

BR1908-0009



STRUCTURAL DESIGN
ENCLOSED BUILDING

**MAXIMUM 40'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE
FRAME**

**14 December 2018
Revision 8**

M&A Project No. 15130S/15207S/15209S/16155S/16207S/17155S/17200S/18068S/18290S

Prepared for:

**Steel Building Structures, Inc.
P.O. Box 1287
Mt. Airy, NC 27030**

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

**1009 East Avenue
North Augusta, SC 29841**

**401 S. Main St., Suite 200
Mt. Airy, NC 27030**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDING AND STRUCTURES INC.
PE COVER SHEET
40'-0" x 20'-0" ENCLOSED BUILDING

DATE: 12-14-18

SCALE: NTS





172005/
JOB NO: 190695/182905

SHT. 1

DWG. NO: SK-3

REV. B

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	Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 12/14/18		
			
			
			

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	CLIENT: SBSI	SHT. 1A	DWG. NO: SK-3	REV: 8

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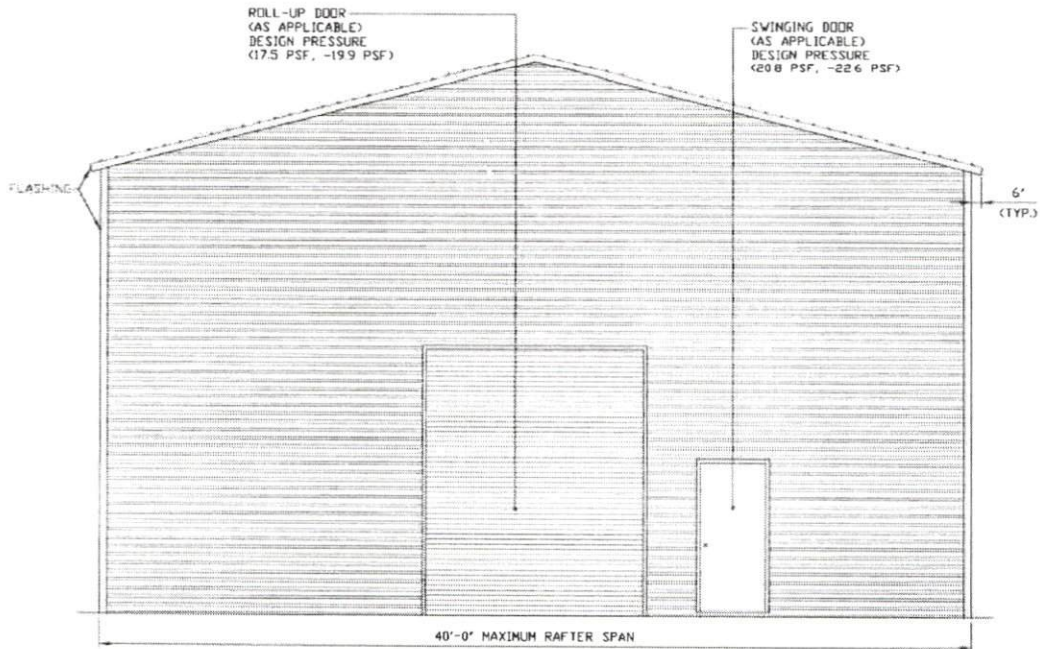
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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR A MAXIMUM 40'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC AND 2015 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) ROOF LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
4. ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
5. END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL POSTS UNLESS NOTED OTHERWISE.
6. LOW HAZARD RISK CATEGORY I (WIND).
7. WIND EXPOSURE CATEGORY B.
8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE STEEL TUBE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS (INTERIOR OR END) = 8 INCHES.
10. FASTENERS CONSIST OF 1/4"x3/4" SELF-DRILLING FASTENERS WITH CONTROL SEAL WASHER. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14' (3:12 PITCH) SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
11. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R = 3.25
 - S_{DS} = 2.039
 - S_{DI} = 1.258
 - I_E = 1.0
 - V = C_sW

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BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NTS

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SHT. 4

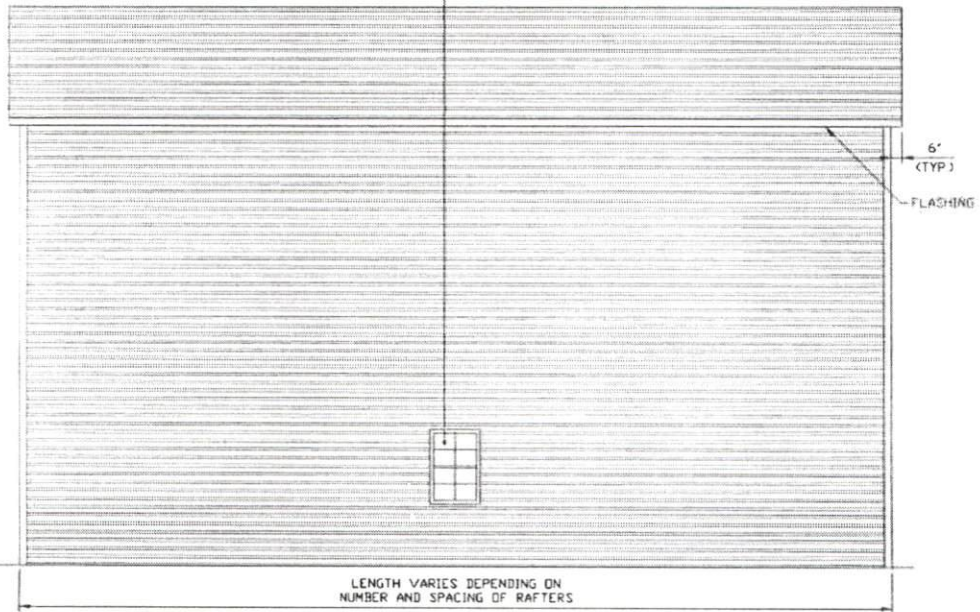
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BOX EAVE FRAME RAFTER ENCLOSED BUILDING

WINDOW (AS APPLICABLE)
DESIGN PRESSURE
(21.8 PSF, -23.6 PSF)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

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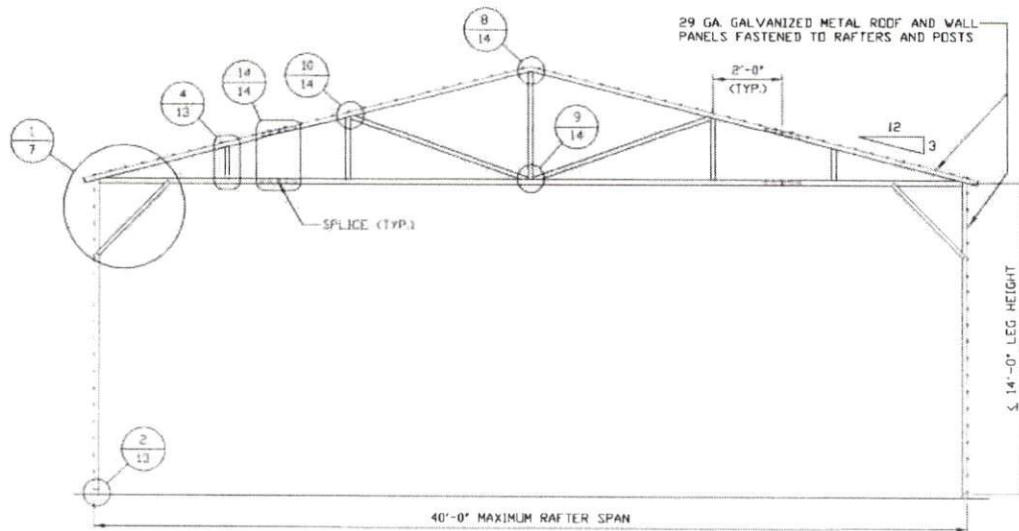
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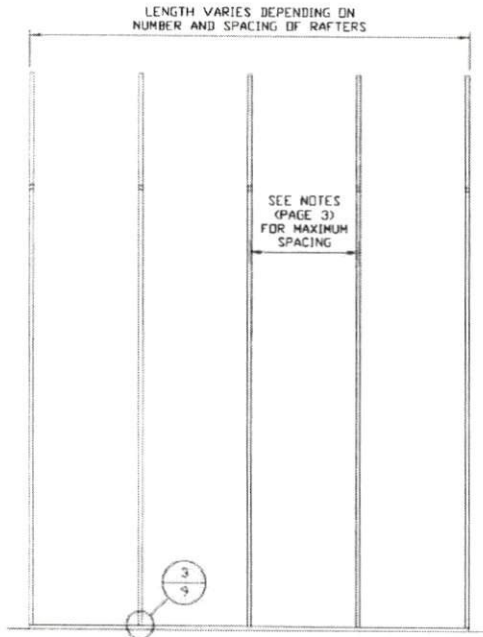
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TYPICAL RAFTER/POST FRAME SECTION (H ≤ 14'-0")
SCALE: NTS



TYPICAL RAFTER/POST SIDE FRAMING SECTION
SCALE: NTS

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SCALE: NTS

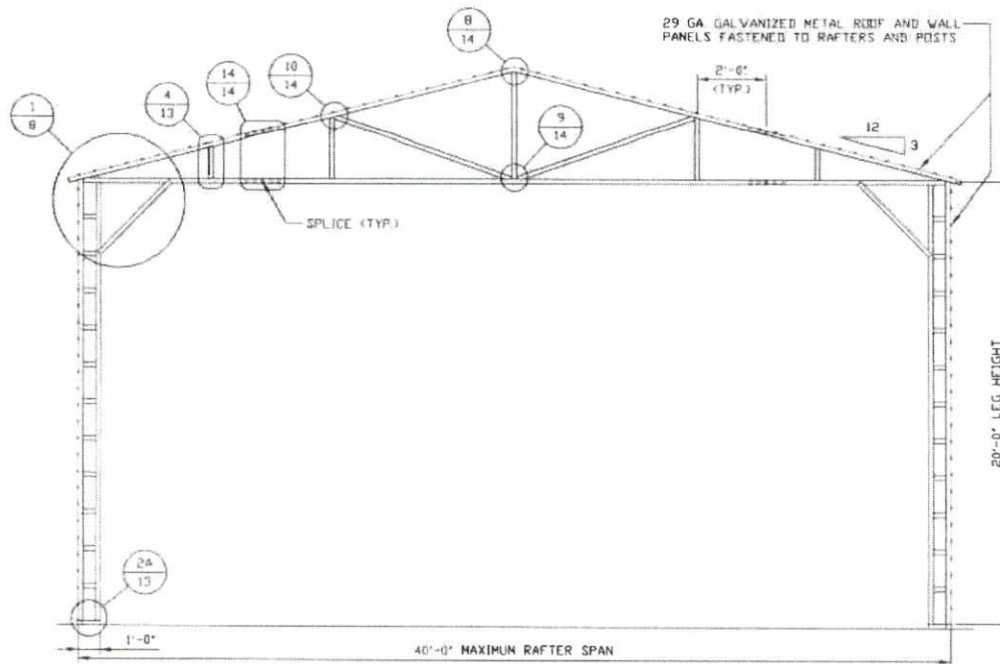
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SHT. 5

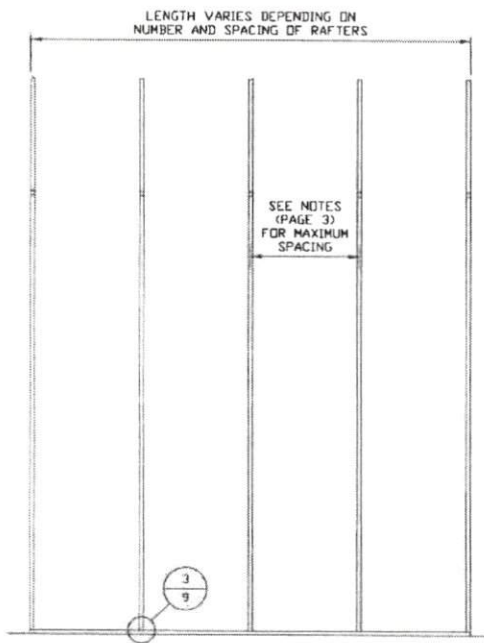
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TYPICAL RAFTER/POST FRAME SECTION ($14' < H \leq 20'$)
SCALE: NTS



TYPICAL RAFTER/POST SIDE FRAMING SECTION
SCALE: NTS

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SHT. 6

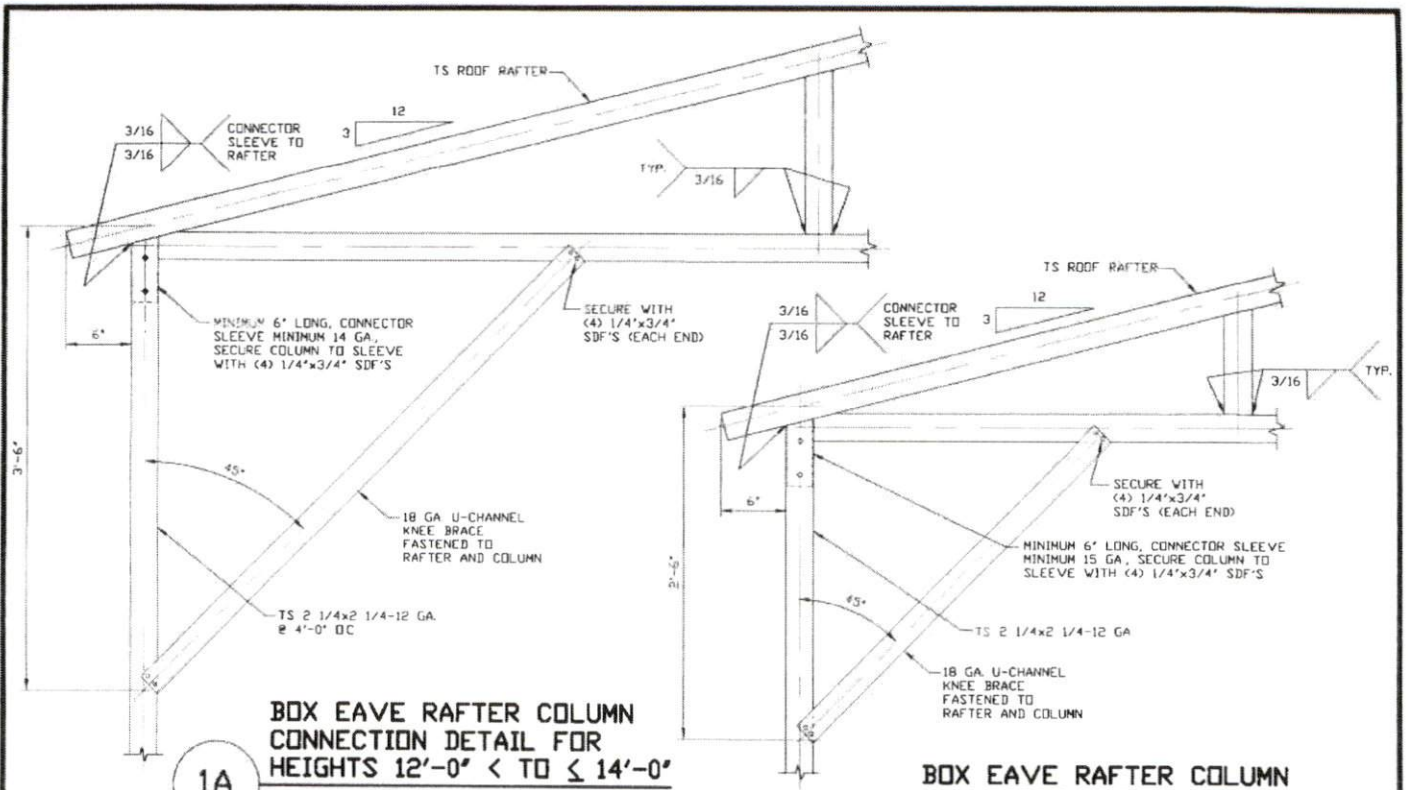
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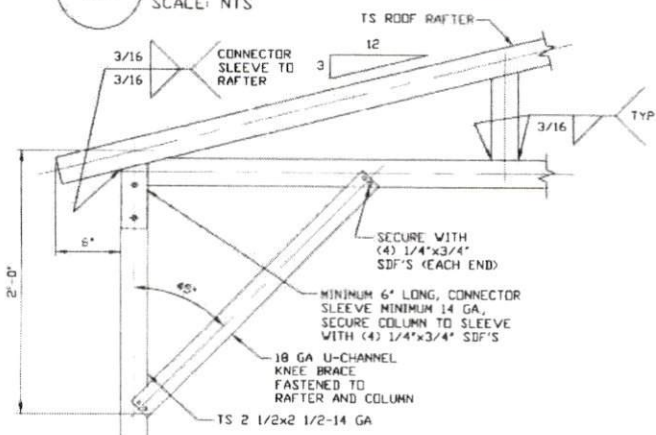
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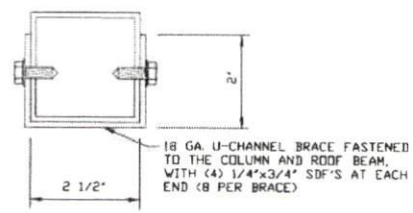


1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 14'-0"
 SCALE: NTS

1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 12'-0"
 SCALE: NTS

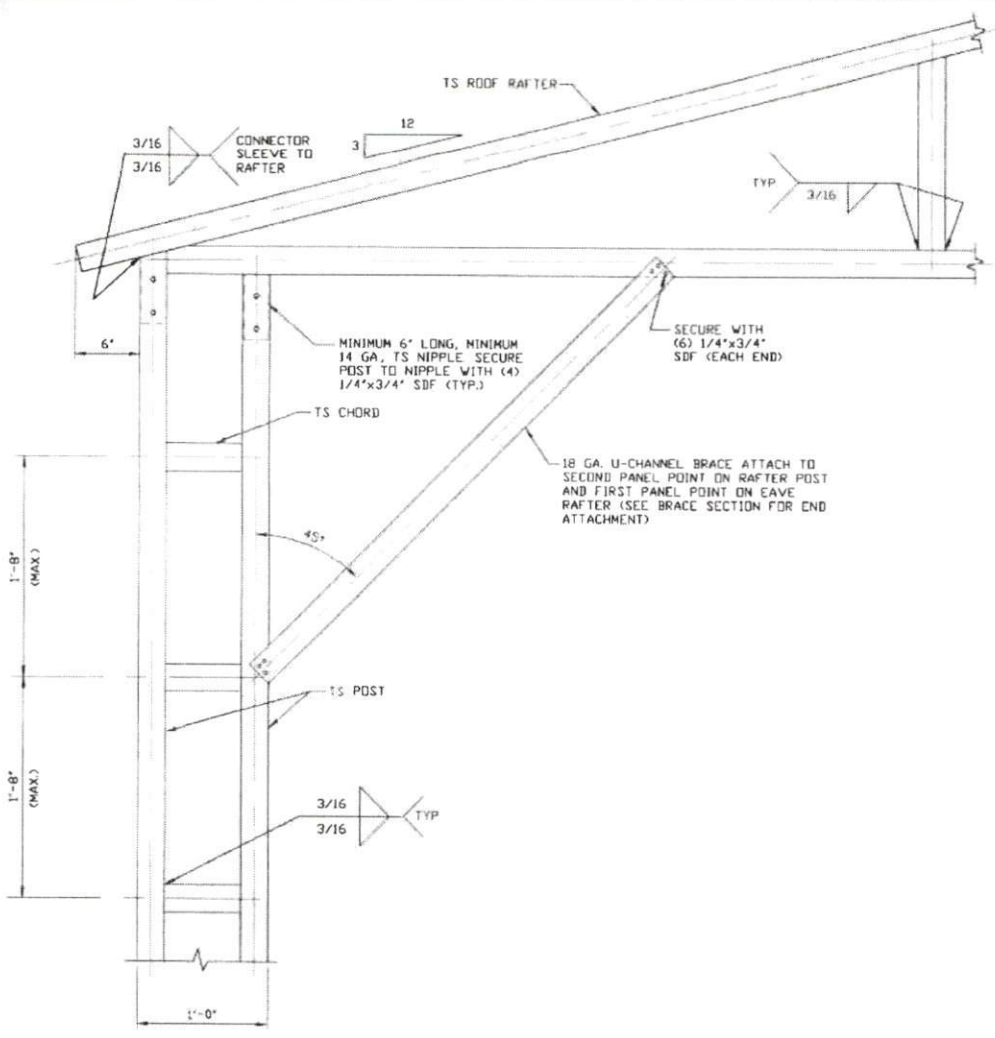


1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"
 SCALE: NTS

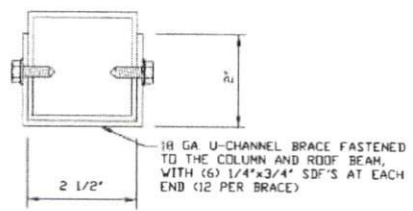


BRACE SECTION
 SCALE: NTS

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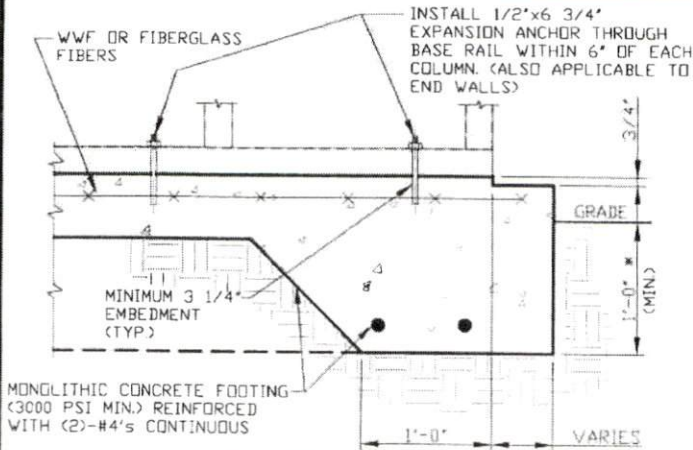
1 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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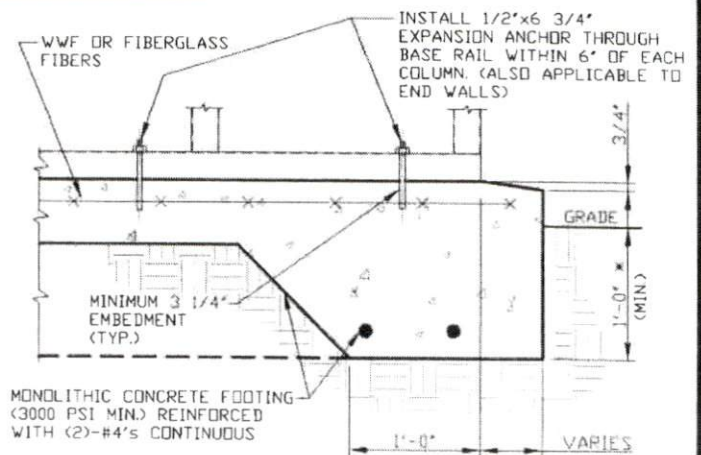
BASE RAIL ANCHORAGE



3A

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD



3B

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD

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

REINFORCING STEEL:

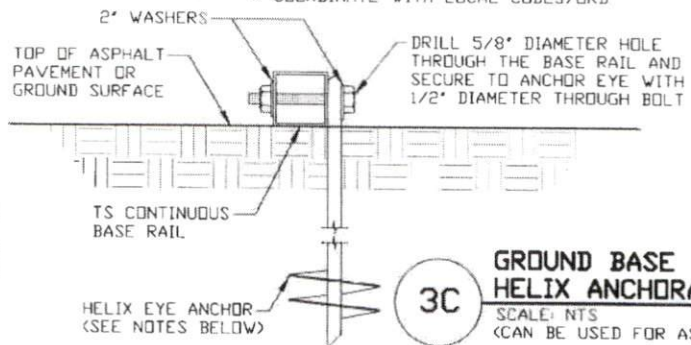
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCING STEEL SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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 FIELD 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.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



3C

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

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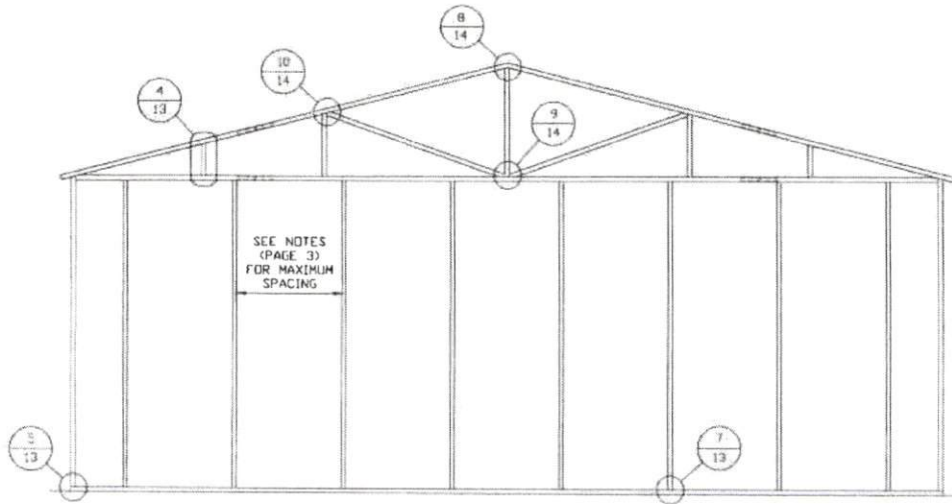
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION (H ≤ 14'-0")
SCALE: NTS

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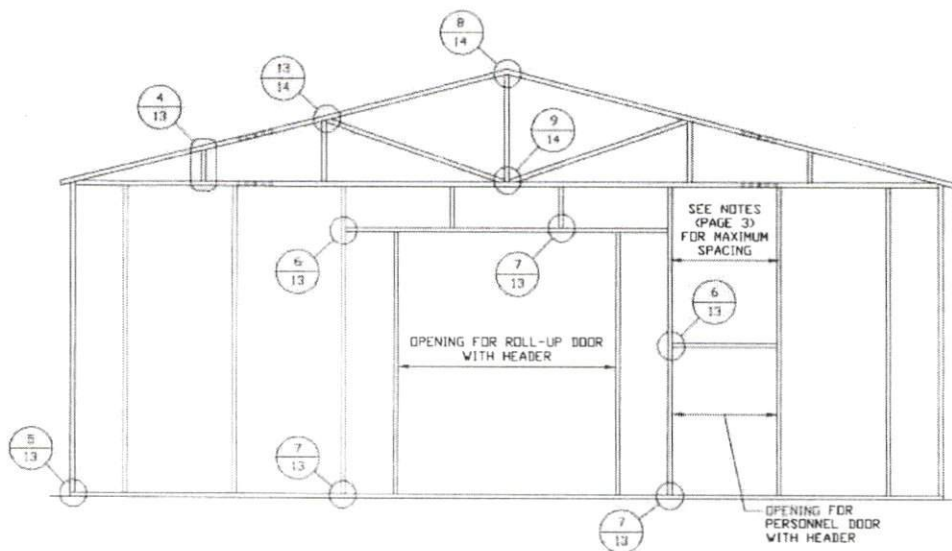
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION (H ≤ 14'-0")

SCALE: NTS

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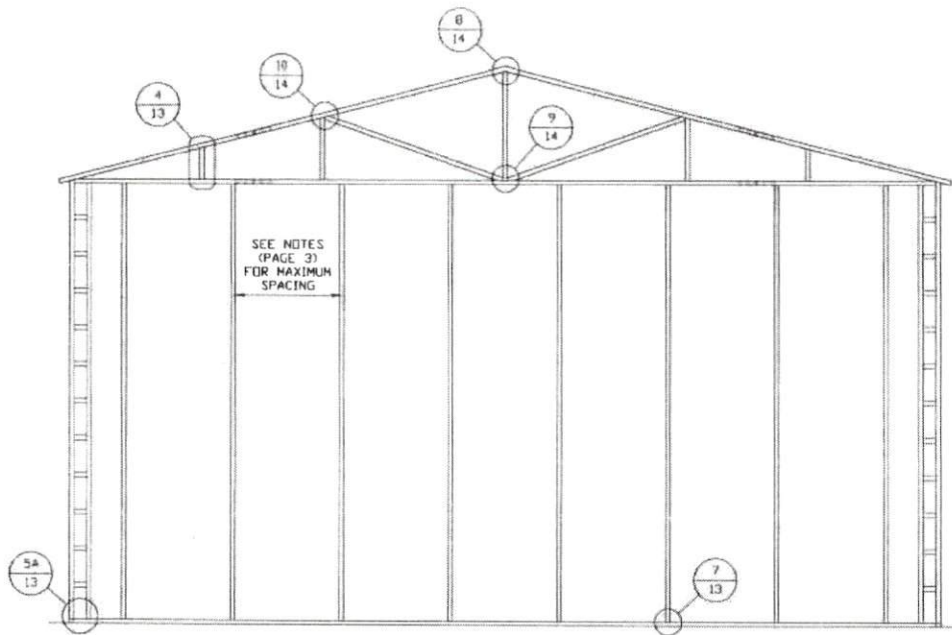
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION (<math>14'-0'' < H \leq 20'-0''</math>)

SCALE: NTS

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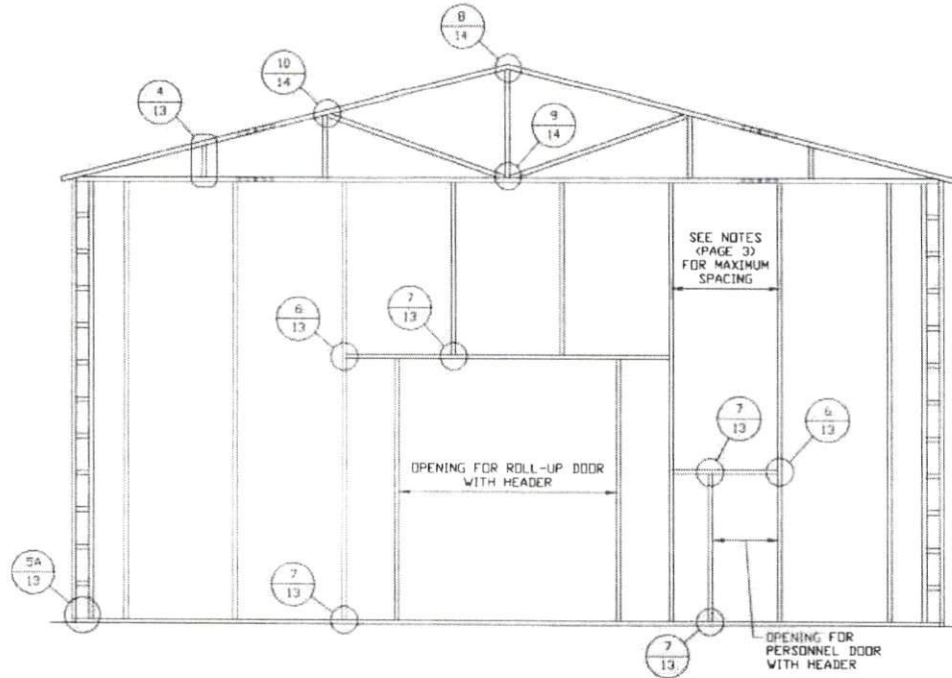
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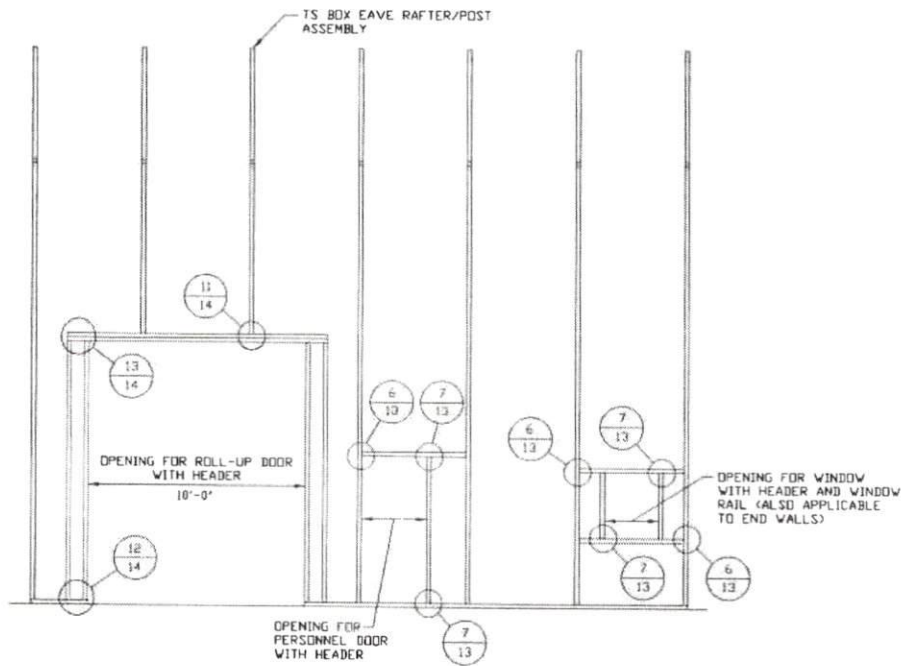
BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION (14'-0" < H ≤ 20'-0")
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BOX EAVE RAFTER SIDE WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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40'-0" x 20'-0" ENCLOSED BUILDING

DATE: 12-14-18

SCALE: NTS

JOB NO: 17200S/18068S/18290S

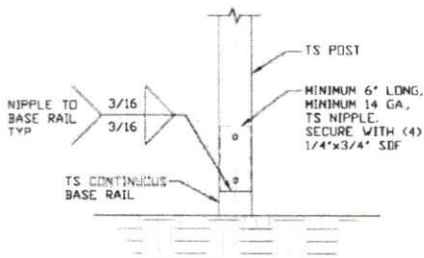
SHT. 12

DWG. NO: SK-3

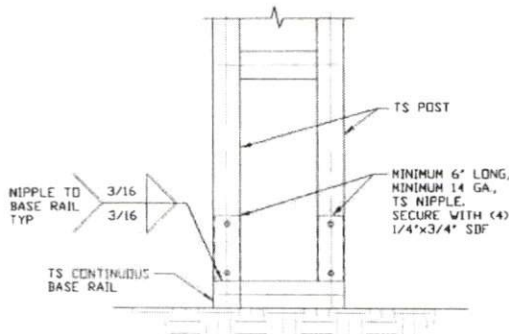
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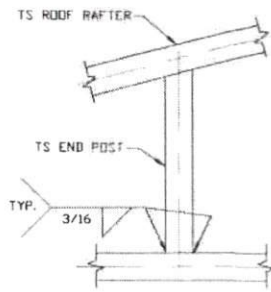
BOX EAVE RAFTER WALL OPENING DETAILS



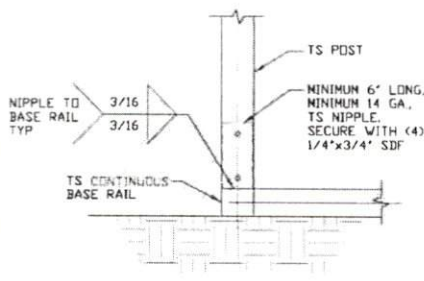
2 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



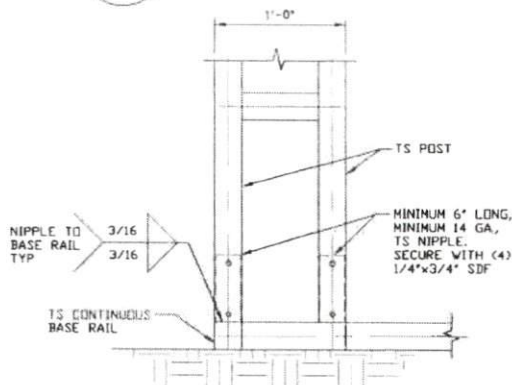
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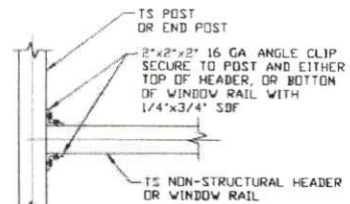
4 END POST/RAFTER CONNECTION DETAIL
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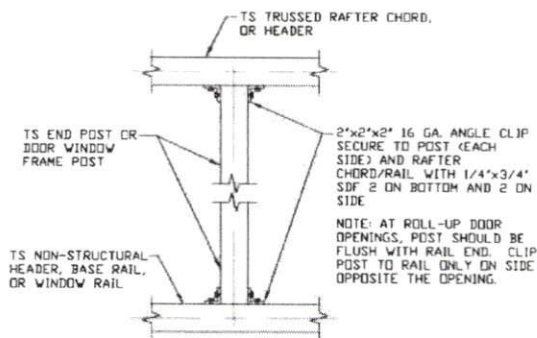
5 END POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



5A END POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



6 HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



7 POST TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS

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DRAWN BY: AT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDING AND STRUCTURES INC.
P.O. BOX 1287,
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40'-0" x 20'-0" ENCLOSED BUILDING

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SHT. 13

SCALE: NTS

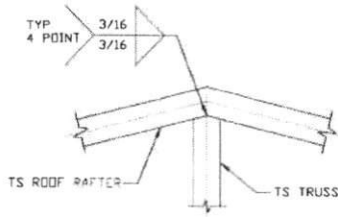
DWG. NO. SK-3

JOB NO. 17200S/
1806AS/18290S

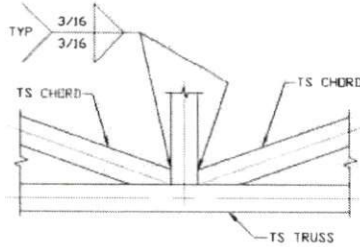
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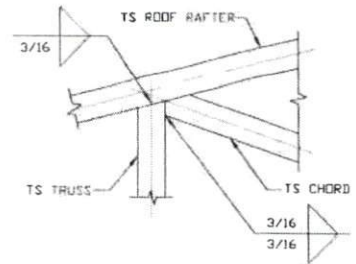
BOX EAVE RAFTER WALL OPENING DETAILS



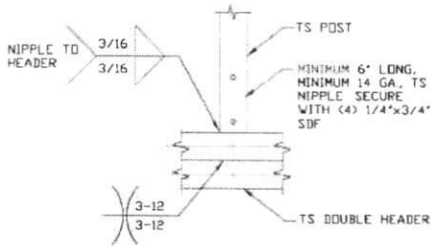
8 CENTER POST TO RAFTER CONNECTION DETAIL
SCALE: NTS



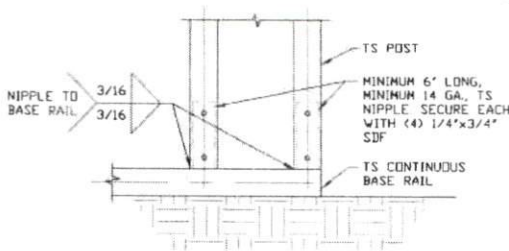
9 CENTER POST TO TRUSS BASE CONNECTION DETAIL
SCALE: NTS



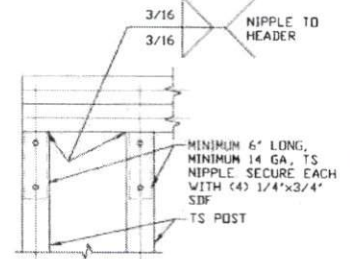
10 TRUSS POST AND CHORD TO RAFTER CONNECTION DETAIL
SCALE: NTS



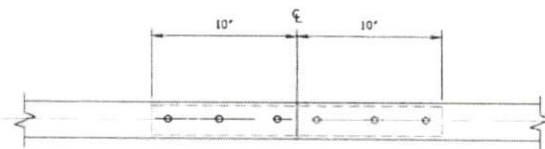
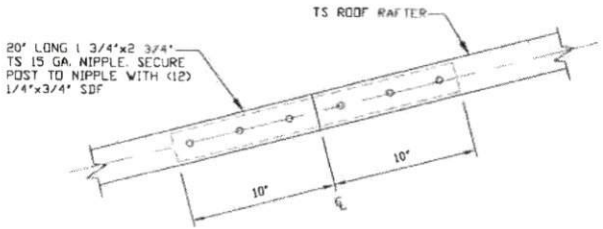
11 POST/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



12 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



13 DOUBLE HEADER/POST CONNECTION DETAIL
SCALE: NTS



14 SPLICE CONNECTION DETAIL
SCALE: NTS

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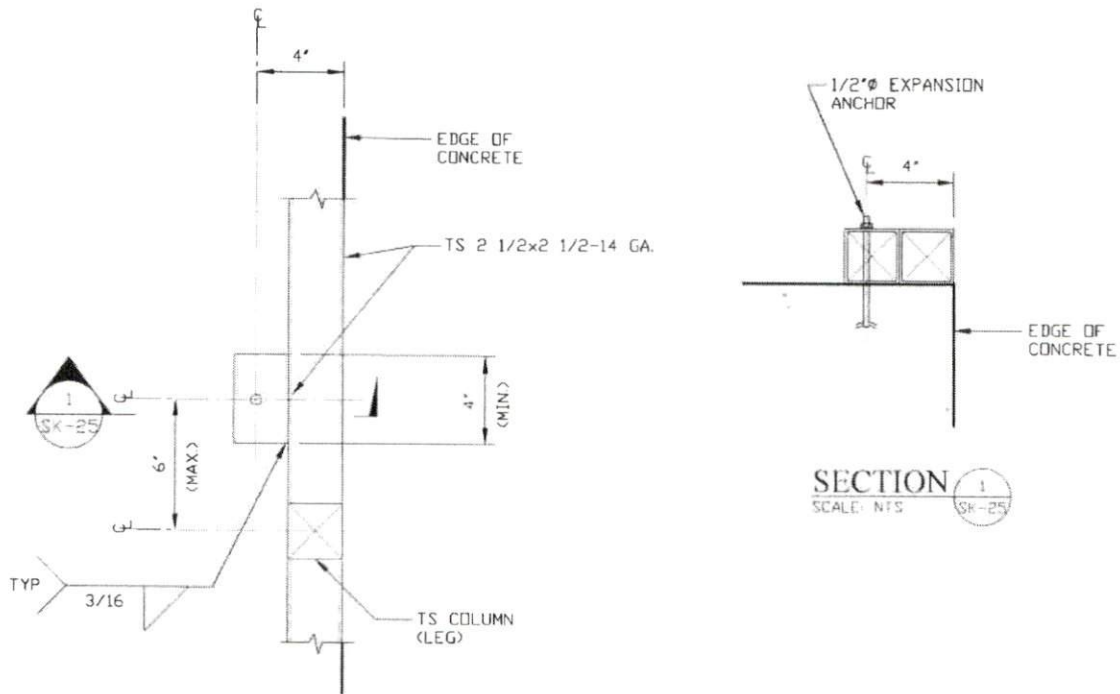
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JOB NO: 172005/182905
SHT. 14
DWG. NO. SK-3
REV. 0

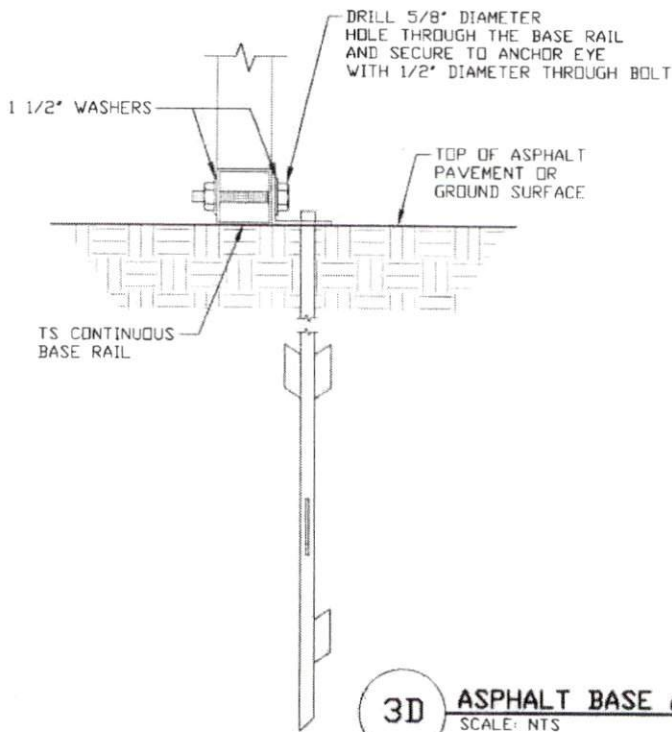
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ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



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**JOB NO: 17200S/
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SHT. 25

DWG. NO: SK-3

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