

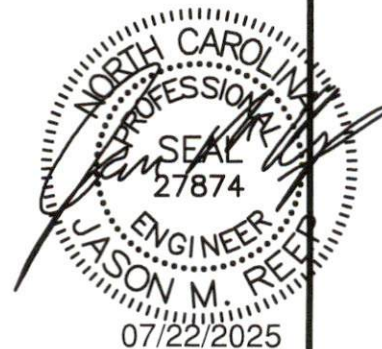
ENCLOSED GABLE END BUILDING

MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 30 P.S.F. SNOW LOAD

FOR:

Billy Brock
2277 Neills Creek Road
Lillington, NC 27546

ISSUE DATE: 07/22/2025



07/22/2025

THESE PLANS HAVE BEEN PROPERLY
EXAMINED BY THE UNDERSIGNED. I
DETERMINED THAT THEY COMPLY
WITH EXISTING LOCAL NORTH
CAROLINA CODES AND ARE
APPROPRIATE FOR USE IN THIS AREA

SHEET INDEX

SHEET NUMBER	SHEET TITLE
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S1	NOT USED
S2	DRAWING INDEX
S3	GENERAL NOTES AND SPECIFICATIONS
S4	SIDE AND END ELEVATIONS
S5	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5A	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5B	TYPICAL RAFTER / COLUMN FRAME AND SIDE FRAMING SECTION
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S6A	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
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S6C	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
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S7A	BASE RAIL ANCHORAGE
S8	BASE RAIL ANCHORAGE
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S16B	VERTICAL ROOF / SIDING OPTION SIDE SECTION
S17	SIDE WALL HEADER OPTIONS
S17A	END WALL HEADER OPTIONS



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PO BOX 27
Pilot Mountain, NC 28641
828-310-7160

V2.0

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2277 Neills Creek Road
Lillington, NC 27546

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SHEET NO:
S2

DESIGN LOADS:

IMPORTANCE FACTORS WIND (1w) 1.00
 SNOW (1s) 1.00
 SEISMIC (1e) 1.00

DEAD LOADS ROOF 13 P.S.F.
 ROOF COLLATERAL 0 P.S.F.

LIVE LOADS ROOF 20 P.S.F.

GROUND SNOW LOAD: 15 P.S.F. * DRIFT LOAD HAS NOT BEEN CALCULATED

WIND LOAD: BASIC WIND SPEED 115 M.P.H. ASCE 7-10
 EXPOSURE CATAGORY C

SEISMIC DESIGN CATAGORY ☐ A ☐ B ☒ C ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY I *NOT FOR SLEEPING QUARTERS

SPECTRAL RESPONSE ACCELERATION Ss 17.8 %g S1 8.5 %g

SITE CLASSIFICATION D ☐ FIELD TEST ☐ PRESUMPTIVE ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

<input type="checkbox"/>	BEARING WALL	<input type="checkbox"/>	DUAL W/ SPECTRAL MOMENT FRAME
<input checked="" type="checkbox"/>	BUILDING FRAME	<input type="checkbox"/>	DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
<input type="checkbox"/>	MOMENT FRAME	<input type="checkbox"/>	INVERTED PENDULUM

ANALYSIS PROCEDURE ☐ SIMPLIFIED ☒ EQUIVALANT LATERAL FORCE ☐ MODAL

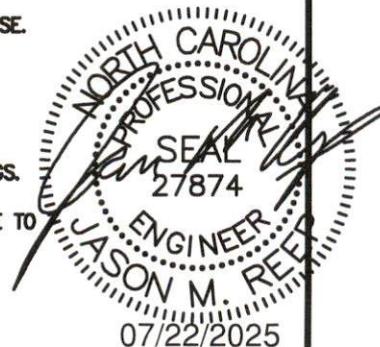
LATERAL DESIGN CONTROL? ☐ EARTHQUAKE ☒ WIND

SOIL BEARING CAPACITIES:

PRESUMPTIVE BEARING CAPACITIES: 1,500 P.S.F.

GENERAL NOTES:

1. MAX FRAME SPACING SHALL BE 60"o.c. UNLESS NOTED OTHERWISE.
2. MAX. END-WALL COLUMN SPACING SHALL BE 60"o.c. UNLESS NOTED OTHERWISE.
3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
5. 1,500 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS ARE NOT APPLICABLE TO PARTIALLY OPEN / ENCLOSED OR OPEN BUILDINGS.
7. IF FRAME SPACING IS AT 48"oc (SIDE & END WALLS) - GROUND SNOW LOAD CAN INCREASE TO 36 P.S.F. (EXCLUDING DRIFT).



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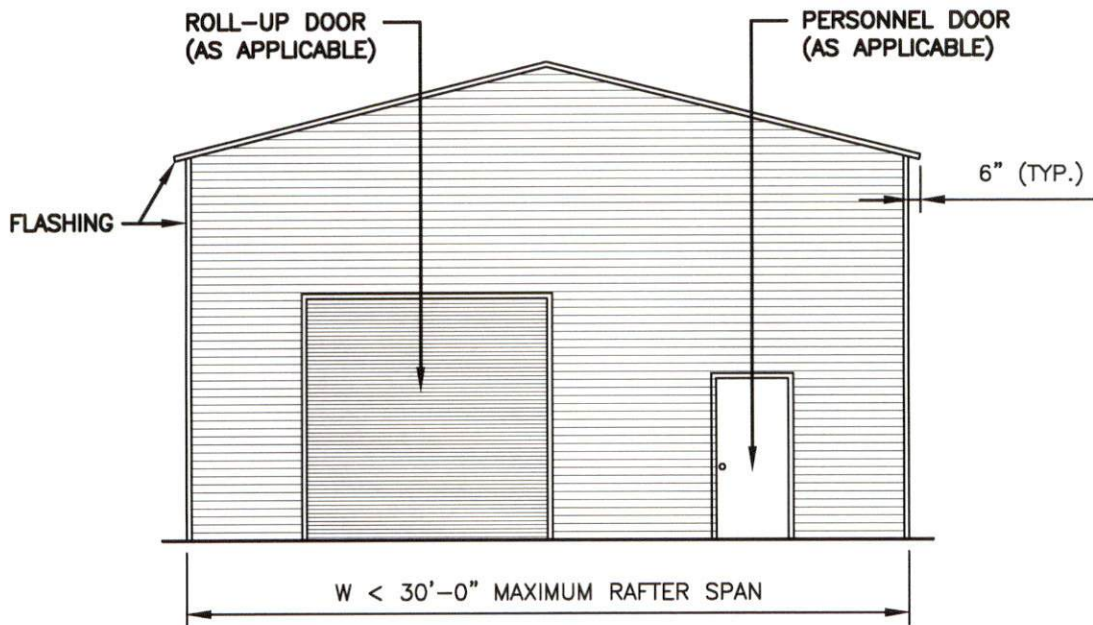
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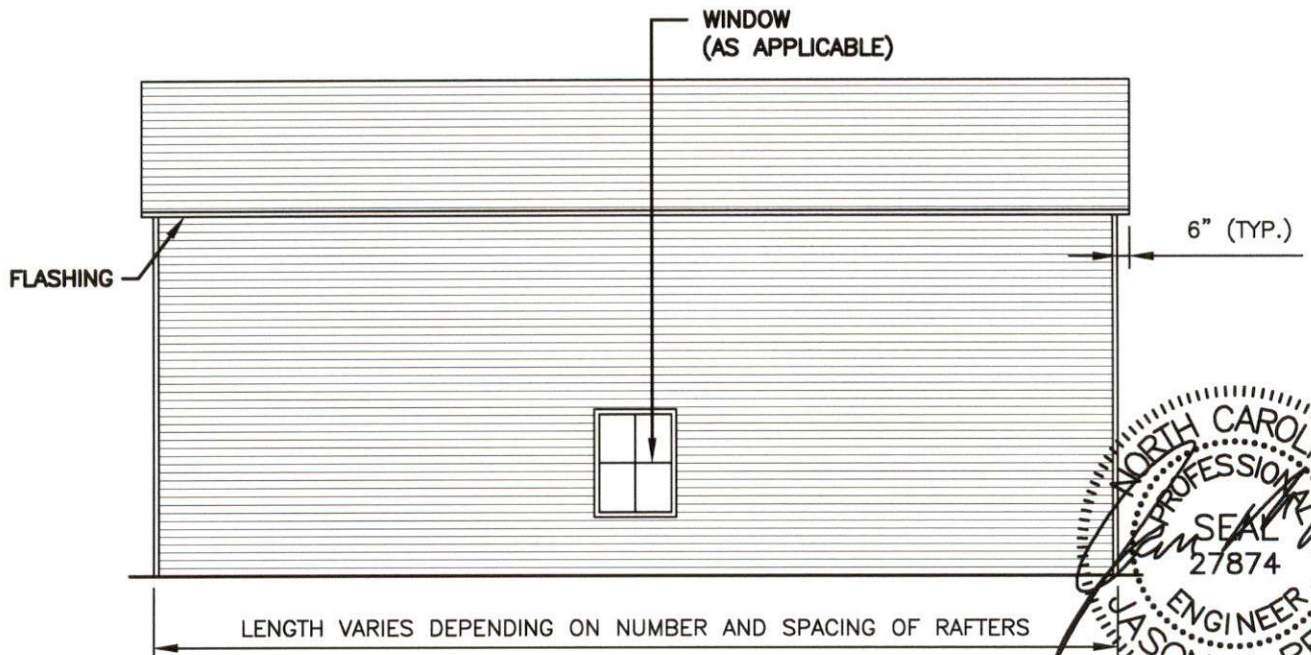
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S3

BOX EVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



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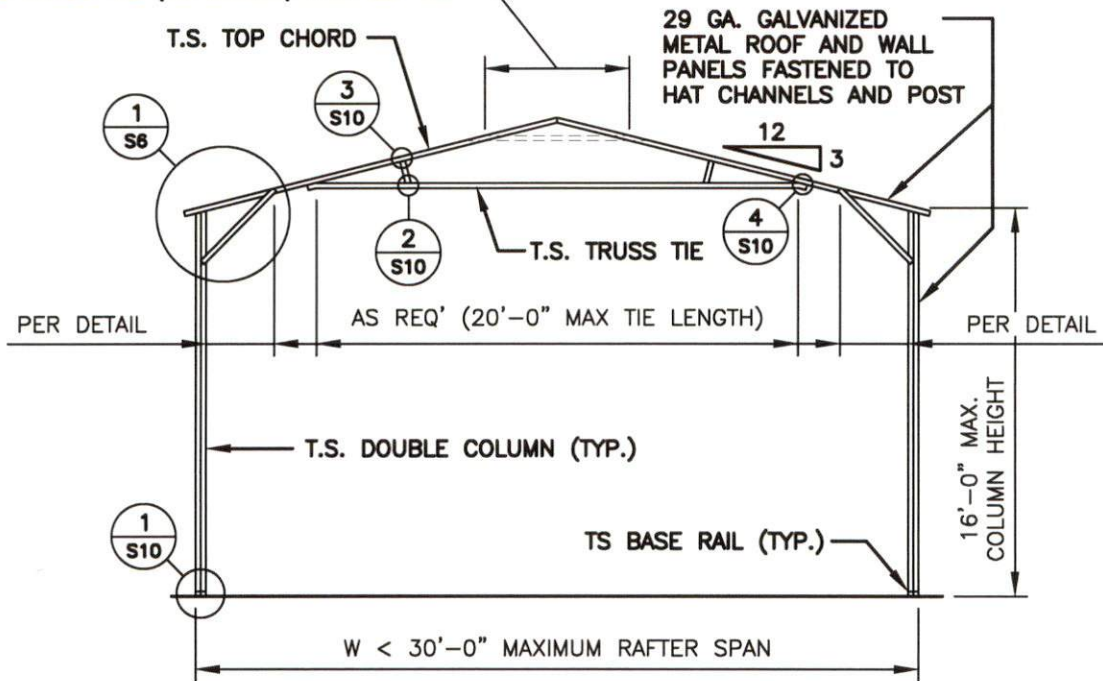
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S4

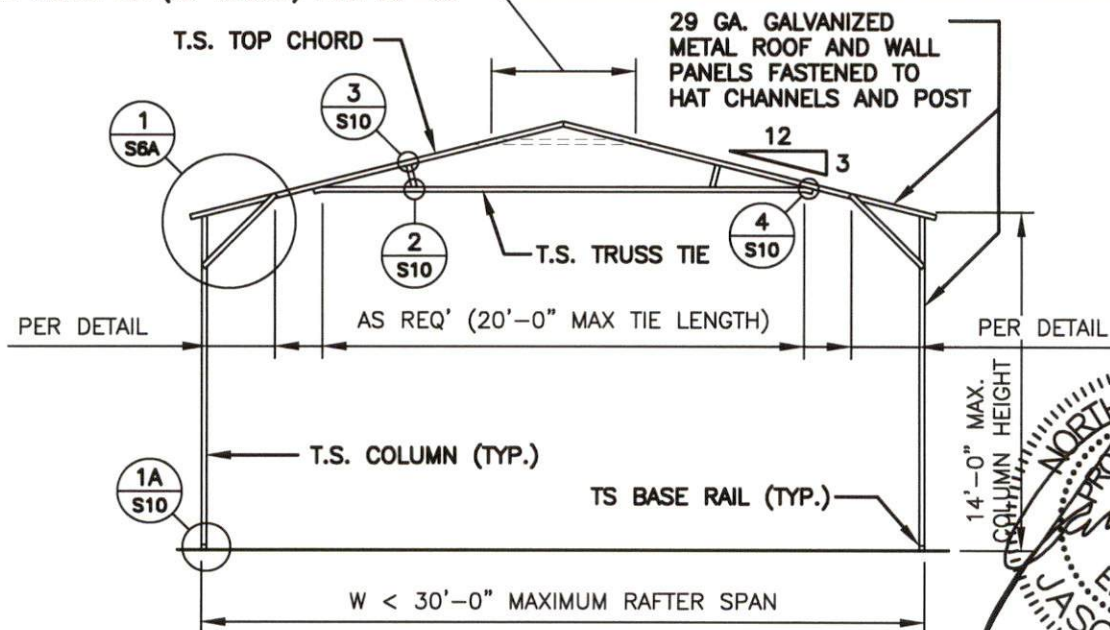
'U' BRACE TRUSS TIE - NOTE:
 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'



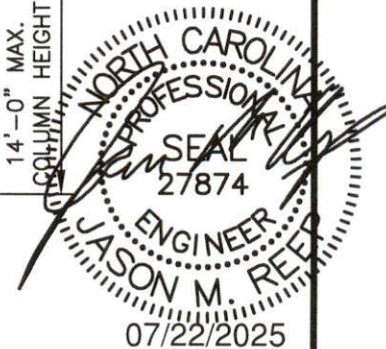
TYPICAL RAFTER / COLUMN FRAME SECTION

'U' BRACE TRUSS TIE - NOTE:
 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'

NOTE:
 H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga.
 MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



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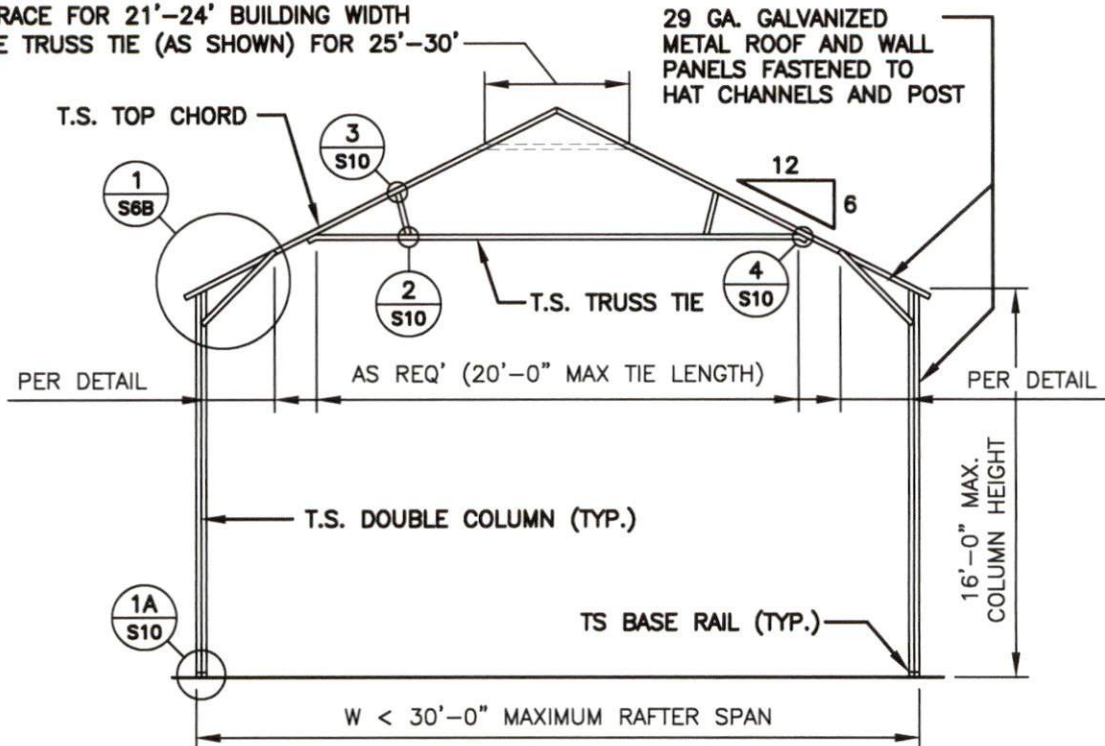
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SHEET NO:
S5

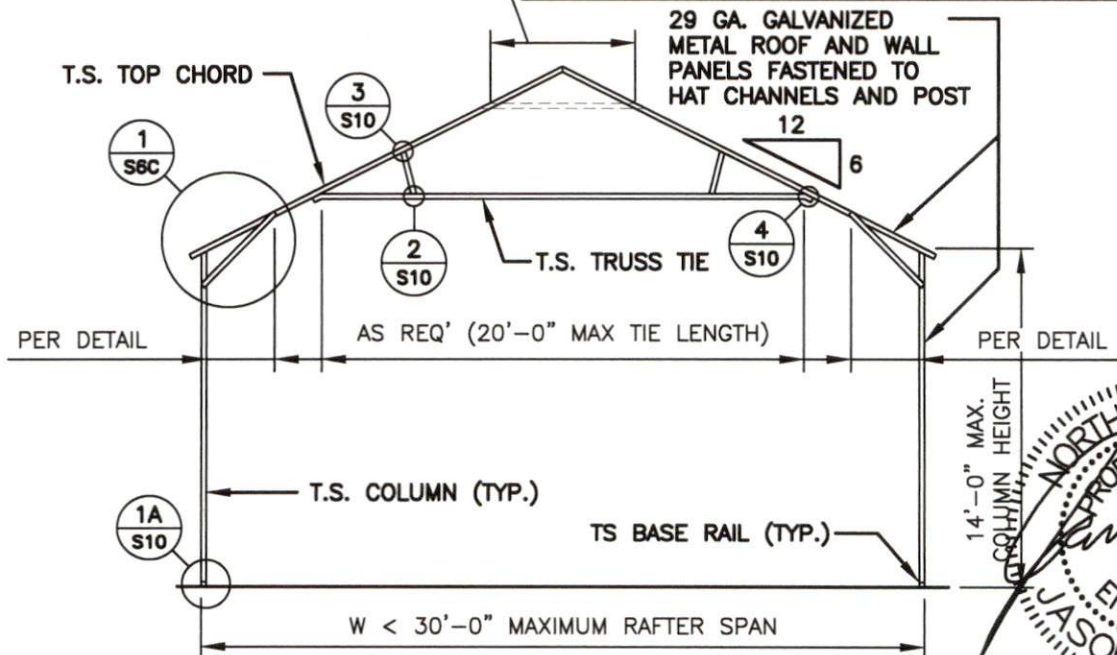
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TYPICAL RAFTER / COLUMN FRAME SECTION

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 6'-0" BRACE FOR 21'-24' BUILDING WIDTH
 20' TUBE TRUSS TIE (AS SHOWN) FOR 25'-30'

NOTE:
 H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga.
 MATERIAL MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN FRAME SECTION



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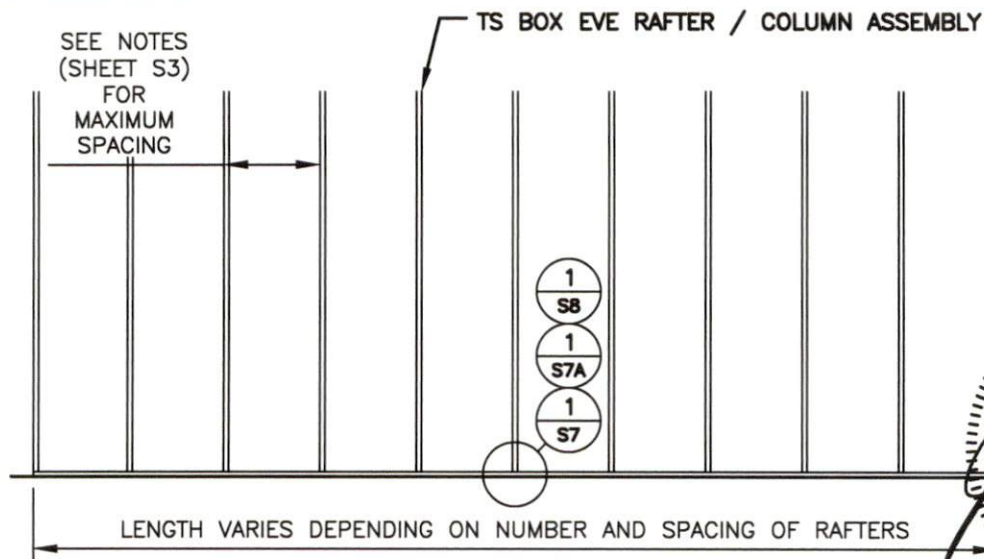
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SHEET NO:
S5A

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR
2-1/4"x2-1/4"x14ga. MATERIAL
MAY BE USED FOR TRUSS METAL.



TYPICAL RAFTER / COLUMN SIDE FRAME SECTION



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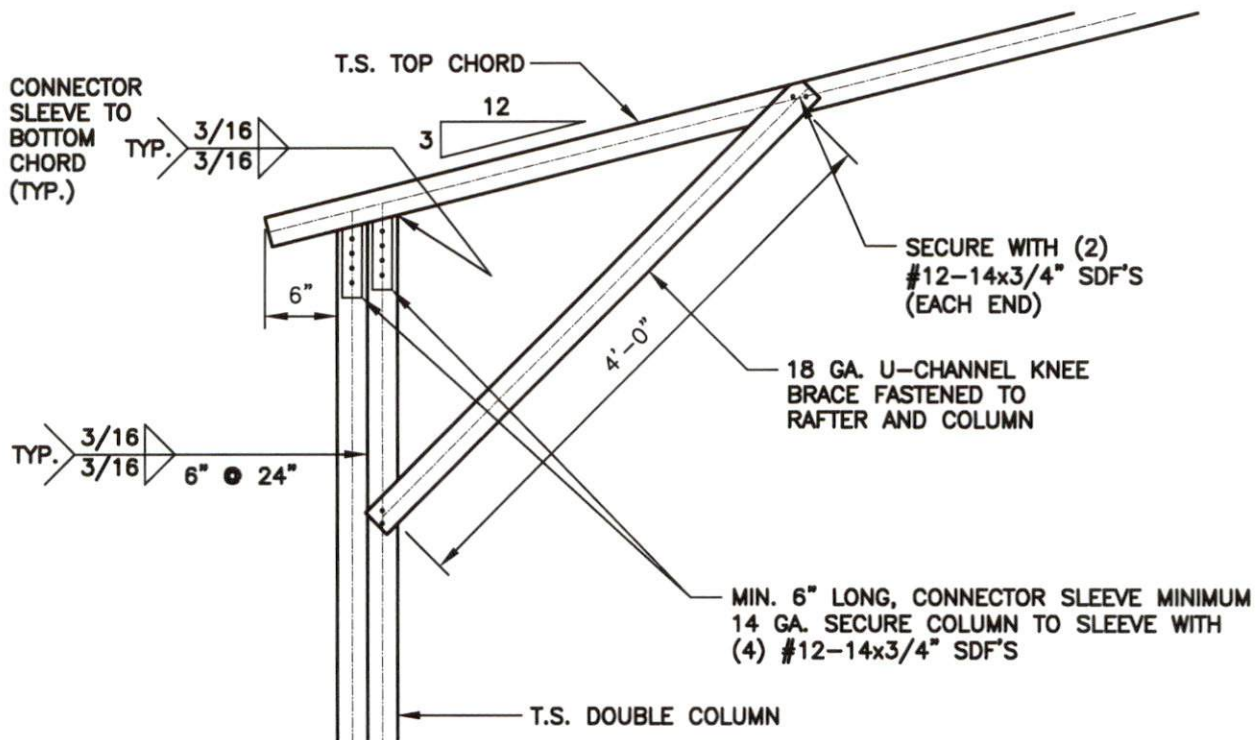
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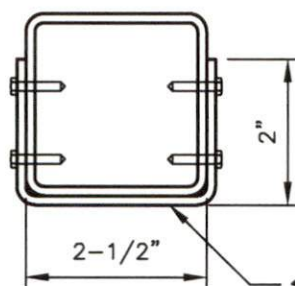
SHEET NO:
S58



1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

S6

SCALE: 3/4" = 1'-0"



BRACE
SECTION

18 GA. U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND BOTTOM CHORD, WITH
#12-14x3/4" SDF'S AT
EACH END AS SHOWN IN
ELEVATION.



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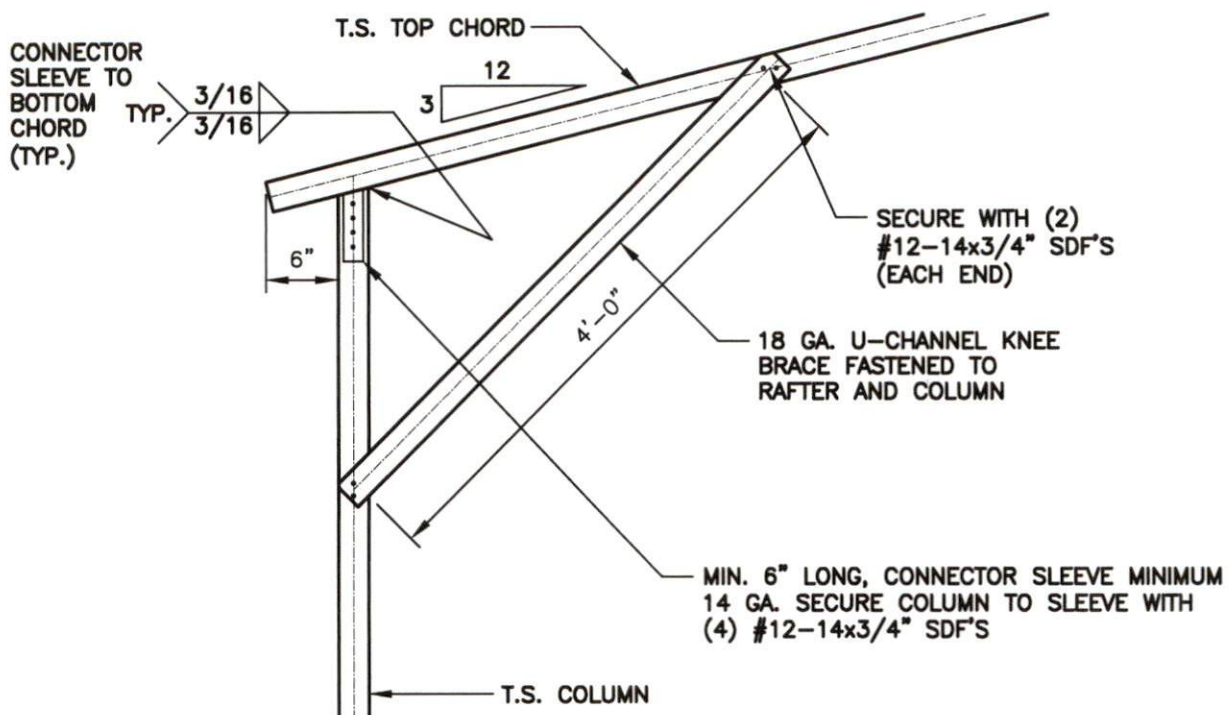
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SHEET NO:
S6

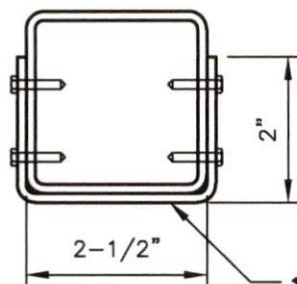


1

BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6A

SCALE: $\frac{3}{4}" = 1'-0"$



BRACE
SECTION

18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH #12-14x3/4" SDF'S AT EACH END AS SHOWN IN ELEVATION.



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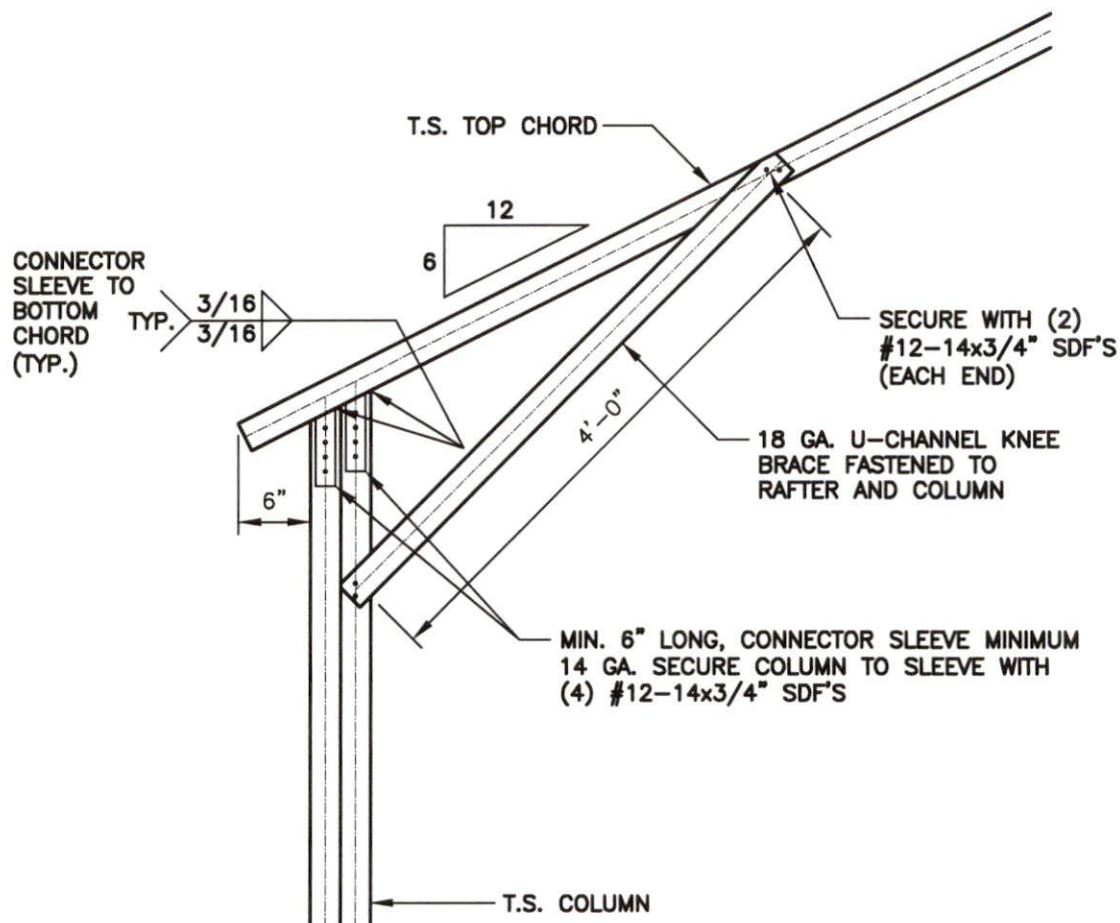
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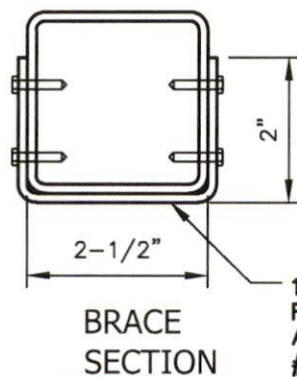
SHEET NO:
S6A



1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

S6C

SCALE: 3/4" = 1'-0"



**BRACE
SECTION**

18 GA. U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND BOTTOM CHORD, WITH
#12-14x3/4" SDF'S AT
EACH END AS SHOWN IN
ELEVATION.



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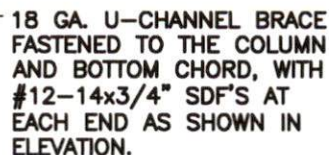
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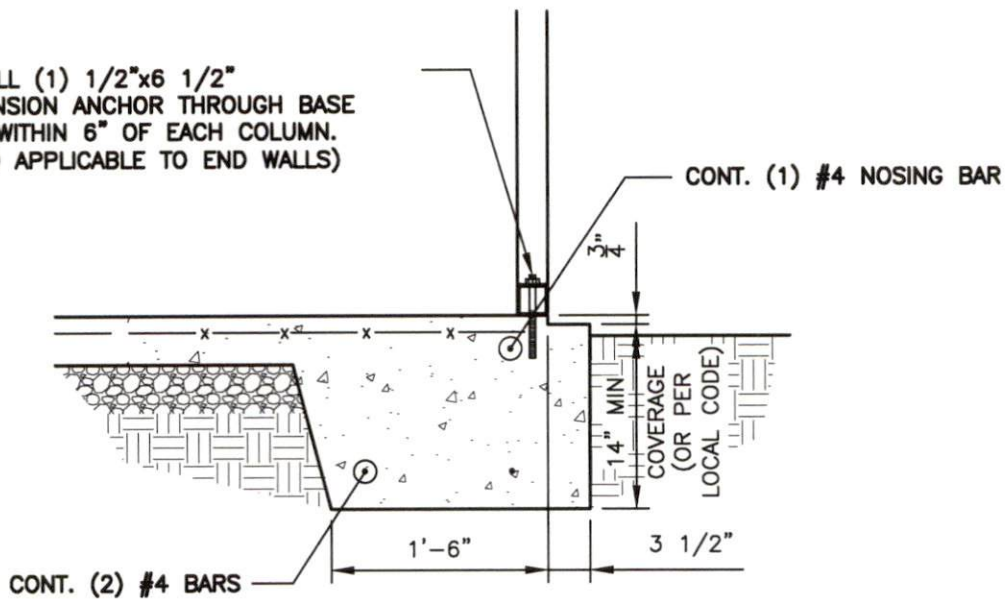
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S6B



CONCRETE BASE RAIL ANCHORAGE

INSTALL (1) 1/2"x6 1/2"
EXPANSION ANCHOR THROUGH BASE
RAIL WITHIN 6" OF EACH COLUMN.
(ALSO APPLICABLE TO END WALLS)



BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.

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 OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF 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 FIELD BENT



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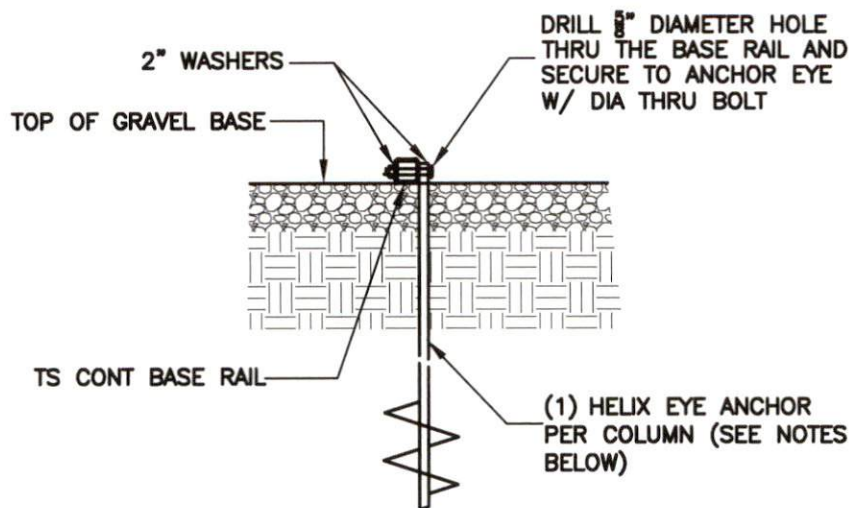
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SHEET NO:
S7

SHEET NO:
S7A

SOIL NAIL BASE RAIL ANCHORAGE



BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN. (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.



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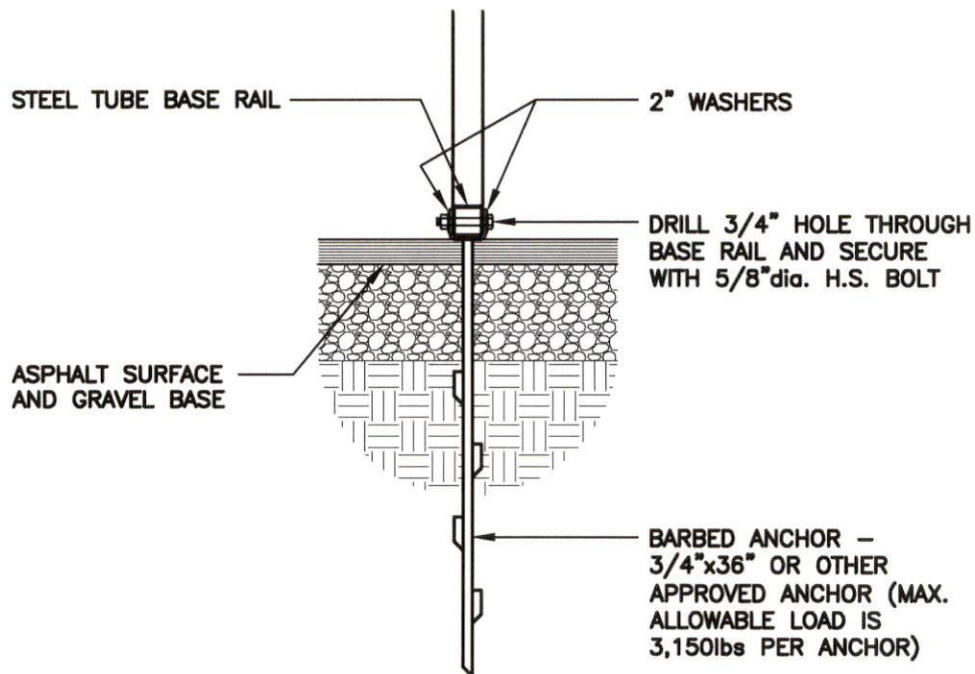
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DATE:
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S8

ASPHALT ANCHOR BASE RAIL ANCHORAGE



ASPHALT / BASE RAIL ANCHORAGE DETAIL

SCALE: 3/4" = 1'-0"



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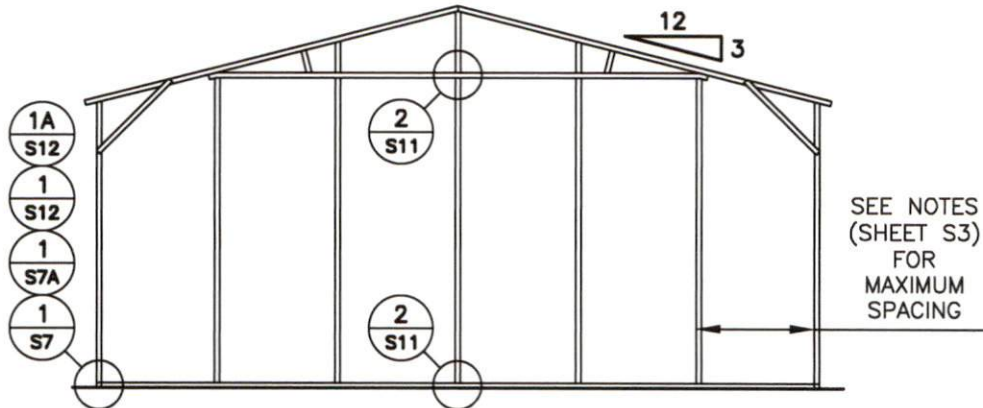
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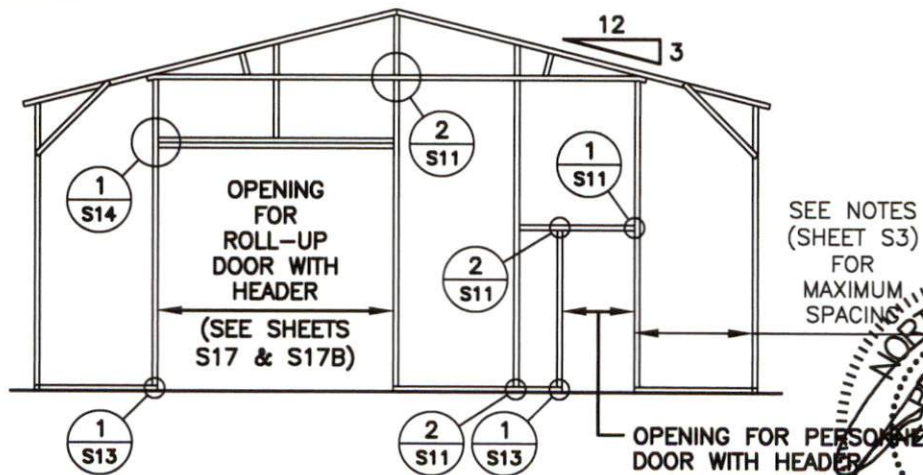
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S8A

BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION

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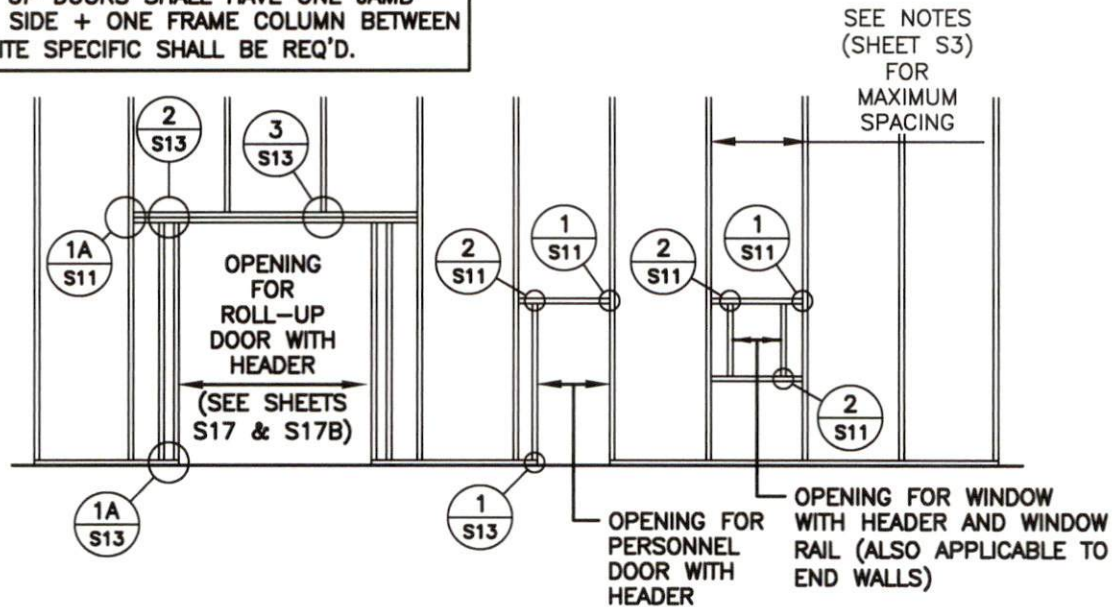
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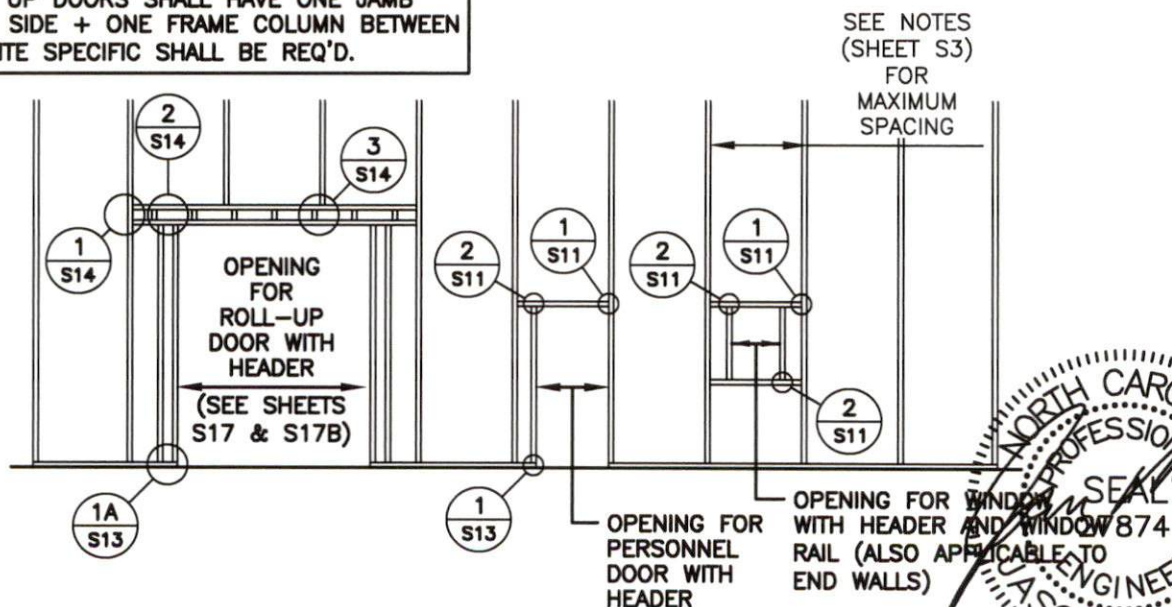
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB
EACH SIDE + ONE FRAME COLUMN BETWEEN
OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL END WALL OPENING FRAMING SECTION

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB
EACH SIDE + ONE FRAME COLUMN BETWEEN
OR SITE SPECIFIC SHALL BE REQ'D.



TYPICAL SIDE WALL OPENING FRAMING SECTION



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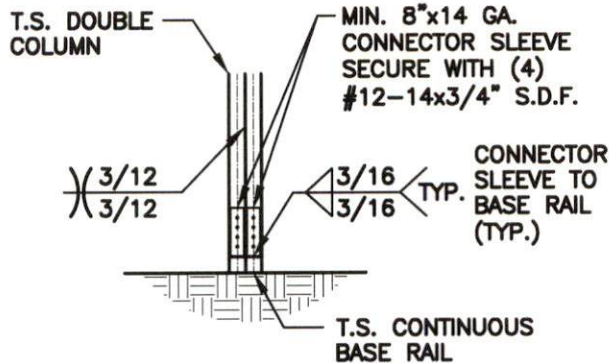
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S9A

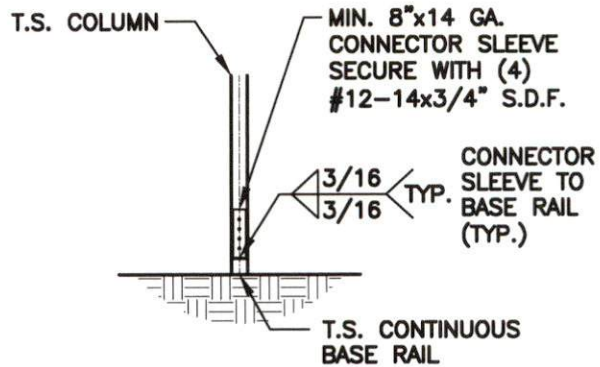
CONNECTION DETAILS



1
S10

POST / BASE RAIL
CONNECTION DETAIL

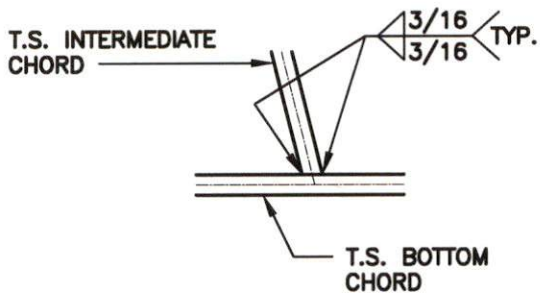
SCALE: 1/2" = 1'-0"



1A
S10

POST / BASE RAIL
CONNECTION DETAIL

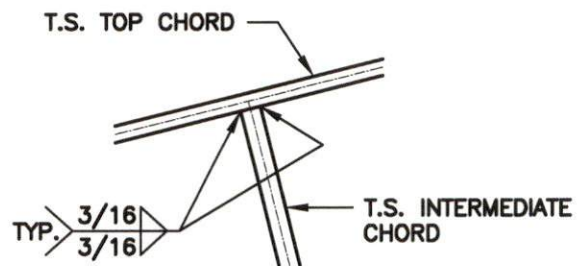
SCALE: 1/2" = 1'-0"



2
S10

INTERMEDIATE CHORD
TO BOTTOM CHORD
CONNECTION DETAIL

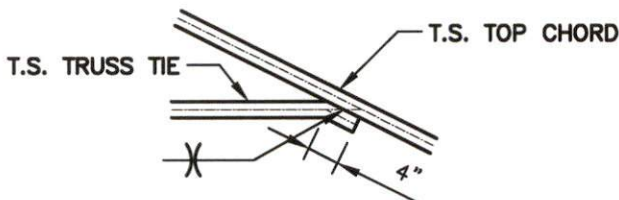
SCALE: 1/2" = 1'-0"



3
S10

INTERMEDIATE CHORD TO TOP
CHORD CONNECTION DETAIL

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



4
S10

TRUSS TIE
CONNECTION DETAIL

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



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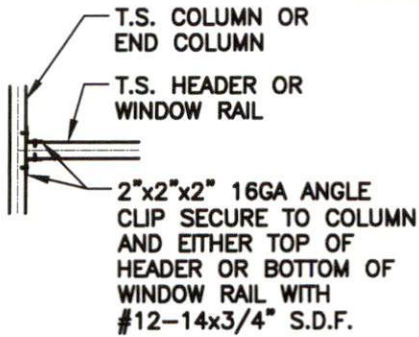
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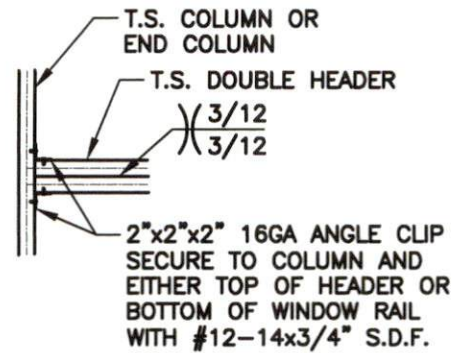
CONNECTION DETAILS



COLUMN OR WINDOW
RAIL / WALL GIRT TO POST
CONNECTION DETAIL

1
S11

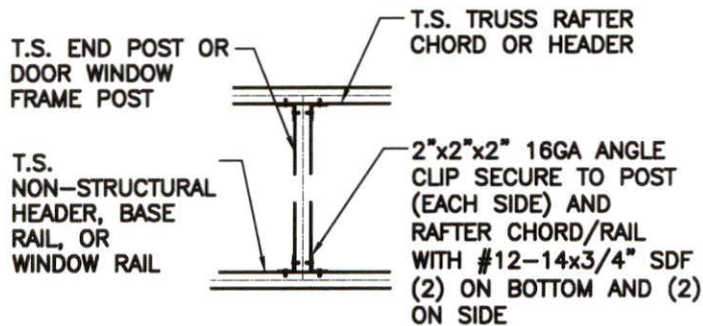
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER
CONNECTION DETAIL

1A
S11

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



DOOR OR WINDOW HEADER
RAIL TO POST CONNECTION
DETAIL

2
S11

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



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V2.0

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Lillington, NC 27546

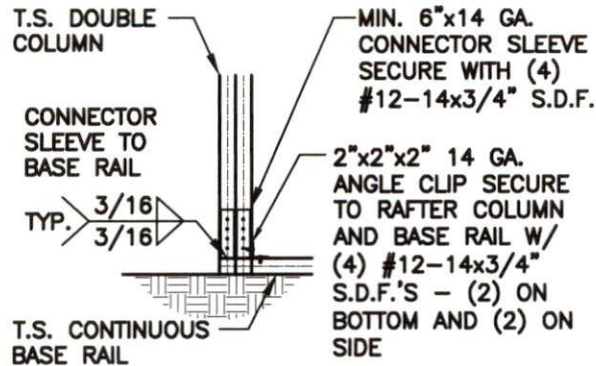
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S11

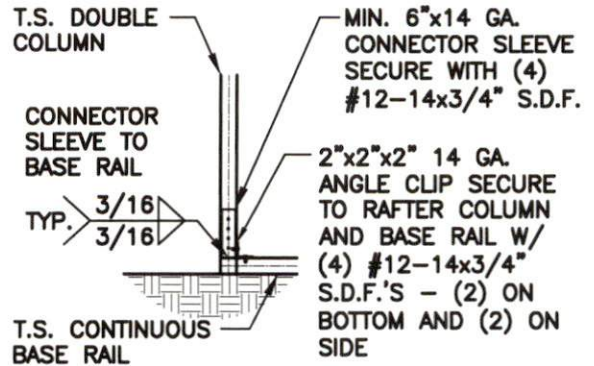
CONNECTION DETAILS



END COLUMN / BASE RAIL
CONNECTION DETAIL

1
S12

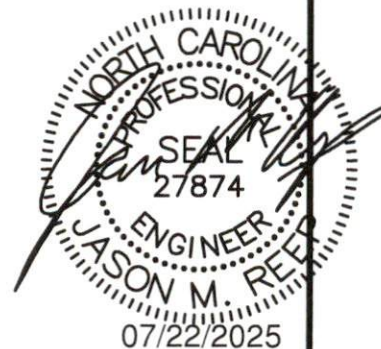
SCALE: 1/2" = 1'-0"



END COLUMN / BASE RAIL
CONNECTION DETAIL

1A
S12

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



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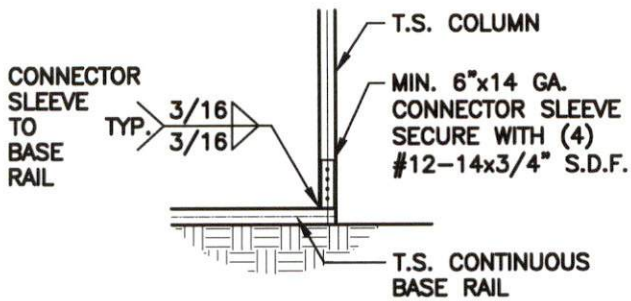
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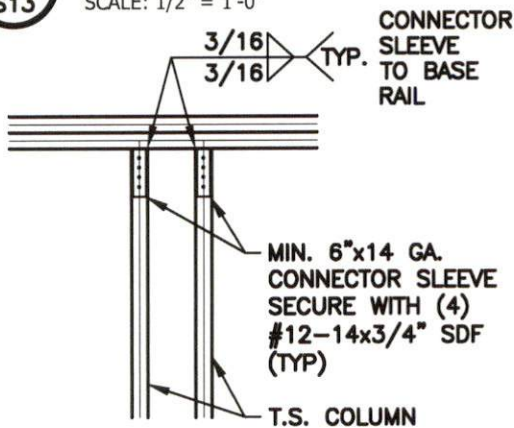
SHEET NO:
S12

CONNECTION DETAILS



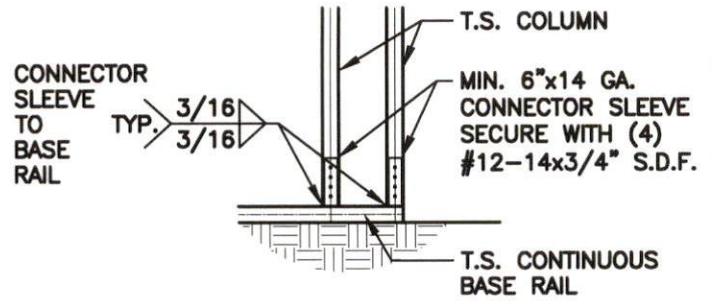
1
S13 COLUMN / BASE RAIL CONNECTION DETAIL

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



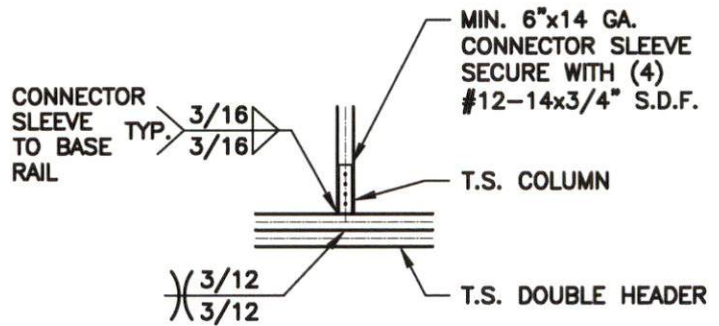
2
S13 DOUBLE HEADER / COLUMN CONNECTION DETAIL

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



1A
S13 COLUMN / BASE RAIL CONNECTION DETAIL

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



3
S13 COLUMN / DOUBLE HEADER CONNECTION DETAIL

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



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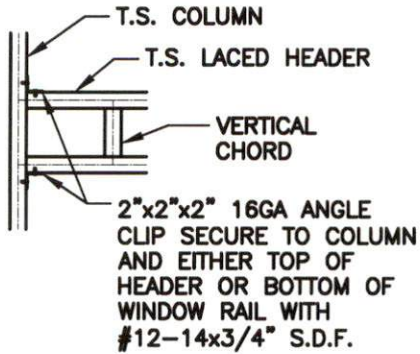
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S13

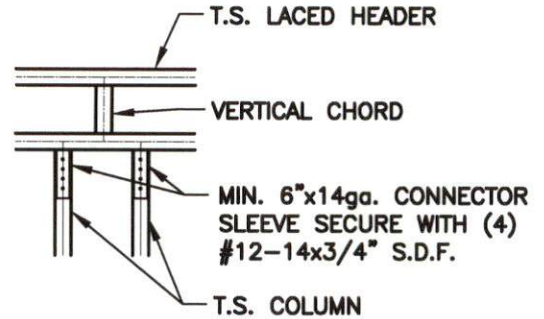
CONNECTION DETAILS



COLUMN / LACED HEADER
CONNECTION DETAIL

1
S14

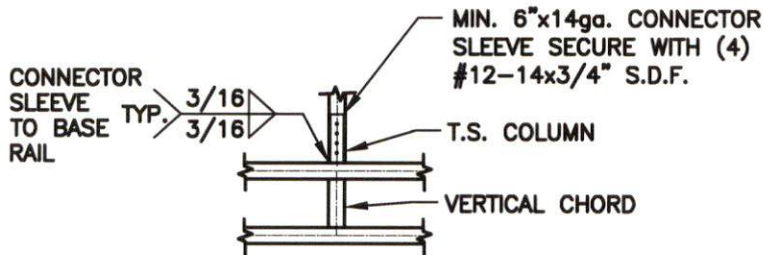
SCALE: 1/2" = 1'-0"



LACED HEADER / COLUMN
CONNECTION DETAIL

2
S14

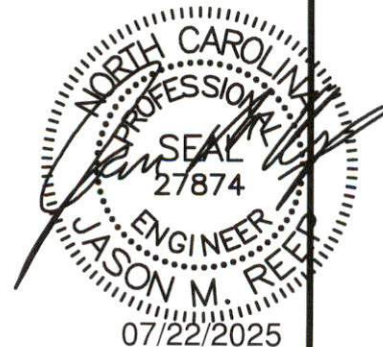
SCALE: 1/2" = 1'-0"



COLUMN / LACED HEADER
CONNECTION DETAIL

3
S14

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



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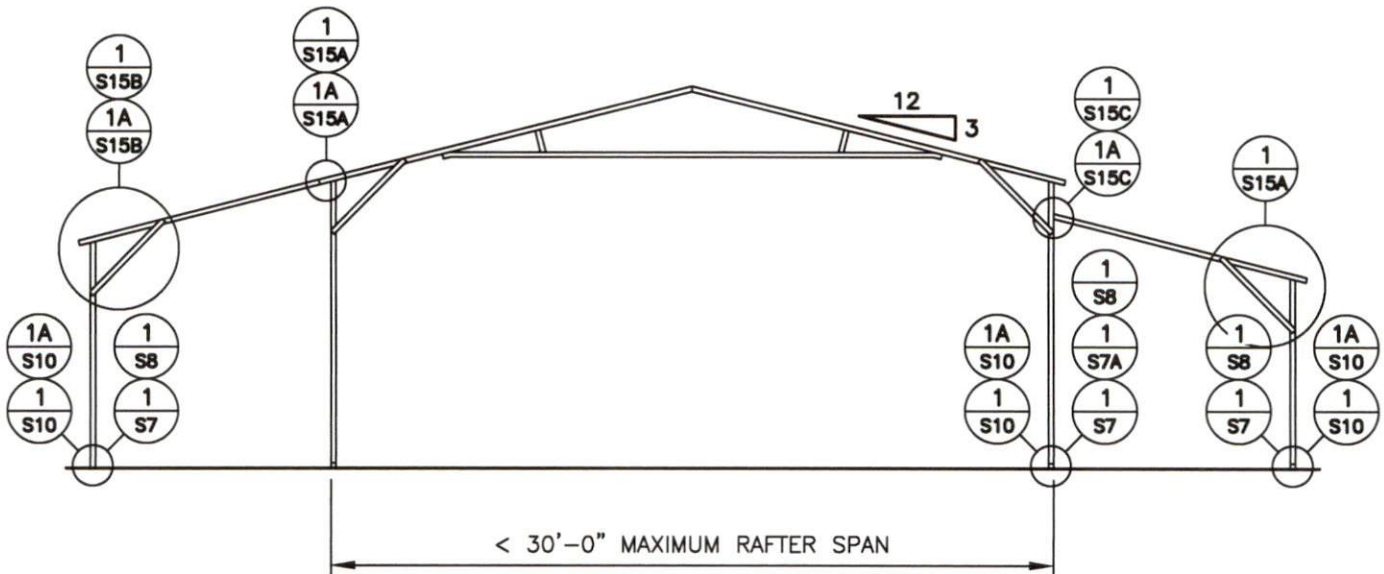
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BKS

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S14

BOX EVE RAFTER LEAN-TO OPTIONS

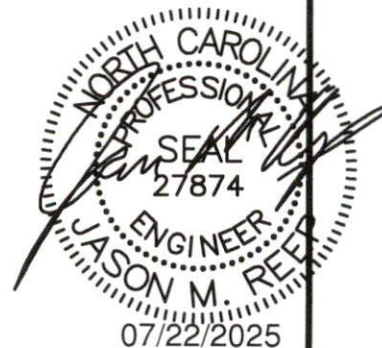


TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0"

MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0"

12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN



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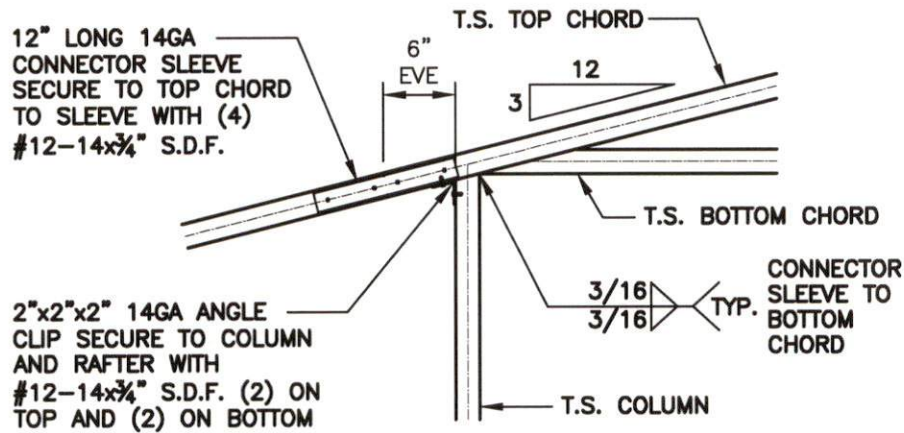
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S15

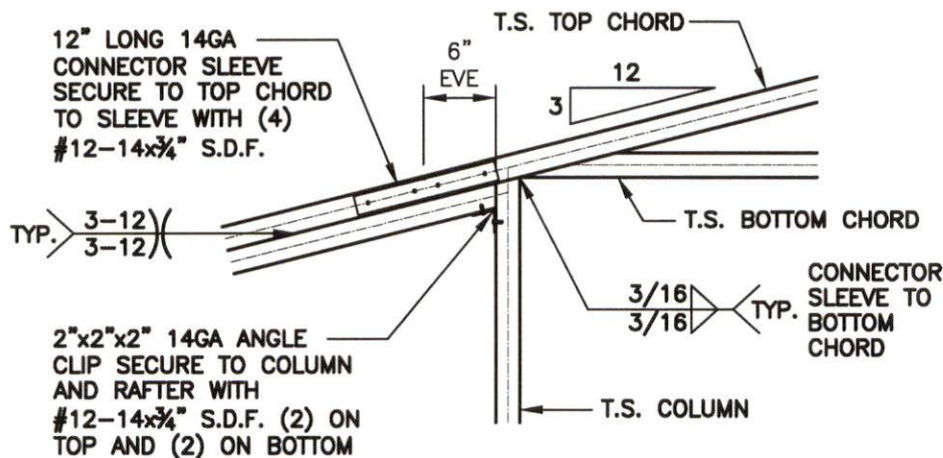
LEAN-TO CONNECTION DETAILS



ROOF EXTENSION RAFTER / CORNER POST
DETAIL FOR WIDTHS < 12'-0"



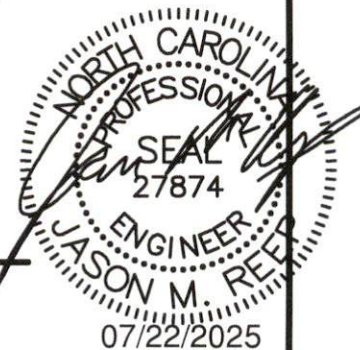
SCALE: 3/4" = 1'-0"



ROOF EXTENSION RAFTER / CORNER POST
DETAIL FOR WIDTHS < 15'-0"



SCALE: 3/4" = 1'-0"



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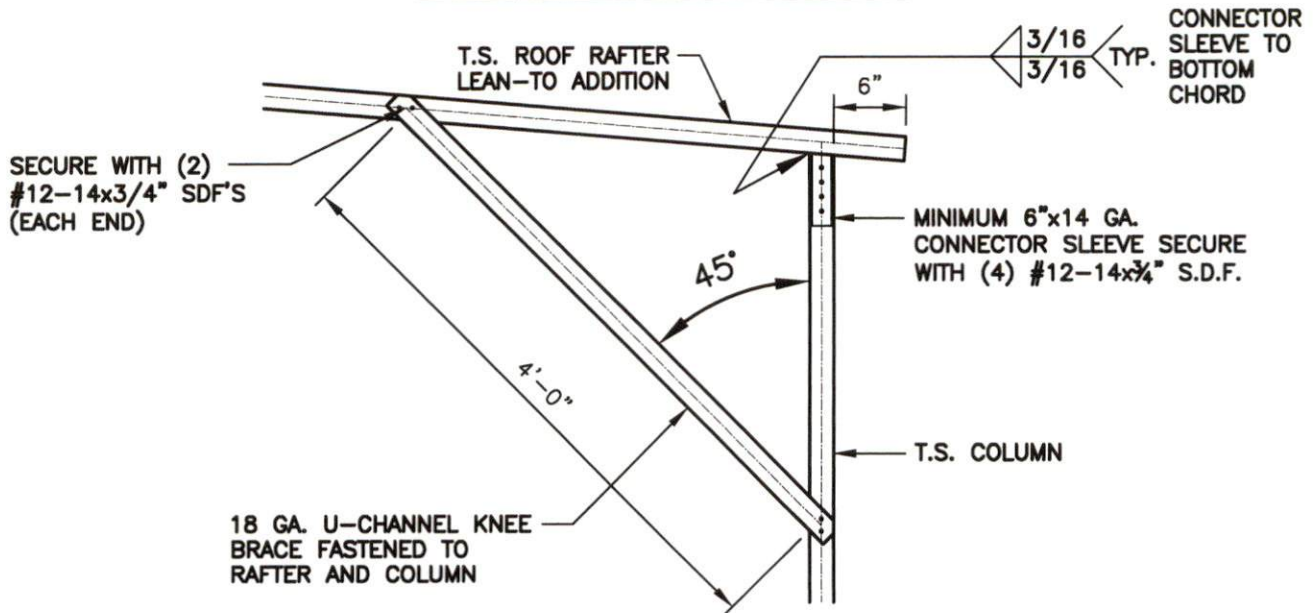
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SHEET NO:
S15A

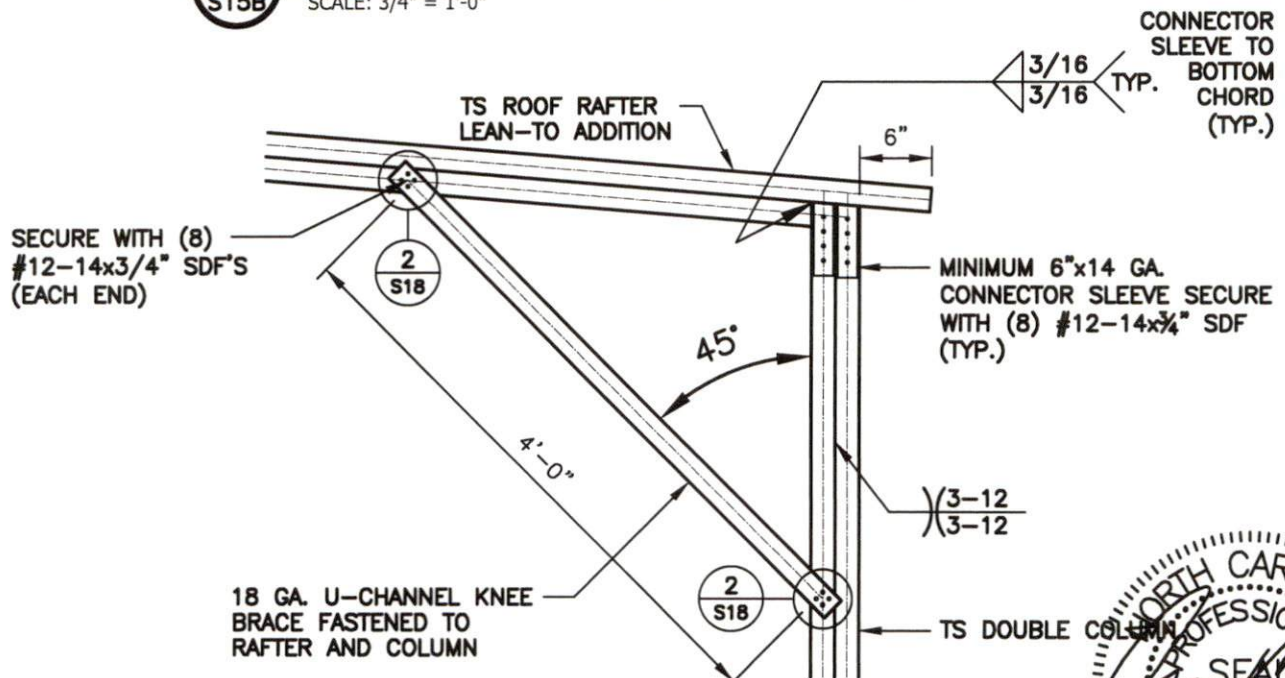
LEAN-TO CONNECTION DETAILS



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR LEAN-TO RAFTER SPAN <12'-0"**

1
S15B

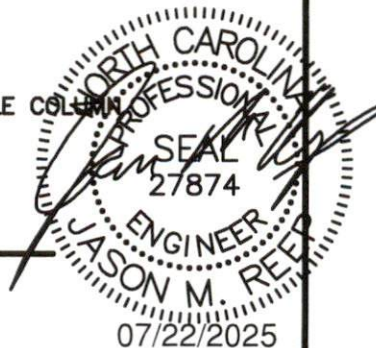
SCALE: 3/4" = 1'-0"



**BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR LEAN-TO RAFTER SPAN <15'-0"**

1A
S15B

SCALE: 3/4" = 1'-0"



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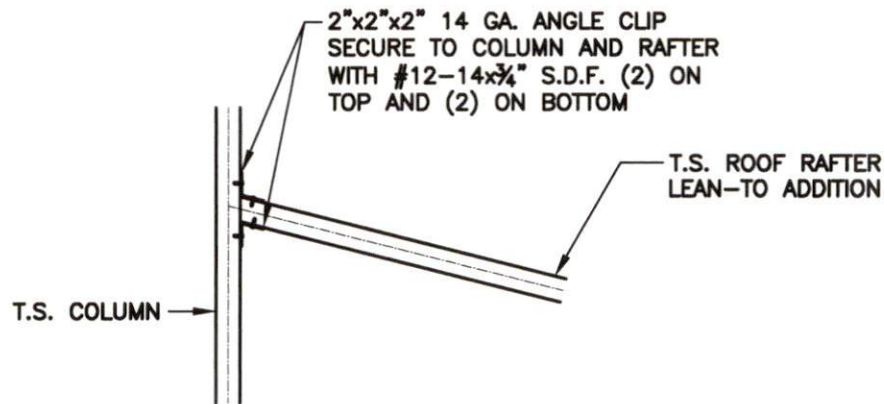
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DATE:
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SHEET NO:
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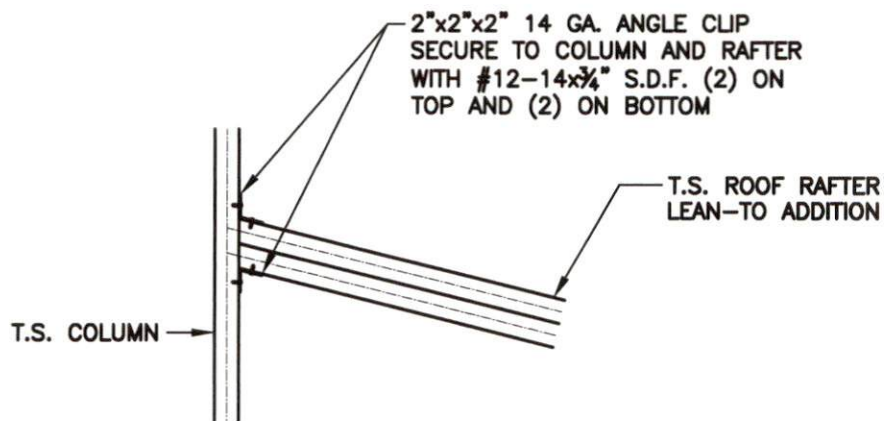
LEAN-TO CONNECTION DETAILS



LEAN-TO RAFTER TO RAFTER POST
CONNECTION DETAIL FOR WIDTHS < 12'-0"

1
S15C

SCALE: 3/4" = 1'-0"



LEAN-TO RAFTER TO RAFTER POST
CONNECTION DETAIL FOR WIDTHS < 15'-0"

1A
S15C

SCALE: 3/4" = 1'-0"



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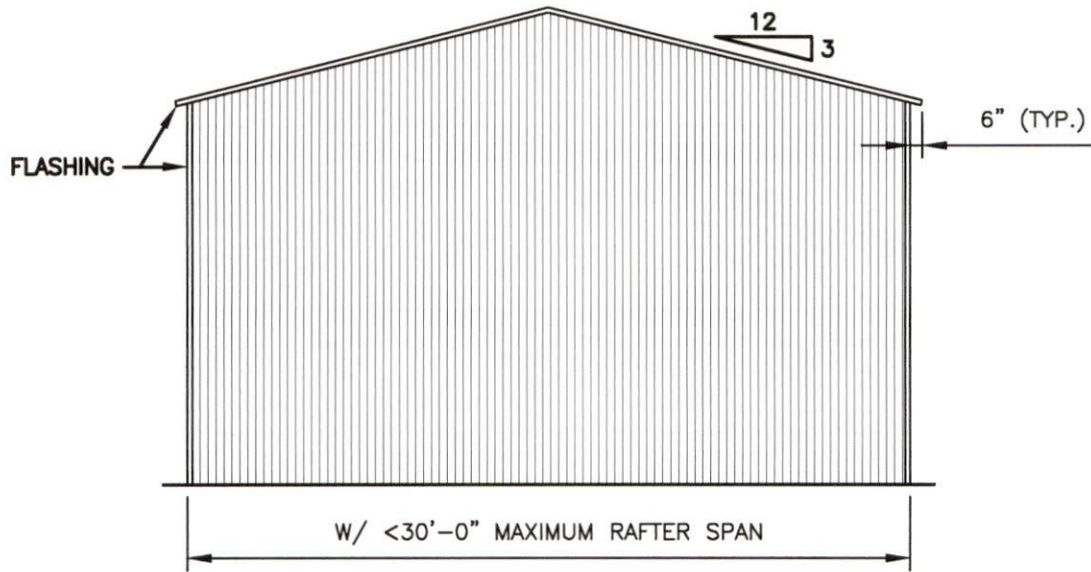
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0325-0801

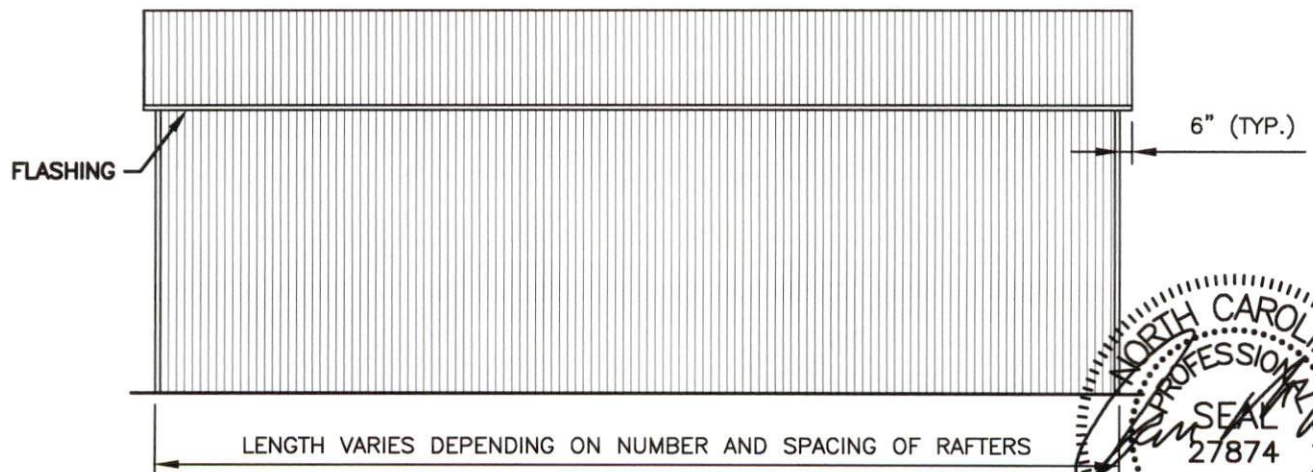
DATE:
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SHEET NO:
S15C

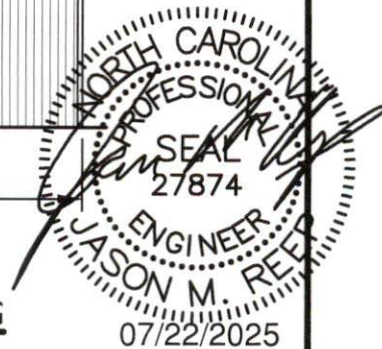
VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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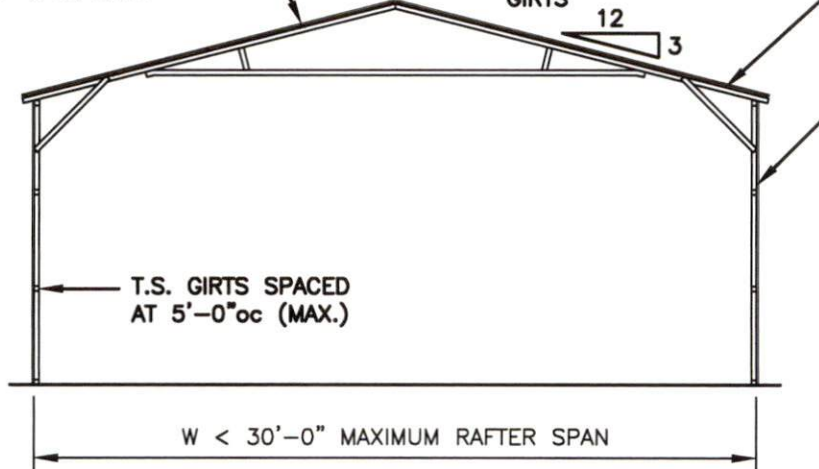
PROJECT NO:
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SHEET NO:
S16

VERTICAL ROOF / SIDING OPTION

1.125"-18 GA. HAT CHANNELS
FASTENED TO EACH RAFTER
WITH (2) #12-14x $\frac{3}{4}$ " S.D.F.
SPACED AT 4'-0"oc MAX.

29 GA. GALVANIZED
METAL ROOF AND WALL
PANELS FASTENED TO
HAT CHANNELS AND
GIRTS



TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR
2-1/4"x2-1/4"x14ga. MATERIAL
MAY BE USED FOR TRUSS METAL.



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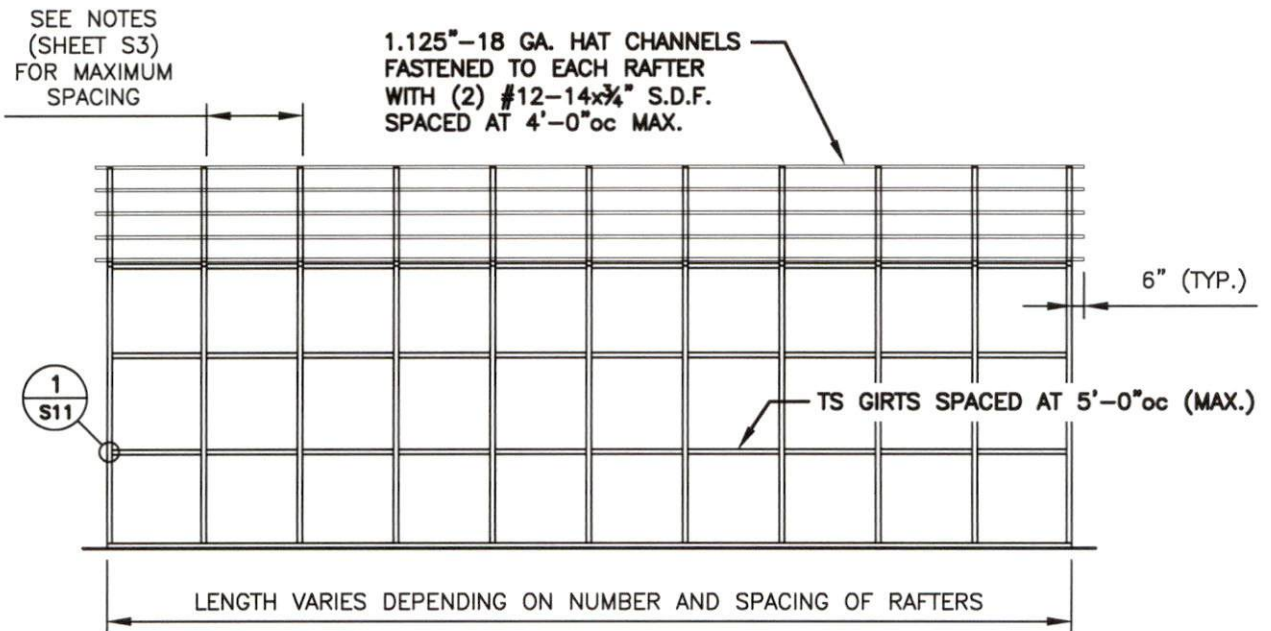
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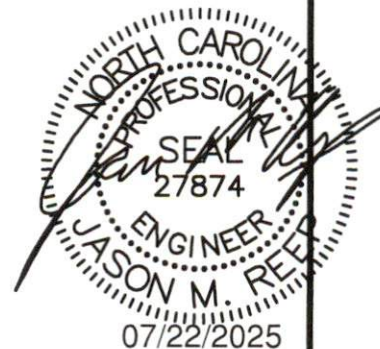
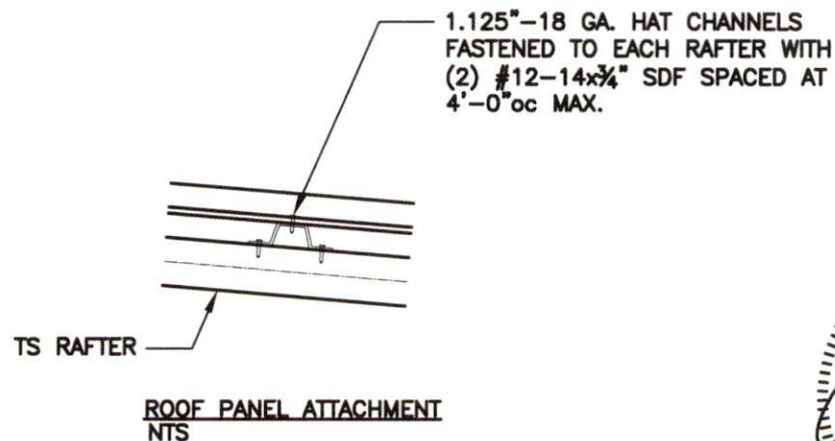
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VERTICAL ROOF / SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



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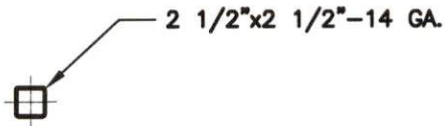
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PROJECT NO:
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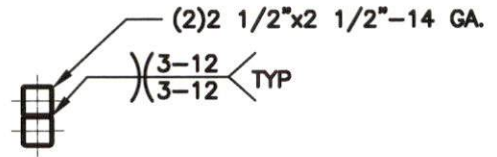
DATE:
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SHEET NO:
S108

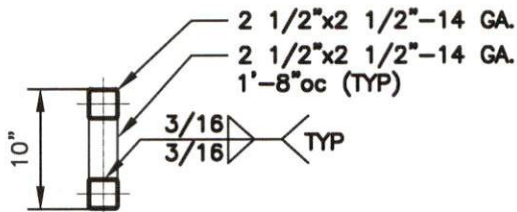
SIDE WALL HEADER OPTIONS



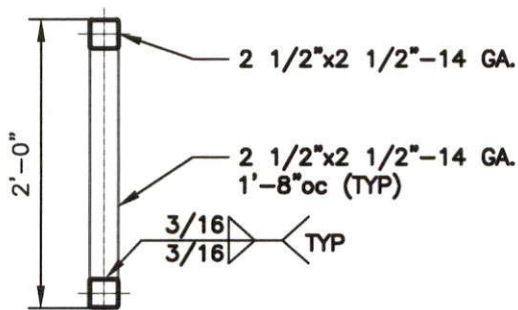
HEADER DETAIL FOR DOOR
OPENINGS < 4'-0"
 NTS



HEADER DETAIL FOR DOOR
OPENINGS 4'-1" < TO < 12'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 12'-1" < TO < 15'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 15'-1" < TO < 20'-0"



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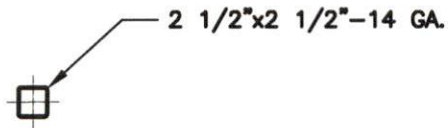
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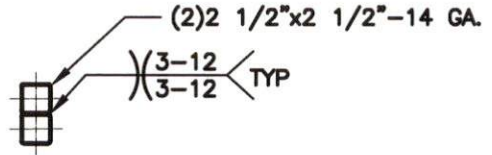
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SHEET NO:
S17

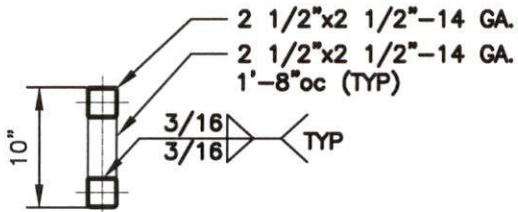
END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR
OPENINGS < 7'-0"
 NTS



HEADER DETAIL FOR DOOR
OPENINGS 7'-1" < TO < 16'-0"
 NTS



LACED HEADER DETAIL FOR DOOR
OPENINGS 16'-1" < TO < 20'-0"
 NTS



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S17A