STRUCTURAL DESIGN STANDARD PACKAGE ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 20'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

23 June 2020 Revision 0 M&A Project No. 20126S

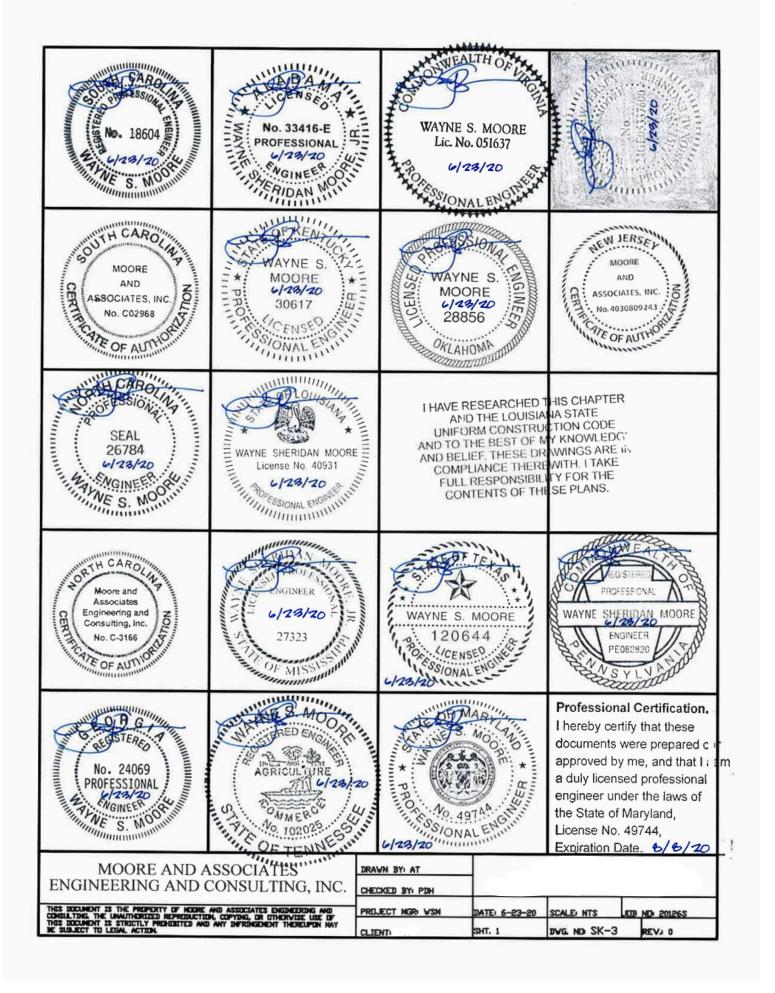
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 South Main Street, Suite 200 Mount Airy, NC 27030





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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 IBC, 2015 IBC, 2012 IBC, 2009 IBC, AND 2006 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE I HAD

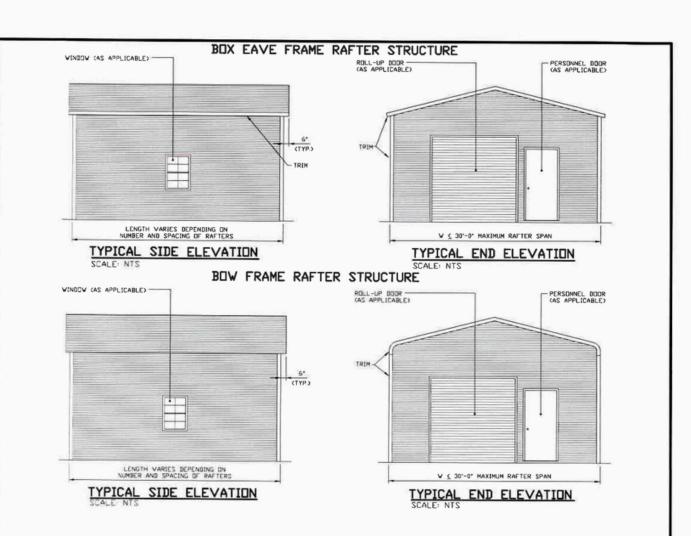
- = 12 PSF
- C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. ULTIMATE WIND SPEED 105 TO 145 MPH (NOMINAL WIND SPEED 81 TO 112 MPH): MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7 WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2' x 2 1/2' 14 GAUGE IS SPECIFIED, TS 2 1/4' x 2 1/4' 12 GAUGE MAY BE USED AS AN OPTION.
- 9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.)
- 10. FASTENERS CONSIST OF #12-14×3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.
 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3:12 PITCH) OR LESS SI
 REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT. (3:12 PITCH) OR LESS SPACING
- 11. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 12. GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 36' LONG AND MAY ONLY BE USED IN SUITABLE SOILS. HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE: SDIL SITE CLASS = D RISK CATEGORY I

R= 3.25 Sps= 2.339

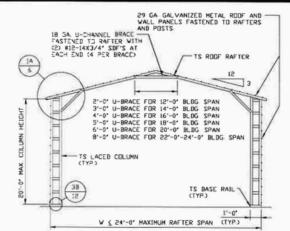
 $I_E = 1.0$ V= CsW

S_{DI}= 1.258

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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

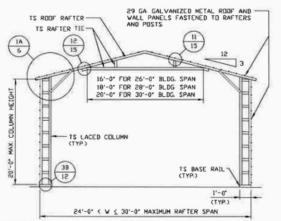
29 GA GALVANIZED METAL RODF AND VALL PANELS FASTENED TO RAFTERS AND POSTS.

18 GA U-CHANNEL BRACE FAND POSTS.

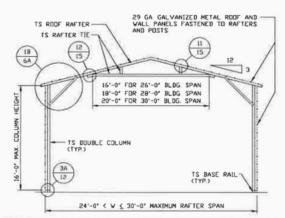
18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (29 NIZ-14X3/4* SDF/S AT EACH END (4 PER BRACE)

19 STATEMENT OF THE STATE FOR 18'-0' BLOG SPAN 3'-0' U-BRACE FOR 18'-0' BLOG SPAN 5'-0' U-BRACE FOR 18'-0' BLOG SPAN 5'-0' U-BRACE FOR 18'-0' BLOG SPAN 5'-0' U-BRACE FOR 18'-0' BLOG SPAN 8'-0' U-BRACE FOR 28'-0'-24'-0' BLOG SPAN 1'-0' U-BRACE FOR 28'-0'-24'-0' BLOG SPAN 1'-0'-1' U-BRACE FOR 28'-0'-1' BLOG SPAN 1'-0'-1' U-BRACE FOR 18'-0' BLOG SPAN 1'-0'-1'-0'-1' BLOG SPAN 1'-0'-1'-0

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

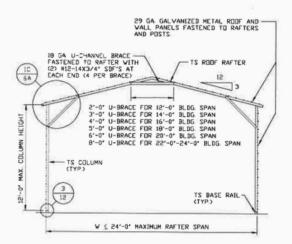


TYPICAL RAFTER/COLUMN END FRAME SECTION
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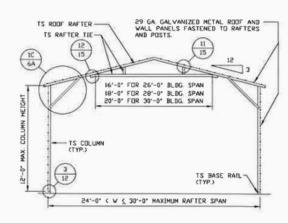
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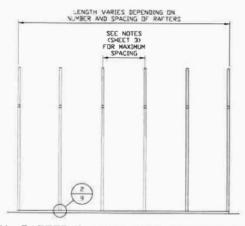
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TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

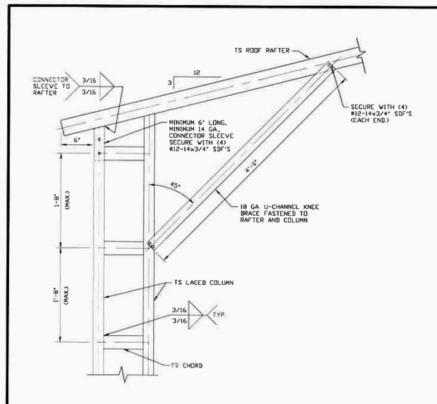


TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

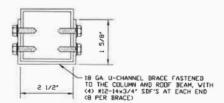


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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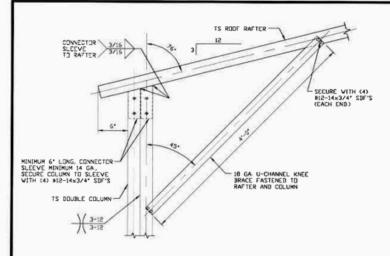


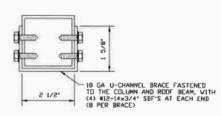
BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO \(\leq \ 20'-0' \)



BRACE SECTION SCALE: NTS

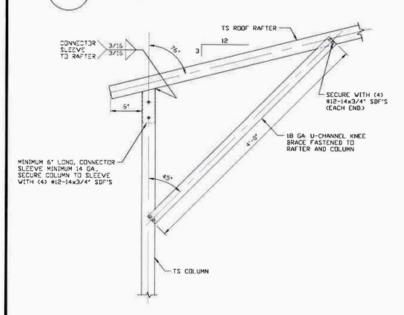
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BRACE SECTION SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0'



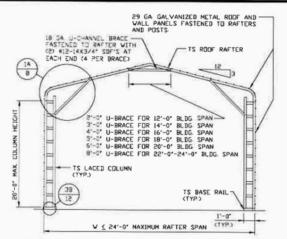
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 12'-0'

SCALE NTS

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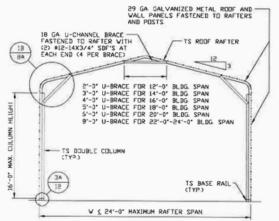
NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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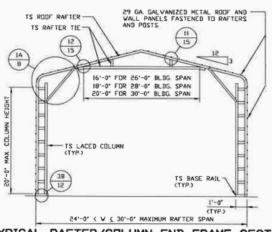
TYPICAL RAFTER/COLUMN END FRAME SECTION

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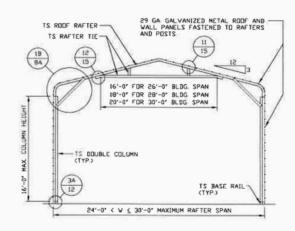
TYPICAL RAFTER/COLUMN END FRAME SECTION

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TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



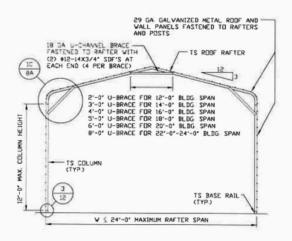
TYPICAL RAFTER/COLUMN END FRAME SECTION

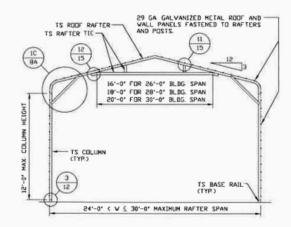
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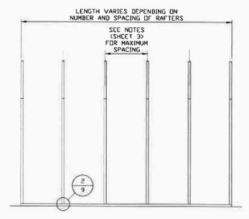




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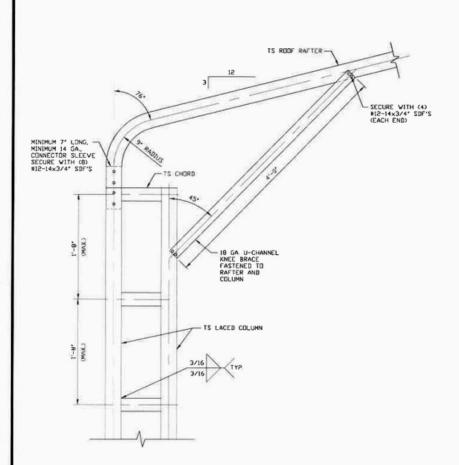
TYPICAL RAFTER/COLUMN END FRAME SECTION



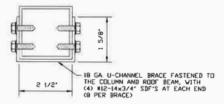
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

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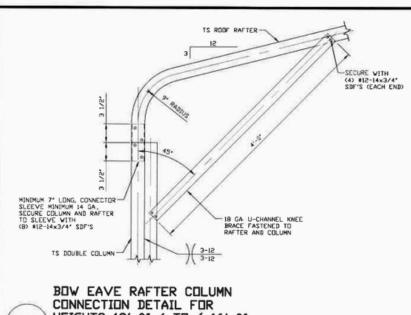


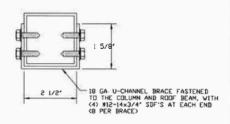
1A BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO \(\) 20'-0"



BRACE SECTION
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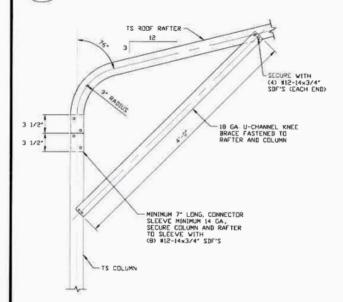


BRACE SECTION

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HEIGHTS 12'-0" < T□ ≤ 16'-0" 1B

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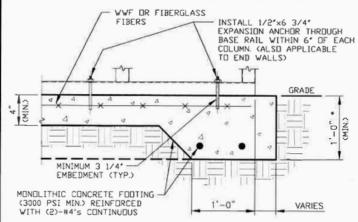
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1C SCALE NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

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BASE RAIL ANCHORAGE OPTIONS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE MINIMUM ANCHOR EDGE DISTANCE IS 4'

★ COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:
3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH DR EXPOSED TO THE EARTH DR WEATHER, AND 1 1/2' ELSEWHERE.

REINFORCING STEEL:

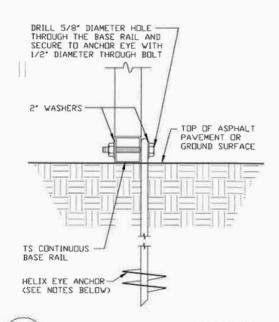
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM AGIS GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- 1 REINFORCEMENT IS BENT COLD.
 2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIFLD BENT

HELIX ANCHOR NOTES:

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50' EMBEDMENT
- 4 FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- FOR VERY LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



GROUND BASE HELIX ANCHORAGE 2B (CAN BE USED FOR ASPHALT)

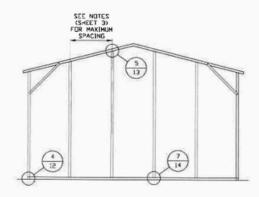
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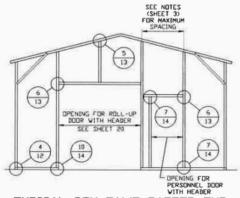
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



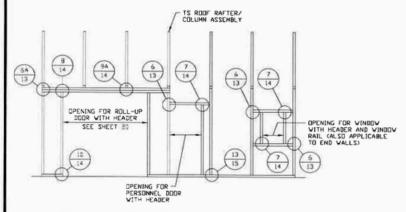
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

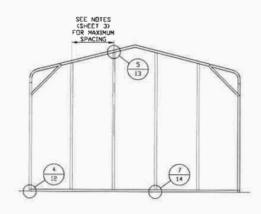
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SIDE WALL OPENINGS FRAMING SECTION TYPICAL BOX EAVE RAFTER

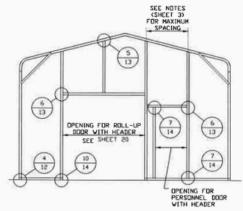
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BOW RAFTER END WALL AND SIDE WALL OPENINGS

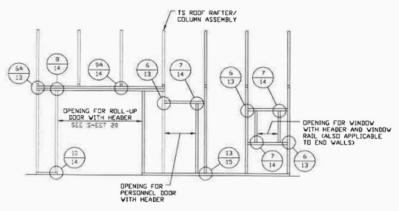


TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



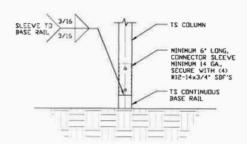
TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION
SCALE: NTS

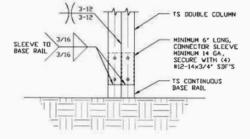


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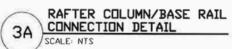
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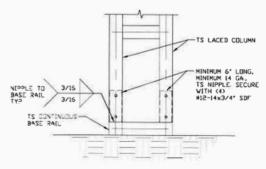
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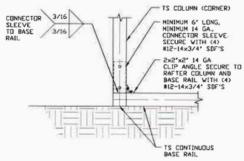




RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

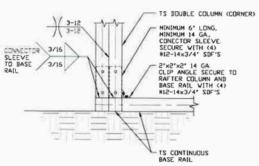






RAFTER COLUMN/BASE RAIL CONNECTION DETAIL **3B** SCALE: NTS

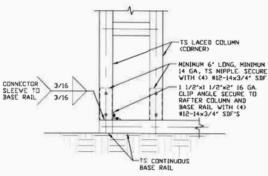


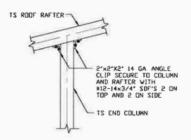




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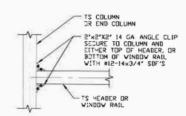


4B CONNECTION DETAIL

SCALE: NTS

5 END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



3/16

3/16

7' TS COLUMN

MINIMUM 6' LONG MINIMUM
14 GA CONNECTOR SLEEVE
SECURE VITH (4)
NI2-14×3/4' SDF'S

TS COLUMN

TS COLUMN

TS DOUBLE HEADER OR
VINDOV RAIL

COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL

6

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL SCALE: NTS

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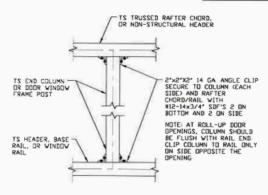
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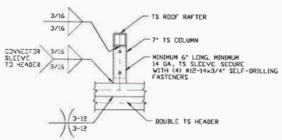
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CLIENT: SHT. 13 DVG. ND: SK-3 REV. 0

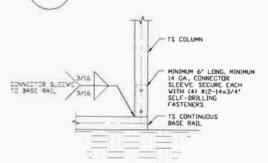
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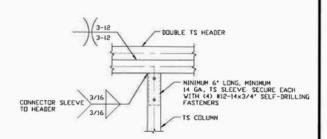




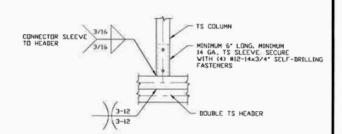






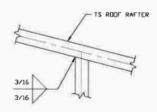


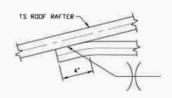
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE: NTS



9B COLUMN/DOUBLE HEADER CONNECTION DETAIL

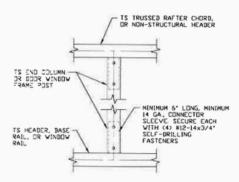
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RAFTER TO CHORD CONNECTION DETAIL 11

COLLAR TIE CONNECTION DETAIL 12



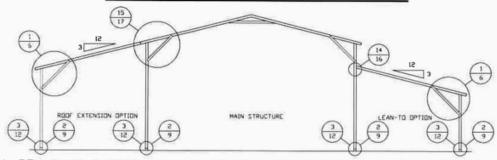
COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL 13 SCALE: NTS

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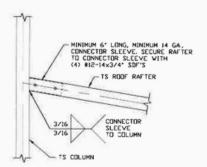
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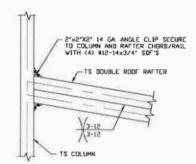
BOX EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
14A FOR RAFTER SPANS & 12'-0'



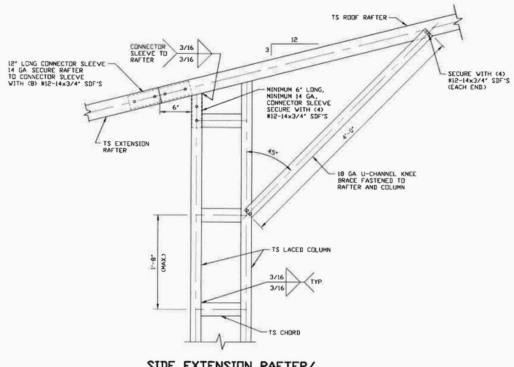
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0' < TO < 16'-0'

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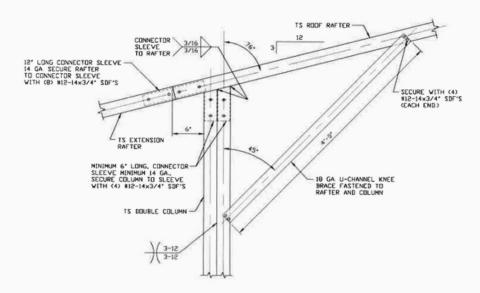
BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS \leq 12'-0"



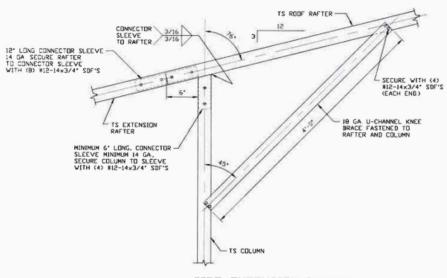
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO \(\) 20'-0'

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"







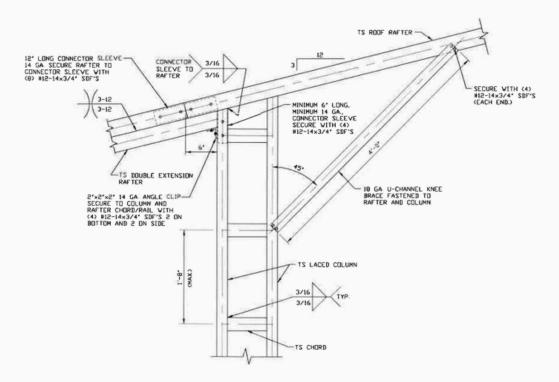
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0"

SCALE: NTS

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0"

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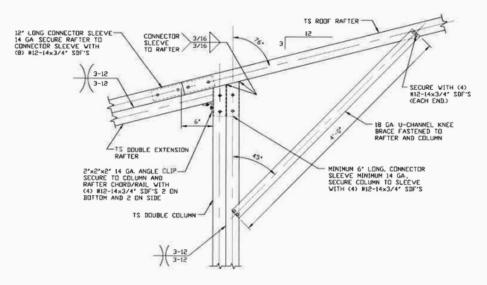
BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



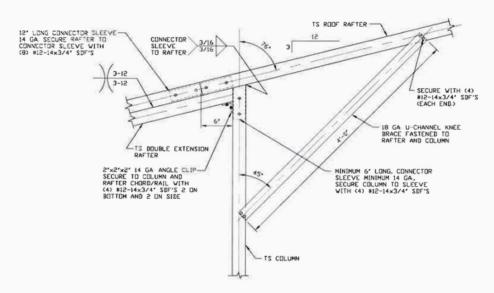
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'
SCALE: NTS

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS 12'-0' < T□ < 16'-0' 15E

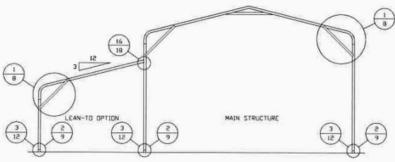


SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS ≤ 12'-0' 15F SCALE: NTS

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

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BOW EAVE RAFTER LEAN-TO OPTION



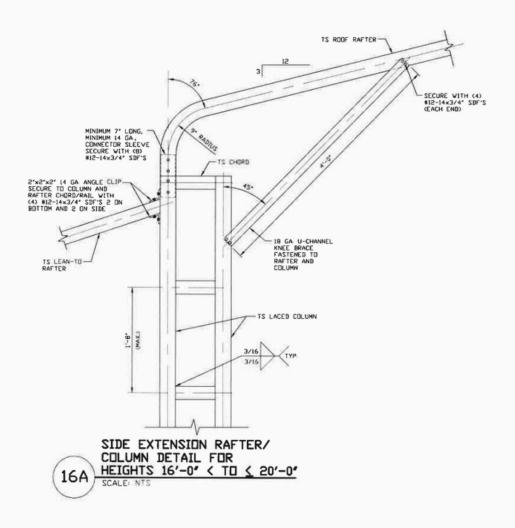
TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION SCALE: NTS

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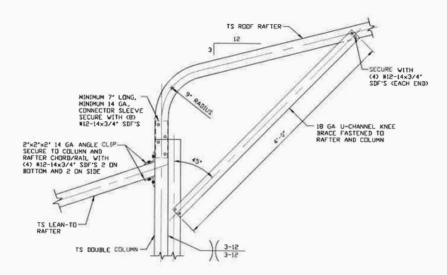
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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"

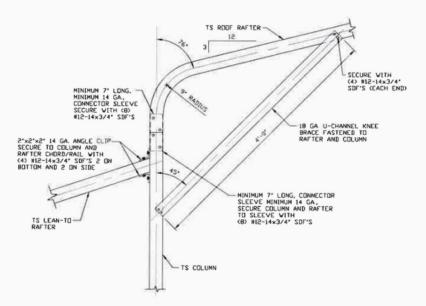


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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0' 16B SCALE: NTS



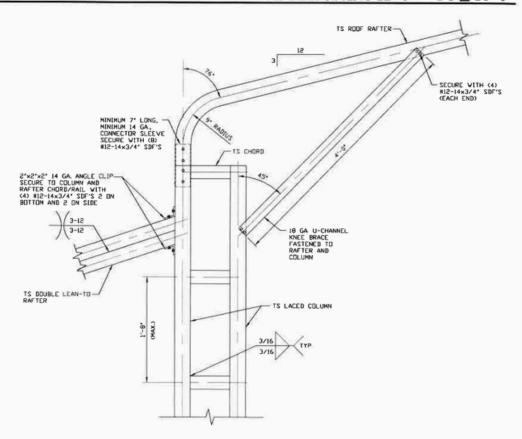
SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS & 12'-0' 16C

SCALE: NTS

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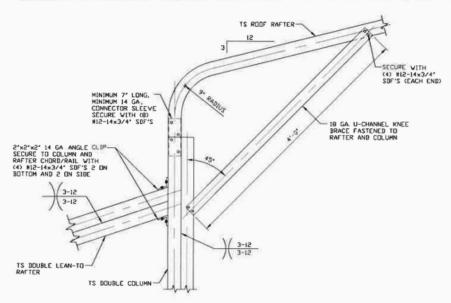
BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



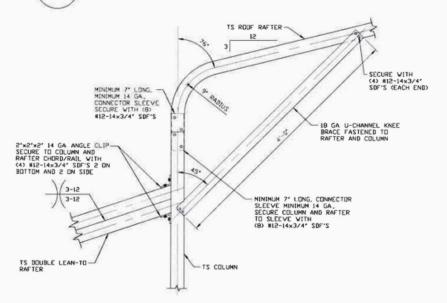
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'
SCALE: NTS

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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS 12'-0' < TO \(\) 16'-0' 16E

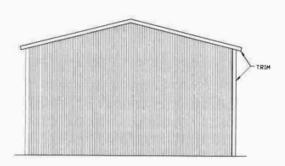


SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS & 12'-0" 16F

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

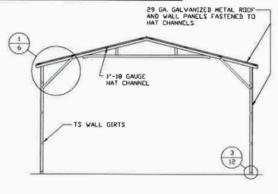
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



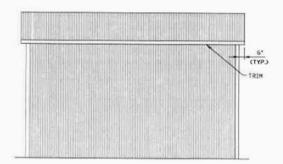
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



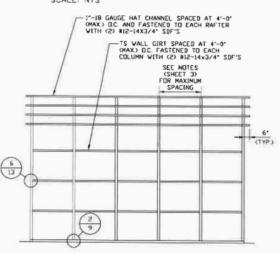
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

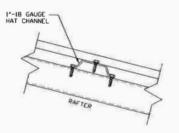


TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE, NIS

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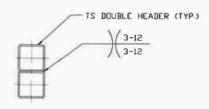
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PROJECT MGR: VSM	DATE: 6-23-20	SCALE: NTS	JOB N	D 201265
CLIENT	SHT. 19	DVG. ND SK-3	R	EV, 0



PANEL ATTACHMENT

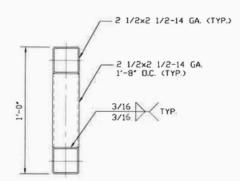
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR LENGTHS & 12'-0"

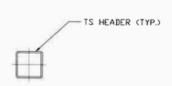
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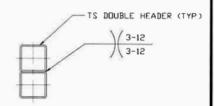


HEADER DETAIL FOR LENGTHS 12'-0" < TO & 14'-0"

SCALE: NTS

END WALL HEADER OPTION





HEADER DETAIL FOR LENGTHS 12'-0" < TO < 14'-0"

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