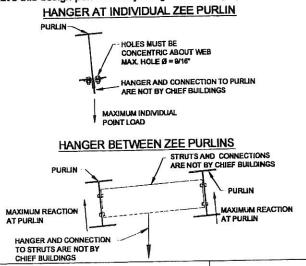


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-EC

Chief Buildings neither assumes nor accepts any responsibility for the design of hangers, bracing of suspended members, transverse support members, nor connections to roof purlins. It is the responsibility of the Buyer/Contractor and/or End Owner to have this design performed by a registered design professional.

wind loading.



CONTRACTOR IS RESPONSIBLE BASE ANGLE (A-20-B) FOR ANCHORING BASE MEMBER OR BASE GIRT (BG) TO CONCRETE. MASTIC (NOT BY CHIEF) BASE ANGLE (A-20-B) A ..... OR BASE GIRT (BG) **WITHOUT** MASTIC MIN. <u>-</u>10 (NOT BY CHIEF) NOTCH RAMSET, ANCHOR ROD, OR **EXPANSION BOLT (2" FROM** MIN. EACH END THEN SPACING FROM FASTENER SPACING CHART) (TYP.)

ANGLE (OPB) MASTIC (NOT BY CHIEF) 40 15 44 21 **WITHOUT** MIN. NOTCH

WITH NOTCH

BASE MEMBER DETAILS

ONE PIECE BASE

BASE ANCHORAGE SPACING FOR STANDARD BASE ANGLE, BASE GIRT OR ONE PIECE BASE WITH CS OR AP WALLS MINIMUM MAXIMUM FASTENER TYPE & DIAMETER EMBEDMENT SPACING 3'-0" 1/4" WEDGE ANCHOR ① 1 1/2" 3'-0" 1/4" SCREW TYPE ANCHOR (2) WITH HOOK 3'-0" 3/8" CAST-IN ANCHOR OR HEAD 2'-0" 1/4" HAMMER-IN (3) 1 3/8" 1 1/4" 0.14" POWDER ACTUATED @

- 1) HILTI KWIK BOLT®, RAMSET TRUBOLT®, POWERS
- POWERSTUD®, OR EQUAL

  ② CFS TAPCON®, HILTI KMIK-CON II®, POWERS WEDGE-BOLT®, OR FOLIAL
- (3) POWERS ZAMAC HAMMER SCREWS, HILTI METAL HIT ANCHORS, OR EQUAL

  POWERS BALLISTIC POINT PIN, RAMSET 1500/1600 SERIES,
- HILTI UNIVERSAL NAIL OR EQUAL

**FASTENER SPACING CHART** 

### **Building Design Criteria** CO95226

IBC 2003 **Building Code** Standard Buildings 2002 MBMA Occupancy Category 20 psf (Tributary Area Reduction Allowed) Roof Live Load 5 psf Collateral Load 70 psf Ground Snow Load (Pg) 1.0 Exposure Factor (Ce) 1.0 Thermal Factor (Ct) 1.0 Importance Factor (I) 49 psf Flat Roof Snow Load (Pf) **Enclosed Building Enclosure** 94 mph (GCpi ± 0.18) Wind Speed **Exposure Category** 1.0 Importance Factor (I) 13,46 psf Wind Pressure (q) Seismic 37.0% Spectral Response Short Periods (Ss) 10.0% Spectral Response 1 s Period (S1) 1.0 Seismic Importance Factor Use Group C **Design Category** Site Class Seismic Resisting System Steel System (R=3.0) **Longitudinal Direction** Steel System (R=3.0) **Lateral Direction** 0 124 Seismic Response Coefficient (Cs) 0.371 Spectral Response Parameter Short Period (SDS) 0.160 Spectral Response Parameter 1 s Period (SD1) ELF Analysis Procedure 19.218 lbs **Base Shear** None Other Loads:

HANGER CONNECTION MUST BE THROUGH HANGER AND CONNECTION TO PURLIN ARE NOT BY CHIEF BUILDINGS MAXIMUM INDIVIDUAL HANGER BETWEEN ZEE PURLINS STRUTS AND CONNECTIONS ARE NOT BY CHIEF BUILDINGS PURLIN MAXIMUM REACTION MAXIMUM REACTION AT PURLIN AT PURLIN HANGER AND CONNECTION TO STRUTS ARE NOT BY

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other piping and mechanical loads, etc., cannot exceed this

collateral load. In no case shall the total uniform collateral load

on an individual roof member exceed the product of 5 psf times

the spacing of the supporting member. Nor shall any individual

point load or summation of point loads on any one roof member

half the member length. In addition, no individual point load on a

of flanges or through holes in the flanges of the purlins. Design

bracing of suspended members subjected to horizontal service,

Chief Buildings neither assumes nor accepts any responsibility

transverse support members, nor connections to roof purlins. I

is the responsibility of the Buyer/Contractor and/or End Owner

HANGER AT INDIVIDUAL ZEE PURLIN

for the design of hangers, bracing of suspended members,

to have this design performed by a registered design

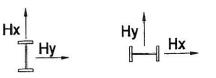
exceed the product of 5 psf times the member spacing times

purlin can exceed 100 lbs. All loads suspended from purlins

shall have the load introduced through the web and not the

of hangers and their attachments are not by Chief Buildings.

Chief Buildings is NOT responsible for lateral or longitudinal



**ORIENTATION OF** 

HORIZONTAL REACTIONS:

Hx IS PARALLEL TO THE COLUMN WEB AND HY IS PERPENDICULAR TO THE COLUMN WEB, FOR ALL ENDWALL COLUMNS & SOLDIER COLUMNS BY CHIEF BUILDINGS.

1. COLUMN FOOTINGS AND PIERS MUST BE DESIGNED TO WITHSTAND HORIZONTAL AND VERTICAL REACTIONS AS SHOWN ON THE ANCHOR ROD PLAN, CHIEF BUILDINGS IS NOT RESPONSIBLE FOR DESIGN OF CONCRETE FOUNDATION. CHIEF BUILDINGS RECOMMENDS THAT THE SERVICES OF A QUALIFIED ENGINEER IS OBTAINED BY THE CONTRACTOR / BUILDER TO DESIGN THE FOUNDATIONS FOR THE INDICATED REACTIONS.

2. REACTIONS ARE GIVEN IN KIPS. (1 KIP = 1000 LBS.) MOMENTS, IF ANY, ARE GIVEN IN KIP-FT.

3. ANCHOR ROD DESIGN IS BASED ON SHEAR, TENSION, AND COMBINED TENSION AND SHEAR. CHIEF BUILDINGS IS NOT RESPONSIBLE FOR ANCHOR ROD SIZE RECOMMENDATIONS WHEN ANCHOR ROD CONFIGURATION PLACES THE RODS IN A BENDING MODE. WHEN THE COLUMN BASE PLATE BEARS ON GROUT, THE CONTRACTOR / BUILDER OR FOUNDATION ENGINEER SHALL INVESTIGATE BENDING IN THE ANCHOR RODS AND PROVIDE A SHEAR KEY FOR THE COLUMN BASE TO THE PIER WHEN THE ANCHOR RODS ARE NOT ADEQUATE IN BENDING ABOUT THE PIER.

REFERENCE NOTES

seismic, or wind loading.

professional.

1. ACTUAL BASE PLATE DIMENSIONS MAY BE SMALLER THAN BASE PLATE DIMENSIONS SHOWN.

REVISIONS REVISED PER CHANGE ORDER #1 18-NOV-09 BLO

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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ANCHOR ROD DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

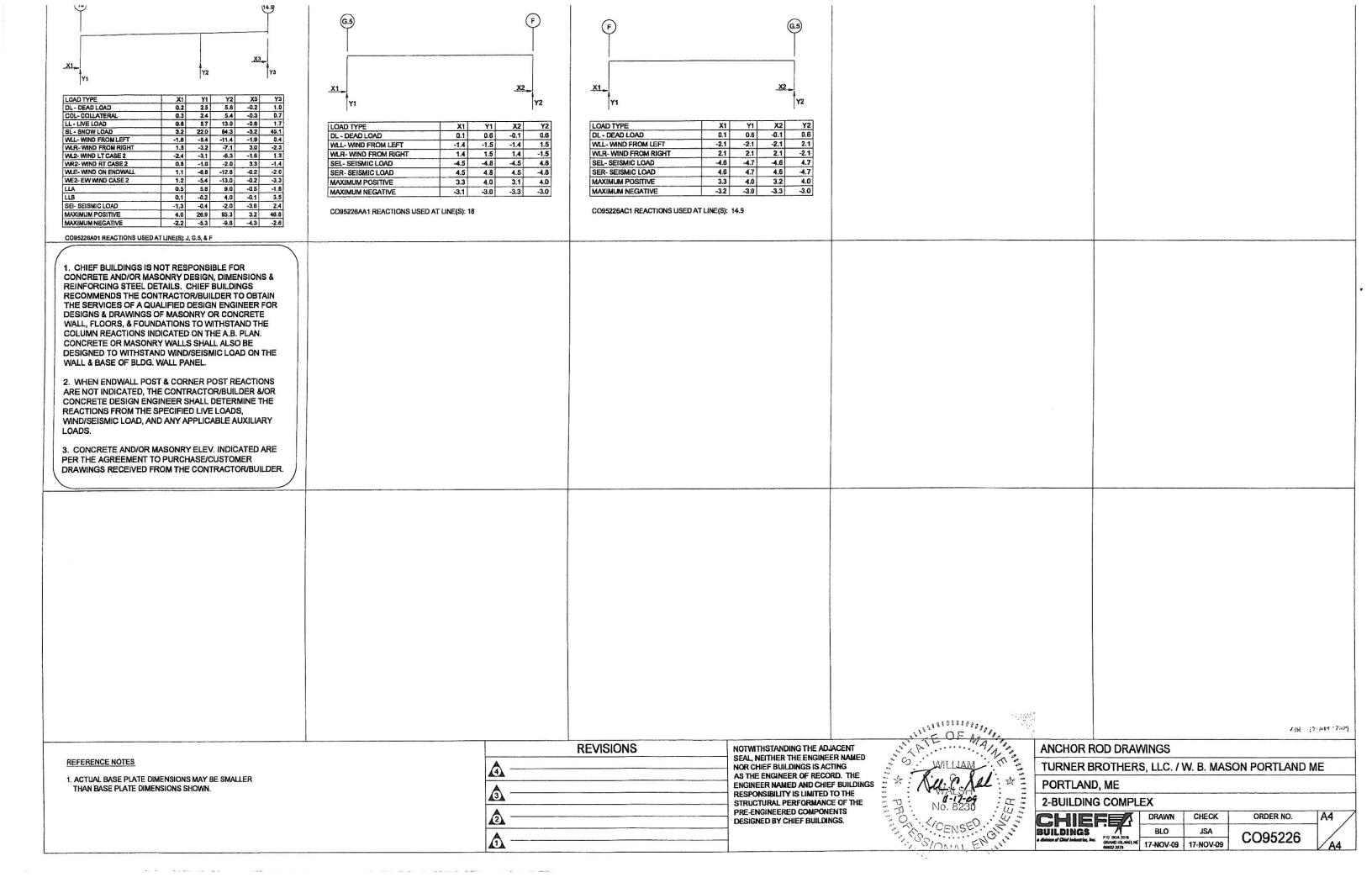
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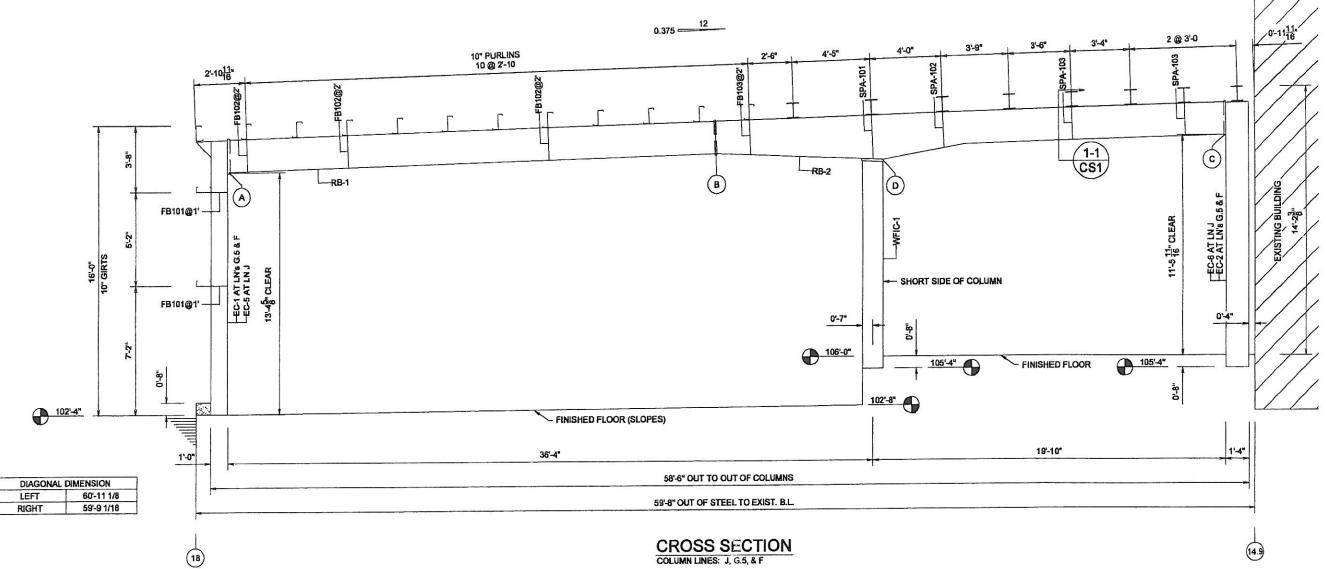
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ORDER NO DRAWN JSA BLO CO95226 17-NOV-09 17-NOV-09

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### REFERENCE NOTES

- 1. BOLTING RECOMMENDATIONS—ALL HIGH STRENGTH
  BOLTS ARE A-325 WITH HEAVY HEX NUTS AND ARE TO
  WHEREVER NECESSARY TO TAKE CARE OF ALL BE INSTALLED USING THE SNUG TIGHT METHOD SPECIFIED IN THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS', PUBLISHED BY RCSC, DATED JUNE 30,2004. SNUG TIGHT CONDITION IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRON WORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PLIES INTO FIRM CONTACT.
- 2. BOLT SPECIFICATIONS ALL BOLTS SPECIFIED THROUGHOUT THESE DRAWINGS WILL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 BOLT SPECIFICATIONS SUBSTITUTION OF MILD STEEL BOLTS 8. FLANGE BRACES ARE REQUIRED ONLY ON ONE SIDE WILL NOT BE ALLOWED AND ANY FIELD SUBSTITUTION OF FRAME, EXCEPT THOSE FLANGE BRACES THAT WILL VOID THE DESIGN WARRANTY.

NUT SPECIFICATIONS - NUTS SPECIFIED THROUGHOUT THESE DRAWINGS WILL BE HIGH STRENGTH NUTS CONFORMING TO ASTM A194 GRADE 2 OR 2H, OR ASTM A563 GRADE C, D, OR DH NUT SPECIFICATIONS. SUBSTITUTION OF MILD STEEL NUTS WILL NOT BE ALLOWED, AND ANY FIELD SUBSTITUTION WILL VOID THE DESIGN WARRANTY.

3. ALL ELEVATION DIMENSIONS ARE TAKEN FROM BOTTOM OF FRAME COLUMN BASE PLATE. REFER TO ANCHOR ROD DRAWING FOR BASE OF COLUMN ELEVATION.

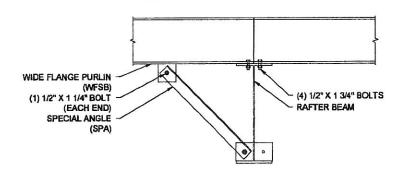
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- 5. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE MARKED.
- 6. ALL DRAWINGS ARE NOT TO SCALE.
- 7. NOTE: \* REFER TO GENERAL DETAILS AND SECTIONS FOR ROOF SHEET OVERHANG AND SPLICE LAP DIMENSIONS.
- ARE PRECEDED WITH A (2)FB... ARE REQUIRED ON BOTH SIDES OF THE FRAME.
- 9. EAVE HEIGHT DIMENSION IS NOT ALWAYS TO THE TOP OF THE EAVE STRUT. DUE TO THERMAL BLOCK SITUATIONS, EAVE HEIGHT DIMENSION AND TOP GIRT SPACE DIMENSION MAY BE TO THE INTERSECTION OF THE TOP OF THE PURLINS. REFER TO THE EAVE DETAILS FOR MORE INFORMATION.
- 10. ALL WELDS HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBF AT MINUS 20 DEGREES F.

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SPLICE BOLT TABLE			
SPLICE	NO	SIZE	DEPTH
A	10	5/8 X 1 1/2	1'-10
В	10	5/8 × 1 1/2	1'-10
C	10	5/8 3 1 1/2	1'-10

5.d X 2

1'-0



REVISIONS	NOTWITHSTANDING THE ADJACENT
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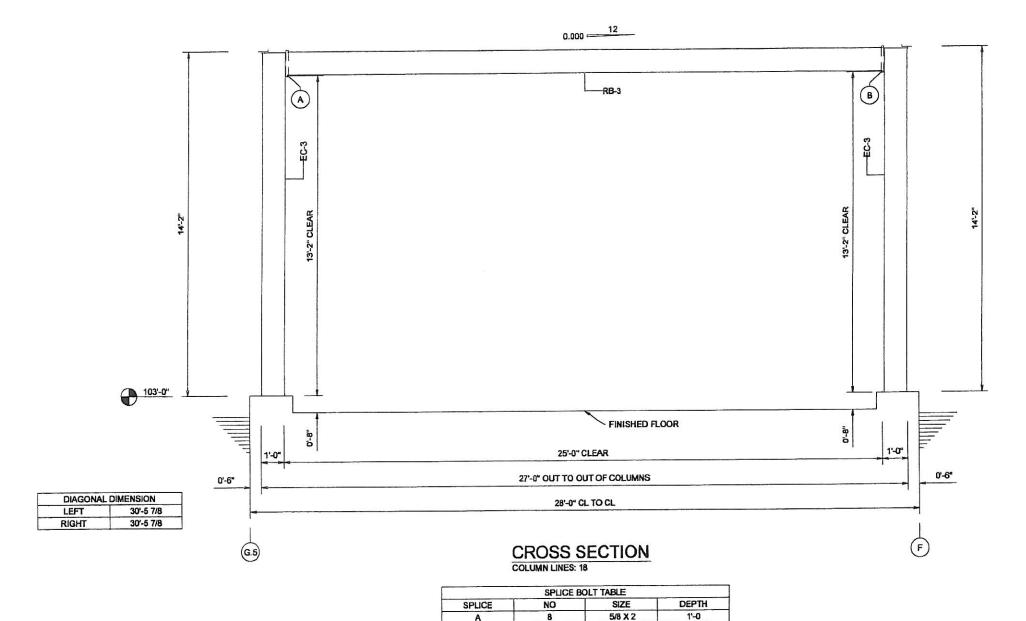
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OF MAILER TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

		_
CHIEF BUILDINGS	<del>-</del>	В
a division of Chief Industries, Inc.	P.O. BOX 2078 GRAND (SLAND, NE 68802-2078	17

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5/8 X 2

1'-0

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REVISIONS	NOTWITHSTANDING THE ADJACENT
<b>A</b>	SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE
<u> </u>	ENGINEER NAMED AND CHIEF BUILDING RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE
<u>^</u>	PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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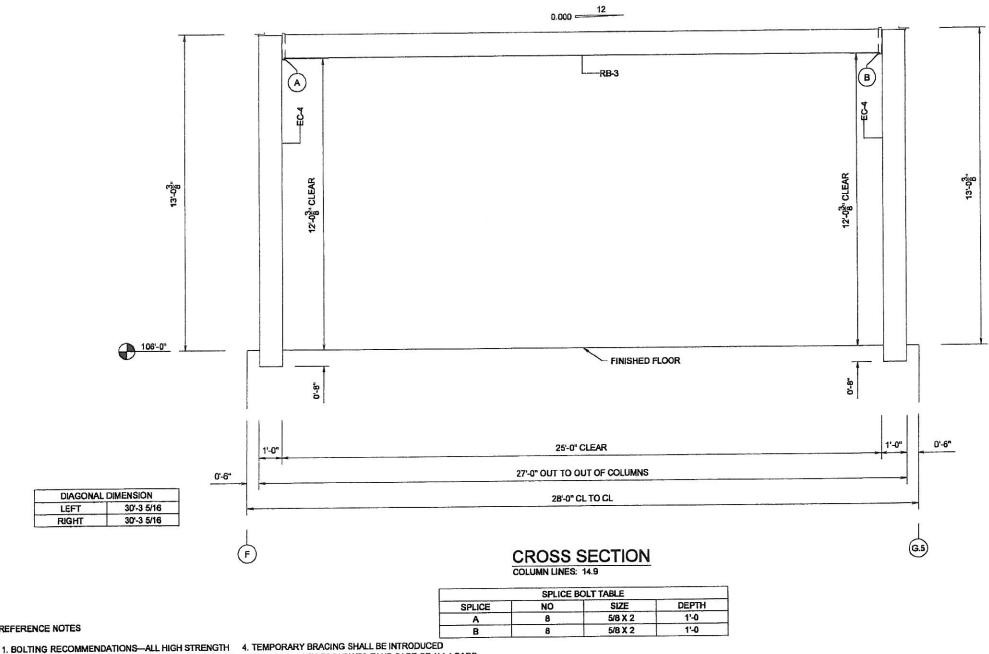
**CROSS SECTION** 

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

CHIEF	P.O. BOX 2078
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**REVISIONS** 

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TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

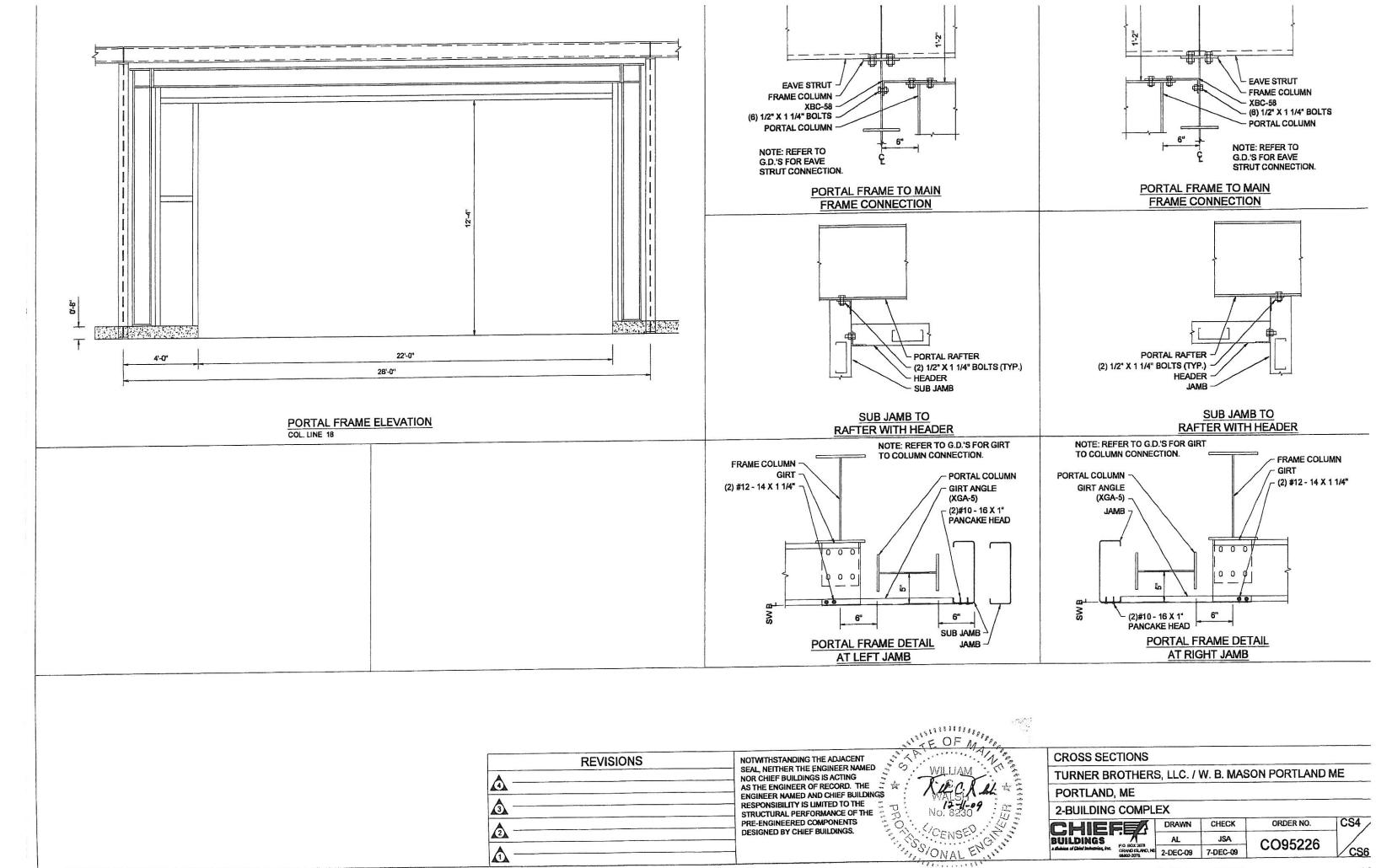
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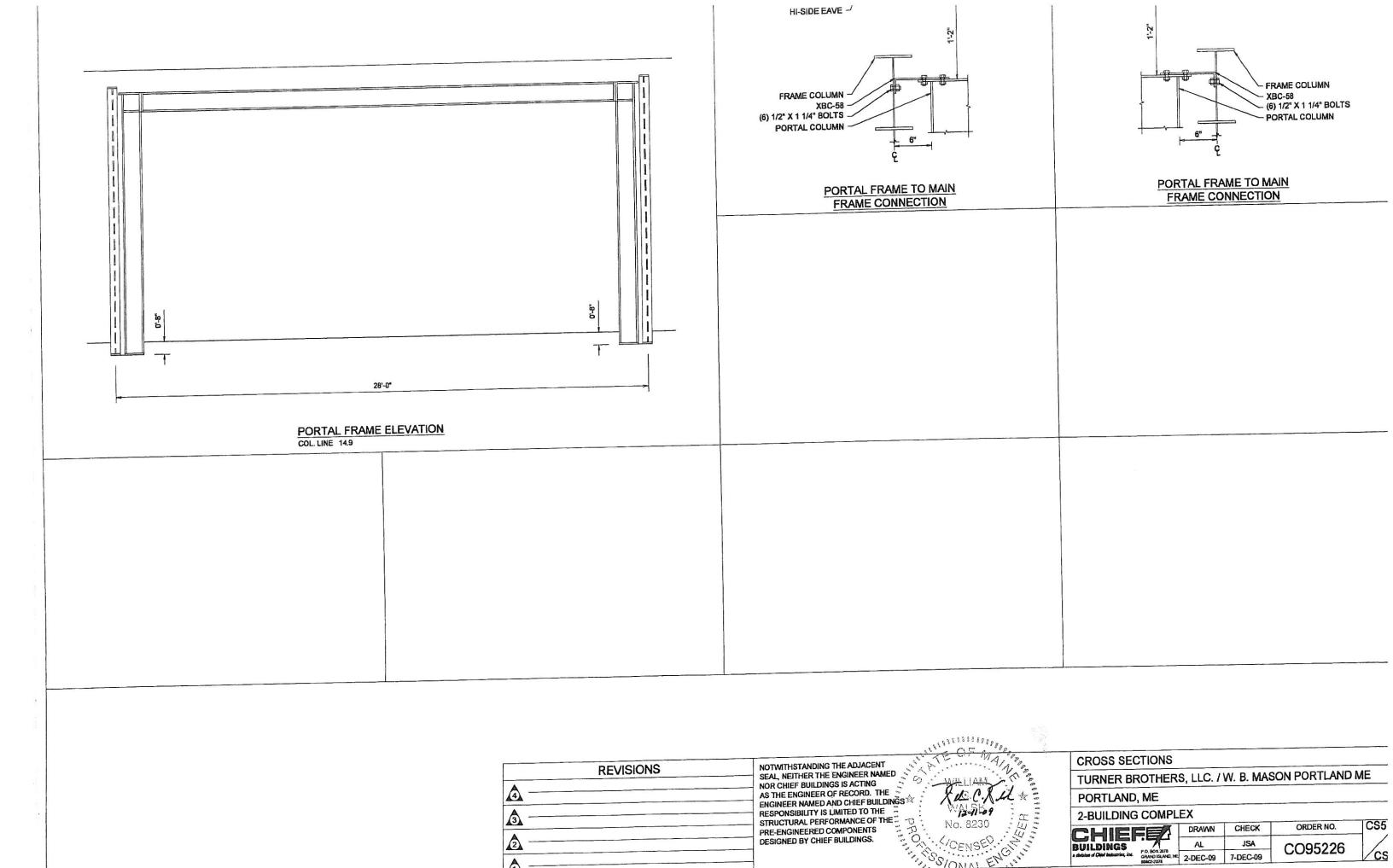
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BUILDINGS	Ро вох 2078	BLC
a district of Chief Industries, Inc.	GRAND ISLAND, NE 68802-2078	17-N

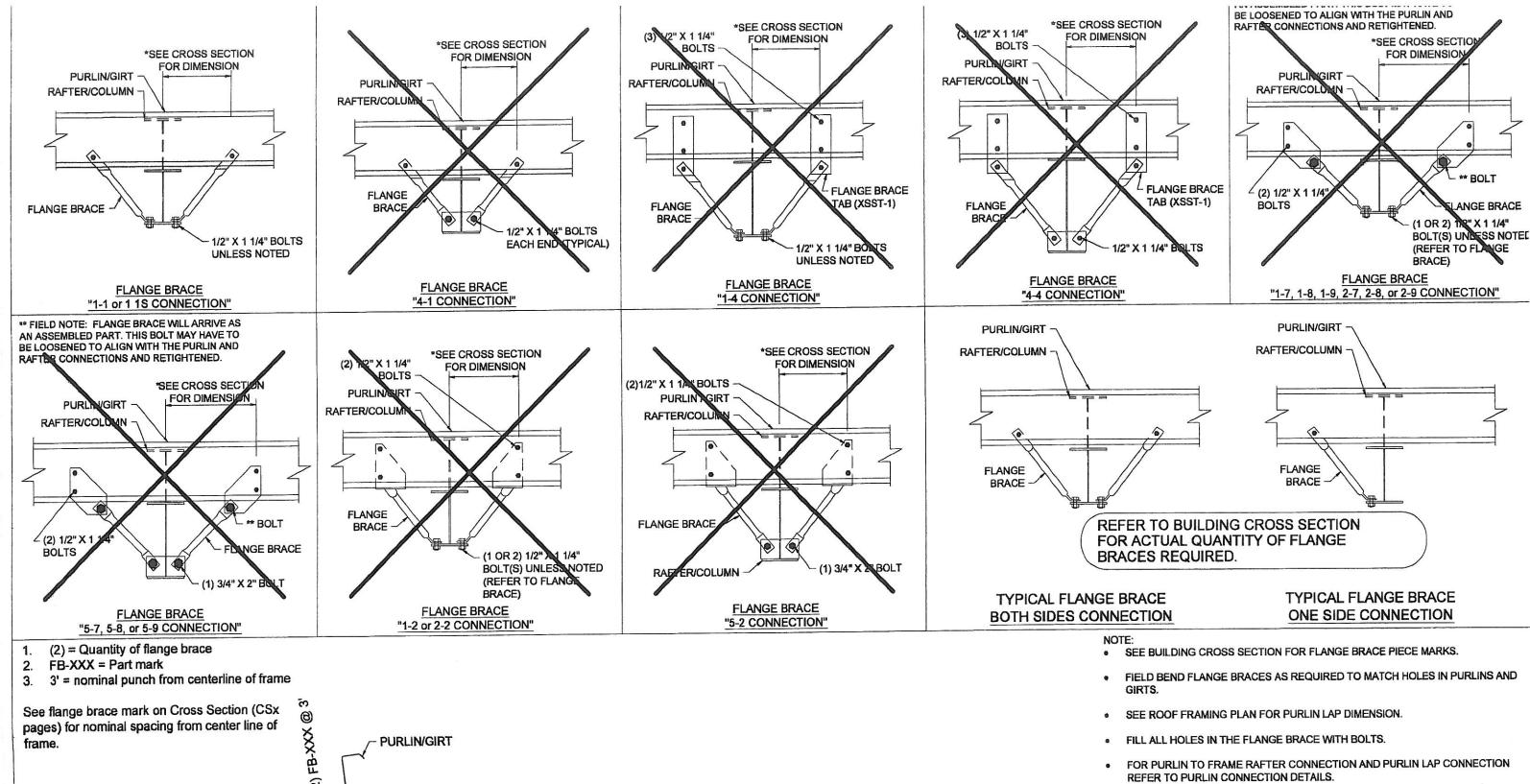
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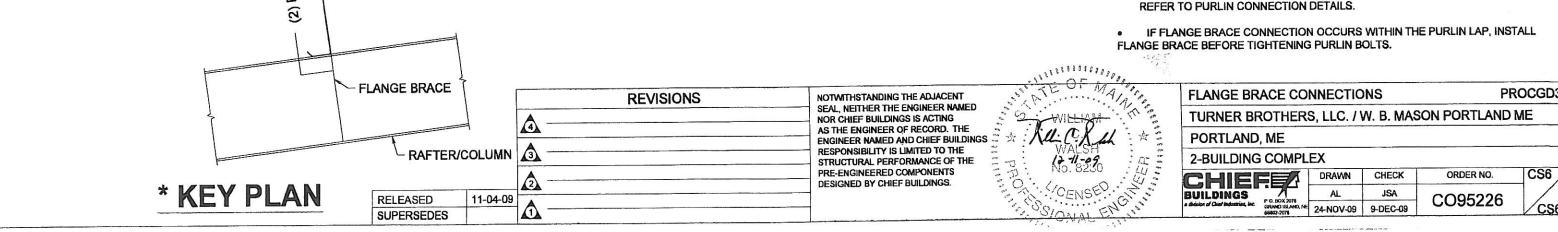
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### Collateral Loads

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## HANGER AT INDIVIDUAL ZEE PURLIN HANGER CONNECTION HANGER AND CONNECTION TO PURLIN ARE NOT BY CHIEF BUILDINGS HANGER BETWEEN ZEE PURLINS MAXIMUM REACTION HANGER AND CONNECTION TO STRUTS ARE NOT BY

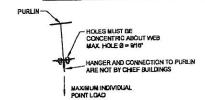
### Collateral Loads

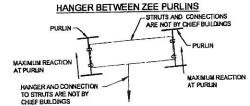
CHIEF BUILDINGS

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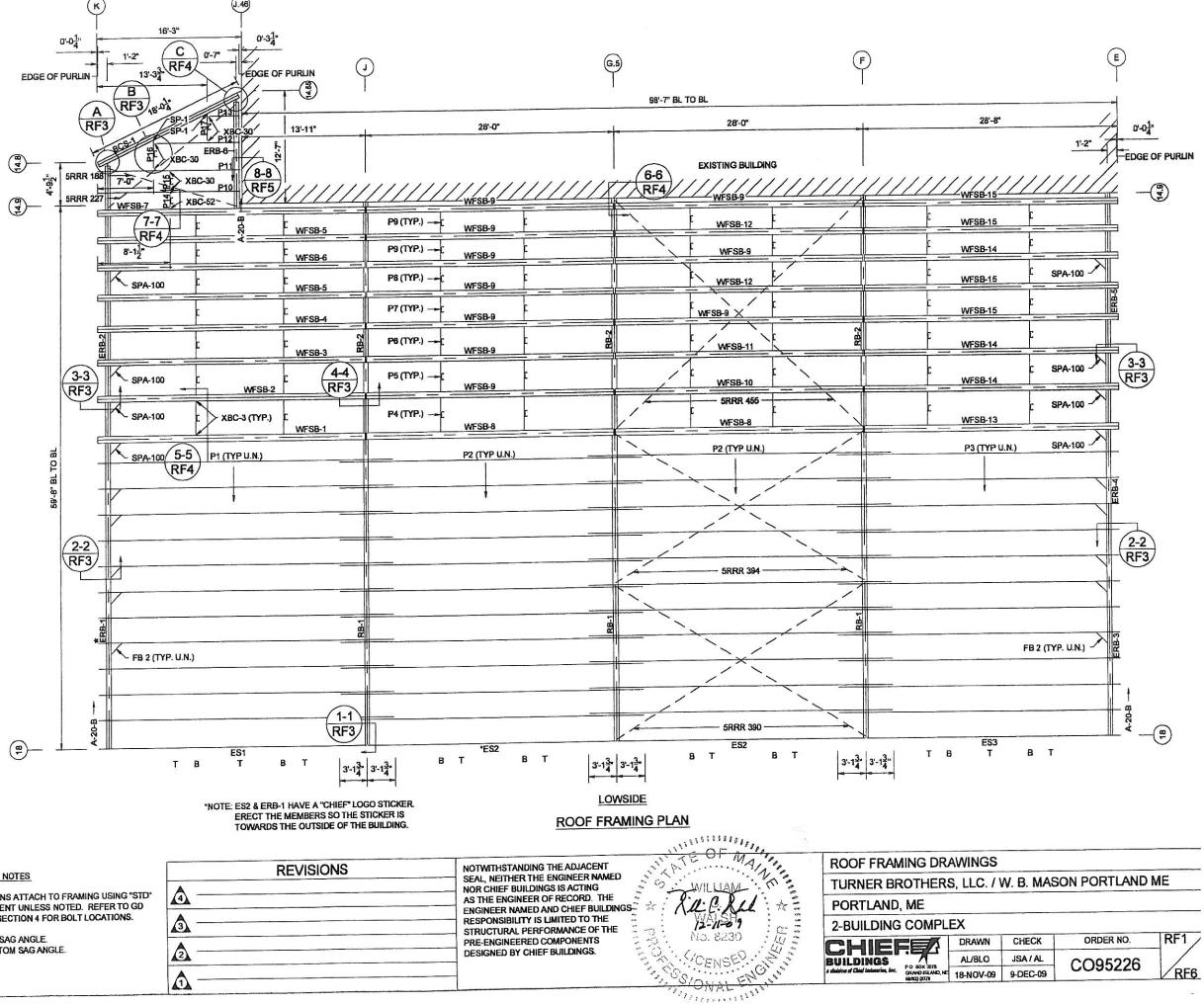
### HANGER AT INDIVIDUAL ZEE PURLIN

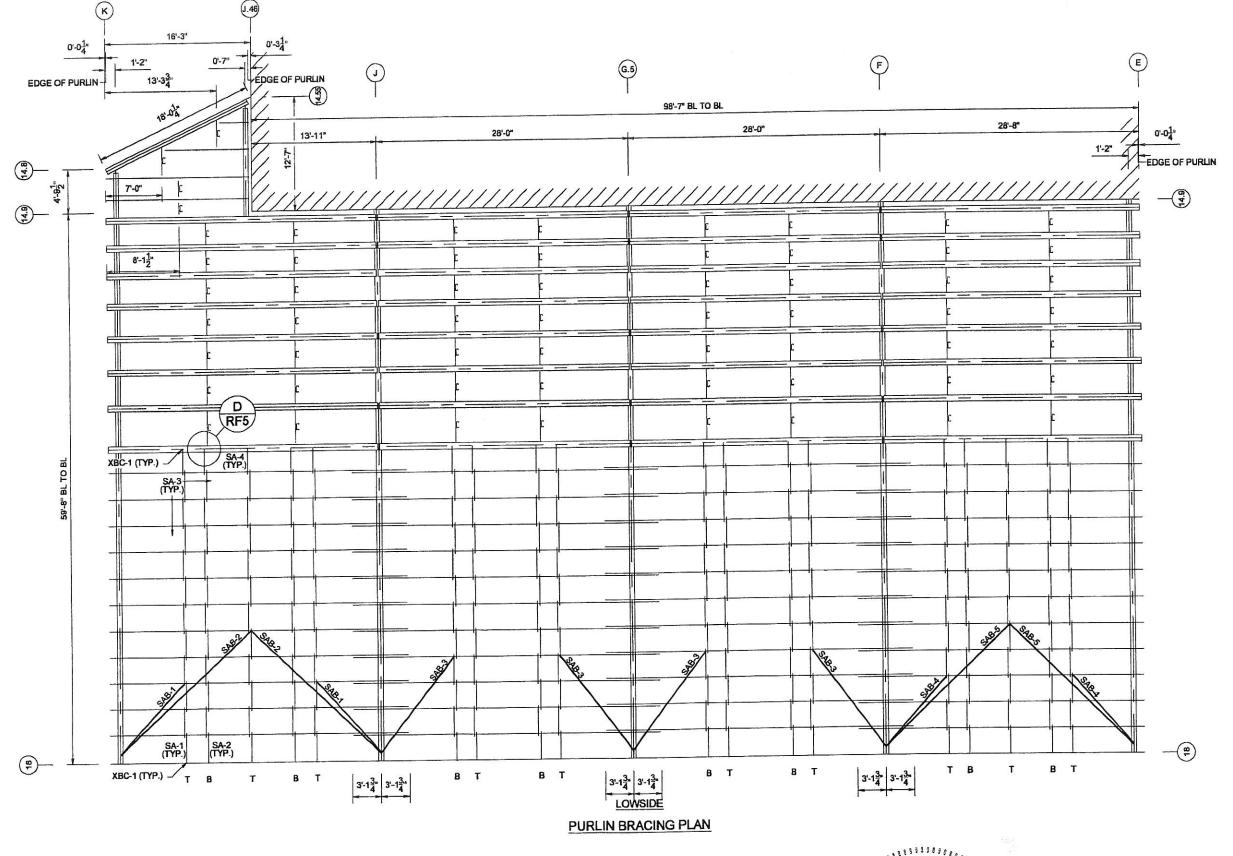




### REFERENCE NOTES

- 1. ALL PURLINS ATTACH TO FRAMING USING "STD" ATTACHMENT UNLESS NOTED. REFER TO GD MANUAL SECTION 4 FOR BOLT LOCATIONS.
- 2. "T" = TOP SAG ANGLE. "B" = BOTTOM SAG ANGLE.





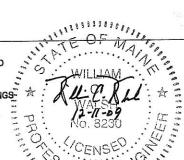
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NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.



ROOF FRAMING DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

CHIEF UILDINGS Section of Chief Industries, Inc.	PO BOX 2078 GRAND ISLAND, NE BAR02-2078	1

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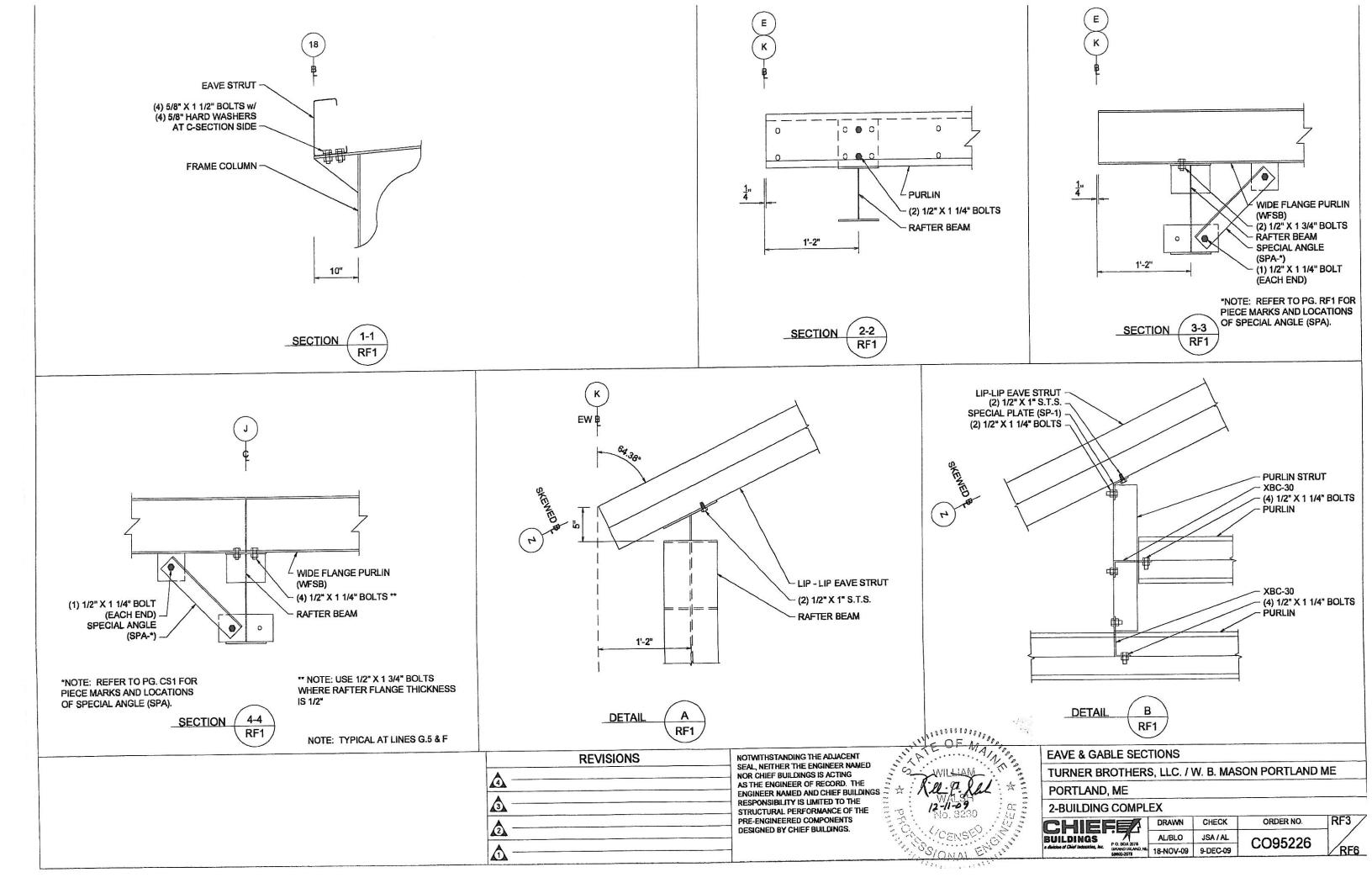
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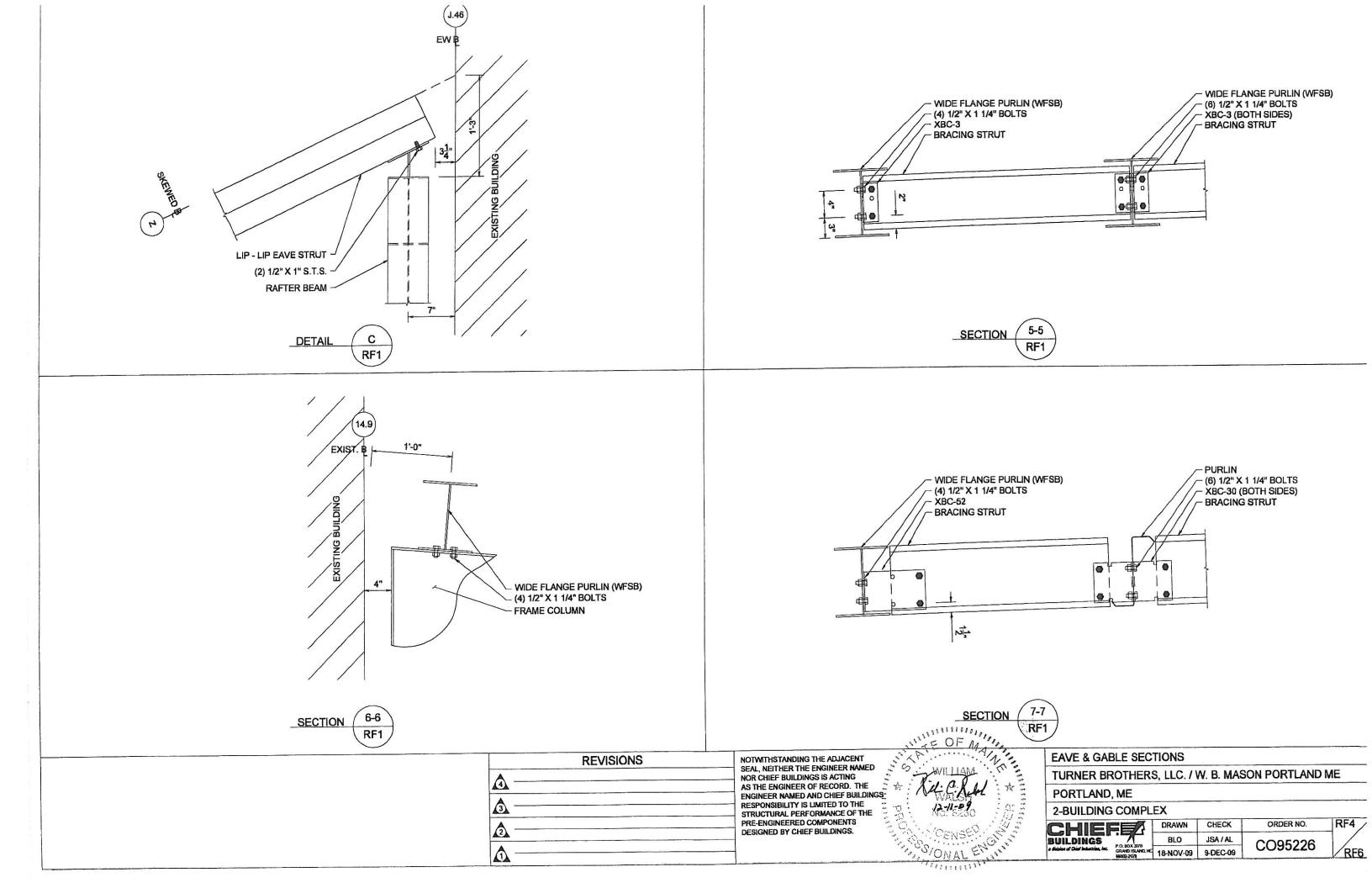
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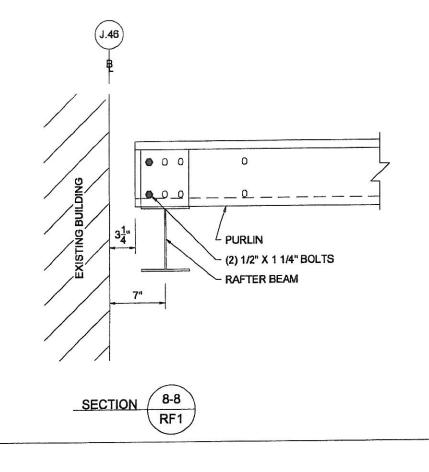
CO95226

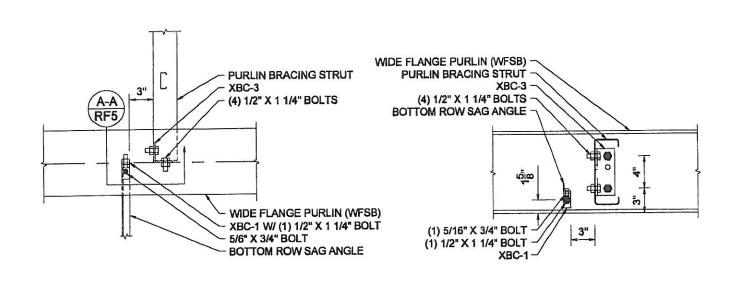
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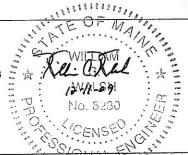




DETAIL D

SECTION A-A RF5

NOTWITHSTANDING THE ADJACENT
SEAL, NEITHER THE ENGINEER NAMED
NOR CHIEF BUILDINGS IS ACTING
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ENGINEER NAMED AND CHIEF BUILDINGS
RESPONSIBILITY IS LIMITED TO THE
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DESIGNED BY CHIEF BUILDINGS.



EAVE & GABLE SECTIONS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

Z-DOILDING	COLVII
CHIEF	P.O. BOX 2078
BUILDINGS	CRANDISLAND, NE
Gérina d'Chief Industries, les	SIBIO2-2078

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NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER. BOLT STRAP TO FRAME BEFORE SCREWING TO PURLIN OR EAVE STRUT.

NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER. BOLT STRAP TO FRAME BEFORE SCREWING TO PURLIN OR EAVE STRUT.

NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER. BOLT STRAP TO FRAME BEFORE SCREWING TO PURLIN OR EAVE STRUT.

NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER. BOLT STRAP TO FRAME BEFORE SCREWING TO PURLIN OR EAVE STRUT.

FRAME RAFTER

1/4" BOLT

TOP ROW SAG ANGL

\*\*(1)1/2<sup>3</sup>

**PURLIN** 

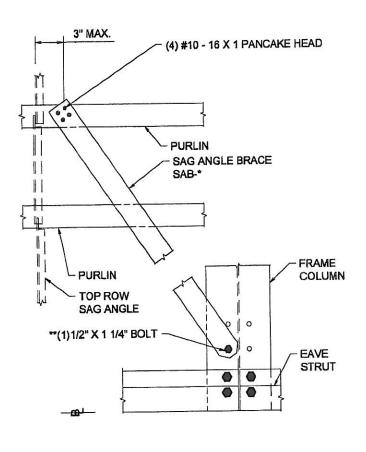
SAG ANGLE BRACE

SAB-\*

PURLIN

PURLIN

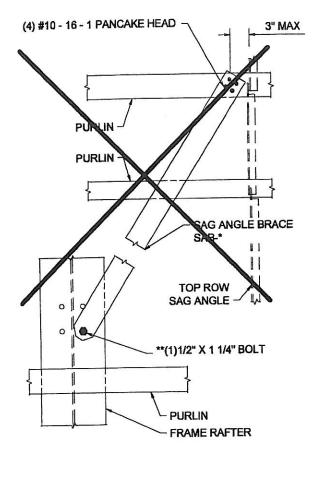
(4) #10 - 16 X 1 PANCAKE HEAD



FLAT STRAP CONNECTION

**ENDING AT COLUMN** 

FRAME RAFTER PURLIN "(1)1/2" X 1/4" BOLT NGLE BRACE TOP ROW SAG ANGLE (4) # 10 - 16 X 1 PANCAKE HEAD **EAVE STRUT** 3" MAX **FLAT STRAP CONNECTION** 

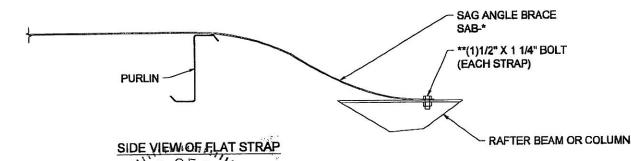


FLAT STRAP CONNECTION

ENDING AT FRAME RAFTER



SAG ANGLE BRACE SAB-\* (1)1/2" X 1 1/4" BOLT (EACH STRAP) XHRS-1\* PURLIN **PURLIN** (4)1/2" X 1 1/4" BOLT (TYP.) OR RAFTER BEAM OF COLUMN (4)1/2" X 1 3/4" BOLTS REQ'D WITH SIDE VIEW OF FLAT STRAP WITH SPACER FLANGES OVER 3/8" THICK



3" MAX

OF MAN NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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FLAT STRAP SAG ANGLE BRACING INSTALLATION TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

ORDER NO. CHECK CHIEF. DRAWN JSA CO95226 SRAND ISLAND, NE 24-NOV-09 9-DEC-09

RF6

RF6

### NOTE:

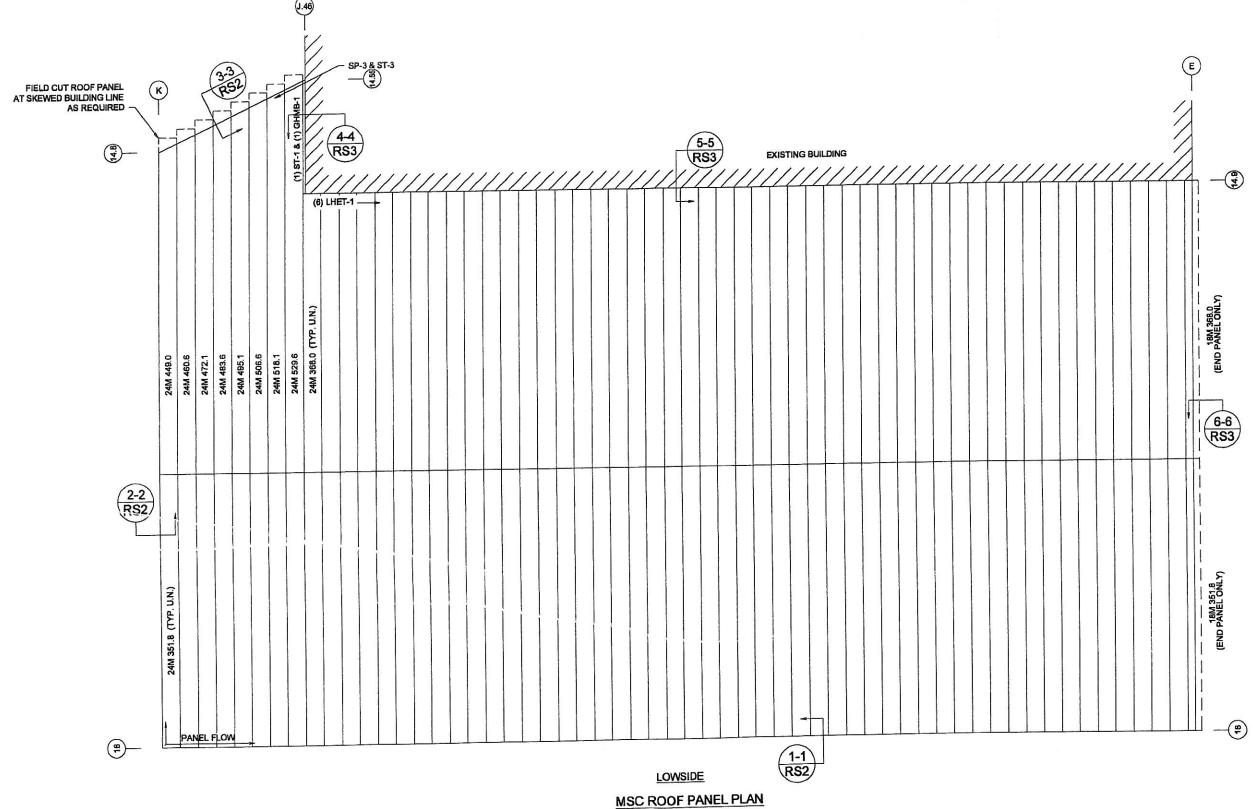
- THE DETAILS ON THIS PAGE OVERRIDE DETAILS IN THE GENERAL DETAILS MANUAL
- SAG ANGLE BRACING IS TO BE PLACED ON THE TOP OF THE PURLINS AND BENT DOWN TO THE RAFTER/COLUMN
- TERMINATION OF THE STRAP AT THE PURLINS IS TO BE WITHIN 3" OF THE TOP ROW SAG ANGLE.

REFER TO ROOF BRACING PLAN FOR LOCATIONS AND CALLOUTS. \*\*- 1/2" X 1 3/4" BOLTS MAY BE REQUIRED AT FLANGES THAT ARE 5/8" AND THICKER.

4 3 02-13-07 RELEASED 02-14-06 **SUPERSEDES** 

REVISIONS

**ENDING AT EAVE STRUT** 

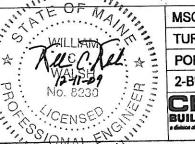


REFERENCE NOTES: ROOF SHEETING SYSTEM IS BASED ON THE FOLLOWING: 1. FLOATING SYSTEM 2. HIGH SYSTEM

3. SLIDING CLIPS WITH (2) 1/4" - 14 x 1-1/2" FASTENERS PER CLIP AT PURLINS AND (2) #12 - 24 x 1 1/2" FASTENERS PER CLIP AT WIDE FLANGE PURLINS, UNLESS OTHERWISE NOTED.

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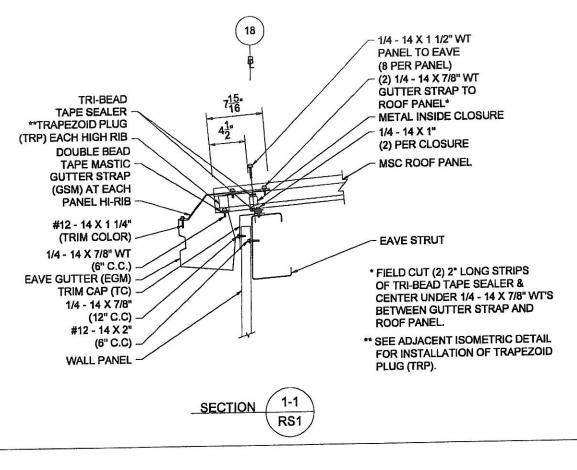


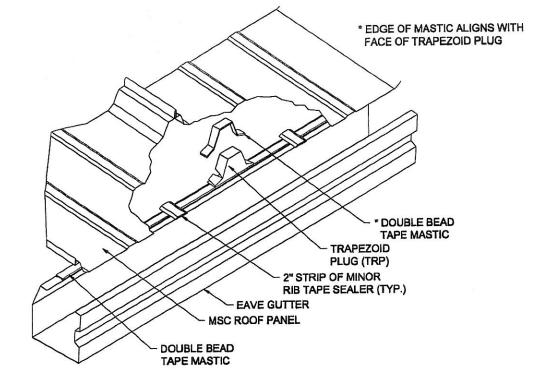
### MSC ROOF PANEL PLAN

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

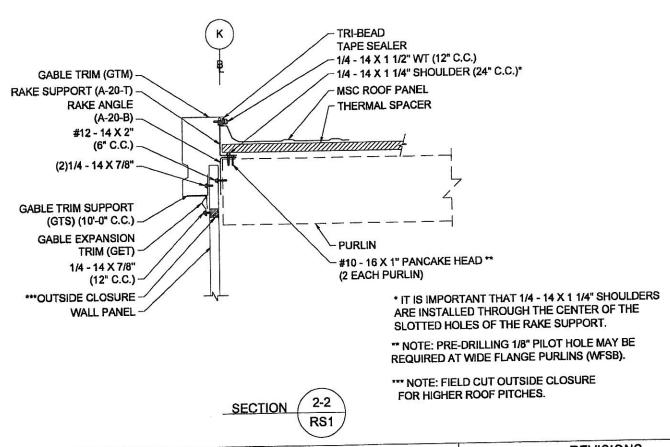
PORTLAND, ME

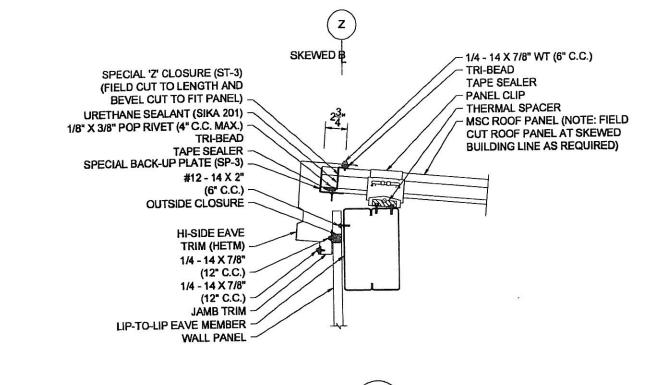
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### TRAPEZOID PLUG INSTALLATION WITH GUTTER





REFERENCE NOTE:

REFER TO ROOF MANUAL DETAILS FOR SEALANTS AND SEALANT PLACEMENT.

REVISIONS

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS: RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS. SIONAL

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**EAVE & GABLE SECTIONS** 

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

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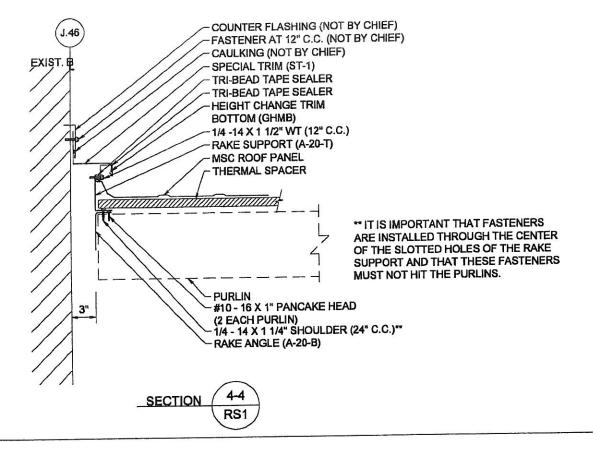
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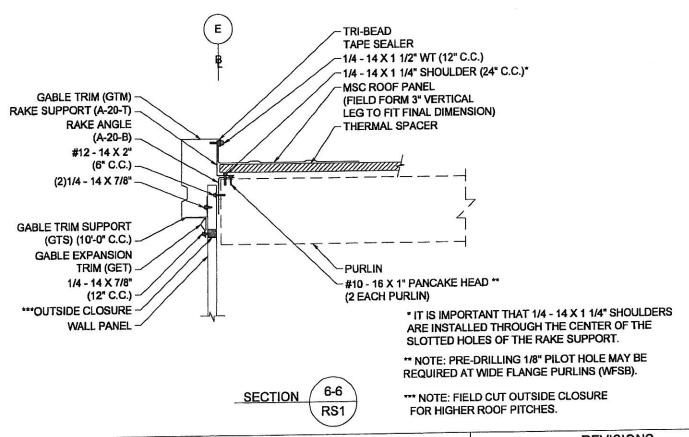
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ORDER NO. CHECK CO95226 9-DEC-09

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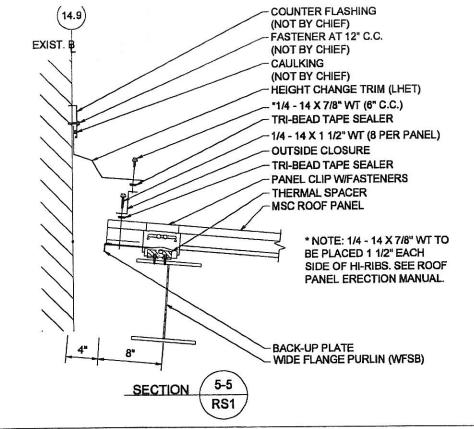
RS5

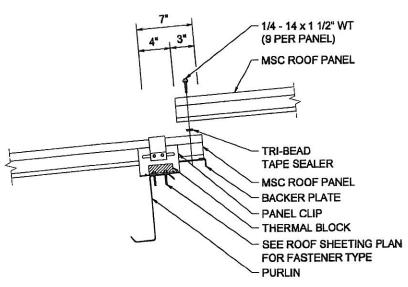




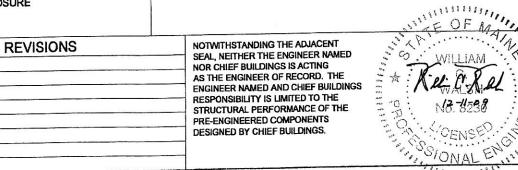
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MSC ROOF PANEL SPLICE DETAIL



**EAVE & GABLE SECTIONS** 

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

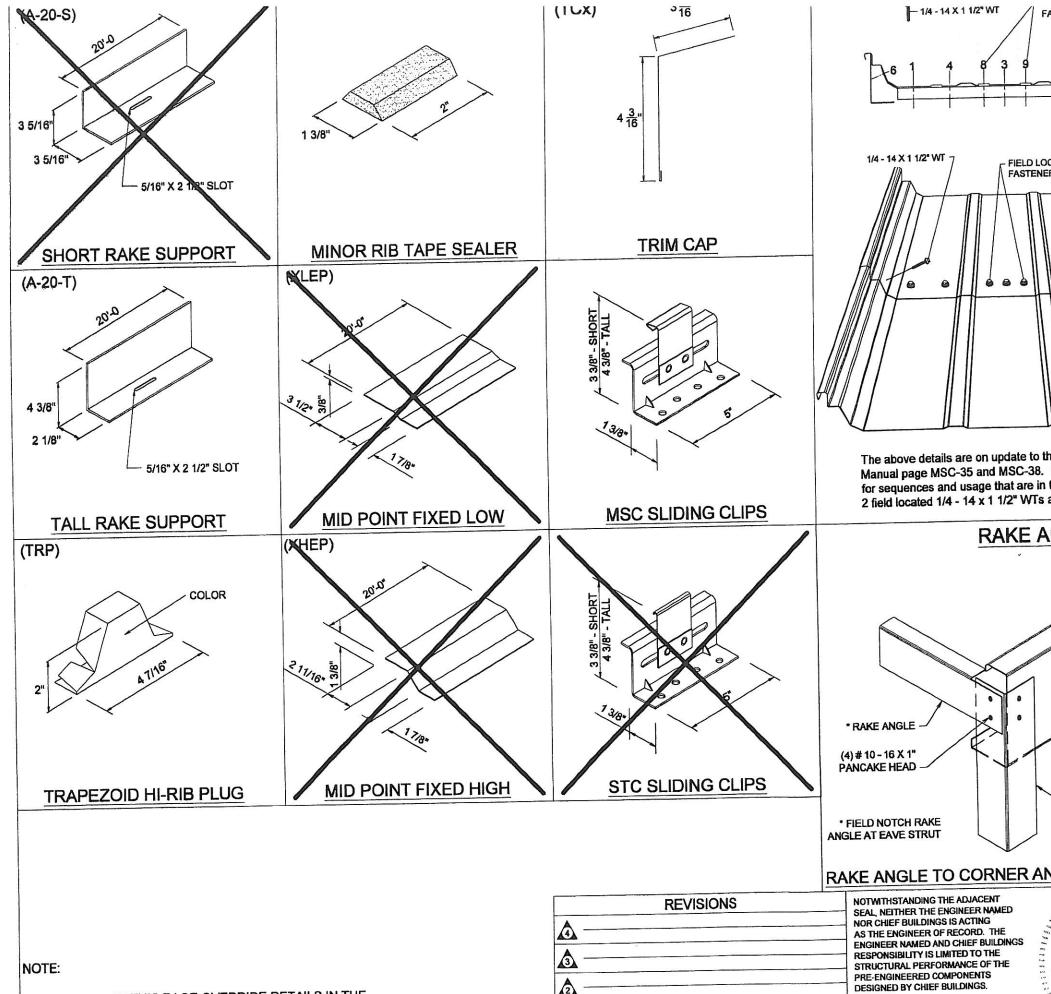
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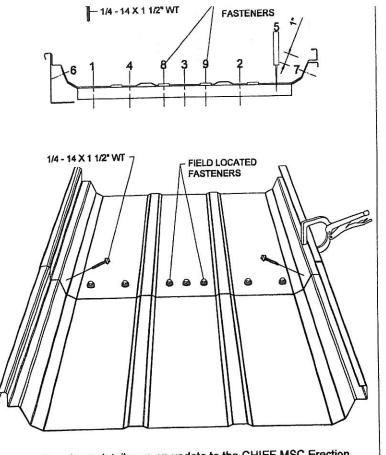
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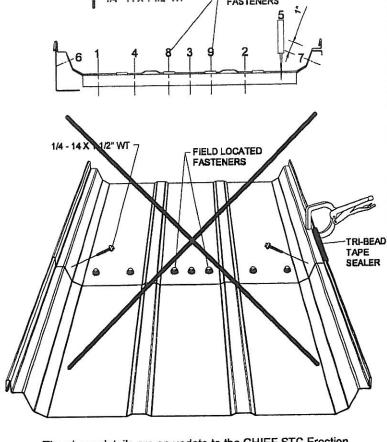
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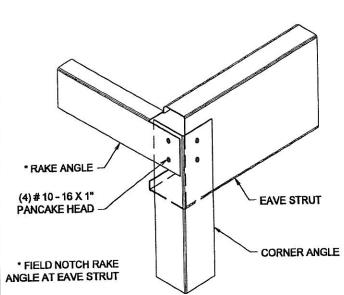


The above details are on update to the CHIEF MSC Erection Manual page MSC-35 and MSC-38. Follow the instructions for sequences and usage that are in the manual - adding the 2 field located 1/4 - 14 x 1 1/2" WTs as the last step.



The above details are on update to the CHIEF STC Erection Manual page STC-35 and STC-38. Follow the instructions for sequences and usage that are in the manual - adding the 2 field located 1/4 - 14 x 1 1/2" WTs as the last step.

### RAKE ANGLE CONDITIONS AT EAVE STRUT



\*\* RAKE ANGLE EAVE STRUT (4) # 10 - 16 X 1" \*\* FIELD NOTCH RAKE PANCAKE HEAD ANGLE AND BEND A TAB AT EAVE STRUT **CORNER ANGLE** 

### RAKE ANGLE TO CORNER ANGLE CONNECTION

RAKE ANGLE TO EAVE STRUT CONNECTION

UPDATED STC/MSC DETAILS

STC-PROCGD TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

RS4

RS5

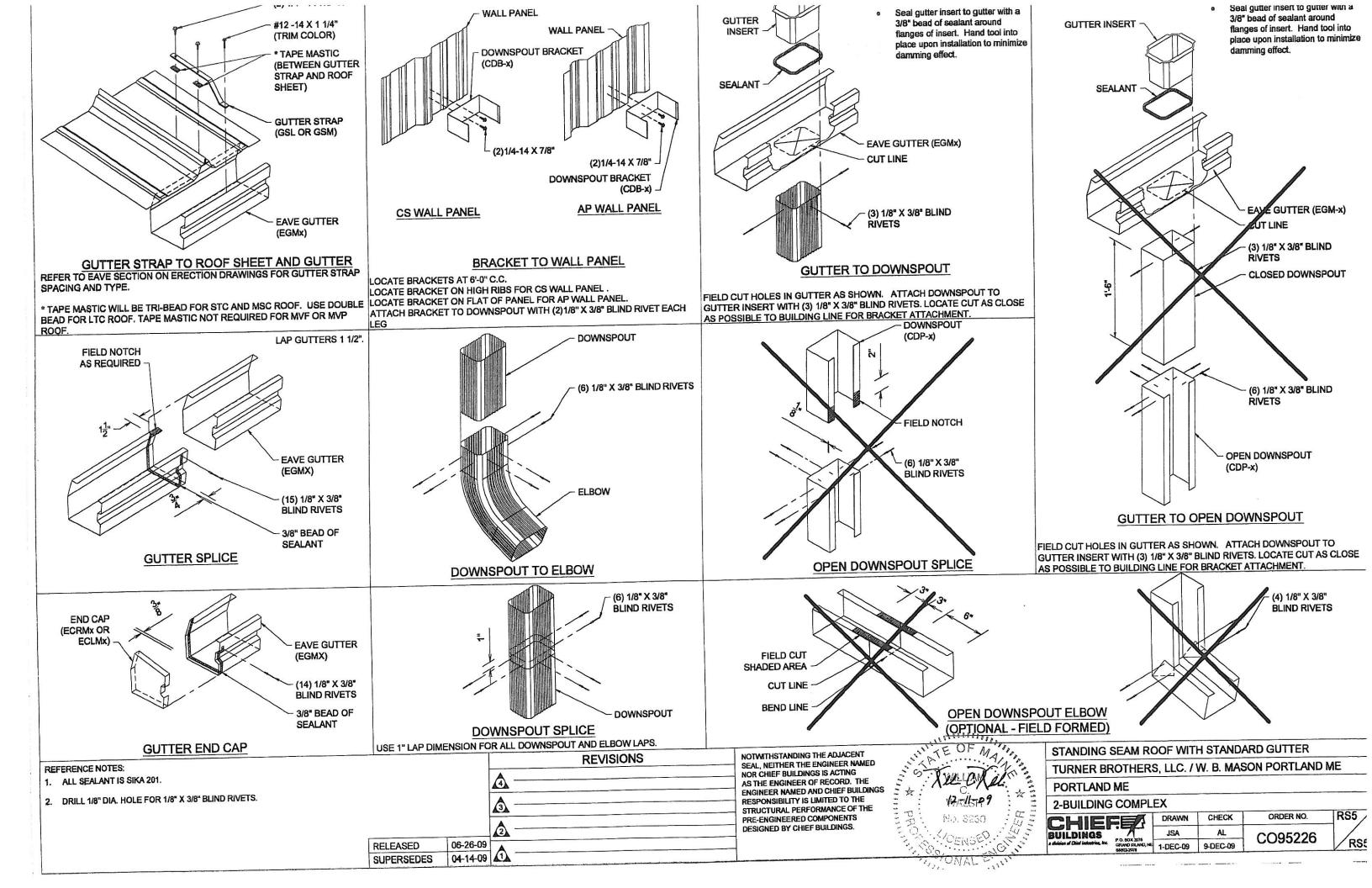
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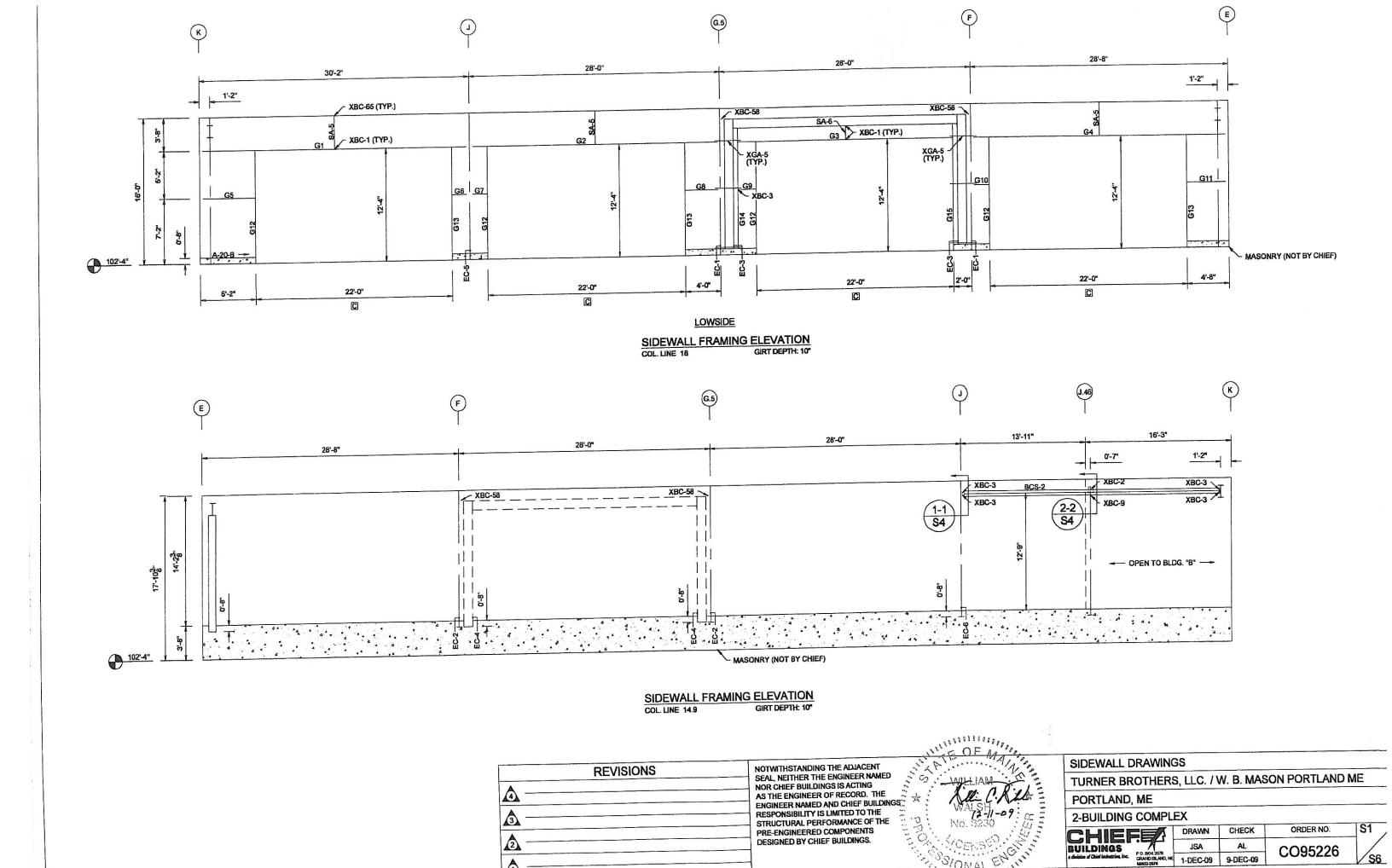
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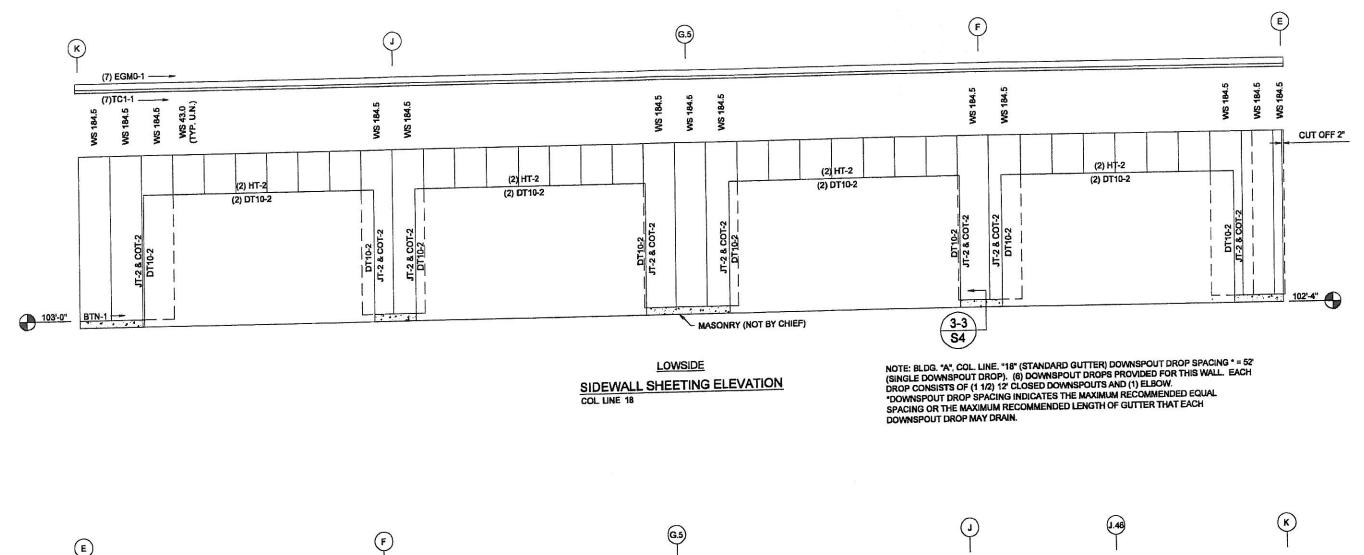
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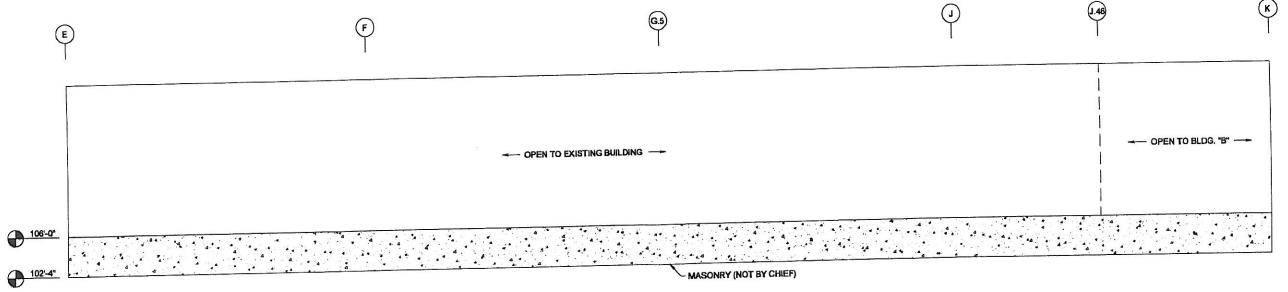
THE DETAILS ON THIS PAGE OVERRIDE DETAILS IN THE STC/MSC ERECTION MANUAL.

04-07-08 RELEASED 12-18-07 SUPERSEDES







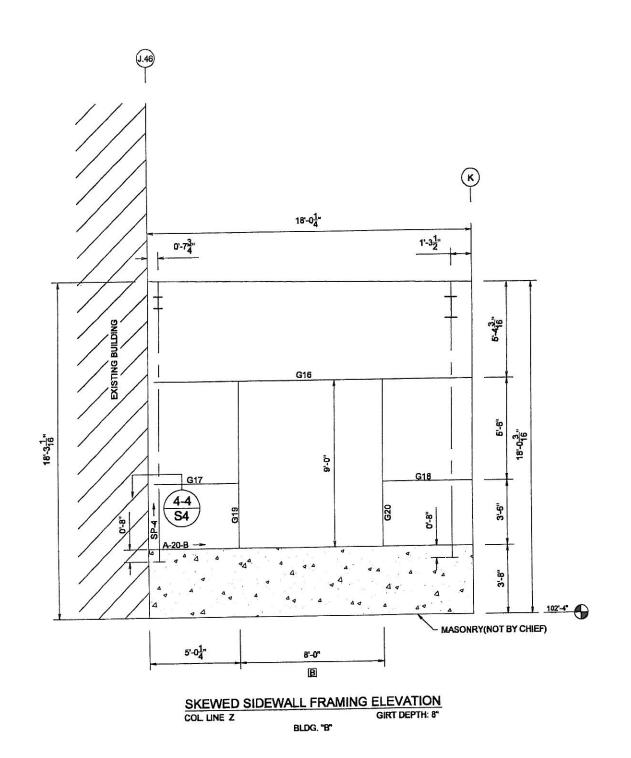


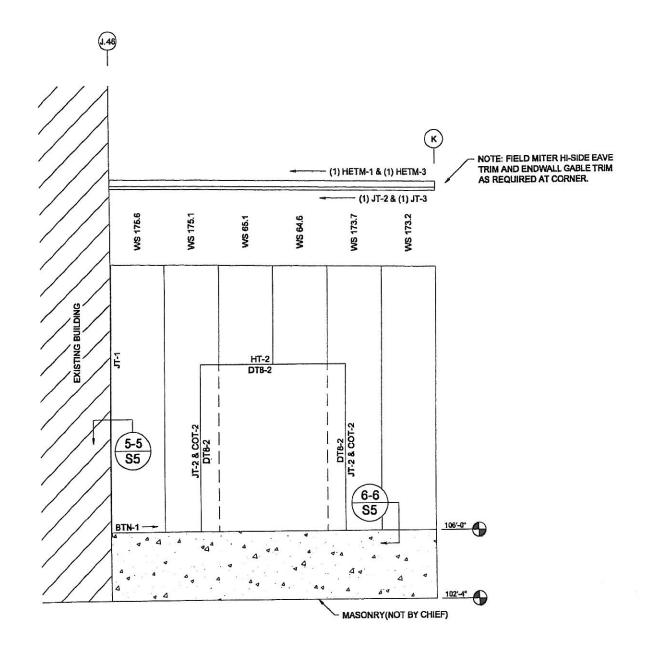
### SIDEWALL SHEETING ELEVATION COL LINE 14.9

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REFERENCE NOTES

1. FOR OPENING TRIMS, REFER TO GENERAL DETAILS.





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DESIGNED BY CHIEF BUILDINGS.

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SIDEWALL DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

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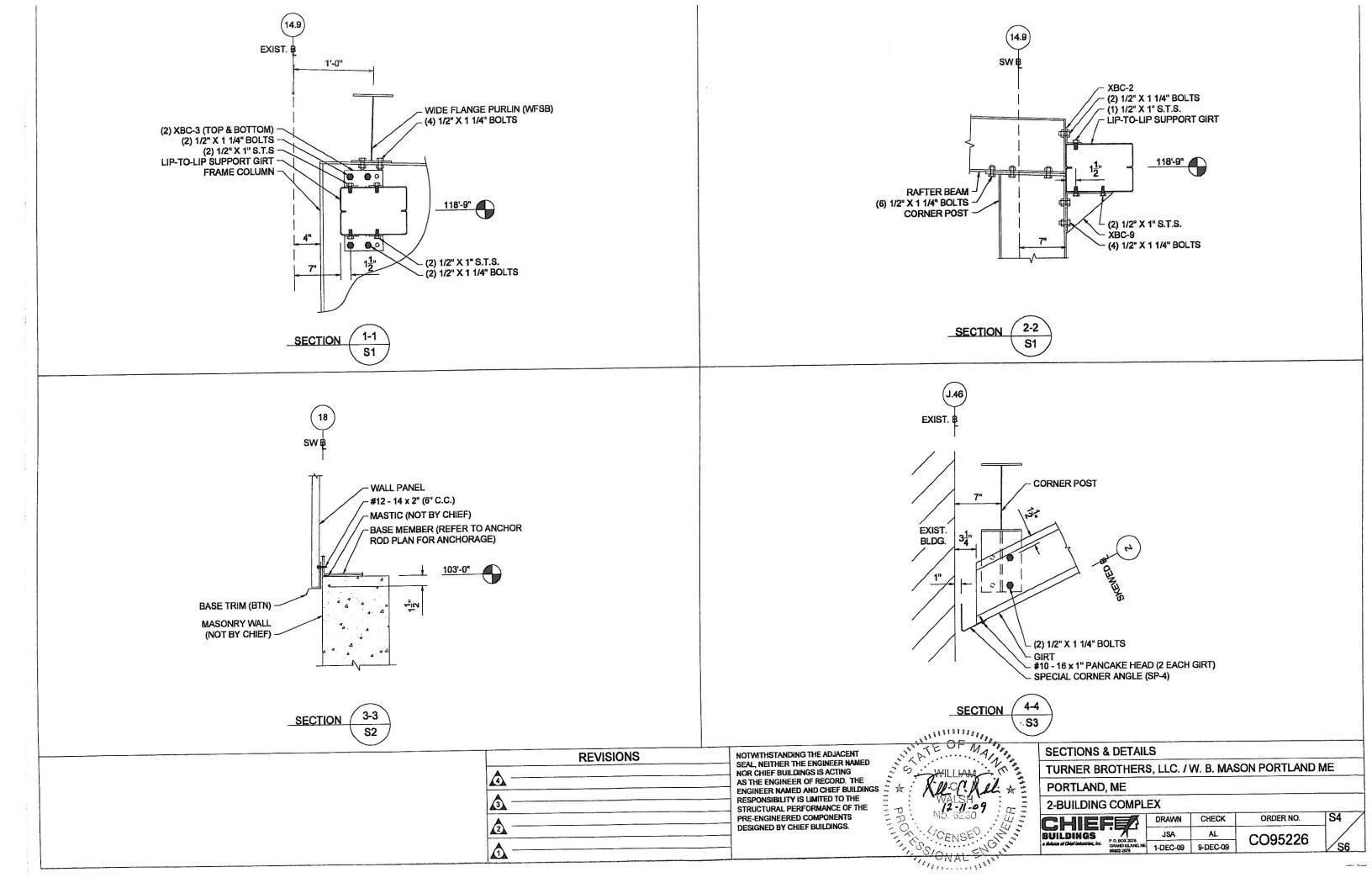
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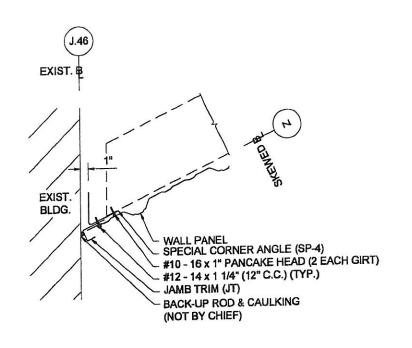
1-DEC-09

9-DEC-09

REFERENCE NOTES

1. FOR OPENING TRIMS, REFER TO GENERAL DETAILS.





SECTION **S3** 

> -PORTAL FRAME RAFTER - XBC-1 -1/2" X 1 1/4" BOLT -5/16" X 3/4" BOLT (TYP.) SAG ANGLE

TYPICAL SAG ANGLE CONNECTION AT CEE GIRT

SAG ANGLE TO PORTAL FRAME RAFTER

4

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED **REVISIONS** NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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SECTION

BASE TRIM (BTN) -

MASONRY WALL (NOT BY CHIEF)

- WALL PANEL -#12 - 14 x 2" (6" C.C.) -MASTIC (NOT BY CHIEF)

- BASE MEMBER (REFER TO ANCHOR ROD PLAN FOR ANCHORAGE)

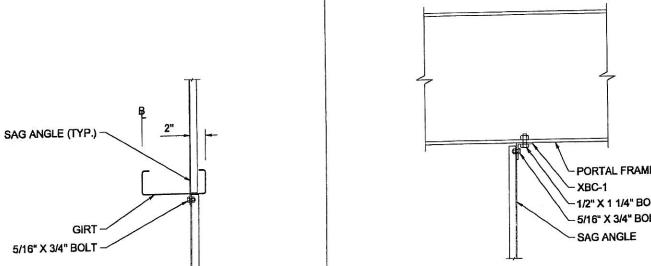
106'-0"

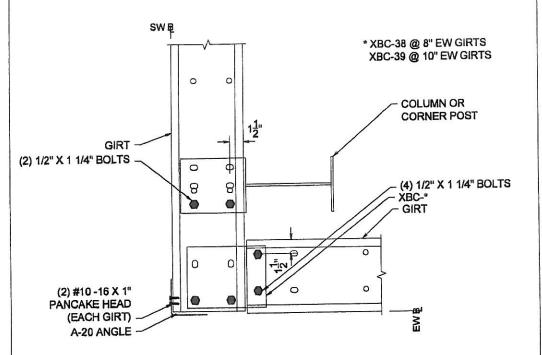
**SECTIONS & DETAILS** 

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

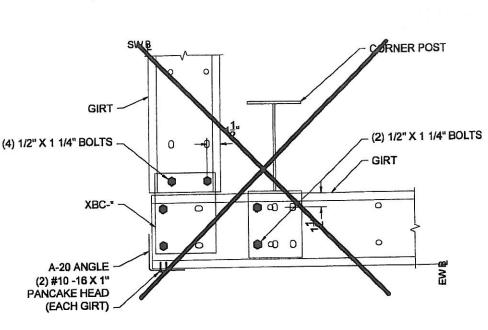
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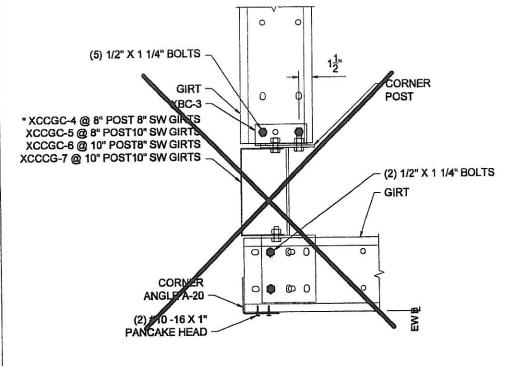


# GIRT TO GIRT CONNECTION OUTSET SIDEWALL / OUTSET ENDWALL

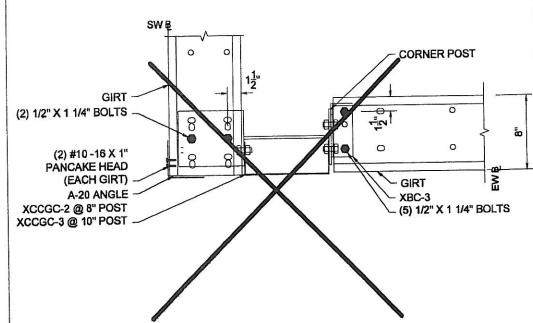


\* XBC-38 @ 8" EW GIRTS XBC-39 @ 10" EW GIRTS

GIRT TO GIRT CONNECTION AT ROTATED CORNER POST



GIRT TO ROTATED CORNER POST INSET SIDEWALL / OUTSET ENDWALL

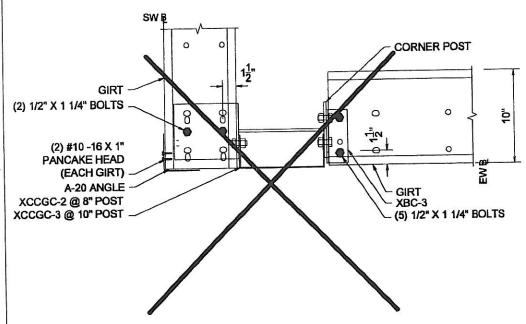


GIRT TO CORNER POST
OUTSET SIDEWALL / INSET ENDWALL

RELEASED

SUPERSEDES

11-30-09



# GIRT TO CORNER POST OUTSET SIDEWALL / INSET ENDWALL

NOTE:

THE DETAILS ON THIS PAGE OVERRIDE DETAILS IN THE GENERAL DETAILS MANUAL.

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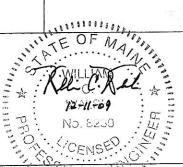
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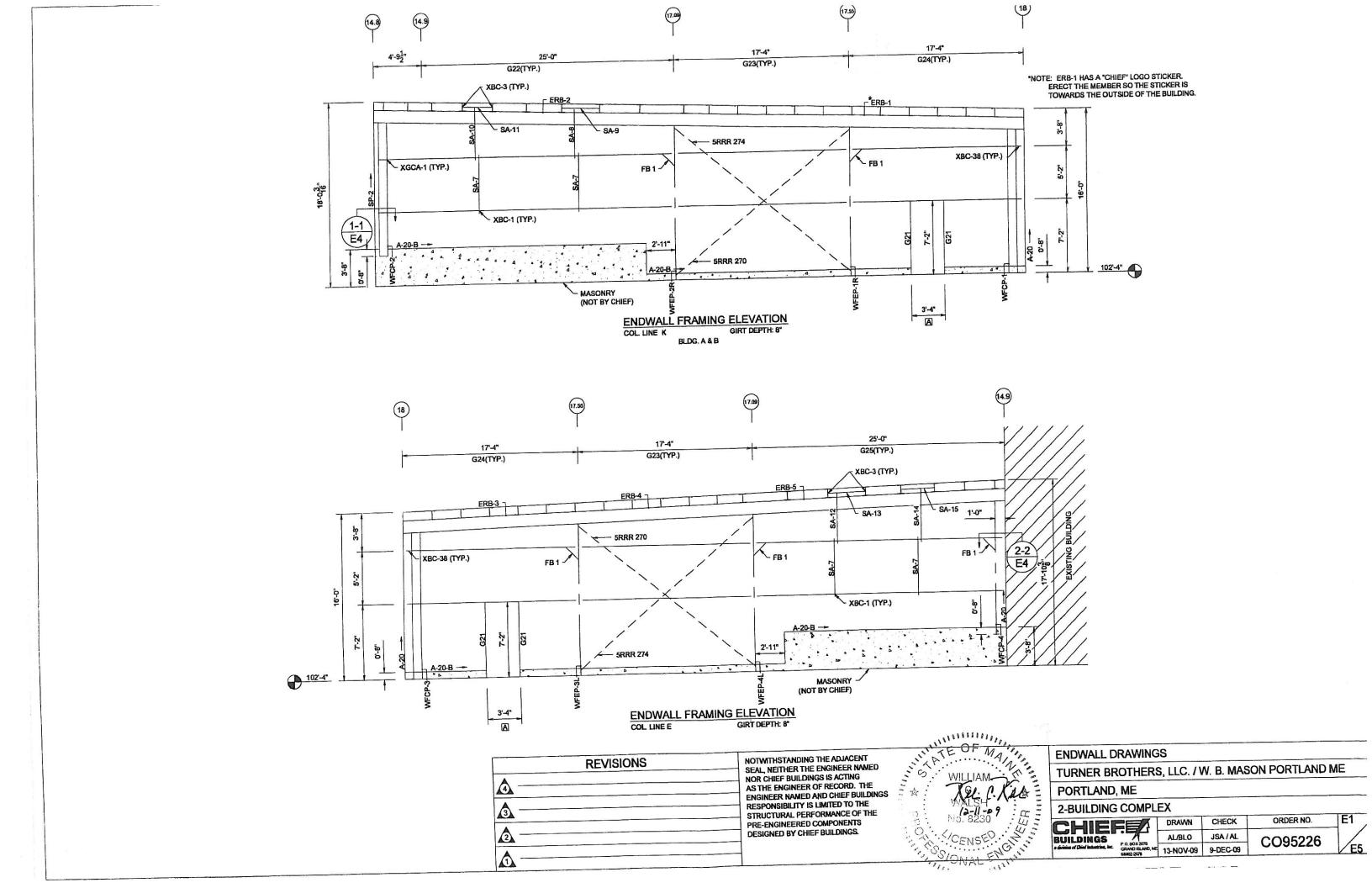
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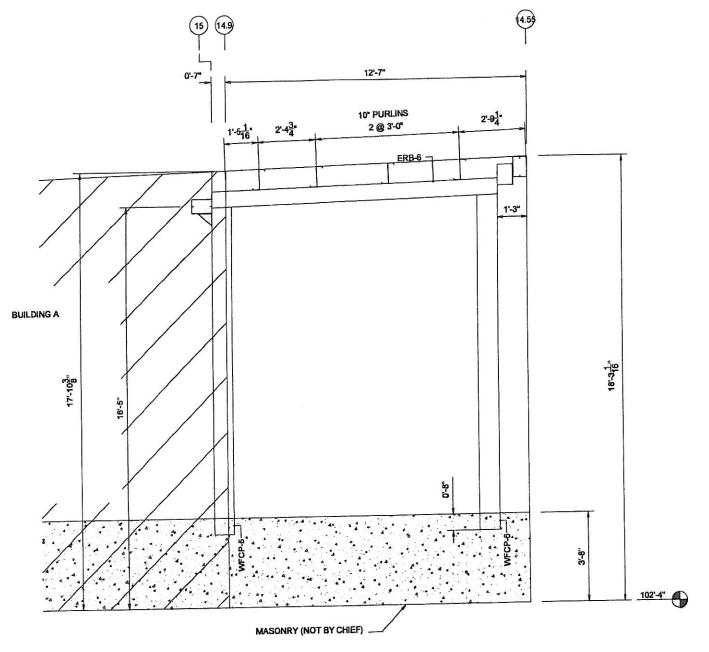


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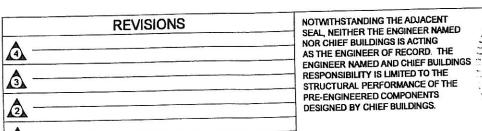
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a division of Chief Industries, Inc.	P.O. BOX 2078 GRAND ISLAND, NE 68802-2078	3-DEC-09	9-DEC-09	CO33220





ENDWALL FRAMING ELEVATION COL LINE J.46 BLOG. B



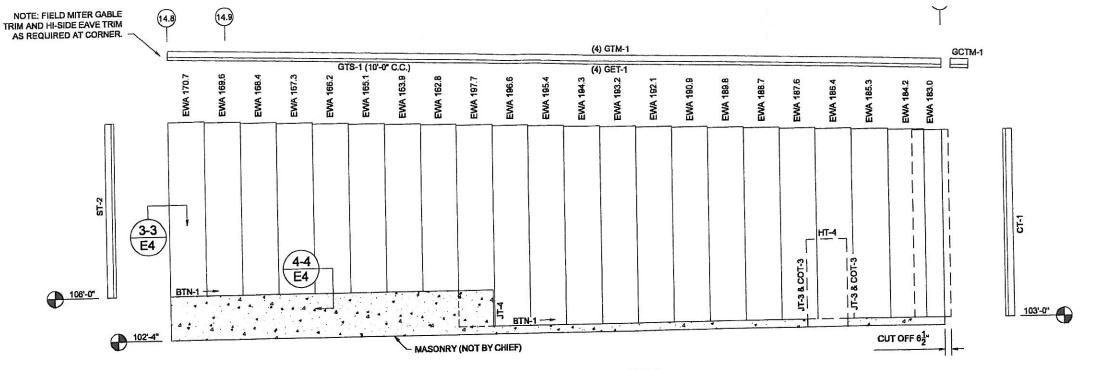


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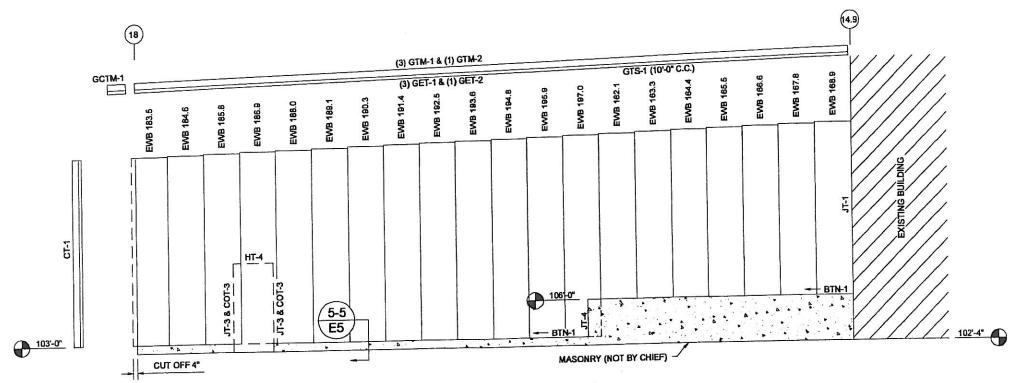
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## ENDWALL SHEETING ELEVATION COL. LINE K



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### ENDWALL DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

OF MAIN

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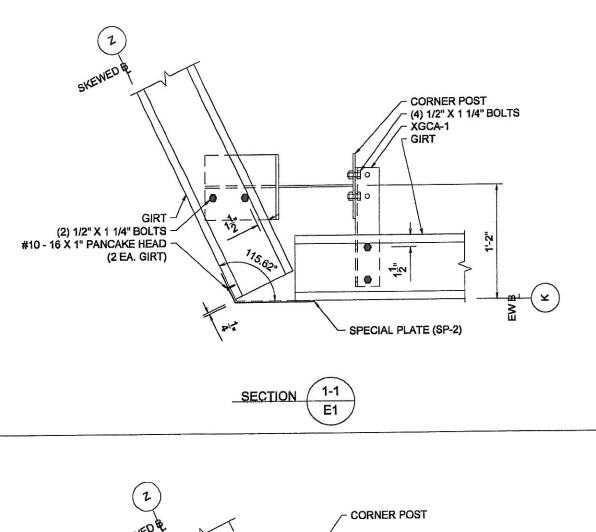
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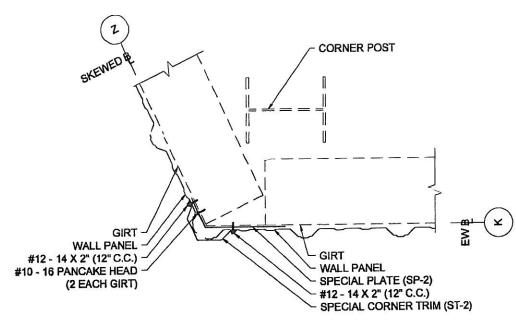
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REFERENCE NOTES

1. FOR OPENING TRIMS, REFER TO GENERAL DETAILS.







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**REVISIONS** 

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CORNER POST -(2) 1/2" X 1 1/4" BOLTS -

CORNER ANGLE (A-20) + #10 - 16 X 1" PANCAKE HEAD (2 EA. GIRT)

BASE TRIM (BTN)

MASONRY WALL (NOT BY CHIEF)

4-4 SECTION

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-WALL PANEL -#12 - 14 x 2" (6" C.C.) - MASTIC (NOT BY CHIEF)

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**SECTIONS & DETAILS** 

BASE MEMBER (REFER TO ANCHOR ROD PLAN FOR ANCHORAGE)

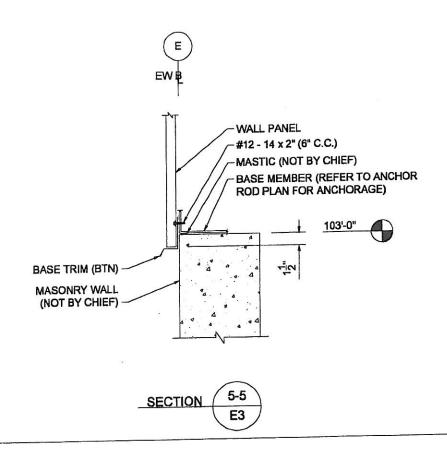
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TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

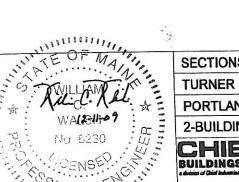
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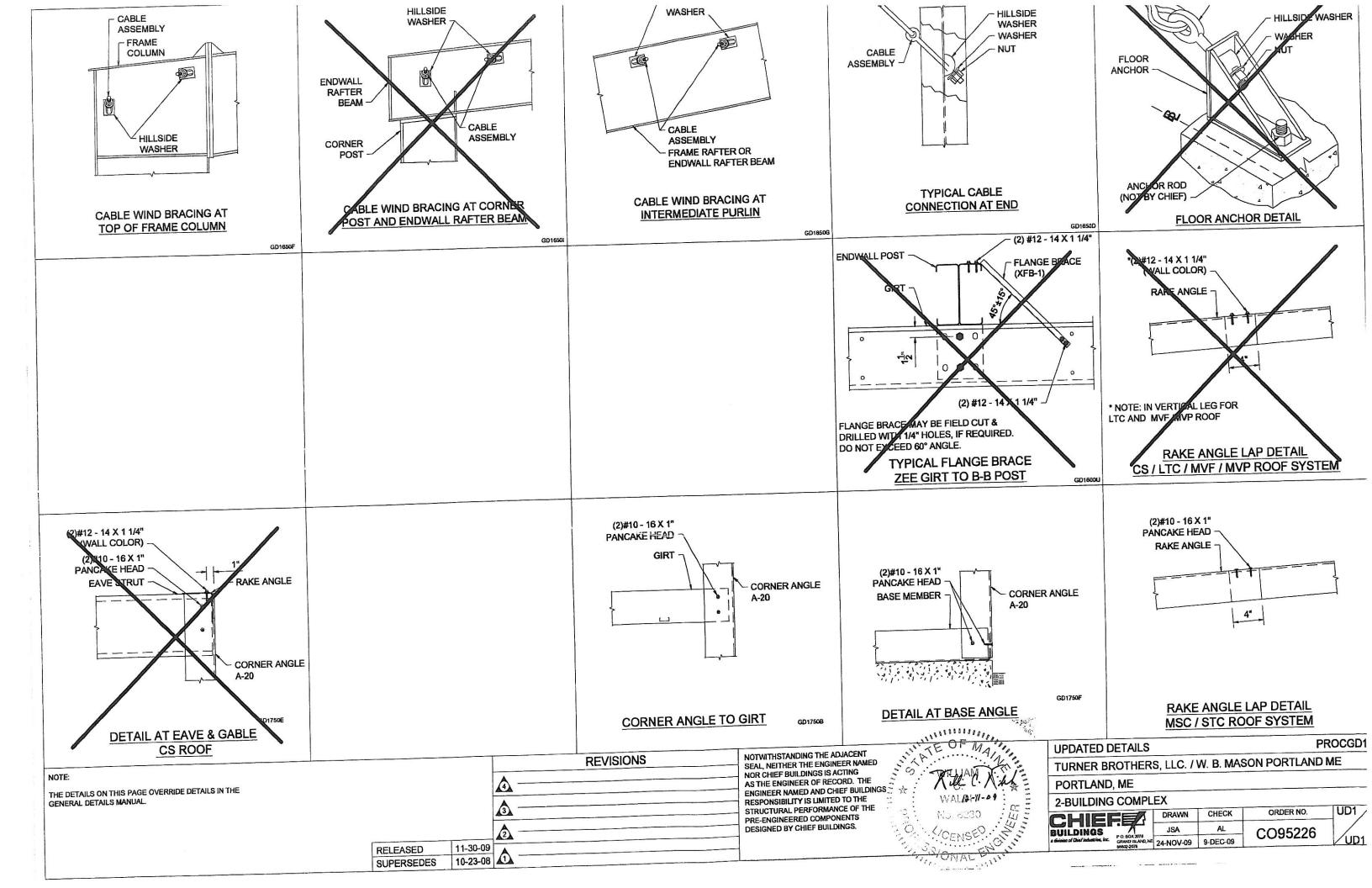


**SECTIONS & DETAILS** 

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

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	P.O. BOX 2078 GRAND ISLAND, NE 68802-7078	JSA	AL	CO95226	E5
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#### Quality Assurance Policy

The following Quality Assurance Policy is comprised of a list of guidelines and procedures to expedite customer service requirements in the field. Chief's objective is to produce a first-class product and back it up with the best customer service in the industry

The Quality Assurance Policy has been developed over the last twenty-five years and is based on handling customer service in the field. These guidelines will simplify the communication process and expedite any special requirements needed to make your project run as smooth

### Common Industry Practices

The correction of minor misfits by the use of drift pins to draw the components into line, shimming, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim.

Chief will not pay claims unless the following claim and authorization procedure is strictly complied with by the Builder, or if the correction work is started prior to receipt by Builder of Chief's written "Authorization of Corrective Work". If erection is not by the Builder, the Erector is responsible for providing the Builder with the information necessary to make the claim to Chief as provided below.

Chief is not responsible for any claim resulting from the use of any drawings or literature not specifically released for the components purchased for the project.

Chief is not responsible for any claim resulting from the use by the Erector of any improper material or material containing defects that can be detected by visual inspection. Claims for disassembling such improper or defective material and costs of erecting replacement material are not allowed.

Before you call Chief

Have the following information ready when you call.

The name of Chief's Project Manager for your project. This information should be available from the office.

Chief's order number for your project. This Information is available from the drawings Page numbers and detail callouts from the drawings. Part marks.

Line numbers.

### 1. Shortage and Damage Claims

Chief personnel check off all components of orders prior to shipment. However, it is imperative that the Builder checks each shipment against the packing lists or Shipping Papers to ensure that the shipment is complete and no damage has occurred.

One of the smaller resale boxes contains a set of drawings, M.S.D.S. sheets and other important documents that will aid you in erecting your project. Look for a box that says "DOCUMENTS ENCLOSED".

### Checking the Shipping List

Duplicates of packing lists are part of the paper work that is shipped with each load of steel. The full set of checked off Shipping Papers is on the final shipment. An advance copy of the Shipping Papers is included in the document box.

Find the box or bundle that contains the packing list. Check the contents against this packing list. The larger pieces have a piece mark written on the part, check the piece mark against the Shipping Papers.

- Columns, rafters, posts, crane beams, etc. are marked with a grease pencil or paint prior to painting.
- Tube flange brace marks are stamped into the end of the part. The Shipping Papers also reflect the tube size and length in inches.
- Sag angles: The standard sag angle part XSA-61.25 is stamped into the part. The miscellaneous sag angles are marked with a colored marker after they are primed. If there is a pile of same sag angles, only the top angle is marked and the pile is color coded with spray paint on the ends. The Shipping Papers also reflect the angle size and length in inches.
- Special plates are individually marked with a grease pencil prior to painting. The drawings that are sent with the steel shipment will also have part drawings included. These drawing packets are with the other documents included with the shipment.
- Standard botting clips are stamped on the individual parts. A drawing of these clips is also included in the "Component Identification" section of the "General Details (G.D.) Manual".
- Wind bracing is marked with a tag that is attached to the piece. The mark number contains the size of the cable in eighths (ex. 4WB = 1/4" diameter cable) and length in inches. Rod bracing is marked with a tag that is stretch wrapped to the bundle.
- Girts and purlins are marked with a grease pencil or printer prior to painting. A packing slip is also attached to each bundle that contains quantities and marks. The bundle weight is marked on the top of the bundle. The member size and length in inches are printed on the Shipping Papers.
- Sheeting is identified with packing lists. These packing lists also include the number of pieces of each length and the weight. In the case of LTC sheeting, the marks are written on the paper on the end of the panel, and again on a crate support board toward the inside of the bundle. The length of the sheeting in inches is included in the piece mark. The sheeting prefix generally contains the use of the panel. RS = roof sheet, WS = sidewall sheeting, EW = endwall sheeting, LP =

marks and quantities. The part dimensions are covered in the Component Identification" section of the G.D. Manual. Special trim fabs are included with the erection drawings, M.S.D.S. sheets and other documents in the resale box.

Bolts, nuts, screws and other assorted smaller resale parts are packed in smaller boxes and then packaged into larger resale boxes. A packing list is attached to

these larger boxes that describe the contents.

### Missing or Damaged Parts

Any missing items are to be noted on the Bill of Lading and Chief is to be notified immediately. If any item is damaged, it should be noted on the freight bill.

Concealed shortages must be reported to Chief during the following period dating from receipt of the first load:

one load job = 2 weeks four load job = 5 weeks five load job = 6 weeks two load job = 3 weeks three load job = 4 weeks six load job = 7 weeks seven or more load job = 8 weeks

Chief's responsibility for shortages expires at the end of these notification periods.

#### Replacement Shipment

Maximum effort will be made by Chief to ship replacement components as quickly as possible. Chief will attempt to ship standard components fabricated in its building plants within 48 hours and stock items will be ready to ship in 24 hours.

When a shortage is determined, the Builder needs to notify Chief's Project Manager of the Quality Assurance issue. Chief's Order Number and complete information describing the parts required must be conveyed at this time.

Chief will act immediately to get the parts to the Builder and responsibility for the problem will

After the problem has been corrected, Chief will determine where the responsibility lies. If it is Chief's error, Chief will provide the replacement material. Otherwise, Chief will invoice

#### Transit Damage

Nominal damage can occur during transit. Chief supplies touch-up paint for such cases. However, if excessive damage occurs, the following procedure will be observed Material damage (transit or otherwise) should be noted on the carrier's Bill Of Lading. If the damage is not noted on the Bill of Lading, Chief may charge the Builder for the replacement material. Customer pickup - Driver must inspect the load for any damaged material before leaving the plant and notify Chief accordingly.

All panels shipped from Chief's building plants are in good condition.

Chief bundles and/or boxes components only for protection during transit. This packaging is not intended for protection during storage.

Panels must be stored so air can circulate freely. Trapped moisture may cause discolaration or white rust. Refer to the G.D. Manual for proper bundling storage. This manual is supplied with each order. (again in the resale box)

Chief's shop primer is a rust inhibiting grey modified acrylic primer. This paint is intended to protect the steel only for short periods of exposure to ordinary atmospheric conditions. In addition, shop primer does not provide the uniformity of appearance, or the dumbility of a field applied finish coat of paint over a shop primer.

The Builder must ensure that the grey primed material is stored in such a manner that water, snow, ice and other debris are not allowed to pond in the members. If primed material is to be top coated with other paint, compatibility tests must be performed by the Builder to ensure acceptable results. These compatibility tests should cover a cross-section of members (clips, angles, purlins, girts, columns, rafters, beams, flange braces, etc.) as different primers may be

### 2. Authorization for Returning Merchandise

The authorization must be obtained from Chief's Project Manager before merchandise may be returned for credit. Returned merchandise shall be limited to resale type items (i.e. fasteners, closures, etc.) at Chief's sole discretion. Chief retains the prerogative to allow or disallow the

Builder must contact Chief's Project Manager with a description of the merchandise and the reason for their request

When authorization has been granted, an authorization form will be sent to the Builder along with a pre-numbered tag to attach to the merchandise being returned.

A 15% re-stock charge may be assessed on all merchandise which is authorized to be returned.

be returned for credit.

### Replacement Items

All merchandise shipped will be invoiced to the Builder. This includes parts sent to replace merchandise which has been authorized for return to Chief.

Credit will be Issued to the Builder's account when the returned merchandise has been accepted by Chief. Chief may refuse to credit your account if the returned merchandise is not in good condition.

### 3. Field Modifications

### Notification of Field Problems

The initial claim must be made promptly by either written or verbal notification to Chief's Project Manager. Any verbal notification must be followed up in writing within 7 days. The initial claim

- 1. Description of nature and the extent of the errors, including quantities.
- 2. Description of nature and the extent of proposed corrective work, including estimated man-hours and costs.
- 3. Material to be purchased from other than Chief, including estimated quantities and
- 4. Maximum total cost of proposed corrective work and material to be purchased from other than Chief.

If necessary, Chief may request pictures, field measurements, or other information that will aid in helping to solve the problem.

Authorization MUST be obtained from Chief's Technical Service Department in writing before field modification is made. Authorization identifies the problem and allows Chief to participate in arriving at a solution, it does not assign fault or liability.

Chief cannot be responsible for structures which have been modified without specific authorization. Any such action may void warranties.

The order number must be shown on all backcharges submitted to Chief.

### Backcharge Procedure

All backcharges must be submitted within 14 (fourteen) days after completion of the corrective work for which prior approved authorization has been given. Failure to submit the backcharge within this time limit will negate Chief's obligation to pay said charges.

Information Required for Submitting the Final Claim

- 1. Chief's Order Number.
- 2. Actual man-hours by date of direct labor use on corrective work and hourly rates of pay.
- 3. Cost of material (not minor supplies) authorized by Chief to be purchased
  - from other than Chief, including copies of paid invoices
- 4. Total actual direct cost of corrective work (sum of 2 and 3).
- The final claim shall be signed and certified true and correct by the Builder. Final claims are paid to the Builder in an amount of the lesser of
- a) cost set forth in the initial report and subsequent "Authorization for Field
- Modification".
- b) the total actual direct cost of corrective work.
- 5. The cost of equipment (rental or depreciation), small tools, supervision, overhead and profit are not subject to claim. This includes crane and lift charges.

RELEASED

SUPERSEDES

QUALITY ASSURANCE POLICY TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME PORTLAND, ME 2-BUILDING COMPLEX ORDER NO. Q1 CHECK DRAWN CHIEFE

**JSA** 

0 ISLAND, NE 24-NOV-09

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9-DEC-09

CO95226

Q1

01-15-07 BUILDINGS