



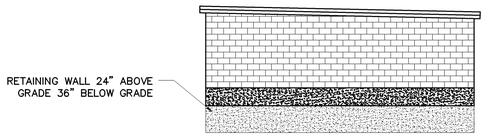
FLOOR PLAN for 30' x 110' x 10'-4" MINI-STORAGE BUILDING #1 - 1/4:12 PITCH

ROLL-UP DOORS MEET ASTM E330

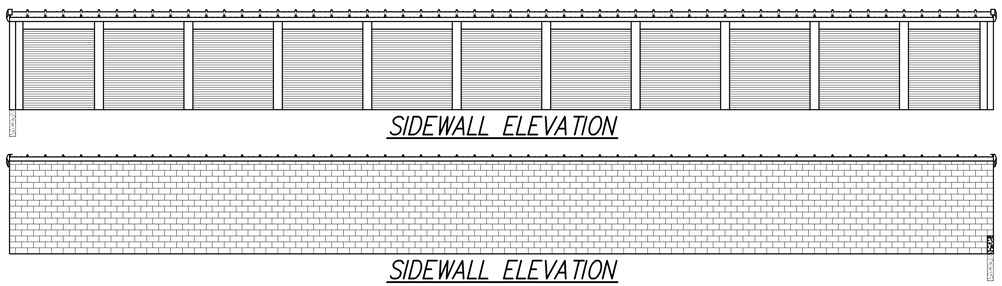
DOOR SCHEDULE

QTY	CODE	TYPE	SIZE	ROUGH OPENING (REF.)	MANUF.	DESCRIPTION	COLOR
2	DD	ROLL-UP	8'-0" x 9'-0"	8'-0" x 9'-0"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED
9	DF	ROLL-UP	9'-0" x 9'-0"	9'-0" x 9'-0"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED

DENOTES HANDICAPPED/WHEELCHAIR ACCESSIBLE UNITS

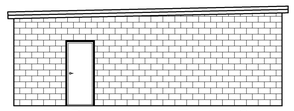


ENDWALL ELEVATION



SIDEWALL ELEVATION

SIDEWALL ELEVATION



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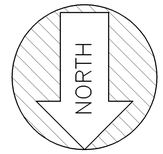


REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: FLOOR PLAN & ELEVATIONS - BLDG #1

Date: APRIL 4, 2012

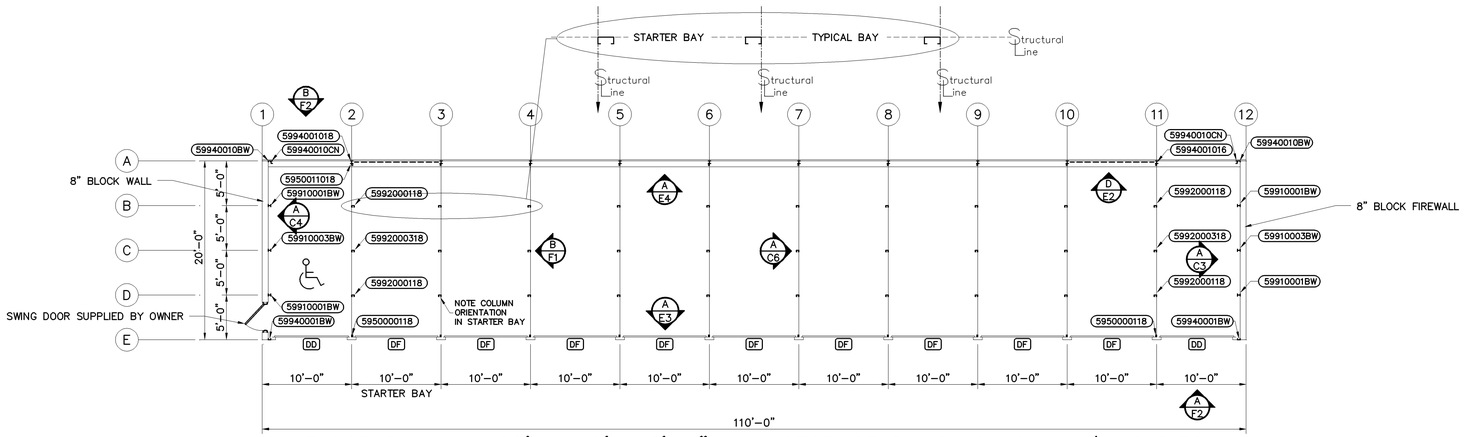
Drawn by: MAS

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

Plan No.: P-42735

Order No.:

Sheet No.: A1



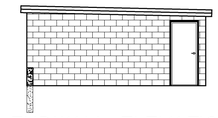
FLOOR PLAN for 20' x 110' x 8'-4" MINI-STORAGE BUILDING #2 - 1/4:12 PITCH

ROLL-UP DOORS MEET ASTM E330

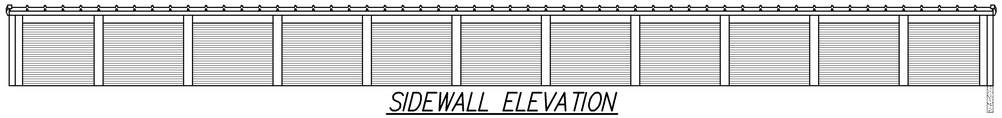
DOOR SCHEDULE

QTY	CODE	TYPE	SIZE	ROUGH OPENING (REF.)	MANUF.	DESCRIPTION	COLOR
2	DD	ROLL-UP	8'-0" x 7'-0"	8'-0" x 7'-0"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED
9	DF	ROLL-UP	9'-0" x 7'-0"	9'-0" x 7'-0"	TRAC-RITE/eq.	ROLL-UP DOOR	COLORED

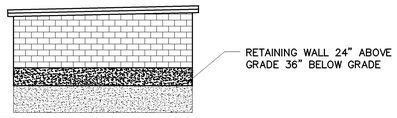
DENOTES HANDICAPPED/WHEELCHAIR ACCESSIBLE UNITS



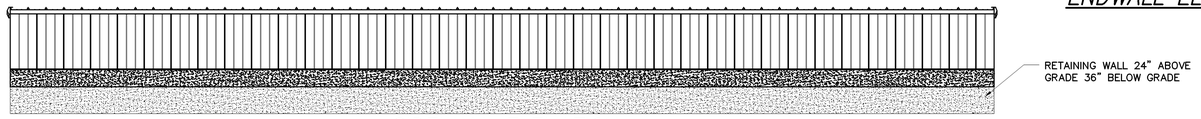
ENDWALL ELEVATION



SIDEWALL ELEVATION



ENDWALL ELEVATION



SIDEWALL ELEVATION

NORTH

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: FLOOR PLAN & ELEVATIONS - BLDG #2

Date: APRIL 4, 2012

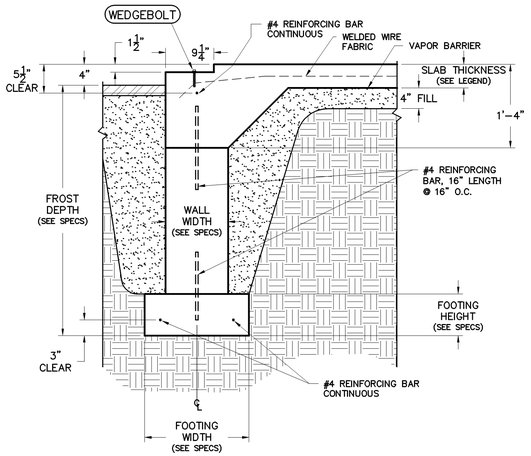
Drawn by: MAS

Scale: 1/2" = 1'-0"

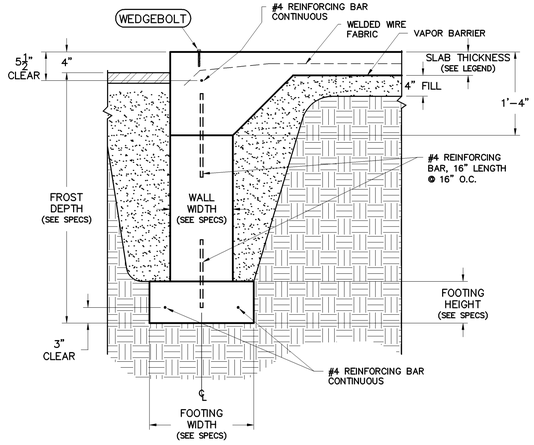
Plan No.: P-42735

Order No.:

Sheet No.: A2



1 FROST WALL DETAIL, NOTCHED



1A FROST WALL DETAIL, NO NOTCH

GENERAL FOUNDATION NOTES

FOUNDATION SPECIFICATIONS

1. FLOOR SLAB SHALL BE (SEE LEGEND) THICK WITH 6 X 6 – W1.4 X W1.4 WELDED WIRE FABRIC.

2. CONCRETE SHALL BE OF A MIXTURE AND DENSITY TO YIELD A 2,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS. NOTE: STRUCTURAL DESIGN IS BASED ON 2,500 PSI. HOWEVER, 3,000 PSI IS PREFERRED.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A–615, GRADE 60 FOR #4 AND LARGER BARS, AND GRADE 40 FOR #3 BARS AND ALL DOWELS AND TIES. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST. LAP ALL REINFORCING A MINIMUM OF 28" AT SPLICES AND AROUND CORNERS.

4. WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A–185, AND SHALL BE LAPPED 8 INCHES MINIMUM AT ALL SIDE AND END LAPS. NOTE: WELDED WIRE FABRIC IS USED IN THE STRUCTURAL DESIGN OF THE FLOOR SLAB. THEREFORE, FIBER REINFORCING CANNOT BE USED AS AN ALTERNATE.

5. VAPOR BARRIER SHALL BE A MINIMUM OF 6 MIL POLYETHYLENE WITH JOINTS LAPPED NOT LESS THAN 6 INCHES.

6. STRUCTURAL ANCHORS SHALL BE POWERS WEDGE BOLT + SCREW ANCHORS TO BE PROVIDED BY TRACHTE BUILDING SYSTEMS. INSTALLATION INSTRUCTIONS ARE SPECIFIED IN NOTE 01 ON THE ERECTION DETAIL PAGES.

7. NON–STRUCTURAL ANCHORS SHALL BE EITHER POWDER ACTUATED ANCHORS OR TAPCON SCREW ANCHORS. THESE ANCHORS ARE NOT SUPPLIED BY TRACHTE BUILDING SYSTEMS. INSTRUCTIONS FOR LOCATING NON–STRUCTURAL ANCHORS ARE SPECIFIED IN NOTE 02 ON THE ERECTION DETAIL PAGES. NON–STRUCTURAL ANCHORS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

8. FREE DRAINING GRANULAR FILL SHALL BE A NON FROST SUSCEPTIBLE FILL MATERIAL CONSISTING OF COURSE SAND, CRUSHED ROCK, OR AN APPROVED EQUIVALENT.

FOUNDATION DESIGN NOTES:

1. FOUNDATION PLAN SHOWN IS DESIGNED FOR A PRESUMED 1,500 PSF ALLOWABLE BEARING PRESSURE.

2. PLEASE NOTIFY ENGINEER OF ANY UNUSUAL CONDITIONS.

GENERAL FOUNDATION NOTES:

1. NOTCH SHALL BE LEVEL WITH NO PITCH.
2. FOUNDATION MUST BE SQUARE AND LEVEL.
3. PROVIDE CONTROL JOINTS AT 15'–0" ON CENTER MAXIMUM SPACING. ALL CONTROL JOINTS SHOULD BE LOCATED AT LEAST 1 FOOT OFF OF THE TRACHTE BUILDING SYSTEMS COLUMN GRID SHOWN ON THE FOUNDATION PLAN.

NOTE

TRACHTE BUILDING SYSTEMS, INC. IS ONLY RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION TO ACCEPT OUR BUILDINGS. THE DESIGN IS BASED ON THE PARAMETERS SPECIFIED IN THE NOTES, AND THE LOADS IMPOSED BY OUR BUILDING SYSTEM. IT IS THE OWNERS RESPONSIBILITY TO NOTIFY TRACHTE'S ENGINEERING DEPARTMENT OF ANY UNUSUAL SITE CONDITIONS OR OF ANY MATERIALS NOT SUPPLIED BY TRACHTE, THAT WILL IMPOSE LOADS ON THE FOUNDATION SYSTEM.

ACTUAL CONSTRUCTION OF THE FOUNDATION, INCLUDING LABOR AND MATERIALS FOR PLACING OF REINFORCING STEEL AND CONCRETE IS BY OTHERS AND THEREFORE, NOT THE RESPONSIBILITY OF TRACHTE BUILDING SYSTEMS.

FOUNDATION LEGEND

- PAVING OR FINISHED GRADE
- FREE DRAINING INORGANIC GRANULAR FILL
- EARTH

SLAB THICKNESS
4"

WEDGE BOLT (INTERIOR)
$\frac{3}{8}$" x $2\frac{1}{2}$"

WEDGE BOLT (EXTERIOR)
$\frac{3}{8}$" x $2\frac{1}{2}$"

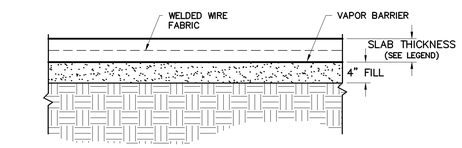
FROST WALL SPECS

FROST DEPTH
4'–0"

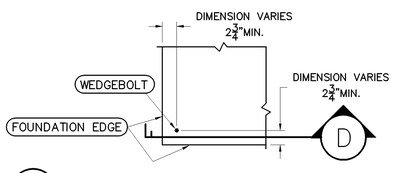
FOOTING HEIGHT
8"

WALL WIDTH
8"

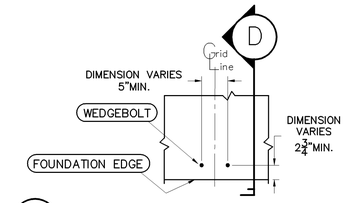
FOOTING WIDTH
1'–4"



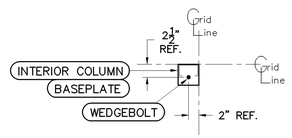
2 SLAB, INTERIOR SECTION



A WEDGE BOLT LOCATION, CORNER

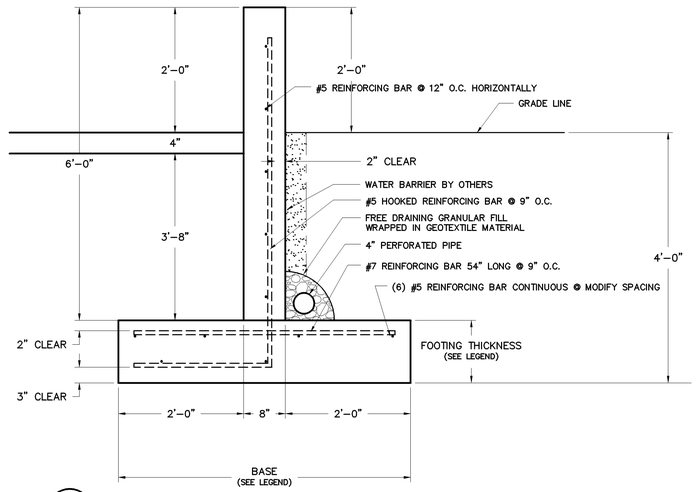


B WEDGE BOLT LOCATION, EXTERIOR

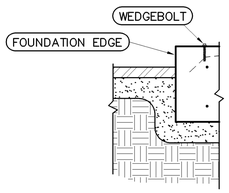


SEE FLOOR PLAN TO LOCATE & ORIENTATE BASEPLATE & INTERIOR COLUMNS

C WEDGE BOLT LOCATION, INTERIOR BASEPLATE



3 RETAINING WALL DETAIL



WEDGE BOLT ANCHOR TO BE ERECTOR INSTALLED IN LIEU OF CAST–IN–PLACE ANCHOR BOLTS. MINIMUM EMBEDMENT DEPTH = (WEDGE BOLT LENGTH) + ½".

D WEDGE BOLT, SECTION, FOUNDATION EDGE

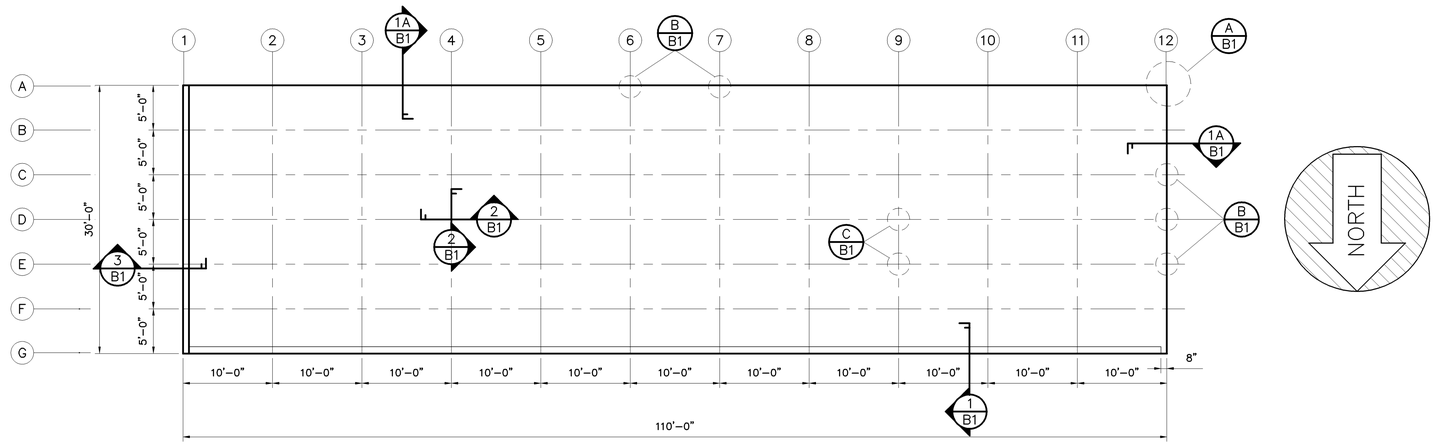
REVISION	By Date

TBS

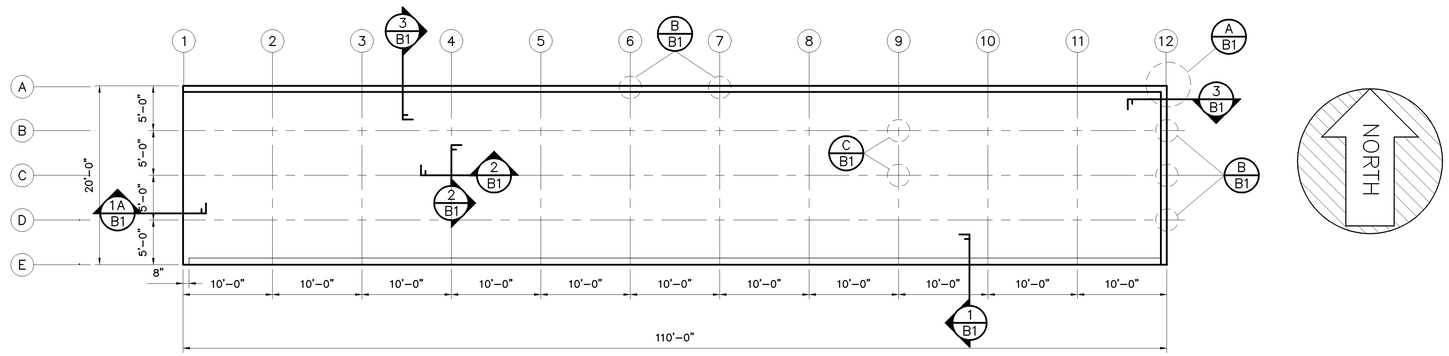
Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: FOUNDATION DETAILS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/8" = 1'–0"
Plan No.: P–42735
Order No.:
Sheet No.: B1



FOUNDATION PLAN for MINI STORAGE BUILDING #1



FOUNDATION PLAN for MINI STORAGE BUILDING #2

REVISION	By Date

Job Description
PROPOSED MINI STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title
FOUNDATION PLANS

Date
APRIL 4, 2012

Drawn by
MAS

Scale
1/8" = 1'-0"

Plan No.
P-42735

Order No.

Sheet No.
B2

PART # INDEX		
QTY.	PART #	DESCRIPTION
16	502840	screw, tapcon, 1/4" x 1.25"
5	5050004014	16ga. purlin span clip
1	5050020412	12ga. baseplate, STR. jamb
4	5050022316	16ga. STR. jamb clip
5	5911000214	14ga. EXT. wall base track 5' long
1	5911000414	14ga. EXT. wall base track 4'–4" long
1	59740005XX	18ga. STR. jamb, RH, 10'–4", COLORED
5	5985000218	18ga. EXT. girt, 4'–11 1/4" long
1	5985000518	18ga. EXT. girt, 4'–4" long
2	5987001018	18ga. PT. rake angle, 16' long
2	5991020116	16ga. EW column, 3.63" x 1.5", 5'–0 /EV
2	5991020316	16ga. EW column, 3.63" x 1.5", 10'–0 /EV
2	5991020516	16ga. EW column, 3.63" x 1.5", 15'–0 /EV
2	5991020716	16ga. EW column, 3.63" x 1.5", 20'–0'/EV
2	5991020916	16ga. EW column, 3.63" x 1.5", 25'–0 /EV
1	5994000316	16ga. BSW column, 3.63" x 1.5", 10–4/EV
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1	779001	26ga. FW. door trim

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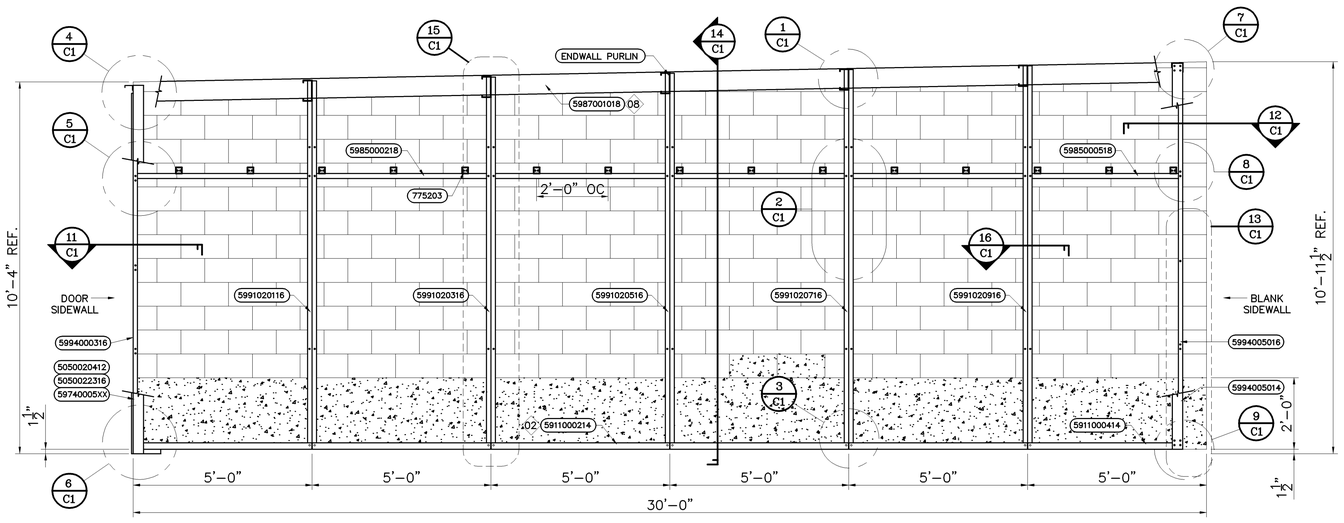
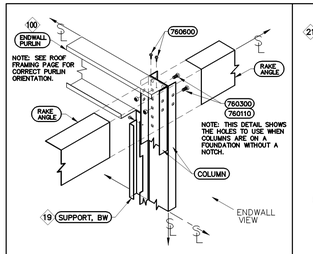
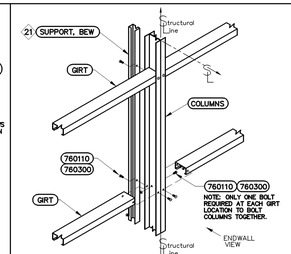


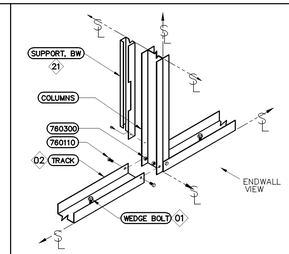
04 A NO NOTCHED BLANK ENDWALL ELEVATION, 1/4" PITCH LEAN–TO (INTERIOR VIEW)



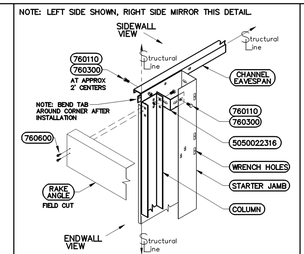
1 ENDWALL COLUMN, PURLIN, RAKE ANGLE CONNECTION



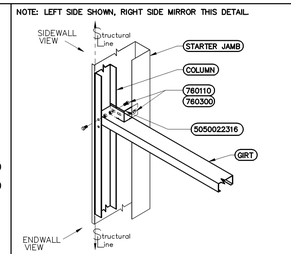
2 COLUMNS TO GIRT CONNECTION



3 COLUMNS TO TRACK CONNECTION



4 STARTER JAMB TOP CONNECTION AT CORNER



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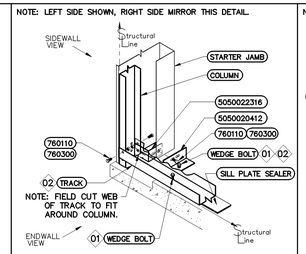
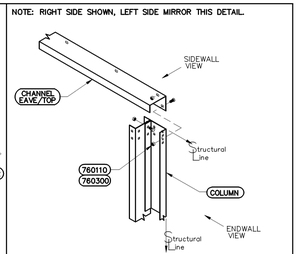
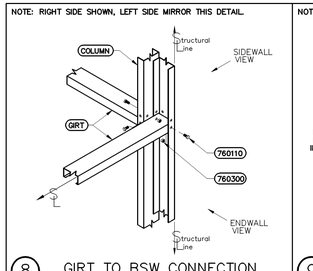


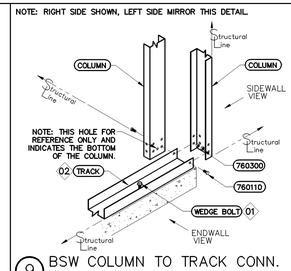
6 TRACK TO STARTER JAMB WITH NO–NOTCHED ENDWALL



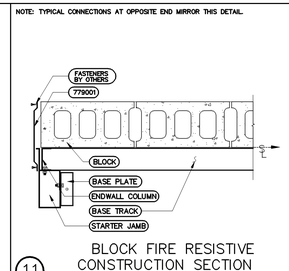
7 BEW TO BSW CORNER AT A NO NOTCHED FOUNDATION



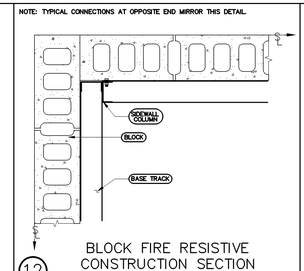
8 GIRT TO BSW CONNECTION



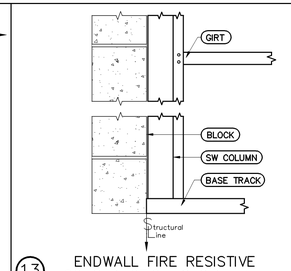
9 BSW COLUMN TO TRACK CONN. AT CORNER (W/O NOTCH)



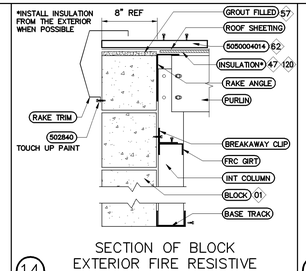
11 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DOOR SIDEWALL



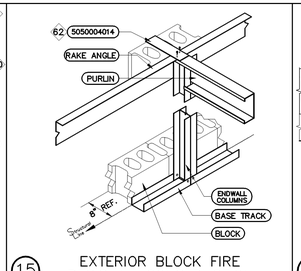
12 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL



13 ENDWALL FIRE RESISTIVE CONSTRUCTION @ SIDEWALL



14 SECTION OF BLOCK EXTERIOR FIRE RESISTIVE CONSTRUCTION



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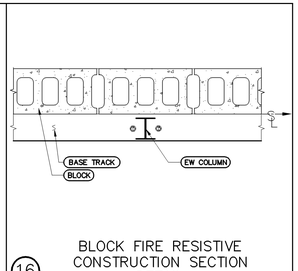

16 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DETAIL

REVISION	By Date

TRACHTE BUILDING SYSTEMS, Inc.

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TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: END WALL ELEVATIONS

Date: APRIL 4, 2012

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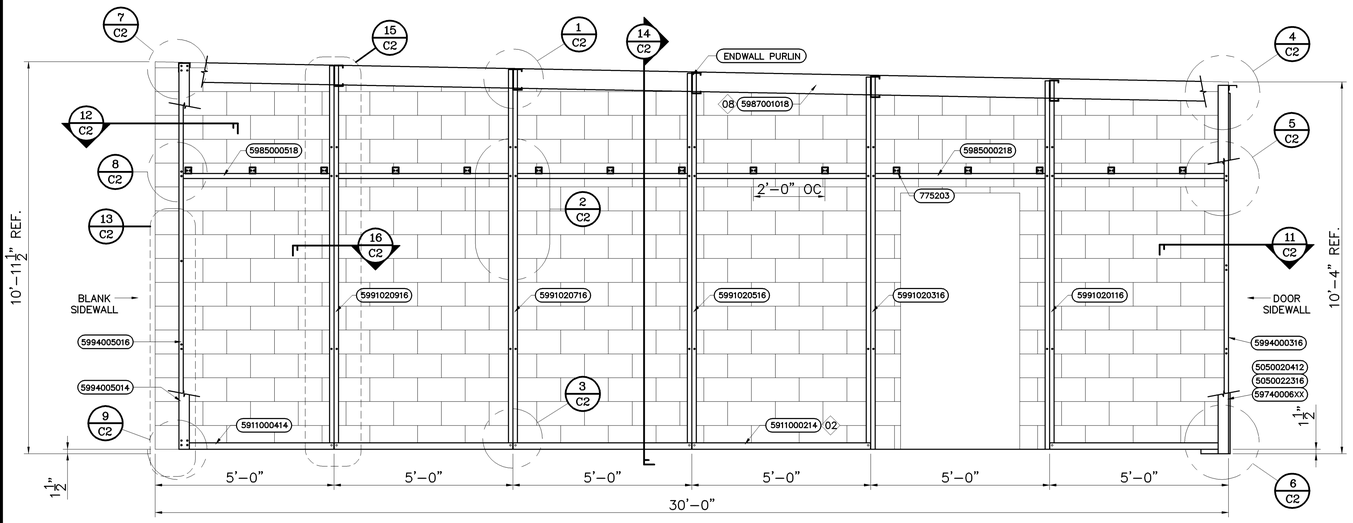

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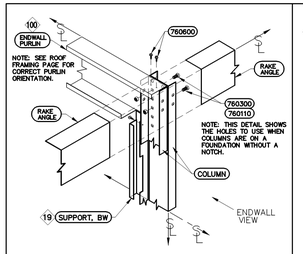
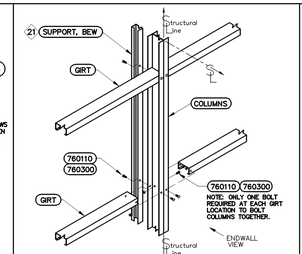
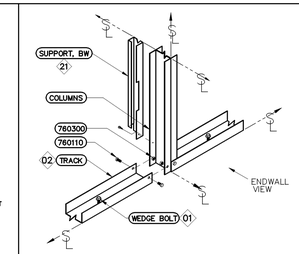


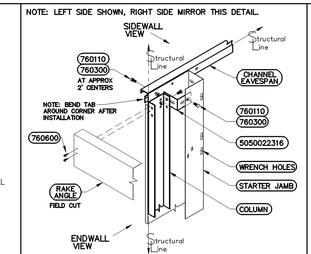
1 ENDWALL COLUMN, PURLIN, RAKE ANGLE CONNECTION



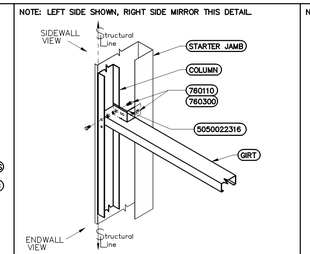
2 COLUMNS TO GIRT CONNECTION



3 COLUMNS TO TRACK CONNECTION



4 STARTER JAMB TOP CONNECTION AT CORNER



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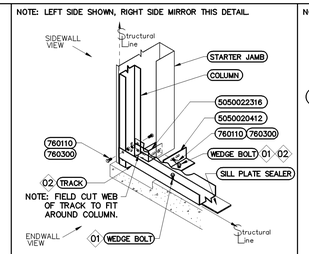

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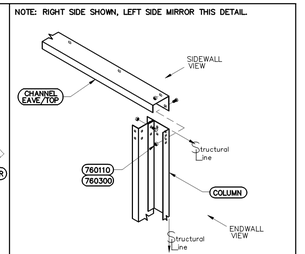
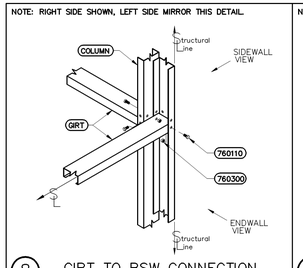
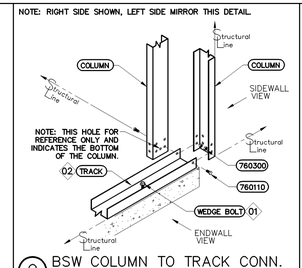


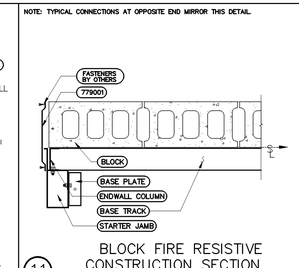
7 BEW TO BSW CORNER AT A NO NOTCHED FOUNDATION



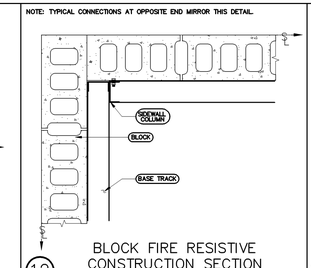
8 GIRT TO BSW CONNECTION



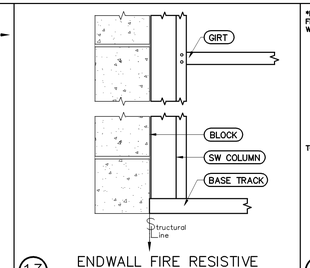
9 BSW COLUMN TO TRACK CONN. AT CORNER (W/O NOTCH)



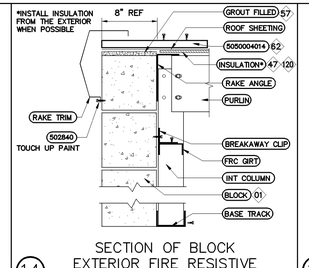
11 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DOOR SIDEWALL



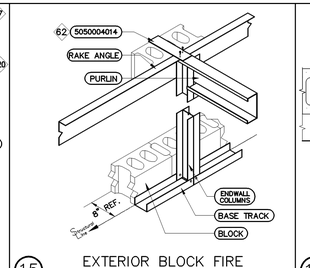
12 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL



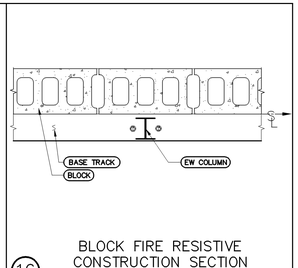
13 ENDWALL FIRE RESISTIVE CONSTRUCTION @ SIDEWALL



14 SECTION OF BLOCK EXTERIOR FIRE RESISTIVE CONSTRUCTION



15 EXTERIOR BLOCK FIRE RESISTIVE CONSTRUCTION



16 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DETAIL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: END WALL ELEVATIONS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/2" = 1'–0"
Plan No.: P–42735
Order No.:
Sheet No.: C2

PART # INDEX		
QTY.	PART #	DESCRIPTION
1	43XX14400	26ga. CNR. trim,panel/panel, COLORED
1	502840	screw, tapcon, 1/4" x 1.25"
2	5050004014	16ga. purlin span clip
1	5050020412	12ga. baseplate, STR. jamb
4	5050022316	16ga. STR. jamb clip
4	5911000214	14ga. EXT. wall base track 5' long
1	59740002XX	18ga. STR. jamb, LH, 8'-4", COLORED
5	5985000218	18ga. EXT. girt, 4'-11 1/4" long
1	5987001118	18ga. PT. rake angle, 21' long
2	5991000118	18ga. EW column, 3.63" x 1.5", 5'-0 /EV
2	5991000318	18ga. EW column, 3.63" x 1.5", 10'-0 /EV
2	5991000518	18ga. EW column, 3.63" x 1.5", 15'-0 /EV
1	5994000218	18ga. BSW column, 3.63" x 1.5", 9-4/EV
1	5994AAAA16	16ga. BSW column, 3.63" x 1.5", 8-9/EV,R.W.
1	5994AAAA18	18ga. BSW column, 3.63" x 1.5", 8-9/EV,R.W.
1	775203	breakaway clip for FW.,2"x2"
1	779001	26ga. FW. door trim

01 Bearing & Nonbearing Wall Rating U901 - 4 HR Firewall

Concrete Blocks - Various designs. Classification B-4 (4 hr). See Concrete Blocks category for lists of eligible manufacturers.

Mortar - Blocks laid in full bed of mortar, nom. 3/8" thick, of not less than 2-1/4" and not more than 3-1/2" parts of clean sharp sand to 1 part Portland Cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

Loose Masonry Fill - If all core space are filled with loose dry expanded slag, burned clay or shale (rotary kiln process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class D-2 (2 hr) or C-3 (3 hr) concrete blocks will provide a (4 hr) resistance rating.

01 INSTALLATION PROCEDURES FOR WEDGE-BOLT ANCHORS

A). POWERS BRAND BLUE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER WEDGE-BIT. POWERS BRAND ORANGE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER ANSI SPEC DRILL BIT. USING THE PROPER BIT FOR THE WEDGE BOLT, DRILL A HOLE INTO BASE MATERIAL TO A DEPTH OF APPROX. ½" OR ONE ANCHOR DIAMETER DEEPER THAN THE EMBEDMENT REQUIRED. BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL. INSERT THE ANCHOR THROUGH THE FIXTURE INTO ANCHOR HOLE.

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C). BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH AND THAT MAXIMUM CLAMPING TORQUE HAS NOT BEEN EXCEEDED. THE INSTALLATION IS NOW COMPLETE.

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PARTITION SUPPORT ARE ONLY REQUIRED AT AN INTERIOR PARTITION WALL. SEE FLOOR PLAN FOR LOCATION AND QUANITY. 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.

47 ROOF INSULATION

INSULATION MUST STOP ON BOTH SIDES OF FIREWALL. INSULATION CANNOT RUN CONTINUOUS ACROSS TOP OF WALL.

57 BLOCKWALL TERMINATION

BLOCKWALL MUST RUN THE ENTIRE WIDTH OF BUILDING AND TERMINATE AT THE EXTERIOR A-PANEL OR JAMB. BLOCKWALL MUST RUN THE ENTIRE HEIGHT FROM THE FLOOR TO THE ROOF SHEETING. GROUT MUST BE USED TO FILL ANY VOIDS.

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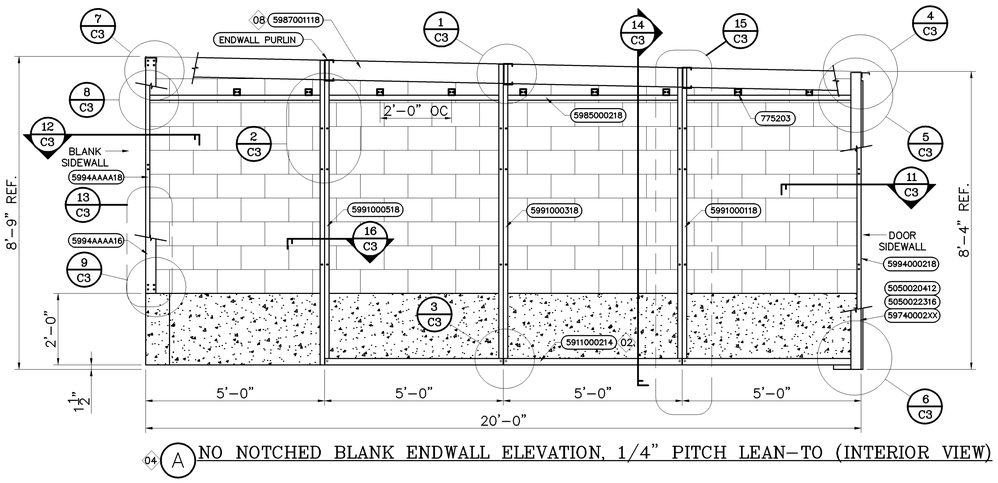
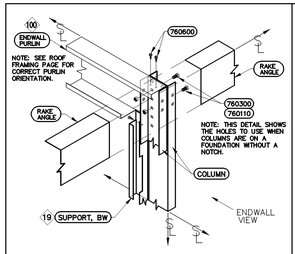
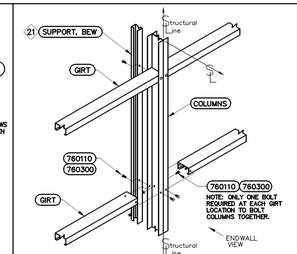


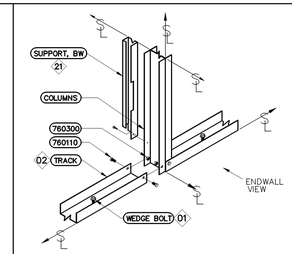
04 (A) NO NOTCHED BLANK ENDWALL ELEVATION, 1/4" PITCH LEAN-TO (INTERIOR VIEW)



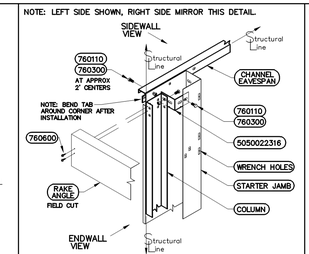
1 ENDWALL COLUMN, PURLIN, RAKE ANGLE CONNECTION



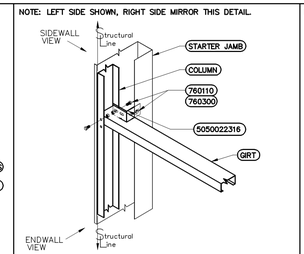
2 COLUMNS TO GIRT CONNECTION



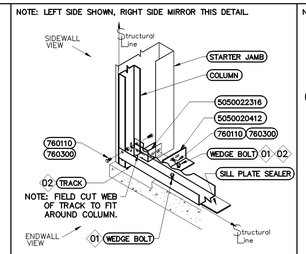
3 COLUMNS TO TRACK CONNECTION



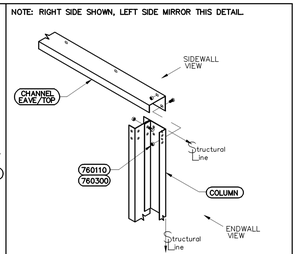
4 STARTER JAMB TOP CONNECTION AT CORNER



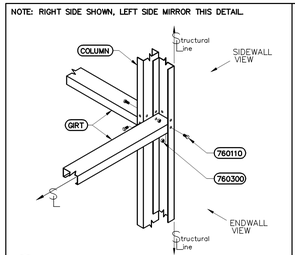
5 GIRT TO STARTER JAMB CONNECTION



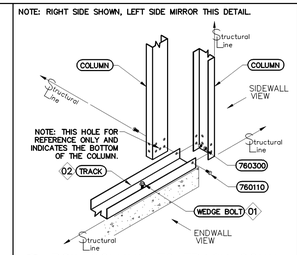
6 TRACK TO STARTER JAMB WITH NO-NOTCHED ENDWALL



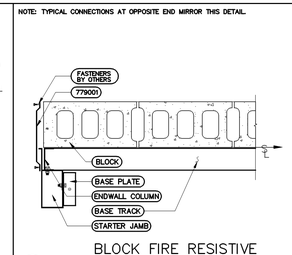
7 BEW TO BSW CORNER AT A NO NOTCHED FOUNDATION



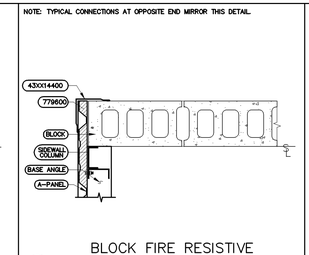
8 GIRT TO BSW CONNECTION



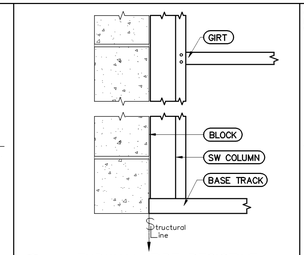
9 BSW COLUMN TO TRACK CONN. AT CORNER (W/O NOTCH)



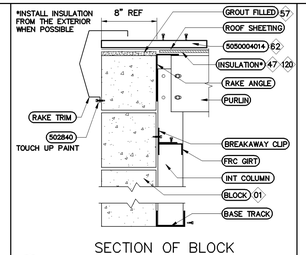
11 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DOOR SIDEWALL



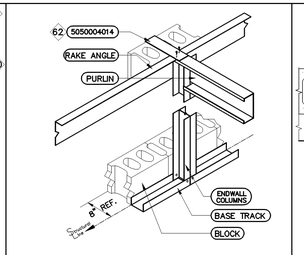
12 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL



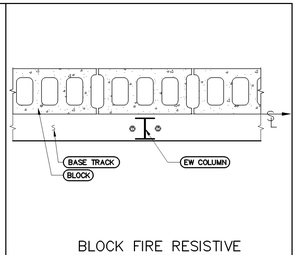
13 ENDWALL FIRE RESISTIVE CONSTRUCTION @ SIDEWALL



14 SECTION OF BLOCK EXTERIOR FIRE RESISTIVE CONSTRUCTION



15 EXTERIOR BLOCK FIRE RESISTIVE CONSTRUCTION



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REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet title: END WALL ELEVATIONS

Date: APRIL 4, 2012

Drawn by: MAS

Scale: 1/2" = 1'-0"

Plan No.: P-42735

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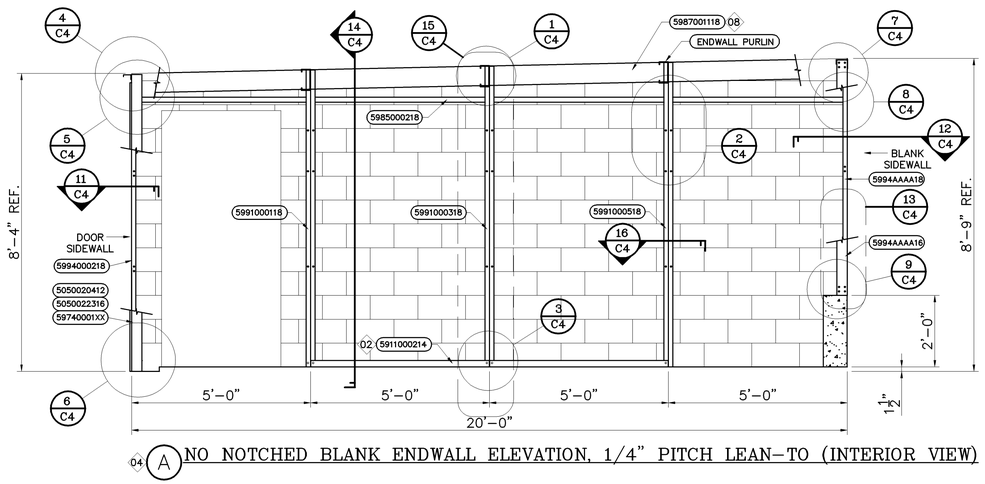
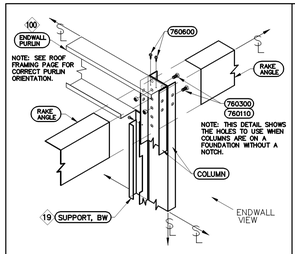
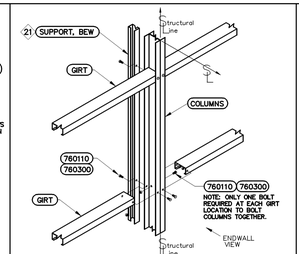


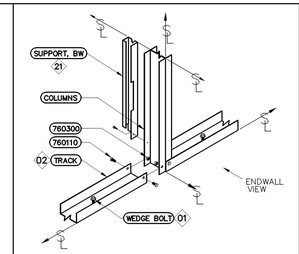
04 A NO NOTCHED BLANK ENDWALL ELEVATION, 1/4" PITCH LEAN-TO (INTERIOR VIEW)



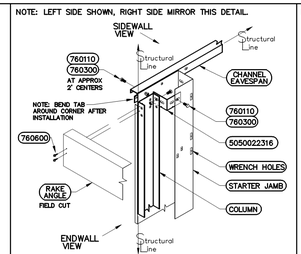
1 ENDWALL COLUMN, PURLIN, RAKE ANGLE CONNECTION



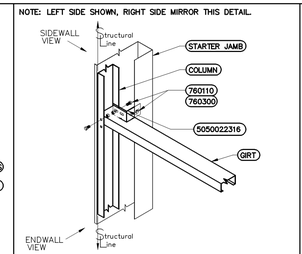
2 COLUMNS TO GIRT CONNECTION



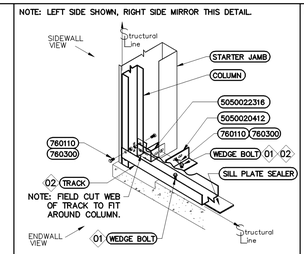
3 COLUMNS TO TRACK CONNECTION



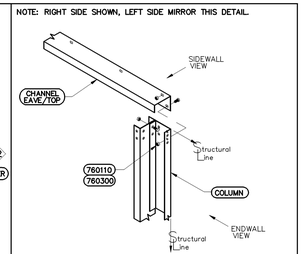
4 STARTER JAMB TOP CONNECTION AT CORNER



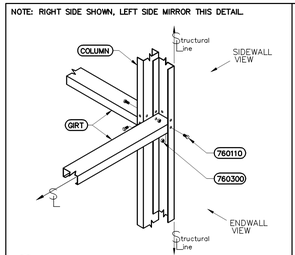
5 GIRT TO STARTER JAMB CONNECTION



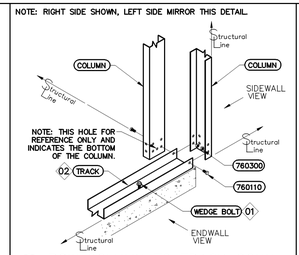
6 TRACK TO STARTER JAMB WITH NO-NOTCHED ENDWALL



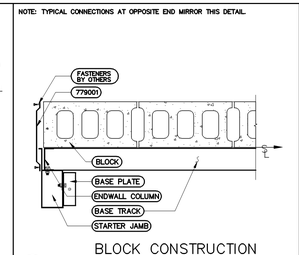
7 BEW TO BSW CORNER AT A NO NOTCHED FOUNDATION



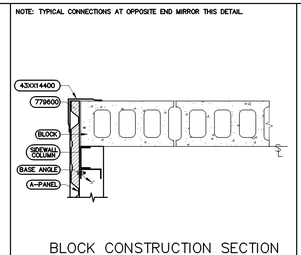
8 GIRT TO BSW CONNECTION



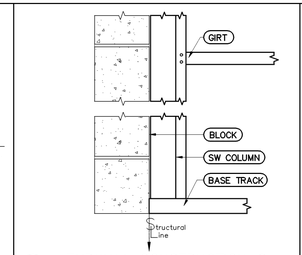
9 BSW COLUMN TO TRACK CONN. AT CORNER (W/O NOTCH)



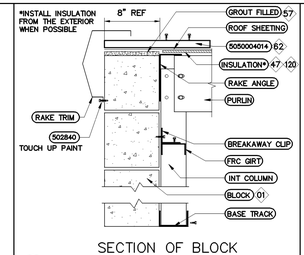
11 BLOCK CONSTRUCTION SECTION DOOR SIDEWALL



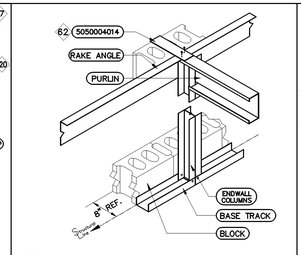
12 BLOCK CONSTRUCTION SECTION BLANK SIDEWALL



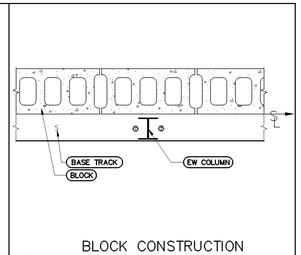
13 ENDWALL CONSTRUCTION @ SIDEWALL



14 SECTION OF BLOCK EXTERIOR CONSTRUCTION



15 EXTERIOR BLOCK CONSTRUCTION



16 BLOCK CONSTRUCTION SECTION DETAIL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: END WALL ELEVATIONS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/2" = 1'-0"
Plan No.: P-42735
Order No.:
Sheet No.: C4

PART # INDEX		
QTY.	PART #	DESCRIPTION
5	5050020012	12ga. INT. base plate
2	5050020112	12ga. baseplate, DBL. jamb
3	5050022218	18ga. DBL. jamb clip
1	5950000518	18ga. PT. support jamb, 10'–4"
1	5950021018	18ga. support, BSW, 10'–11.50" EV.
1	59700003XX	18ga. DBL. jamb, 10'–4", COLORED
5	5987000018	18ga. PT. rake angle, 5' long
1	5987002318	18ga. PT. rake angle, 4'–4" long
1	5992020118	18ga. interior column, 3.63" x 2", 5'/EV
1	5992020318	18ga. interior column, 3.63" x 2", 10'/EV
1	5992020518	18ga. interior column, 3.63" x 2", 15'/EV
1	5992020718	18ga. interior column, 3.63" x 2", 20'/EV
1	5992020918	18ga. interior column, 3.63" x 2", 25'/EV
2	5994005018	18ga. BSW column, 3.63" x 1.5", 10–11.5/EV

◇01 **INSTALLATION PROCEDURES FOR WEDGE-BOLT ANCHORS**

A). POWERS BRAND BLUE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER WEDGE-BIT. POWERS BRAND ORANGE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER ANSI SPEC DRILL BIT. USING THE PROPER BIT FOR THE WEDGE BOLT, DRILL A HOLE INTO BASE MATERIAL TO A DEPTH OF APPROX. ½" OR ONE ANCHOR DIAMETER DEEPER THAN THE EMBEDMENT REQUIRED. BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL. INSERT THE ANCHOR THROUGH THE FIXTURE INTO ANCHOR HOLE.

B). BEGIN TIGHTENING THE ANCHOR BY APPLYING FORWARD PRESSURE WHEN ENGAGING THE FIRST FEW THREADS. CONTINUE TIGHTENING THE ANCHOR UNTIL THE HEAD IS FIRMLY SEATED AGAINST THE FIXTURE. IN EXTREMELY DENSE MATERIALS, USE OF AN IMPACT WRENCH IS RECOMMENDED.

C). BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH AND THAT MAXIMUM CLAMPING TORQUE HAS NOT BEEN EXCEEDED. THE INSTALLATION IS NOW COMPLETE.

◇02 **POWDER ACTUATED ANCHORS**

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS FOR PARTS THAT ARE LESS THAN 8' LONG, AT 48" CENTERS FOR PARTS LONGER THAN 8'. 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 & WEDGE BOLT ANCHORING AS SPECIFIED.

◇100 **7" & 12" PURLINS:**

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

◇120 **INSULATION FLAME AND SMOKE RATING**

THE COMPOSITE OF FIBERGLASS AND FACING SHALL HAVE SURFACE BURNING CHARACTERISTICS NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE WHEN TESTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES 723 TEST METHOD OR ASTM E-84 TEST METHOD. INSULATION BY OTHERS TO MEET OR EXCEED THESE REQUIREMENTS.

◇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.

◇39 **EXTERIOR COLUMN & NOTCH LAYOUT**

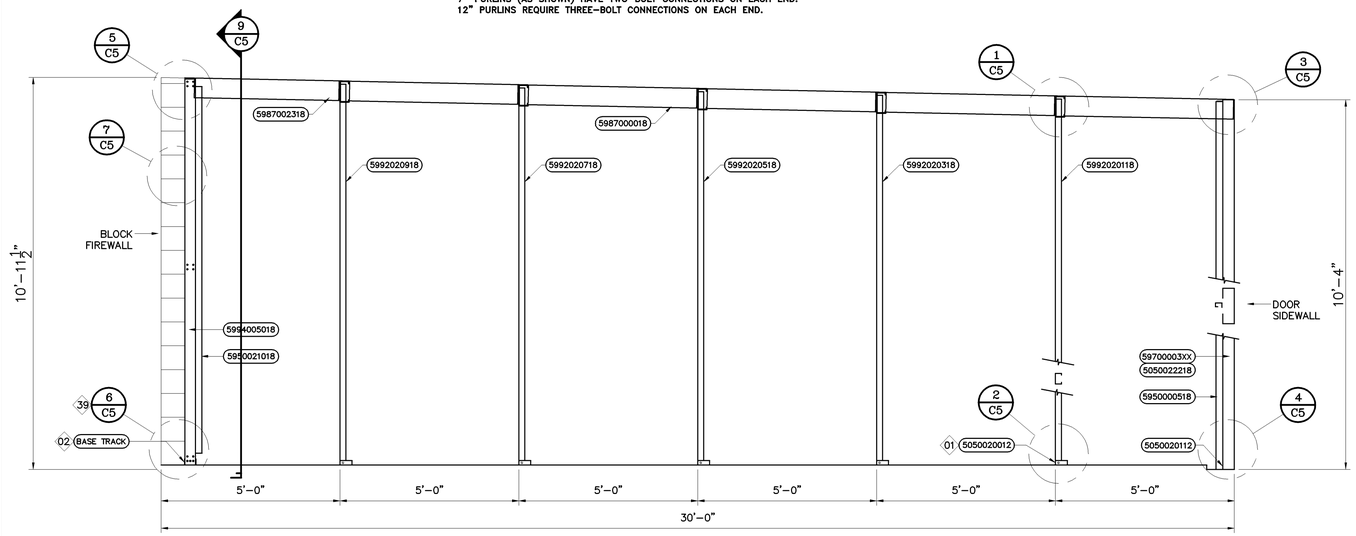
FOUNDATION SHOWN WITH A NOTCH. REFER TO FOUNDATION PLAN FOR ACTUAL FOUNDATION LAYOUT. INSTALL SILL PLATE SEALER (#102702) UNDER THE BASE TRACK AT ANY NO NOTCH BLANK WALL.

◇47 **ROOF INSULATION**

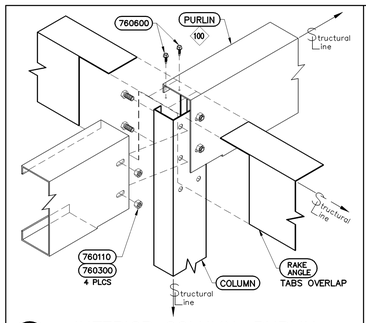
INSULATION MUST STOP ON BOTH SIDES OF FIREWALL. INSULATION CANNOT RUN CONTINUOUS ACROSS TOP OF WALL.

◇52 **BASE PLATE REFERENCE HOLES**

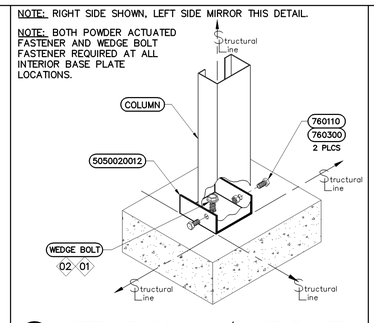
HOLES AT THE CENTER OF THE BASE PLATES ARE USED AS A AID TO LOCATE BASEPLATES ON THE STRUCTURAL LINES (CHALK LINES).



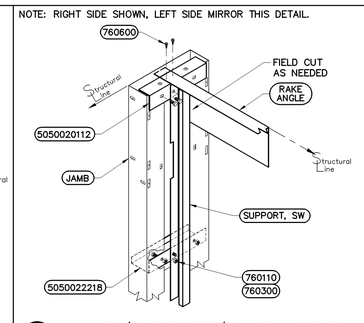
(A) INTERIOR WALL FRAMING ELEVATION, 1/4" PITCH LEAN-TO
PARTITION PANEL NOT SHOWN, SEE PARTITION DETAILS



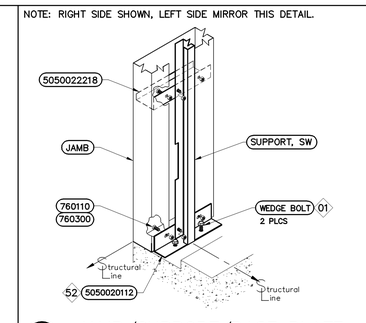
(1) INTERIOR COLUMN, PURLIN, RAKE ANGLE CONNECTION



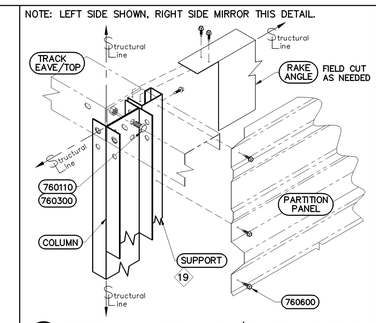
(2) INTERIOR COLUMN/BASE PLATE CONNECTION



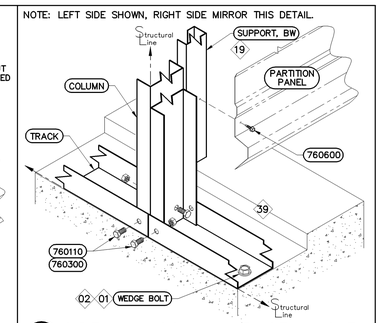
(3) JAMB/SUPPORT/RAKE ANGLE CONNECTION



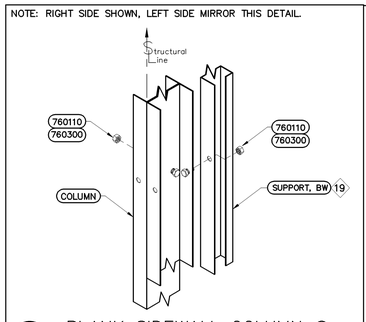
(4) JAMB/SUPPORT/BASE PLATE CONNECTION



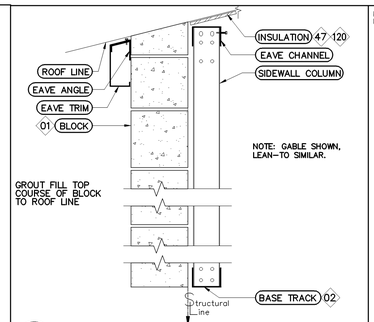
(5) SIDEWALL COLUMN/RAKE ANGLE CONNECTION @ BLANK WALL



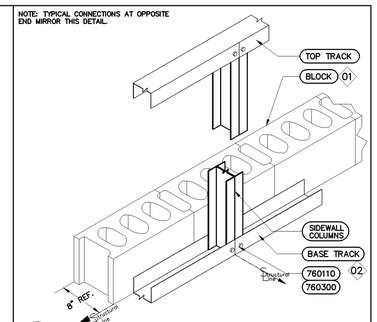
(6) SIDEWALL COLUMN/BASE ANGLE CONNECTION @ BLANK WALL



(7) BLANK SIDEWALL COLUMN @ SUPPORT CONNECTION



(8) SECTION OF EXTERIOR FIRE RESISTIVE CONSTRUCTION



(9) TYPICAL COLUMN CONNECTION

REVISION	By Date

TRACHTE BUILDING SYSTEMS, Inc.

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: INTERIOR WALL FRAMING DETAILS

Date: APRIL 4, 2012

Drawn by: MAS

Scale: 1/2" = 1'-0"

Plan No.: P-42735

Order No.:

Sheet No.: C5

PART # INDEX		
QTY.	PART #	DESCRIPTION
3	5050020012	12ga. INT. base plate
2	5050020112	12ga. baseplate, DBL. jamb
2	5050022218	18ga. DBL. jamb clip
1	5950000118	18ga. PT. support jamb
1	5950010618	18ga. support, BSW, 8'-9.00" EV.
1	59700001XX	18ga. DBL. jamb, 8'-4", COLORED
4	5987000018	18ga. PT. rake angle, 5' long
1	5992000118	18ga. interior column, 3.63" x 2", 5'/EV
1	5992000318	18ga. interior column, 3.63" x 2", 10'/EV
1	5992000518	18ga. interior column, 3.63" x 2", 15'/EV
2	5994AAAA18	18ga. BSW column, 3.63" x 1.5", 8-9/EV,R.W.

01 INSTALLATION PROCEDURES FOR WEDGE-BOLT ANCHORS

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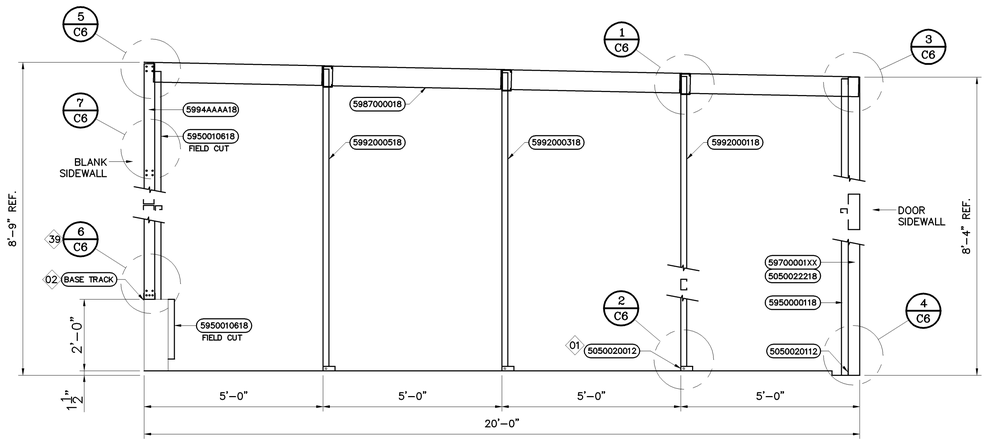
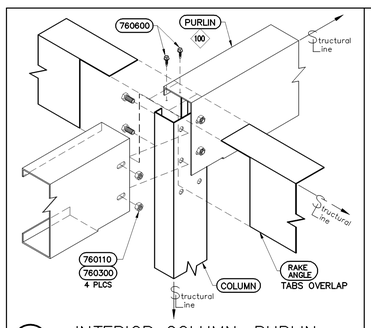
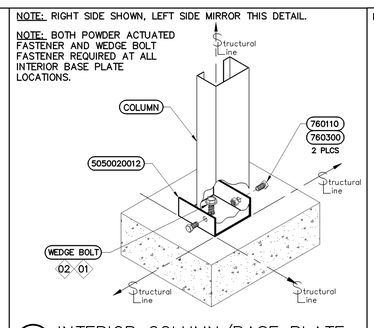


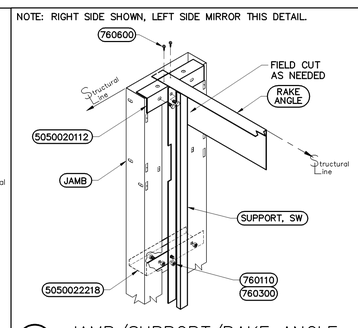
A INTERIOR WALL FRAMING ELEVATION, 1/4" PITCH LEAN-TO PARTITION PANEL NOT SHOWN, SEE PARTITION DETAILS



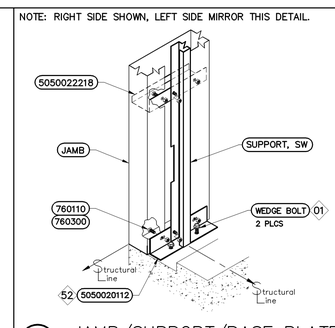
1 INTERIOR COLUMN, PURLIN, RAKE ANGLE CONNECTION



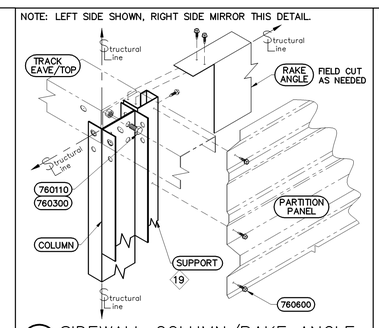
2 INTERIOR COLUMN/BASE PLATE CONNECTION



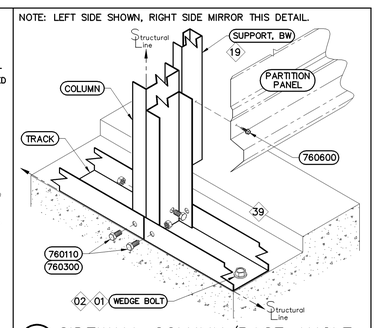
3 JAMB/SUPPORT/RAKE ANGLE CONNECTION



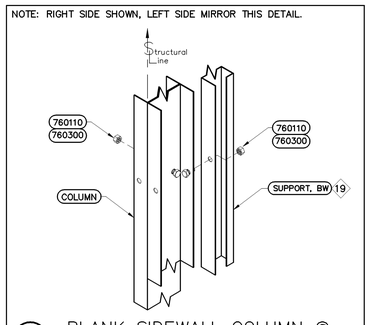
4 JAMB/SUPPORT/BASE PLATE CONNECTION



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

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: INTERIOR WALL FRAMING DETAILS

Date: APRIL 4, 2012

Drawn by: MAS

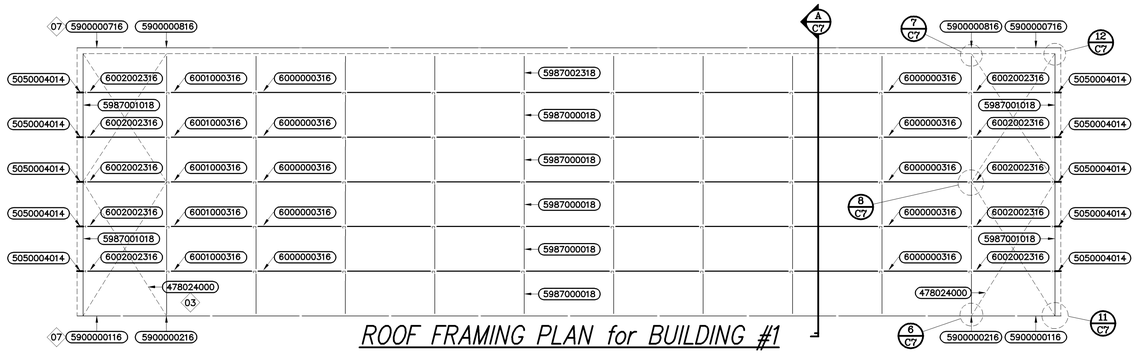
Scale: 1/2" = 1'-0"

Plan No.: P-42735

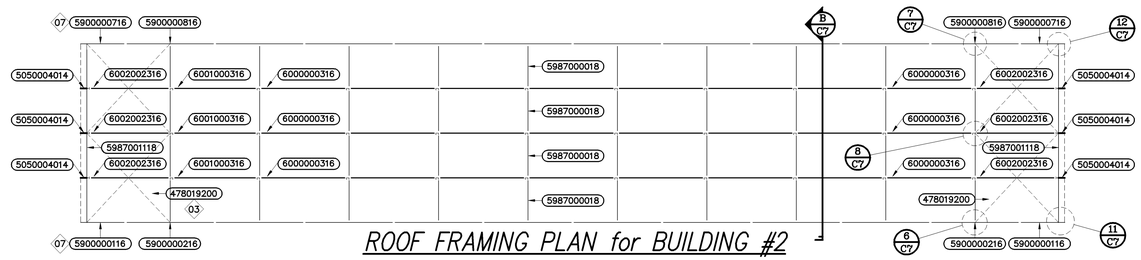
Order No.:

Sheet No.: C6

PART # INDEX	
PART #	DESCRIPTION
478019200	16ga. strap bracing, 16' long
478024000	16ga. strap bracing, 20'–0" long
5050004014	16ga. purlin span clip
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
5987002318	18ga. PT. rake angle, 4'–4" long
6000000316	16ga. typical purlin, 7" x 3" x 10'–0"
6001000316	16ga. starter purlin, 7" x 3" x 9'–8"
6002002316	16ga. endwall purlin, 7" x 3" x 9'–5.5"



ROOF FRAMING PLAN for BUILDING #1

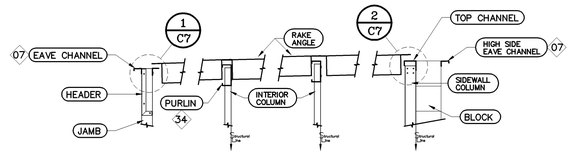


ROOF FRAMING PLAN for BUILDING #2

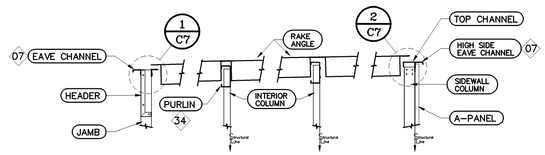
03 **STRAP CROSS BRACING**
FASTEN STRAP WITH (4) #12 X ¾" SELF DRILLING SCREWS, P/N 760600, AT EACH END. NOTE THE STRAPS MUST BE INSTALLED AFTER WALLS OR ROOF SECTIONS ARE SQUARED & PLUMBED. ALL STRAPS ARE TO BE INSTALLED SO THEY ARE STRAIGHT & TIGHT (UNDER TENSION). REFER TO ROOF PLAN OR FLOOR FOR EXACT 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.

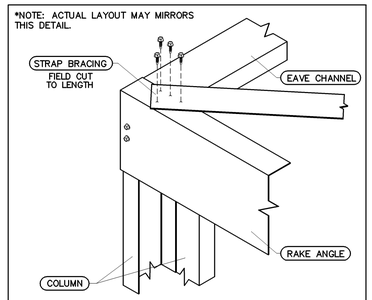
34 **PURLIN ORIENTATION**
THE PURLINS ARE ORIENTATED AS SHOWN. THE WEBS OF THE PURLIN AND INTERIOR COLUMN WILL FALL ON THE STRUCTURAL LINE. THE OPEN CAVITY OF THE PURLIN AND INTERIOR COLUMN SHOULD FACE THE EAVE OF THE BUILDING



A TYP. ROOF FRAMING CROSS SECTION
RAKE ANGLES ARE NOT REQUIRED AT CORRIDOR AREAS

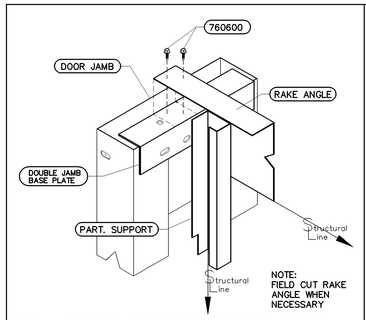


B TYP. ROOF FRAMING CROSS SECTION
RAKE ANGLES ARE NOT REQUIRED AT CORRIDOR AREAS

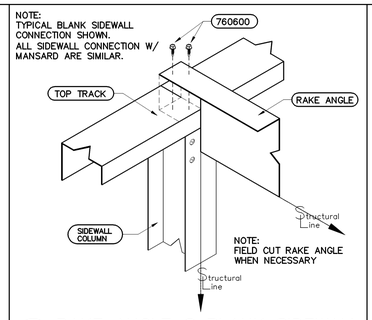


12 STRAP BRACING @ BLANK/BLANK CORNER CONNECTION DETAIL

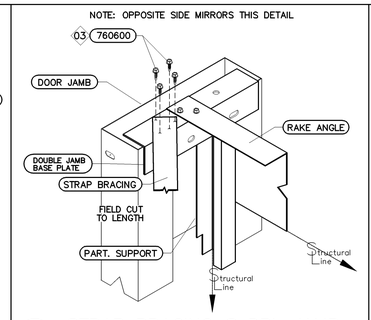
NOTE: BLOCK NOT SHOWN FOR CLARITY



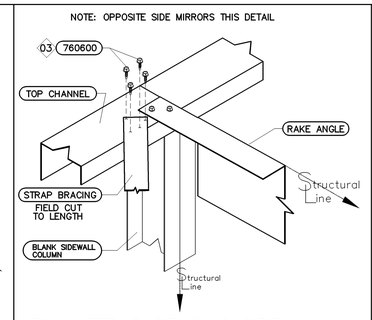
1 RAKE ANGLE @ DOOR JAMB CONNECTION DETAIL



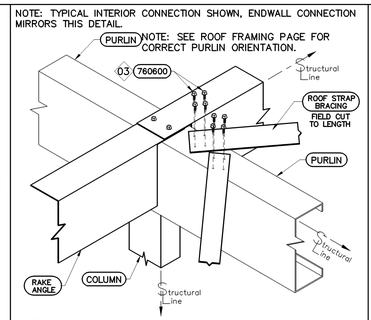
2 RAKE ANGLE @ BLANK SIDEWALL CONNECTION DETAIL



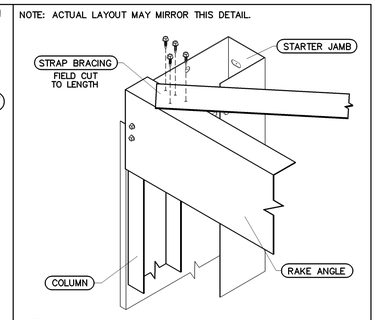
6 STRAP BRACING @ DBL JAMB CONNECTION DETAIL



7 STRAP BRACING SIDEWALL CONNECTION DETAIL



8 STRAP BRACING @ PURLIN CONNECTION



11 STRAP BRACING @ DOOR/BLANK CORNER CONNECTION DETAIL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title: ROOF FRAMING PLANS & DETAILS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/8" = 1'–0"
Plan No.: P–42735
Order No.:
Sheet No.: C7

PART # INDEX	
PART #	DESCRIPTION
5050020112	12ga. baseplate, DBL. jamb
5050020412	12ga. baseplate, STR. jamb
5050022218	18ga. DBL. jamb clip
5050022316	16ga. STR. jamb clip
5950000518	18ga. PT. support jamb, 10'-4"
59550001XX	18ga. SW / EW header, 9'-0", COLORED
59550007XX	18ga. SW / EW header, 8'-0", COLORED
59700003XX	18ga. DBL. jamb, 10'-4", COLORED
59740005XX	18ga. STR. jamb, RH, 10'-4", COLORED
59740006XX	18ga. STR. jamb, LH, 10'-4", COLORED
5994000316	16ga. BSW column, 3.63" x 1.5", 10-4/EV
779001	26ga. FW. door trim

01 **INSTALLATION PROCEDURES FOR WEDGE-BOLT ANCHORS**

A). POWERS BRAND BLUE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER WEDGE-BIT. POWERS BRAND ORANGE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER ANSI SPEC DRILL BIT. USING THE PROPER BIT FOR THE WEDGE BOLT, DRILL A HOLE INTO BASE MATERIAL TO A DEPTH OF APPROX. ¾" OR ONE ANCHOR DIAMETER DEEPER THAN THE EMBEDMENT REQUIRED. BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL. INSERT THE ANCHOR THROUGH THE FIXTURE INTO ANCHOR HOLE.

B). BEGIN TIGHTENING THE ANCHOR BY APPLYING FORWARD PRESSURE WHEN ENGAGING THE FIRST FEW THREADS. CONTINUE TIGHTENING THE ANCHOR UNTIL THE HEAD IS FIRMLY SEATED AGAINST THE FIXTURE. IN EXTREMELY DENSE MATERIALS, USE OF AN IMPACT WRENCH IS RECOMMENDED.

C). BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH AND THAT MAXIMUM CLAMPING TORQUE HAS NOT BEEN EXCEEDED. THE INSTALLATION IS NOW COMPLETE.

02 **POWDER ACTUATED ANCHORS**

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS FOR PARTS THAT ARE LESS THAN 8' LONG, AT 48" CENTERS FOR PARTS LONGER THAN 8'. 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 & WEDGE BOLT ANCHORING AS SPECIFIED.

06 **STARTER BAY**

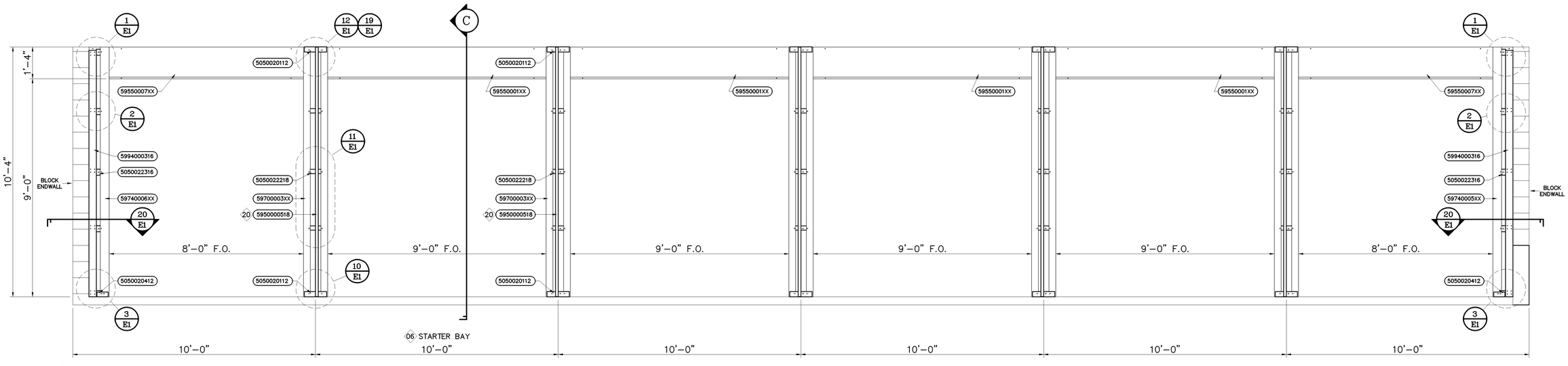
A STARTER BAY IS A BAY WHERE 2 ROWS OF COLUMNS FALL IN-BETWEEN THE 10' STRUCTURAL LINES OF THE FLOOR PLAN LAYOUT. TYPICAL 10' BAYS WILL ONLY HAVE ONE ROW OF COLUMNS WITHIN THE 10' STRUCTURAL LINES. THERE IS ALWAYS AT LEAST ONE 10' STARTER BAY. THERE MAY BE MORE THAN ONE IF YOUR BUILDING HAS CORRIDORS. 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.

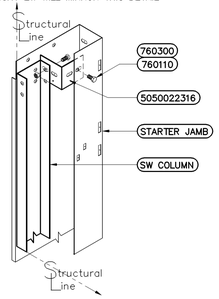
20 **PARTITION SUPPORT AT DOOR SIDEWALL**

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.



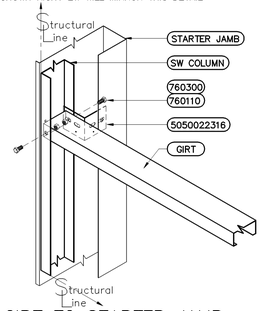
A SIDEWALL ELEVATION (INTERIOR VIEW)
(TYP. SIDEWALL ELEVATIONS SHOWN. LENGTH MAY VARY)

NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



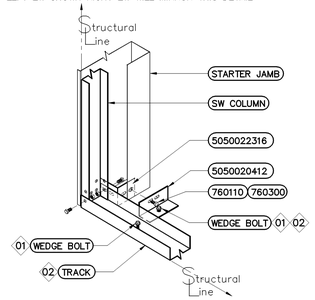
1 STARTER JAMB TOP CONNECTION

NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



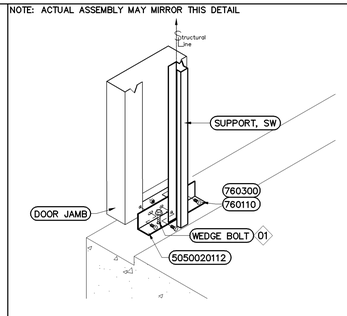
2 GIRT TO STARTER JAMB CONNECTION

NOTE: LEFT EW SHOWN RIGHT EW WILL MIRROR THIS DETAIL



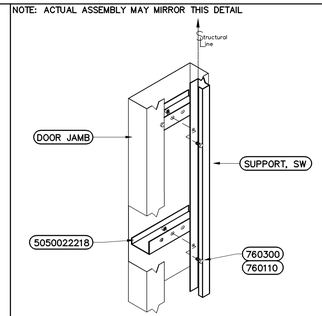
3 TRACK TO STARTER JAMB CONNECTION

NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



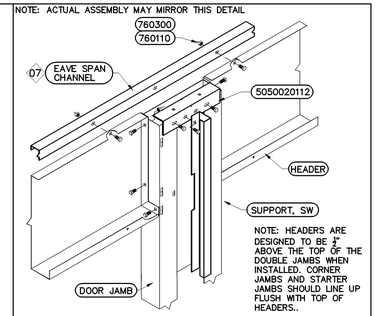
10 BOTTOM OF DOOR JAMB CONNECTION DETAIL

NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



11 DOOR JAMB CLIP DETAIL

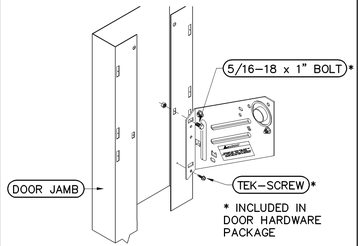
NOTE: ACTUAL ASSEMBLY MAY MIRROR THIS DETAIL



12 TOP OF DOOR JAMB CONNECTION DETAIL

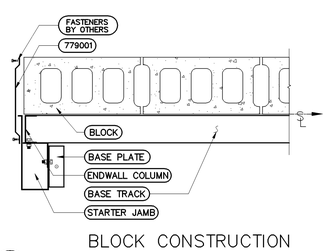
NOTE: NON-WINDLOCK DOOR BRACKET SHOWN. SEE WINDLOCK DETAIL WHEN MOUNTING WINDLOCK DOORS

NOTE: TYPICAL DOOR JAMB SHOWN. ALL OTHER DOOR JAMBS ARE SIMILAR

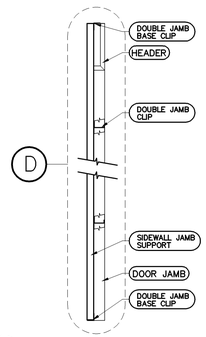


19 DOOR BRACKET AND DOOR JAMB CONNECTION DETAIL

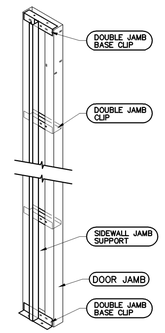
NOTE: TYPICAL CONNECTIONS AT OPPOSITE END MIRROR THIS DETAIL.



20 BLOCK CONSTRUCTION SECTION DOOR SIDEWALL



C TYP. DOOR SW SECTION



D DOOR JAMB SUB-ERECTION DETAIL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title: SIDEWALL ELEVATIONS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/2" = 1'-0"
Plan No.: P-42735
Order No.:
Sheet No.: E1

PART # INDEX	
PART #	DESCRIPTION
478019200	16ga. strap bracing, 16' long
5910000114	14ga. eave channel, 4" x 3.25" x 10' long
5910000314	14ga. eave channel, 4" x 3.25" x 9'-4" long
5911000114	14ga. EXT. wall base track 10' long
5911007814	14ga. EXT. wall base track 9'-0" long
5985000118	18ga. EXT. girt, 9'-11 1/4" long
5985007118	18ga. EXT. girt, 9'-0" long
5994005014	14ga. BSW column, 3.63" x 1.5", 10-11.5/EV
5994005016	16ga. BSW column, 3.63" x 1.5", 10-11.5/EV
5994005018	18ga. BSW column, 3.63" x 1.5", 10-11.5/EV

01 Bearing & Nonbearing Wall Rating U901 - 4 HR Firewall

Concrete Blocks - Various designs. Classification B-4 (4 hr). See Concrete Blocks category for lists of eligible manufacturers.

Mortar - Blocks laid in full bed of mortar, nom. 3/8" thick, of not less than 2-1/4" and not more than 3-1/2" parts of clean sharp sand to 1 part Portland Cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

Loose Masonry Fill - If all core space are filled with loose dry expanded slag, burned clay or shale (rotary kiln process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation, Class D-2 (2 hr) or C-3 (3 hr) concrete blocks will provide a (4 hr) resistance rating.

02 POWDER ACTUATED ANCHORS

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS FOR PARTS THAT ARE LESS THAN 8' LONG, AT 48" CENTERS FOR PARTS LONGER THAN 8'. 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 & WEDGE BOLT ANCHORING AS SPECIFIED.

03 STRAP CROSS BRACING

FASTEN STRAP WITH (4) #12 X ¾" 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 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.

120 INSULATION FLAME AND SMOKE RATING

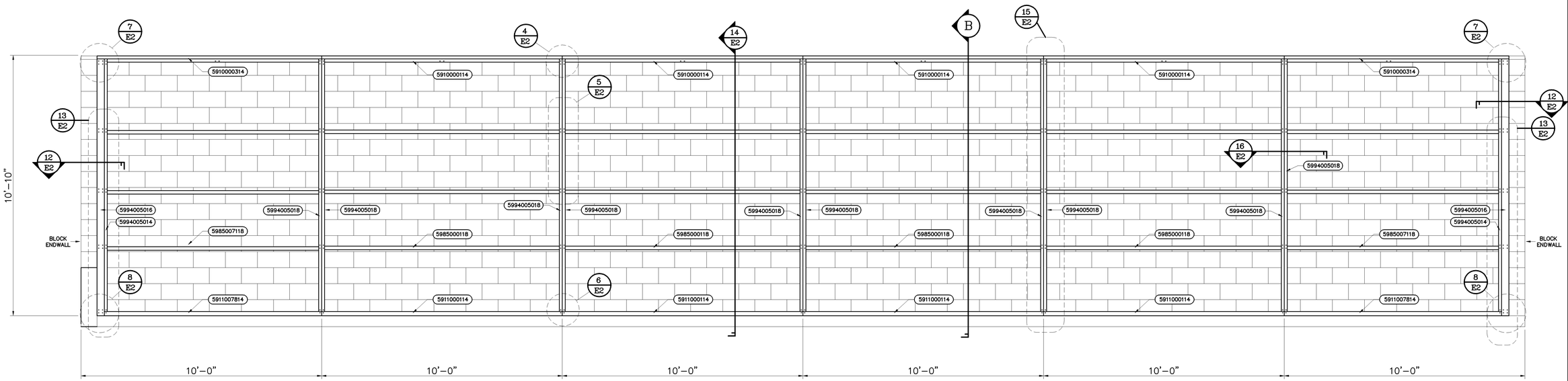
THE COMPOSITE OF FIBERGLASS AND FACING SHALL HAVE SURFACE BURNING CHARACTERISTICS NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE WHEN TESTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES 723 TEST METHOD OR ASTM E-84 TEST METHOD. INSULATION BY OTHERS TO MEET OR EXCEED THESE REQUIREMENTS.

19 PARTITION SUPPORT AT BLANK WALL

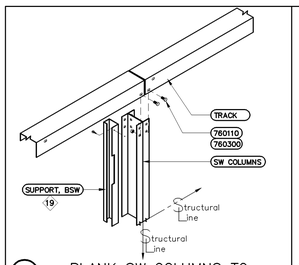
BLANK SIDEWALL PARTITION SUPPORT IS ONLY REQUIRED WHERE AN INTERIOR PARTITION PANEL WALL INTERSECTS WITH THE BLANK SIDEWALL. REVIEW YOUR FLOOR PLAN FOR LOCATION AND QUANTITY OF BLANK SIDEWALL SUPPORTS. THE BLANK SIDEWALL SUPPORT MAY NEED TO BE FIELD CUT TO THE PROPER HEIGHT. INSULATED SIDEWALLS WILL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

47 ROOF INSULATION

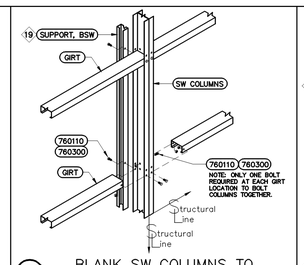
INSULATION MUST STOP ON BOTH SIDES OF FIREWALL. INSULATION CANNOT RUN CONTINUOUS ACROSS TOP OF WALL.



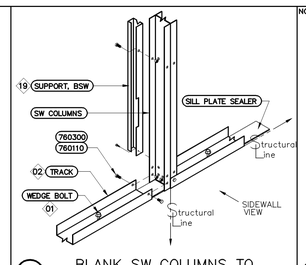
A SIDEWALL ELEVATION (INTERIOR VIEW)



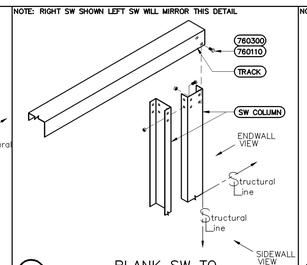
4 BLANK SW COLUMNS TO EAVE TRACK CONNECTION



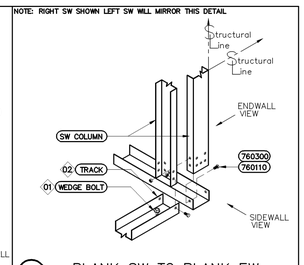
5 BLANK SW COLUMNS TO GIRT CONNECTION



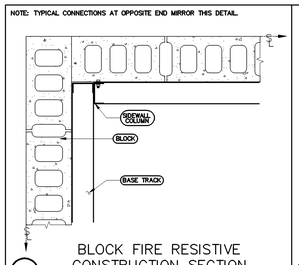
6 BLANK SW COLUMNS TO TRACK CONNECTION



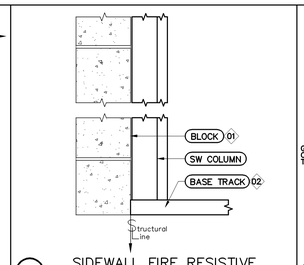
7 BLANK SW TO BLANK EW CONNECTION



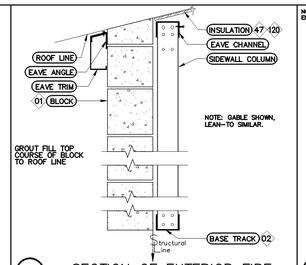
8 BLANK SW TO BLANK EW TRACK CONNECTION



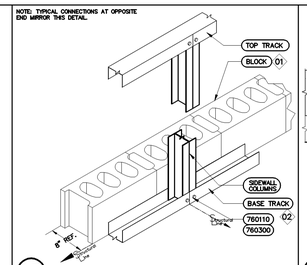
12 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL



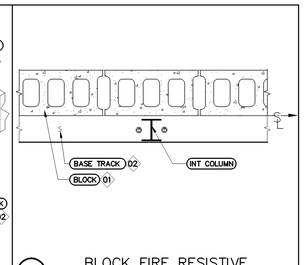
13 SIDEWALL FIRE RESISTIVE CONSTRUCTION @ ENDWALL



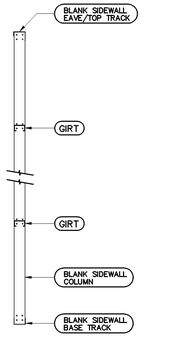
14 SECTION OF EXTERIOR FIRE RESISTIVE CONSTRUCTION



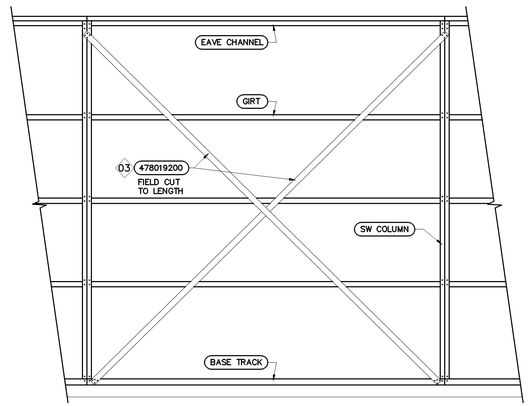
15 TYPICAL COLUMN CONNECTION



16 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION DETAIL



B TYPICAL BSW SECTIONAL



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

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: SIDEWALL ELEVATIONS

Date: APRIL 4, 2012

Drawn by: MAS

Scale: 1/2" = 1'-0"

Plan No.: P-42735

Order No.:

Sheet No.: E2

PART # INDEX	
PART #	DESCRIPTION
5050020112	12ga. baseplate, DBL. jamb
5050020412	12ga. baseplate, STR. jamb
5050022218	18ga. DBL. jamb clip
5050022316	16ga. STR. jamb clip
5950000118	18ga. PT. support jamb
59550001XX	18ga. SW / EW header, 9'–0", COLORED
59550002XX	18ga. SW / EW header, 8'–8", COLORED
59700001XX	18ga. DBL. jamb, 8'–4", COLORED
59740001XX	18ga. STR. jamb, RH, 8'–4", COLORED
59740002XX	18ga. STR. jamb, LH, 8'–4", COLORED
5994000118	18ga. BSW column, 3.63" x 1.5", 8–4/EV

01 INSTALLATION PROCEDURES FOR WEDGE–BOLT ANCHORS

A). POWERS BRAND BLUE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER WEDGE–BIT. POWERS BRAND ORANGE TIP WEDGE BOLTS REQUIRE THE USE OF THE SAME DIAMETER ANSI SPEC DRILL BIT. USING THE PROPER BIT FOR THE WEDGE BOLT, DRILL A HOLE INTO BASE MATERIAL TO A DEPTH OF APPROX. ¾" OR ONE ANCHOR DIAMETER DEEPER THAN THE EMBEDMENT REQUIRED. BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL. INSERT THE ANCHOR THROUGH THE FIXTURE INTO ANCHOR HOLE.

B). BEGIN TIGHTENING THE ANCHOR BY APPLYING FORWARD PRESSURE WHEN ENGAGING THE FIRST FEW THREADS. CONTINUE TIGHTENING THE ANCHOR UNTIL THE HEAD IS FIRMLY SEATED AGAINST THE FIXTURE. IN EXTREMELY DENSE MATERIALS, USE OF AN IMPACT WRENCH IS RECOMMENDED.

C). BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH AND THAT MAXIMUM CLAMPING TORQUE HAS NOT BEEN EXCEEDED. THE INSTALLATION IS NOW COMPLETE.

02 POWDER ACTUATED ANCHORS

POWDER ACTUATED ANCHORS ARE TO BE USED AT 24" CENTERS FOR PARTS THAT ARE LESS THAN 8' LONG, AT 48" CENTERS FOR PARTS LONGER THAN 8'. 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 & WEDGE BOLT ANCHORING AS SPECIFIED.

06 STARTER BAY

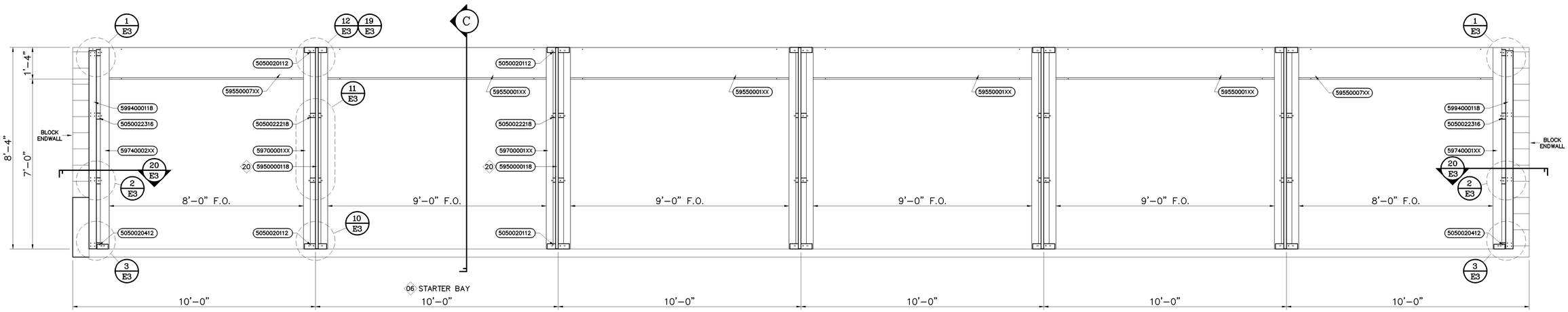
A STARTER BAY IS A BAY WHERE 2 ROWS OF COLUMNS FALL IN–BETWEEN THE 10' STRUCTURAL LINES OF THE FLOOR PLAN LAYOUT. TYPICAL 10' BAYS WILL ONLY HAVE ONE ROW OF COLUMNS WITHIN THE 10' STRUCTURAL LINES. THERE IS ALWAYS AT LEAST ONE 10' STARTER BAY. THERE MAY BE MORE THAN ONE IF YOUR BUILDING HAS CORRIDORS. 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

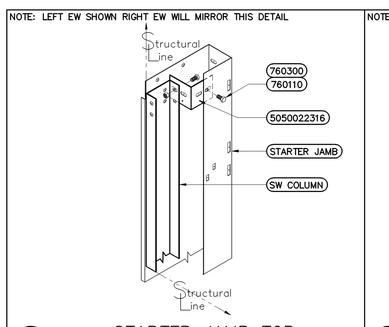
WHEN INSTALLING THE EAVE SPAN CHANNELS START WITH A 5' CHANNEL FOLLOWED WITH 10' AND END WITH A 5' EAVE SPAN CHANNEL. CHANNELS WILL OVERLAP AT EACH END. SPAN CHANNELS SHOULD START AND END AT THE MIDPOINT OF A BAY WHENEVER POSSIBLE. SEE ROOF FRAMING PLAN TO DETERMINE WHICH P/M'S TO START & END WITH. INSTALL 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

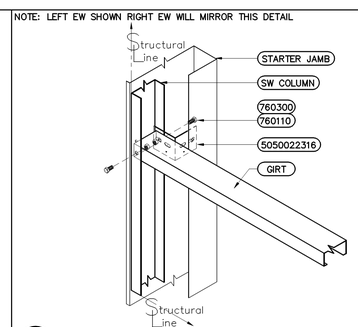
DOOR SIDEWALL PARTITION SUPPORT IS NEEDED AT EVERY DOUBLE JAMB ALONG THE SIDEWALL. THE SIDE FLANGE OF THE SUPPORT WILL ALWAYS FALL ON THE STRUCTURAL LINE. THE SUPPORT WILL BE ON THE SAME SIDE OF THE STRUCTURAL LINE AS THE INTERIOR COLUMNS. SEE FLOOR PLAN FOR CORRECT ORIENTATION.



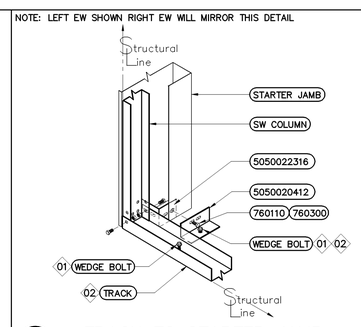
A SIDEWALL ELEVATION (INTERIOR VIEW)
(TYP. SIDEWALL ELEVATIONS SHOWN. LENGTH MAY VARY)



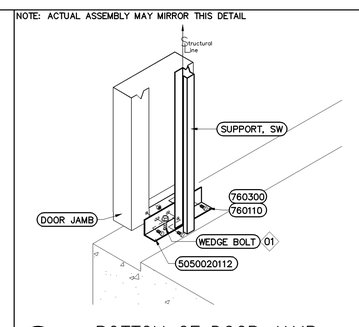
1 STARTER JAMB TOP CONNECTION



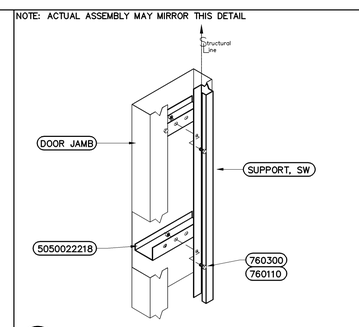
2 GIRT TO STARTER JAMB CONNECTION



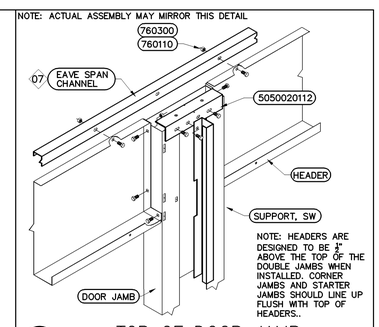
3 TRACK TO STARTER JAMB CONNECTION



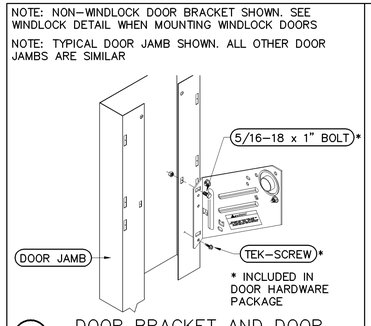
10 BOTTOM OF DOOR JAMB CONNECTION DETAIL



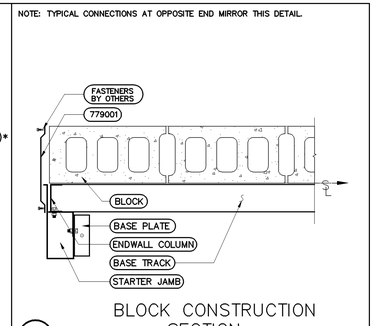
11 DOOR JAMB CLIP DETAIL



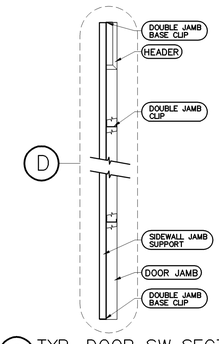
12 TOP OF DOOR JAMB CONNECTION DETAIL



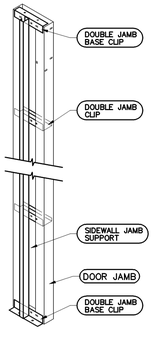
19 DOOR BRACKET AND DOOR JAMB CONNECTION DETAIL



20 BLOCK CONSTRUCTION SECTION DOOR SIDEWALL



C TYP. DOOR SW SECTION



D DOOR JAMB SUB–ERECTION DETAIL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: SIDEWALL ELEVATIONS

Date: APRIL 4, 2012

Drawn by: MAS

Scale: 1/2" = 1'–0"

Plan No.: P–42735

Order No.:

Sheet No.: E3

PART # INDEX	
PART #	DESCRIPTION
102702	sillplate sealer, 3.5" x 25'-0" roll
43XX14400	26ga. CNR. trim,panel/panel, COLORED
5910000114	14ga. eave channel, 4" x 3.25" x 10' long
5910000314	14ga. eave channel, 4" x 3.25" x 9'-4" long
5911000114	14ga. EXT. wall base track 10' long
5911007814	14ga. EXT. wall base track 9'-0" long
5985000118	18ga. EXT. girt, 9'-11 1/4" long
5985007118	18ga. EXT. girt, 9'-0" long
5994AAAA16	16ga. BSW column, 3.63" x 1.5", 8-9/EV,W.B.
5994AAAA18	18ga. BSW column, 3.63" x 1.5", 8-9/EV,W.B
779600	foam closure,3'-0"(r-pan out/a-pan ins)

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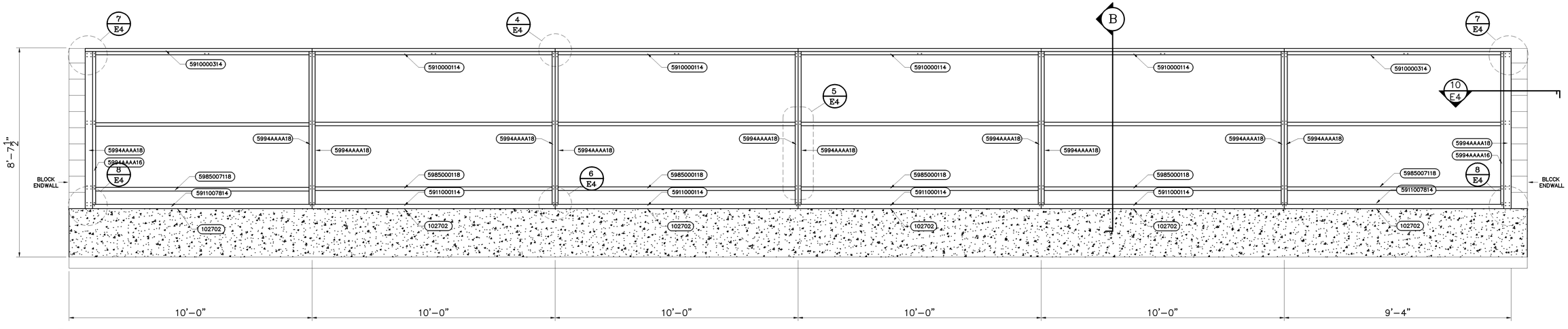
19 PARTITION SUPPORT AT BLANK WALL

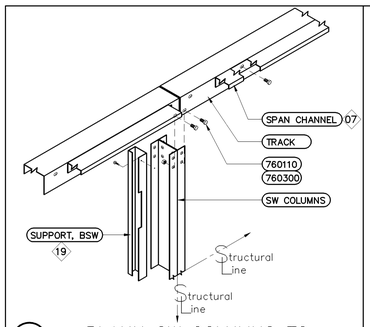
BLANK SIDEWALL PARTITION SUPPORT IS ONLY REQUIRED WHERE AN INTERIOR PARTITION PANEL WALL INTERSECTS WITH THE BLANK SIDEWALL. REVIEW YOUR FLOOR PLAN FOR LOCATION AND QUANTITY OF BLANK SIDEWALL SUPPORTS. THE BLANK SIDEWALL SUPPORT MAY NEED TO BE FIELD CUT TO THE PROPER HEIGHT. INSULATED SIDEWALLS WILL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

37 EXTRA DOOR CLIP AND/OR GIRT @ THE HIGH SIDE

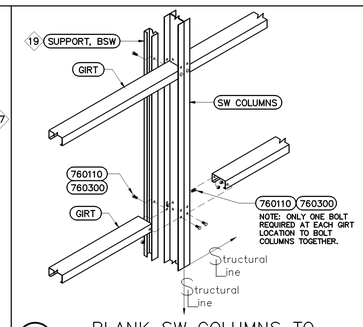
FOR ALL HIGH SIDES THAT EXCEED A 10'-0" EAVE HEIGHT THERE WILL BE AN EXTRA LINE OF GIRTS (#5985_____), DOUBLE JAMB CLIP (#5050022218) AND OR STARTER JAMB CLIP (#5050022316). THIS IS NOT SHOWN IN THE ELEVATIONS. THESE EXTRA PARTS WILL BE FASTENED THE SAME WAY AS THE OTHER CLIPS/GIRTS.



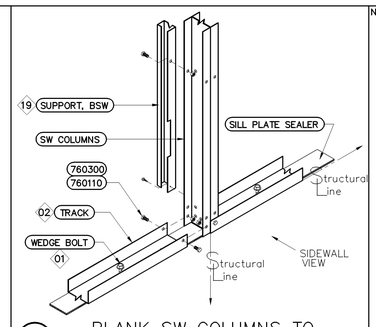
A SIDEWALL ELEVATION (INTERIOR VIEW)



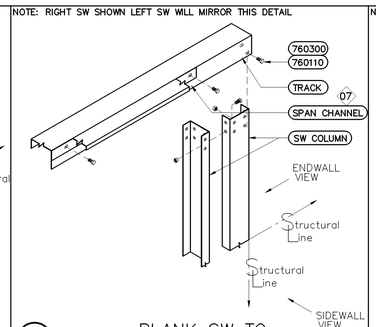
4 BLANK SW COLUMNS TO EAVE TRACK CONNECTION



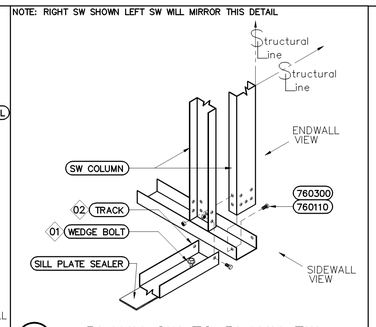
5 BLANK SW COLUMNS TO GIRT CONNECTION



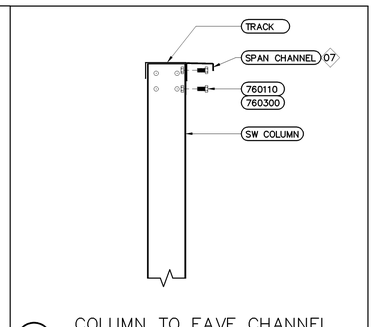
6 BLANK SW COLUMNS TO TRACK CONNECTION



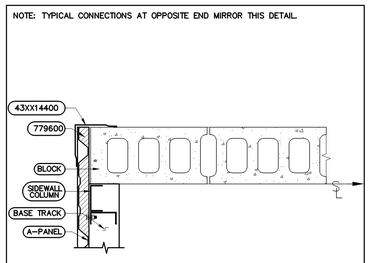
7 BLANK SW TO BLANK EW CONNECTION



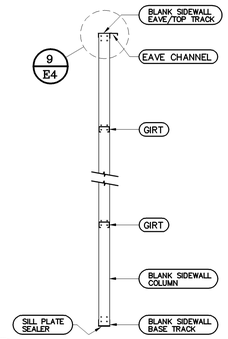
8 BLANK SW TO BLANK EW TRACK CONNECTION



9 COLUMN TO EAVE CHANNEL CONNECTION (NO NOTCH)



10 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL



B TYPICAL BSW SECTIONAL

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: SIDEWALL ELEVATIONS

Date: APRIL 4, 2012

Drawn by: MAS

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

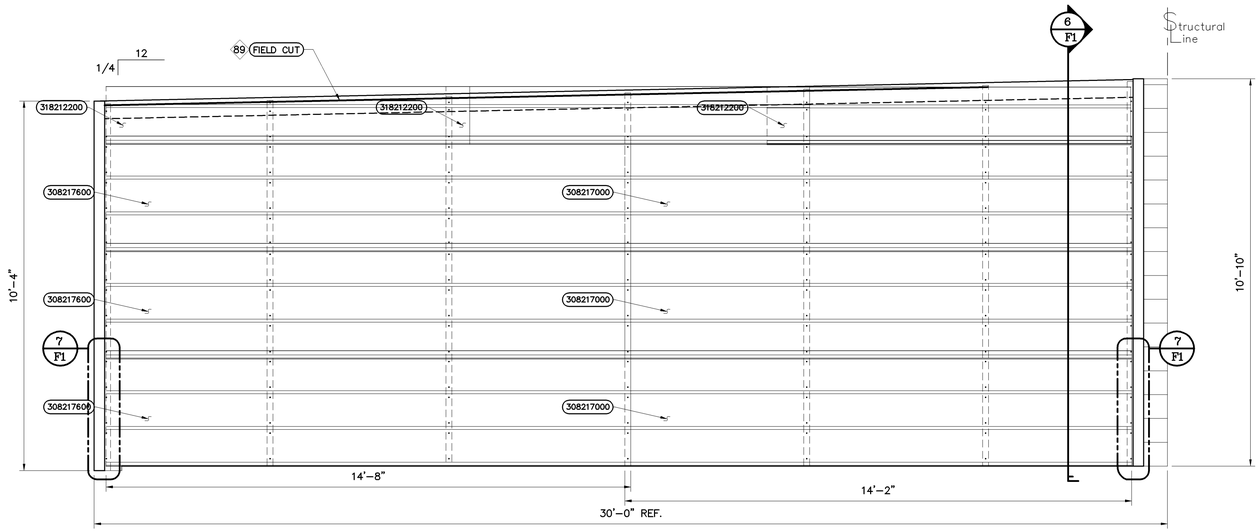
Plan No.: P-42735

Order No.:

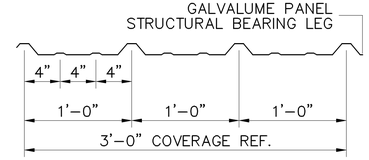
Sheet No.: E4

PART # INDEX	
PART #	DESCRIPTION
308217000	29ga. PT. panel, 14'–2" long
308217600	29ga. PT. panel, 14'–8" long
308223000	29ga. PT. panel, 19'–2" long
318212200	29ga. PT. panel, half, 10'–2" long

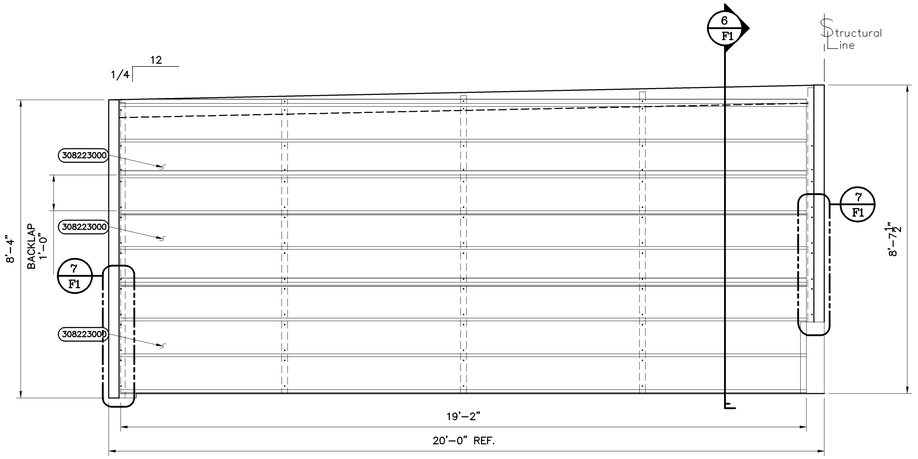
89 **FIELD CUT PARTITION PANEL**
LAP PARTITION PANEL ONTO RAKE ANGLE AND COLUMNS. FIELD CUT PARTITION PANEL TO MATCH THE ROOF PITCH.



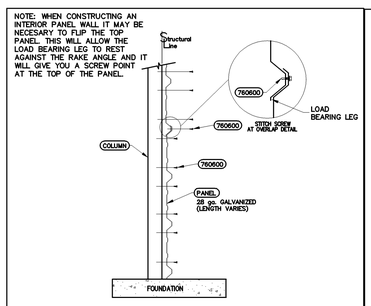
A TRANSVERSE PANEL LAYOUT 10'–4" EAVE, 30' WIDE LEAN–TO



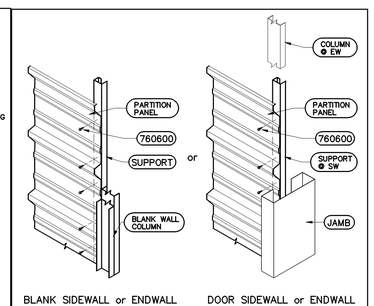
TRACHTE PARTITION PANEL PROFILE



B TRANSVERSE PANEL LAYOUT 8'–4" EAVE, 20' WIDE LEAN–TO



6 PARTITION PANEL FASTENING DETAIL
ATTENTION: Partition wall panel lengths were determined with the panel starting at least 3½" in from the sidewall. All buildings 25' or more will have 2–panels that lap at a interior column line. The panels should overlap at least by 1".



7 PARTITION PANEL EXTERIOR CONNECTION

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: INTERIOR PARTITION WALL DETAILS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/2" = 1'–0"
Plan No.: P–42735
Order No.:
Sheet No.: F1

PART # INDEX	
PART #	DESCRIPTION
17XX07900	exterior wall panel, 6'-7", COLORED
42XX12200	26ga. sill trim, COLORED
43XX14400	26ga. CNR. trim,panel/panel, COLORED
50450100XY	26ga. eave trim (dsw), 10'-2", ACCENT COLOR
59200049XY	26ga. high side eavetrim (bsw), ACCENT COLOR
779001	26ga. FW. door trim
779600	foam closure,3'-0"(r-pan out/a-pan ins)

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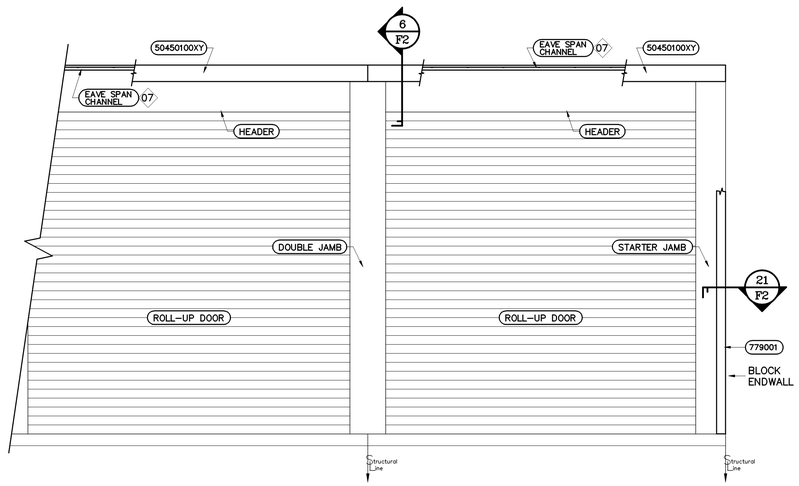
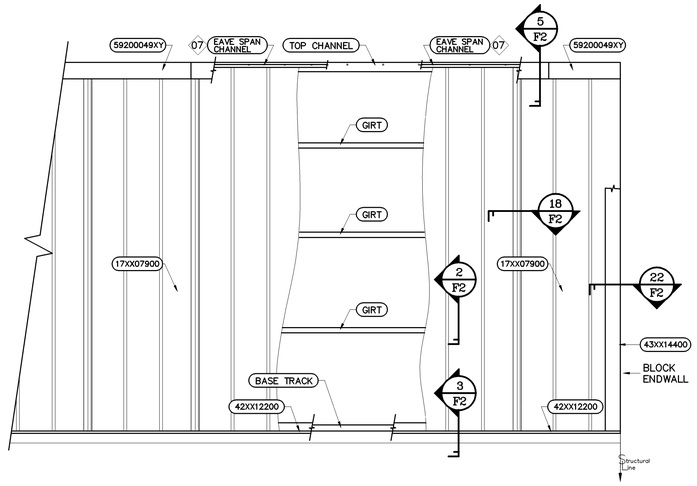
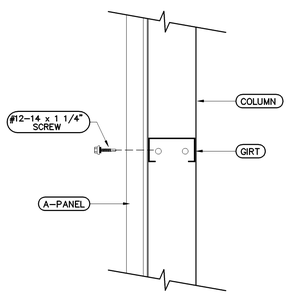


A DOOR FRAME SIDEWALL W/ BLANK ENDWALL ELEVATION

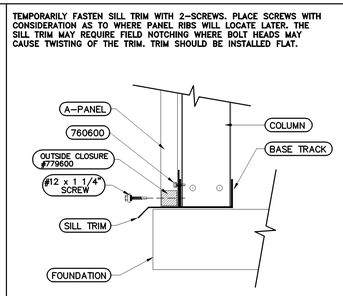


B BLANK SIDEWALL W/ BLANK ENDWALL ELEV (HIGH SIDE)



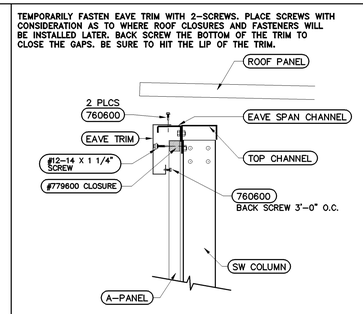
2 BLANK ENDWALL/GIRT CONNECTION DETAIL

TEMPORARILY FASTEN SILL TRIM WITH 2-SCREWS. PLACE SCREWS WITH CONSIDERATION AS TO WHERE PANEL RIBS WILL LOCATE LATER. THE SILL TRIM MAY REQUIRE FIELD NOTCHING WHERE BOLT HEADS MAY CAUSE TWISTING OF THE TRIM. TRIM SHOULD BE INSTALLED FLAT.



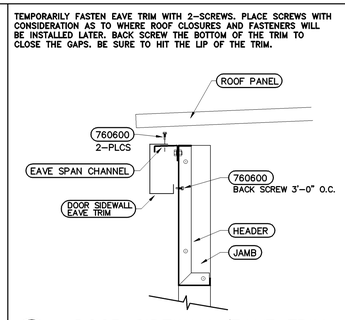
3 EXTERIOR WALL/SILL TRIM CONNECTION DETAIL

TEMPORARILY FASTEN EAVE TRIM WITH 2-SCREWS. PLACE SCREWS WITH CONSIDERATION AS TO WHERE ROOF CLOSURES AND FASTENERS WILL BE INSTALLED LATER. BACK SCREW THE BOTTOM OF THE TRIM TO CLOSE THE GAPS. BE SURE TO HIT THE LIP OF THE TRIM.

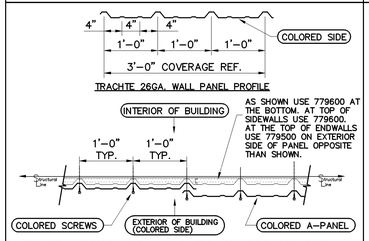


5 BLANK SIDEWALL/EAVE TRIM CONNECTION DETAIL

TEMPORARILY FASTEN EAVE TRIM WITH 2-SCREWS. PLACE SCREWS WITH CONSIDERATION AS TO WHERE ROOF CLOSURES AND FASTENERS WILL BE INSTALLED LATER. BACK SCREW THE BOTTOM OF THE TRIM TO CLOSE THE GAPS. BE SURE TO HIT THE LIP OF THE TRIM.



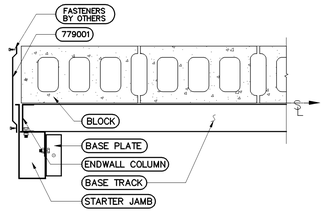
6 DOOR SIDEWALL/EAVE TRIM CONNECTION DETAIL



WALL PANEL IS INSTALLED WITH 1 1/4" AND 7/8" COLORED SCREWS WITH THE COLORED SIDE TO THE EXTERIOR. USE THE 1 1/4" SCREWS TO FASTEN PANELING TO THE STRUCTURAL COMPONENTS OF THE BUILDING, USUALLY GIRTS OR EAVE/BASE ANGLE AND CHANNELS. THE TOP OF A ENDWALL WILL FASTEN THROUGH THE RAKE TRIM AND INTO THE PANEL – SEE RAKE TRIM DETAIL. USE THE 7/8" SCREWS TO STITCH THE PANEL TOGETHER WHEN THEY OVERLAP. PLACE ONE 7/8" SCREWS BETWEEN EACH 1 1/4" SCREW AT THE OVERLAPPING PANELS.

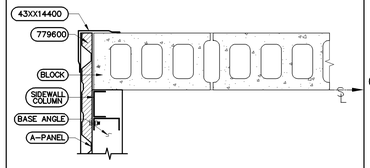
18 A-PANEL PROFILE AND LAYOUT DETAILS

NOTE: TYPICAL CONNECTIONS AT OPPOSITE END MIRROR THIS DETAIL.



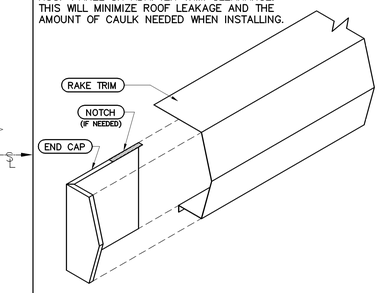
21 BLOCK CONSTRUCTION SECTION DOOR SIDEWALL

NOTE: TYPICAL CONNECTIONS AT OPPOSITE END MIRROR THIS DETAIL.



22 BLOCK FIRE RESISTIVE CONSTRUCTION SECTION BLANK SIDEWALL

NOTE: IF NEEDED NOTCH OR SLIT ENDCAP FOR ROOF PANEL OR ADAPTER TRIM CLEARANCE. THIS WILL MINIMIZE ROOF LEAKAGE AND THE AMOUNT OF CAULK NEEDED WHEN INSTALLING.



NOTCH ENDCAP AT RAKETRIM

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for: CHET HERMANSEN MADISON, WI

Sheet Title: EXTERIOR PANEL DETAILS

Date: APRIL 4, 2012

Drawn by: MAS

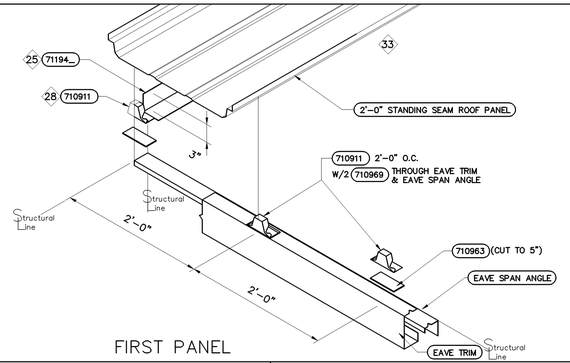
Scale: 1/2" = 1'-0"

Plan No.: P-42735

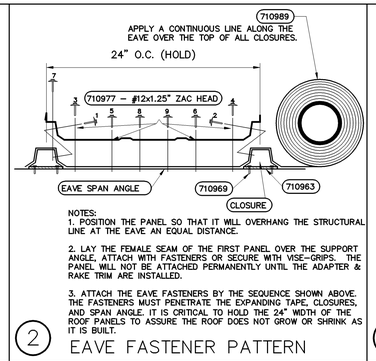
Order No.:

Sheet No.: F2

PART # INDEX	
PART #	DESCRIPTION
5920019982	adapter trim, 16'–0" long
710911	inside metal closure
710933	fixed utility clip
710963	caulk tape
710967	standing seam roof shaping tool
710969	#12–14 x 1.25" Hex head screw
710977	#12 x 1.25" SDWW (zac) screw
710989	self expanding sealer tape
71194_	rake angle, length varies
760600	#12 x 3/4" HWHSD screw
766000	1.5" o.d. fender washer



1 FIRST PANEL

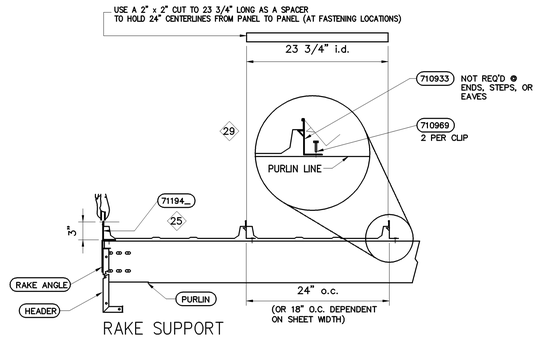


NOTES:
1. POSITION THE PANEL SO THAT IT WILL OVERHANG THE STRUCTURAL LINE AT THE EAVE AN EQUAL DISTANCE.

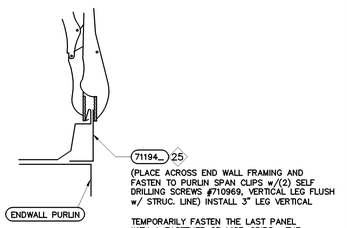
2. LAY THE FEMALE SEAM OF THE FIRST PANEL OVER THE SUPPORT ANGLE, ATTACH WITH FASTENERS OR SECURE WITH VISE–GRIPS. THE PANEL WILL NOT BE ATTACHED PERMANENTLY UNTIL THE ADAPTER & RAKE TRIM ARE INSTALLED.

3. ATTACH THE EAVE FASTENERS BY THE SEQUENCE SHOWN ABOVE. THE FASTENERS MUST PENETRATE THE EXPANDING TAPE, CLOSURES, AND SPAN ANGLE. IT IS CRITICAL TO HOLD THE 24" WIDTH OF THE ROOF PANELS TO ASSURE THE ROOF DOES NOT GROW OR SHRINK AS IT IS BUILT.

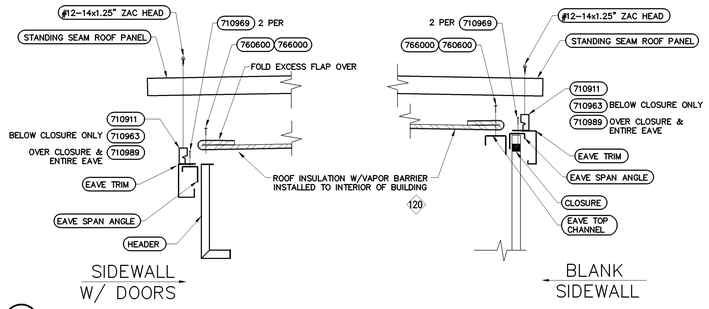
2 EAVE FASTENER PATTERN



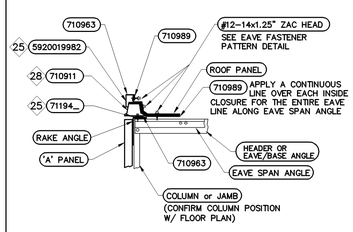
3 RAKE SUPPORT



4 TERMINATION PANEL

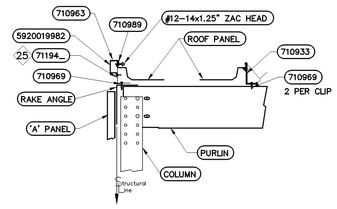


5 ROOF INSULATION w/SS–ROOF



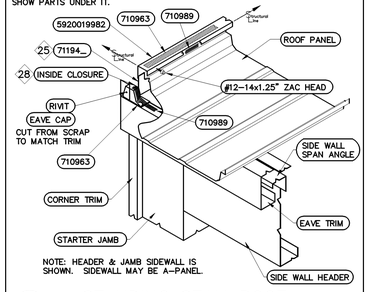
NOTE: INSULATION NOT SHOWN FOR CLARITY

6 BLANK ENDWALL & STANDING SEAM ROOF DETAIL AT EAVE



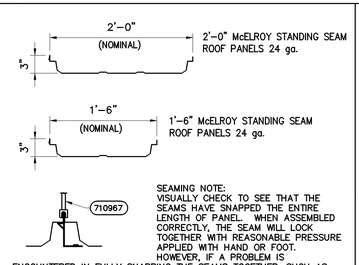
7 BLANK ENDWALL & STANDING SEAM ROOF DETAIL AT PURLIN

NOTE: DO NOT EXTEND RAKE ANGLE OR ADAPTER TRIM BEYOND STRUCTURAL LINE. ROOF PANEL IS NOT TO BE CUT OUT AS SHOWN. PANEL IS ONLY CUT AWAY TO SHOW PARTS UNDER IT.



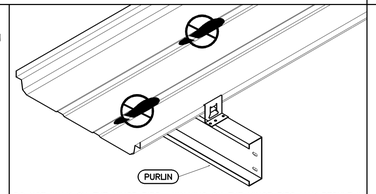
NOTE: HEADER & JAMB SIDEWALL IS SHOWN. SIDEWALL MAY BE A–PANEL.

8 STANDING SEAM ROOF & RAKE TRIM DETAIL



SEAMING NOTE:
VISUALLY CHECK TO SEE THAT THE SEAMS HAVE SNAPPED THE ENTIRE LENGTH OF PANEL. WHEN ASSEMBLED CORRECTLY, THE SEAM WILL LOCK TOGETHER WITH REASONABLE PRESSURE APPLIED WITH HAND OR FOOT. HOWEVER, IF A PROBLEM IS ENCOUNTERED IN FULLY SNAPPING THE SEAMS TOGETHER, SUCH AS AN INCORRECTLY INSTALLED CLIP, DAMAGED PANEL LIP, OR A BUBBLE CAUSED BY FAULTY ASSEMBLY, A SHAPING TOOL IS SUPPLIED THAT SHOULD ENABLE THE SEAM TO BE LOCKED WITH A MINIMUM EFFORT.

9 STANDING SEAM ROOF PROFILES



DO NOT WALK ON THE MINOR RIBS. WALKING ON THE MINOR RIBS MAY RESULT IN PERMANENT DAMAGE TO THE ROOF PANEL. DAMAGE MAY INCLUDE ROOF LEAKS, STANDING WATER, OR AESTHETIC DAMAGE.

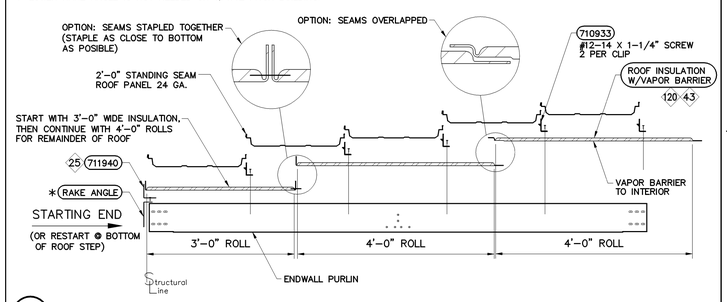
DO NOT, UNDER ANY CIRCUMSTANCES, STEP ON THE PANEL AT THE PANEL ENDS UNTIL THE PANEL IS FULLY ATTACHED. THE ROOF PANEL MAY NOT SUPPORT THE WEIGHT OF A PERSON AT THESE LOCATIONS.

IF THE PANEL MUST BE WALKED ON, PROTECT IT WITH 2x12 PLANKS THAT SPAN ACROSS A MINIMUM OF 3 PURLINS. THESE PLANKS WILL HELP TO DISTRIBUTE THE LOAD, BUT PANEL DAMAGE MAY STILL OCCUR IF THE LOADS OR FREQUENCY OF TRAVEL ARE EXCESSIVE.

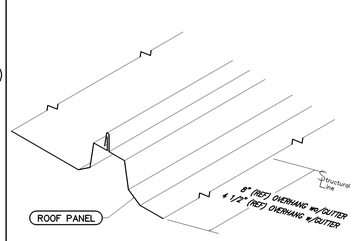
THE ROOF SHOULD BE SWEPT CLEAN OF DRILL SHAVINGS AT THE END OF EACH WORK DAY. FAILURE TO DO SO MAY RESULT IN RUST SPOTS.

10

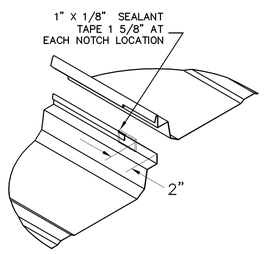
* LOWER RAKE ANGLE IS NOT NEEDED ON 1/4:12 PITCH BUILDING.



11 ROOF PANEL & INSULATION LAYOUT/LAP DETAIL



12 OVERHANG DETAIL AT LAPPED RIB ($\frac{1}{4}$ & $\frac{1}{2}$:12 PITCHs)



14 SEALANT AT NOTCH DETAIL

120 **INSULATION FLAME AND SMOKE RATING**
THE COMPOSITE OF FIBERGLASS AND FACING SHALL HAVE SURFACE BURNING CHARACTERISTICS NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE WHEN TESTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES 723 TEST METHOD OR ASTM E–84 TEST METHOD. INSULATION BY OTHERS TO MEET OR EXCEED THESE REQUIREMENTS.

25 **RAKE ANGLE / ADAPTER TRIM**
PLACE ACROSS END WALL FRAMING WITH VERTICAL LEG FLUSH WITH STRUCTURAL LINE. INSTALL 3" LEG VERTICAL. NOTE THAT RAKE ANGLE AND ADAPTER TRIM ARE NOT TO EXTEND BEYOND THE STRUCTURAL EAVE LINE OF THE BUILDING.

28 **INSIDE CLOSURE**
FIELD CUT CLOSURE AT STRUCTURAL LINE IF END WALL HAS CLOSETS. CUT CLOSURE TO EXTEND 1 ¼" PAST STRUCTURAL LINE IF END WALL IS A–PANEL.

29 **ROOF CLIP**
POSITION THE CLIP AT EACH PURLIN. ROTATE THE CLIP ON THE MALE LIP UNTIL VERTICAL. IT IS IMPORTANT THAT THE CLIPS PROJECTING LEDGE FITS SNUGLY UNDER THE PANEL'S HORIZONTAL LEG AS SHOWN. FASTEN TO PURLIN. THE PANEL CLIP HAS FACTORY APPLIED SEALANT IN THE UPPER LIP. IF A CLIP MUST BE REMOVED, A NEW CLIP MUST BE USED OR GUN–GRADE SEALANT INSTALLED IN THE UPPER LIP.

33 **ROOF PANELS**
DO NOT WALK ON THE MINOR RIBS. WALKING ON THE MINOR RIBS MAY RESULT IN PERMANENT DAMAGE TO THE ROOF PANEL. DAMAGE MAY INCLUDE ROOF LEAKS, STANDING WATER OR AESTHETIC DAMAGE.

DO NOT, UNDER ANY CIRCUMSTANCES, STEP ON THE PANEL AT THE PANEL ENDS UNTIL THE PANEL IS FULLY ATTACHED. THE ROOF PANEL MAY NOT SUPPORT THE WEIGHT OF A PERSON AT THESE LOCATIONS.

IF THE PANEL MUST BE WALKED ON, PROTECT IT WITH 2X12 PLANKS THAT SPAN ACROSS A MINIMUM OF 3 PURLINS. THESE PLANKS WILL HELP TO DISTRIBUTE THE LOAD, BUT PANEL DAMAGE MAY STILL OCCUR IT THE LOADS OR FREQUENCY OF TRAVEL ARE EXCESSIVE.

THE ROOF SHOULD BE SWEPT CLEAN OF DRILL SHAVINGS AT THE END OF EACH WORK DAY. FAILURE TO DO SO MAY RESULT IN RUST SPOTS.

43 **INSULATION INSTALLATION**
IT IS THE RESPONSIBILITY OF THE ERECTOR TO INSTALL THE INSULATION WITH CONSIDERATION THAT ALL VOIDS IN AN INSULATED WALL NEED TO BE FILLED WITH INSULATION. CARE SHOULD BE TAKEN TO ASSURE THAT EXTERIOR AIR INFILTRATION TO THE INTERIOR OF THE BUILDING IS MINIMIZED. LIGHT SHOULD NOT BE VISIBLE THROUGH CRACKS AND CREVICES. CAULK OR OTHER REMEDIES TO THESE SITUATIONS IS NOT SUPPLIED BY TRACHTE AND IS TO BE USED AND SUPPLIED AT THE DISCRETION OF THE ERECTOR AND/OR OWNER.

YOU MUST INSTALL THE INSULATION WITH THE VAPOR BARRIER TO THE CLIMATE CONTROLLED SIDE OF THE WALL & ROOF (INTERIOR).

REVISION	By Date

TBS

Job Description: PROPOSED MINI STORAGE SYSTEM for:
CHET HERMANSEN
MADISON, WI

Sheet Title: STANDING SEAM ROOF DETAILS

Date: APRIL 4, 2012
Drawn by: MAS
Scale: 1/8" = 1'–0"
Plan No.: P–42735
Order No.:
Sheet No.: G1