



STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 30'-0" WIDE X 16'- 0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

**2 October 2020
Revision 0
M&A Project No. 20198S**

Prepared for:

**Custom Built Structures, Inc.
1124 N. South Street
Mt. Airy, NC 27030**

Prepared by:

**Moore and Associates Engineering and Consulting, Inc.
1009 East Avenue
North Augusta, SC 29841**

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



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**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 20198S

SHT. 1

DWG. NO: SK-3

REV: 0

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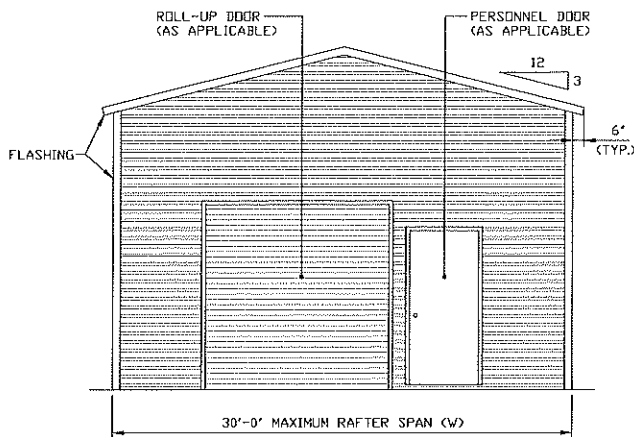
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|---|------------------|---|---------------|----------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JG | CUSTOM BUILT STRUCTURES, INC. 1124 N. SOUTH STREET MOUNT AIRY, NC 27030 30'-0"x16'-0" ENCLOSED STRUCTURE | | |
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| | CLIENT: CBS | SHT. 2 | DWG. NO: SK-3 | REV: 0 |

INSTALLATION NOTES AND SPECIFICATIONS

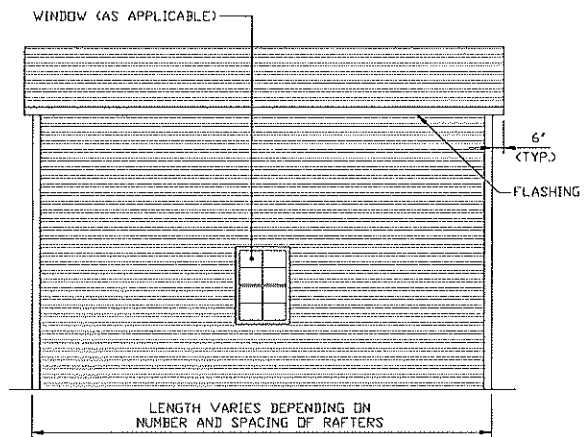
1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 16'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2012 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 45 PSF
 - = 30 PSF WITH U-CHANNEL PEAK BRACE (W ≤ 24'-0")
 - NOTE: UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED.
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) ≤ 145 MPH (NOMINAL WIND SPEED ≤ 112 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4" x 2 1/4" - 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10 INCHES.
11. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 16 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY, ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R = 3.25 $I_e = 1.0$
 - $S_{DS} = 2.039 g$ $V = C_S W$
 - $S_{D1} = 1.258 g$

| | | | | |
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BOX EAVE FRAME RAFTER STRUCTURE

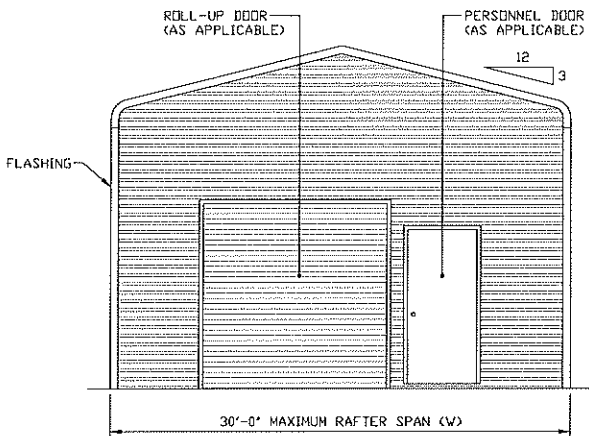


TYPICAL END ELEVATION
SCALE: NTS

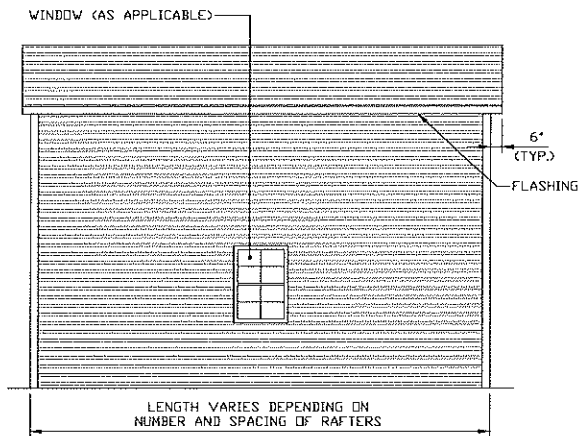


TYPICAL SIDE ELEVATION
SCALE: NTS

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

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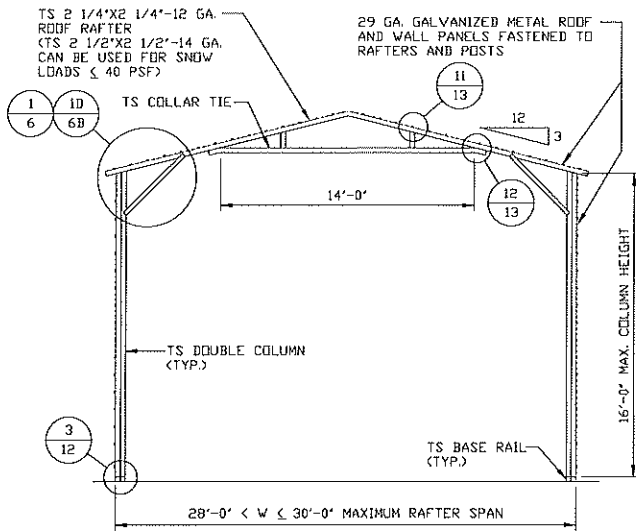
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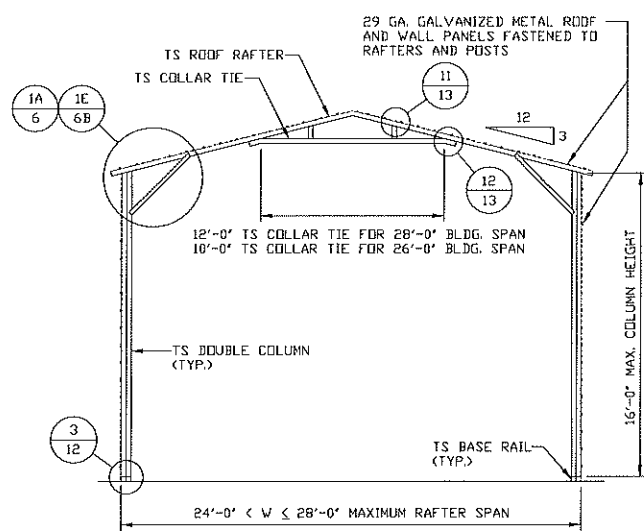
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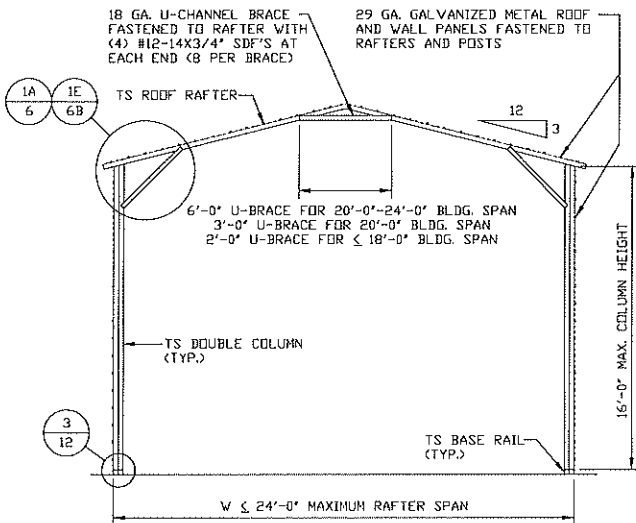
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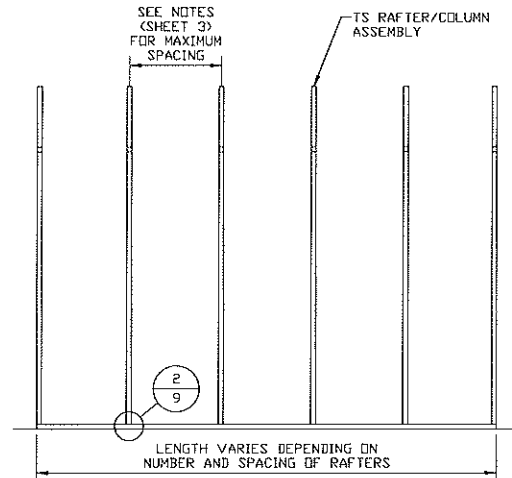
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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SHT. 5

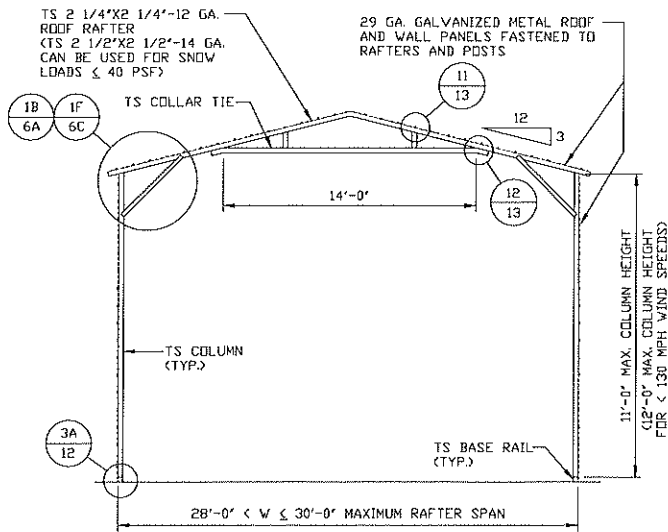
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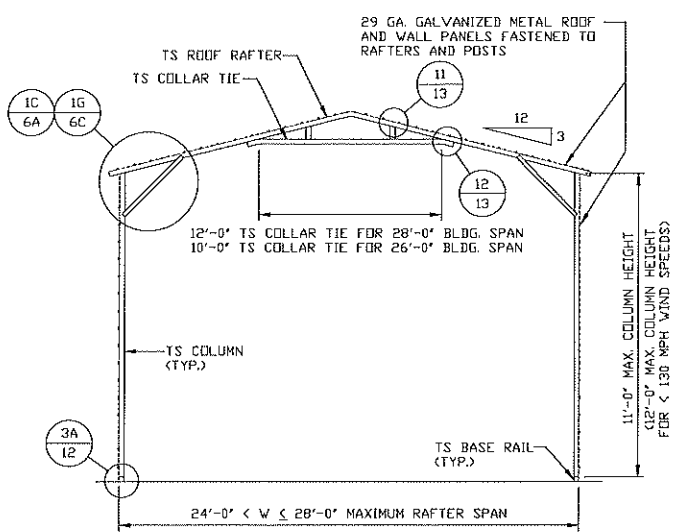
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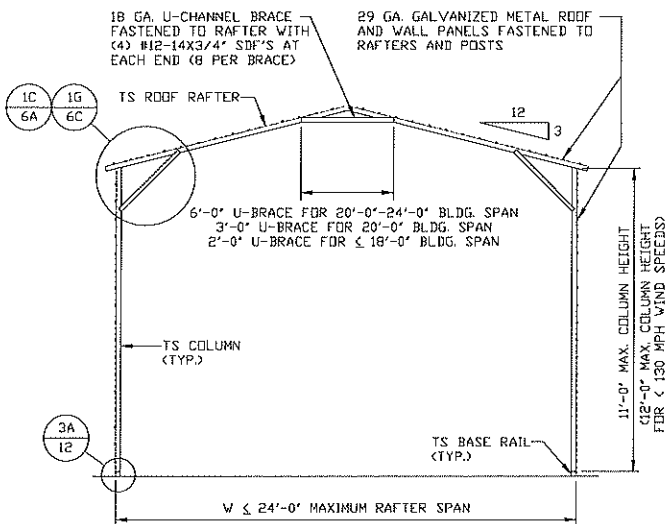
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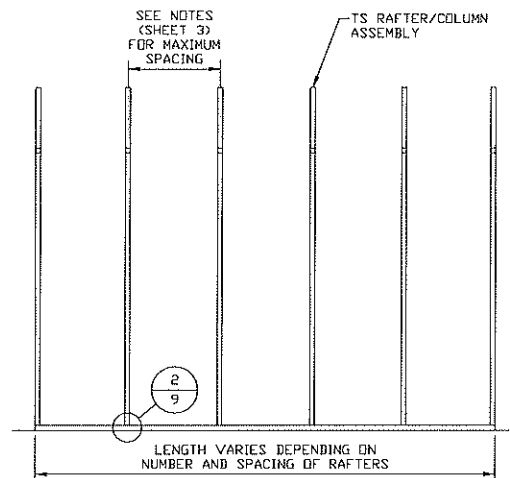
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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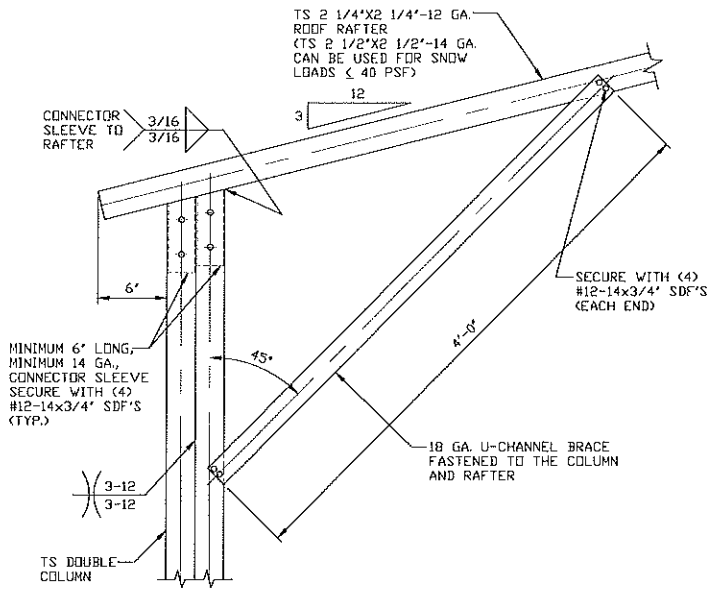
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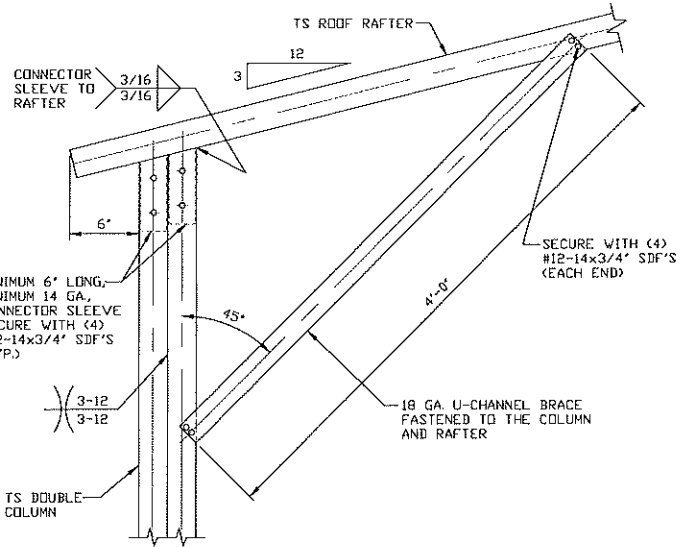
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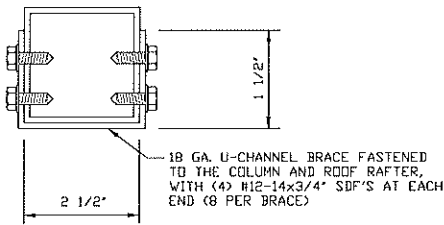
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1 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0" SCALE: NTS



1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0" SCALE: NTS



BRACE SECTION SCALE: NTS

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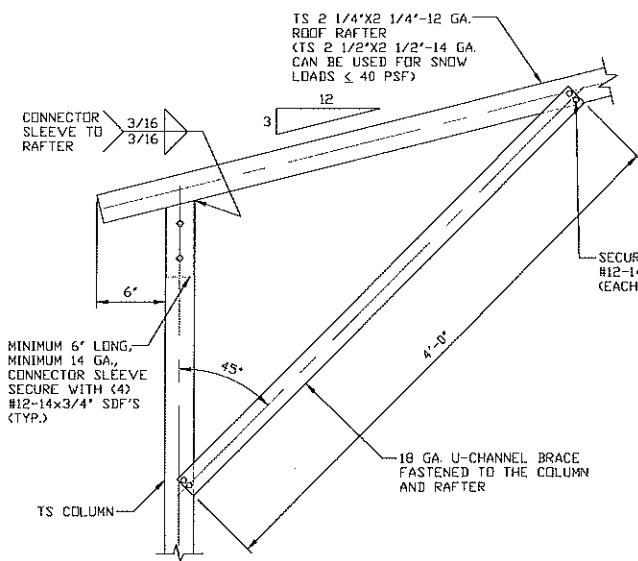
JOB NO: 20198S

SHT. 6

DWG. NO: SK-3

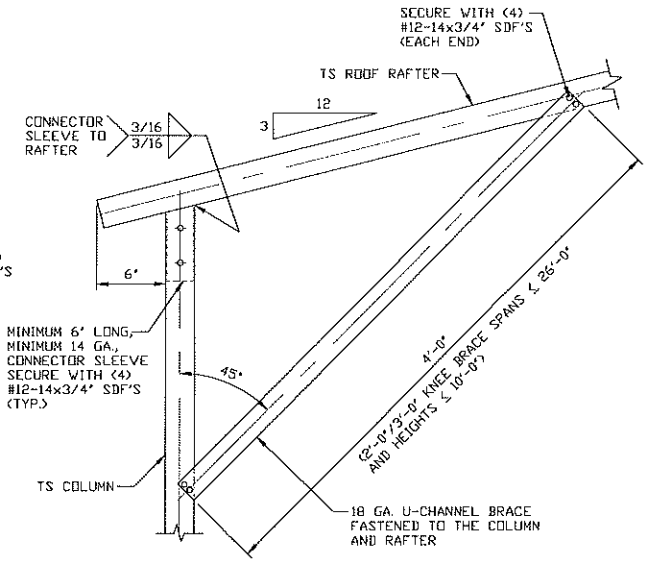
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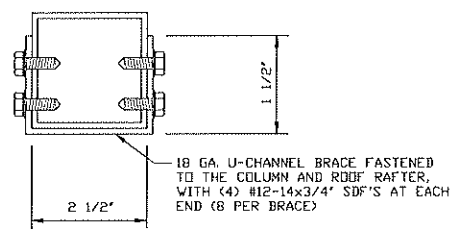
1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"

SCALE: NTS



1C BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

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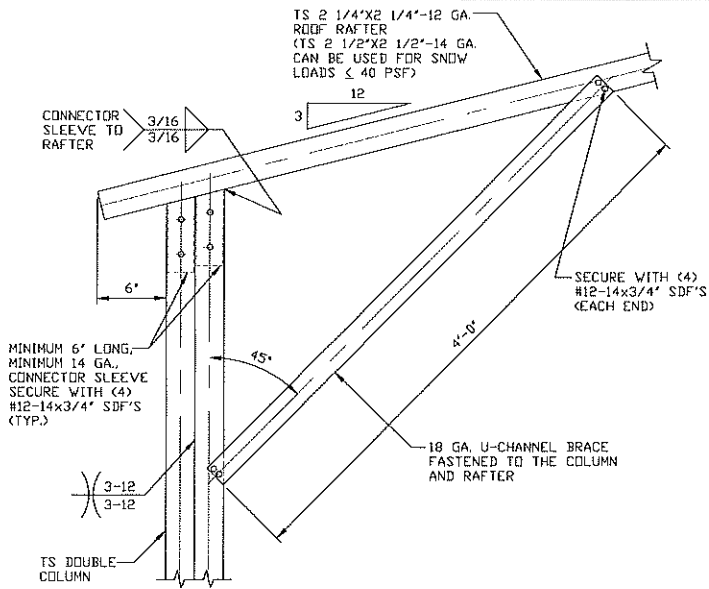
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JOB NO.: 2019BS
SHT.: 6A
DWG. NO.: SK-3
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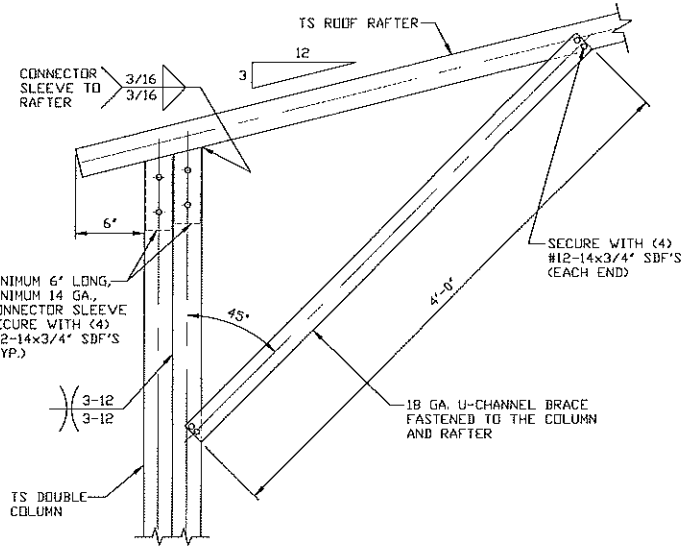
FOR WIND SPEEDS ≤ 130 MPH



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"

1D

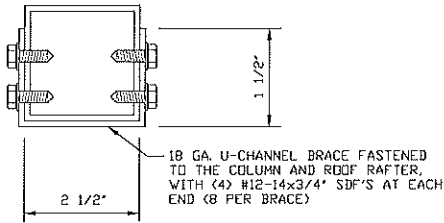
SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"

1E

SCALE: NTS



BRACE SECTION

SCALE: NTS

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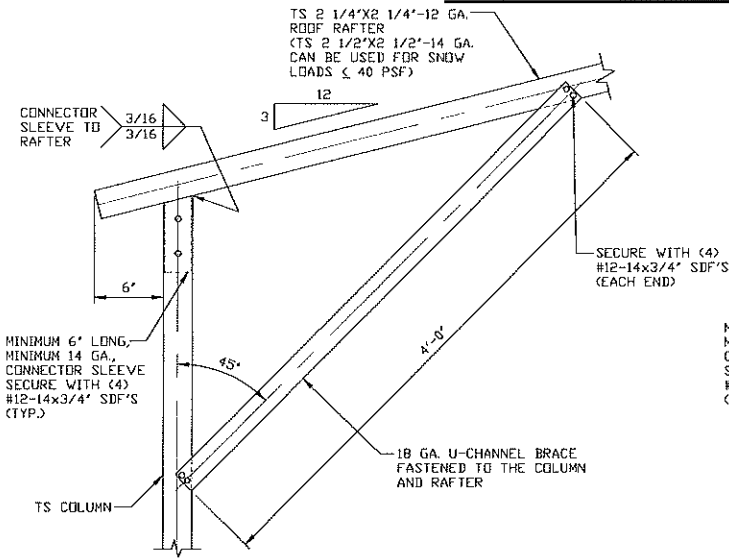
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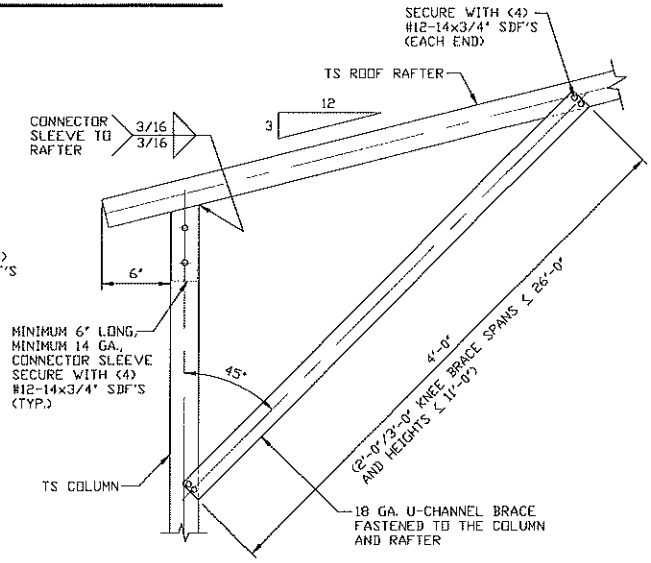
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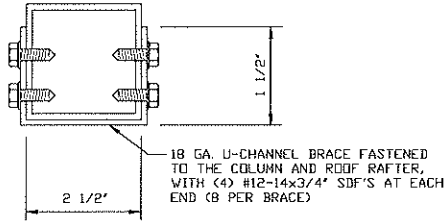
1F

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"
SCALE: NTS



1G

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"
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BRACE SECTION
SCALE: NTS

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SHT. 6C

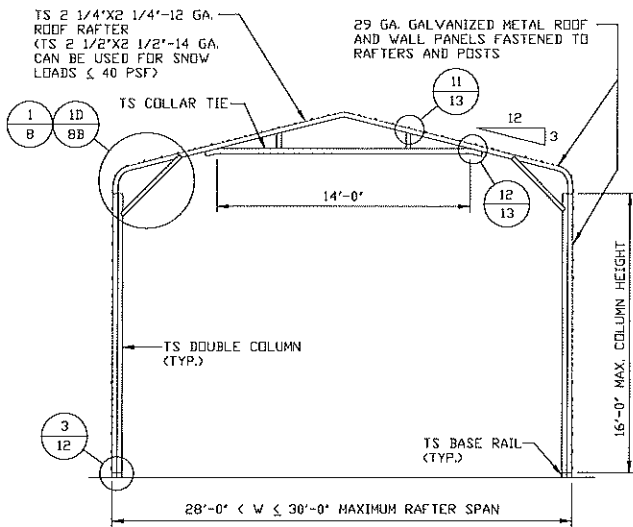
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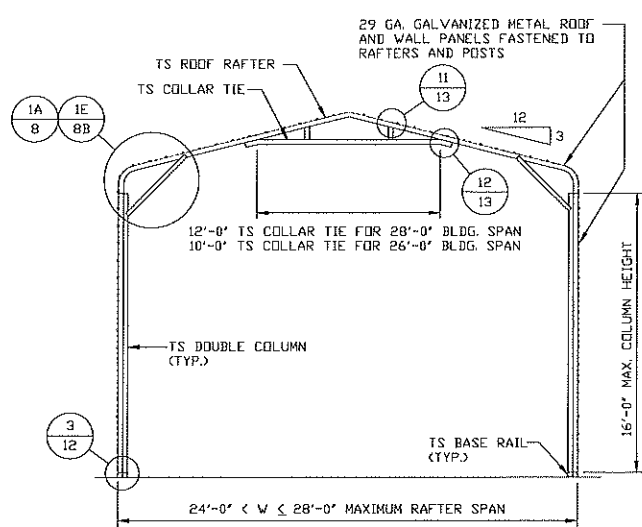
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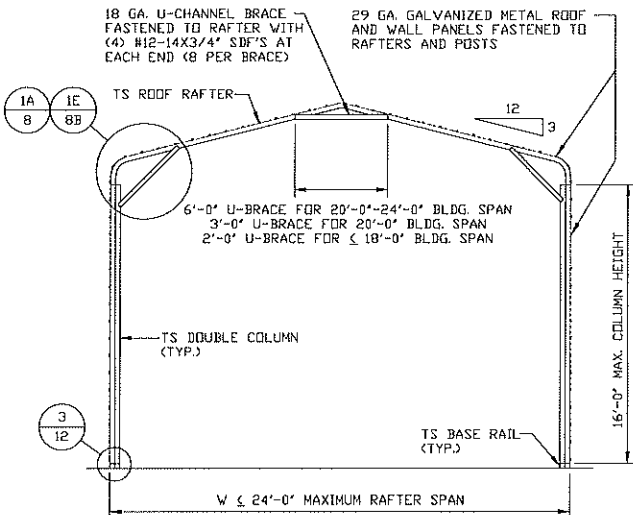
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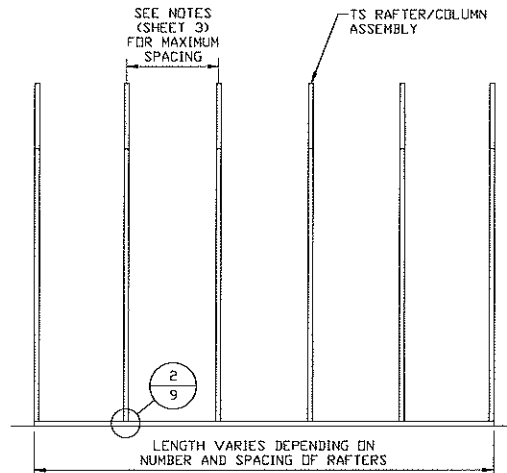
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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SHT. 7

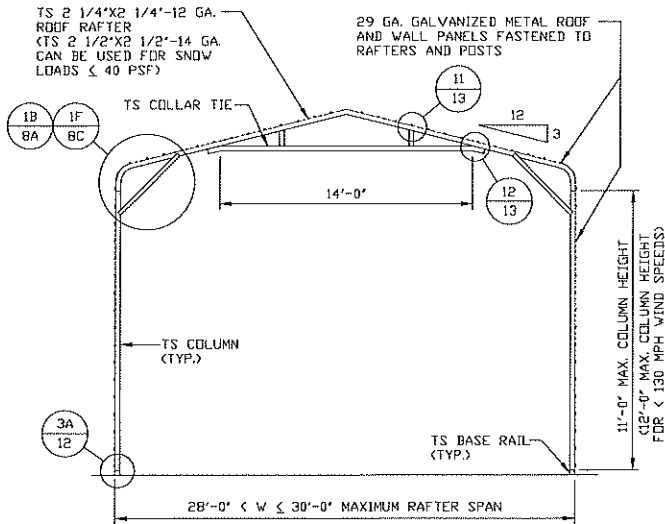
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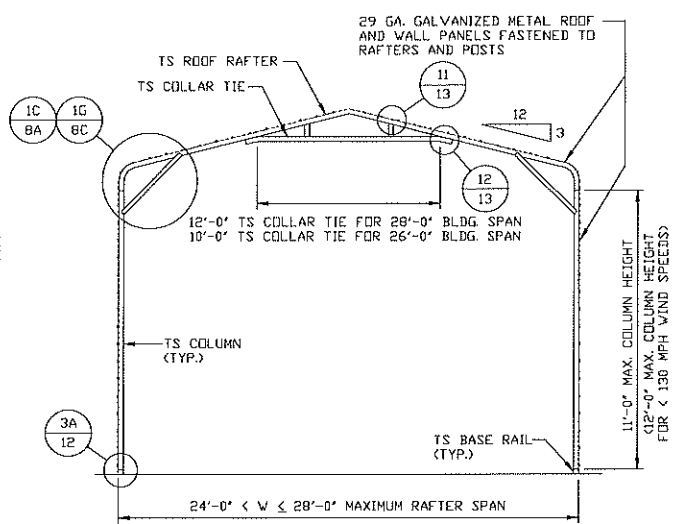
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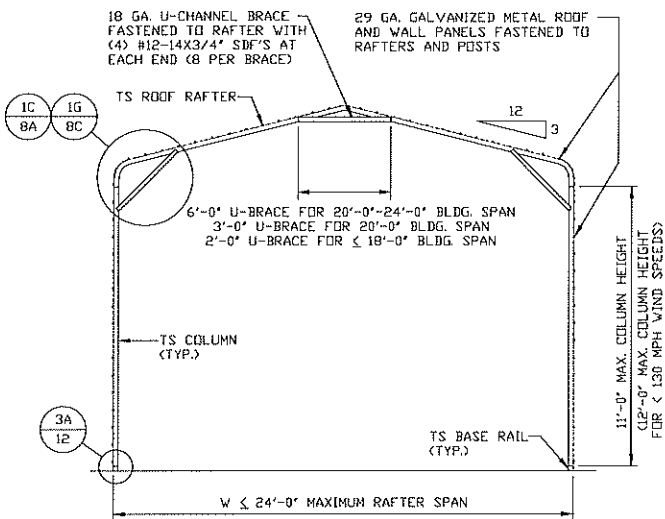
TYPICAL RAFTER/COLUMN FRAME SECTION

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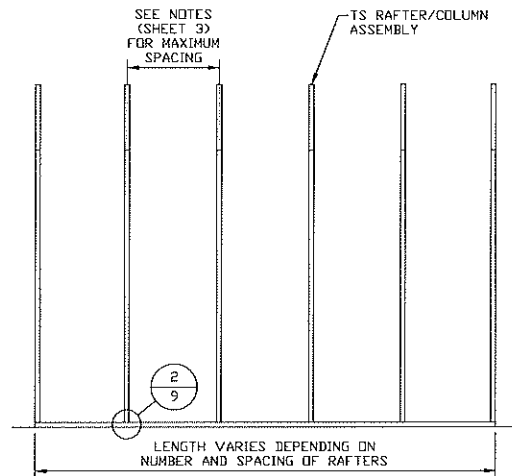
TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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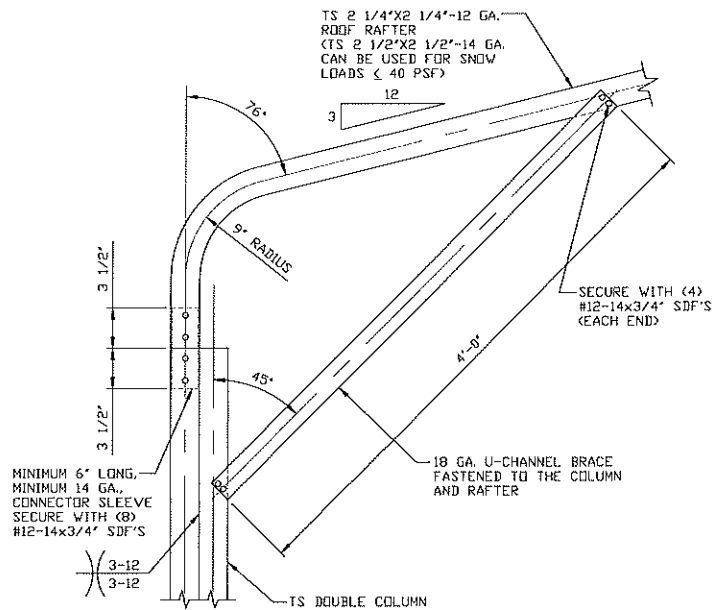
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DWG. NO: SK-3

JOB NO: 20190S

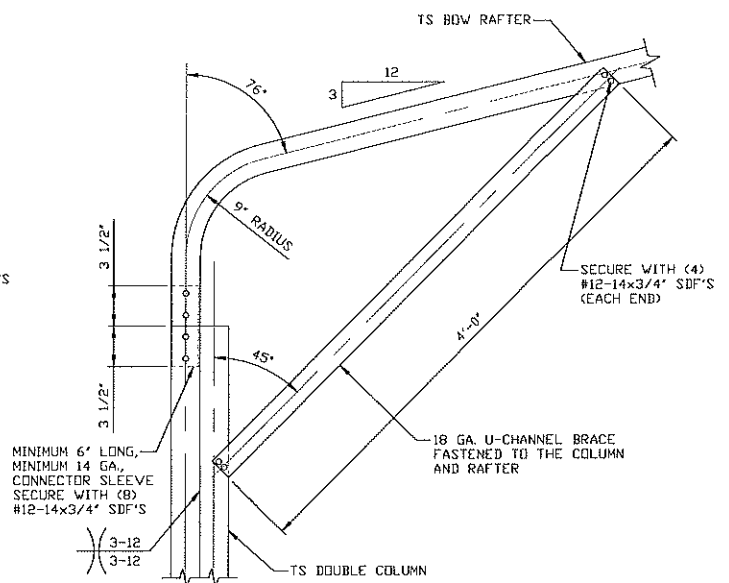
REV: 0

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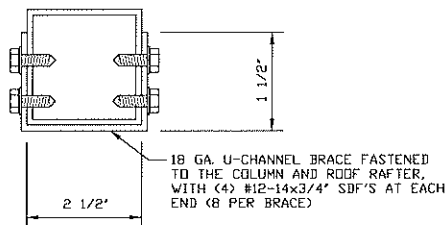
1 BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"

SCALE: NTS



1A BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SCALE: NTS

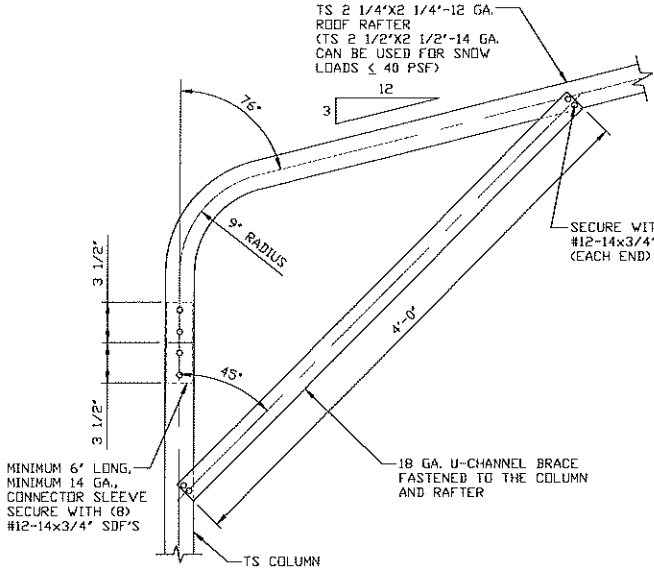
JOB NO: 20198S

SHT. 8

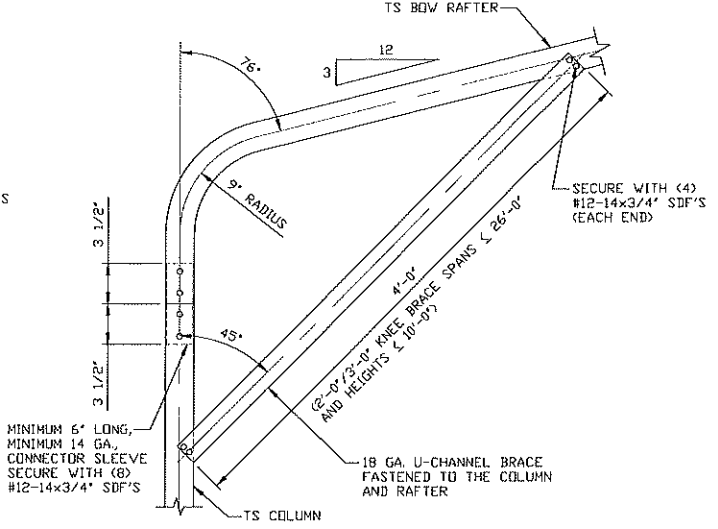
DWG. NO: SK-3

REV: 0

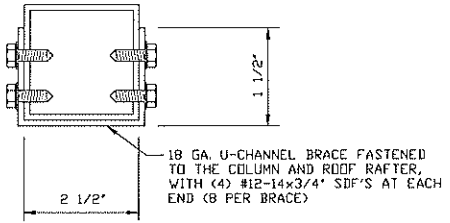
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1B BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 11'-0''$
SCALE: NTS



1C BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 11'-0''$
SCALE: NTS



BRACE SECTION
SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

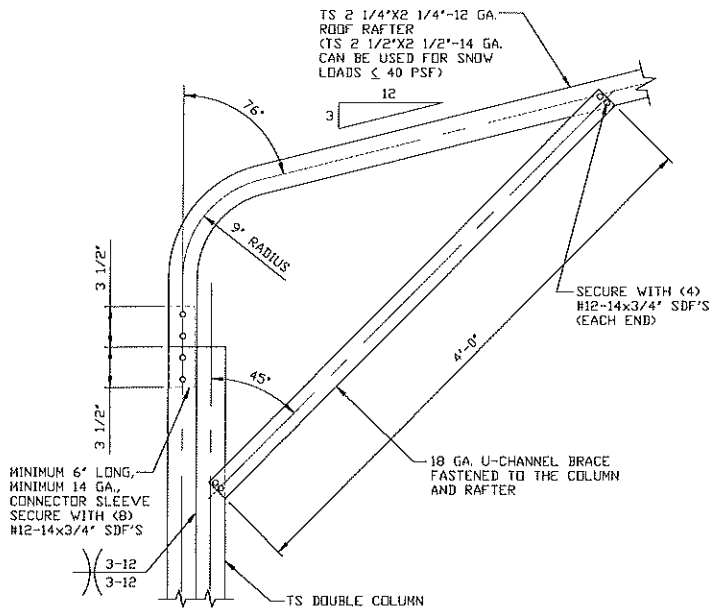
DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"X16'-0" ENCLOSED STRUCTURE

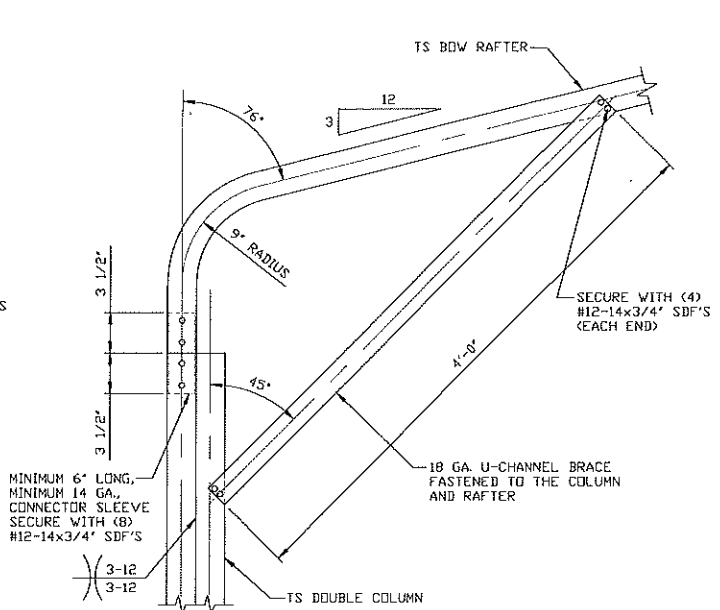
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| | | | |
|------------------|---------------|---------------|----------------|
| PROJECT MGR: WSM | DATE: 10-2-20 | SCALE: NTS | JOB NO: 2019BS |
| CLIENT: CBS | SHT. 8A | DWG. NO: SK-3 | REV: 0 |

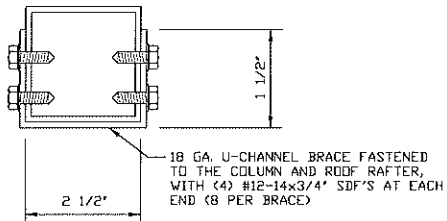
FOR WIND SPEEDS ≤ 130 MPH



1D **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS



1E **BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"**
SCALE: NTS



BRACE SECTION
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG
CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

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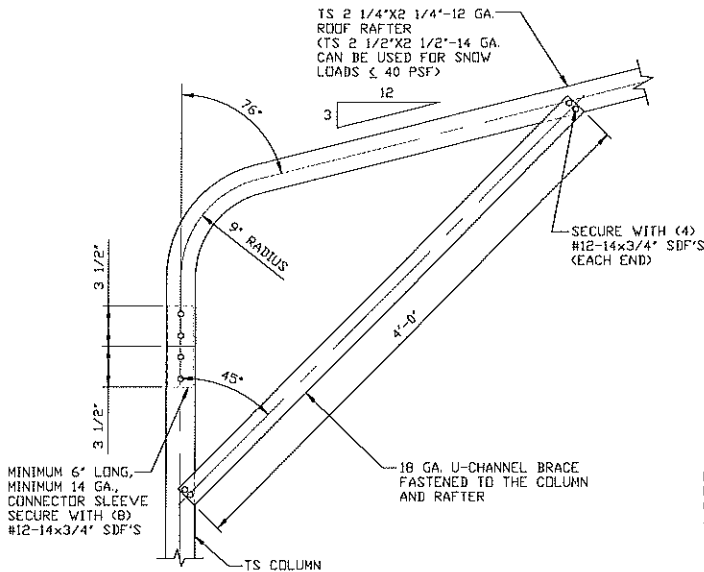
PROJECT MGR: WSM
CLIENT: CBS

DATE: 10-2-20
SHT. BB

SCALE: NTS
DWG. NO: SK-3

JOB NO: 2019BS
REV: 0

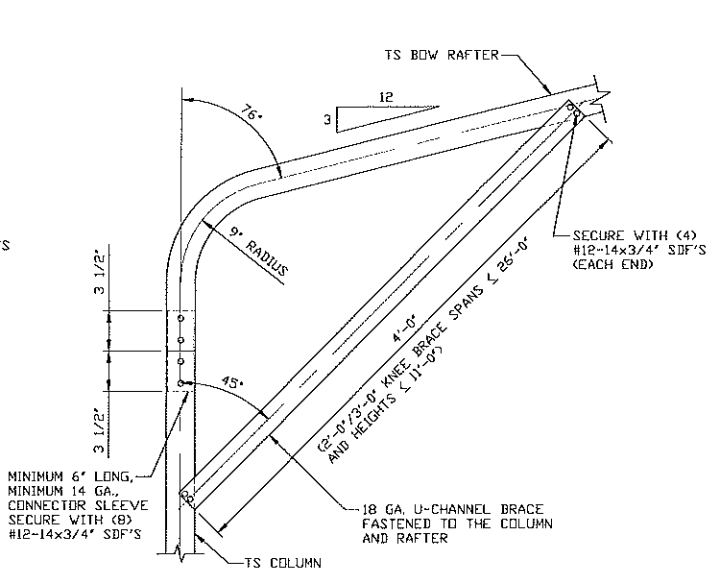
FOR WIND SPEEDS ≤ 130 MPH



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1F

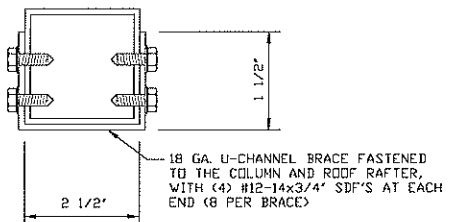
SCALE: NTS



BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

1G

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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CHECKED BY: PDH

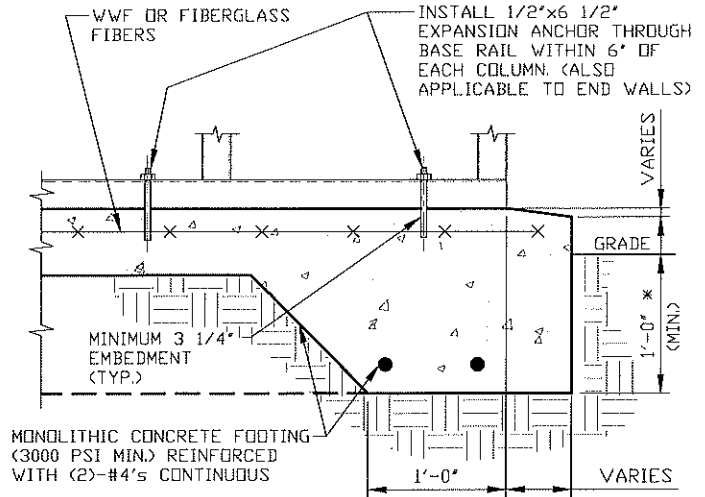
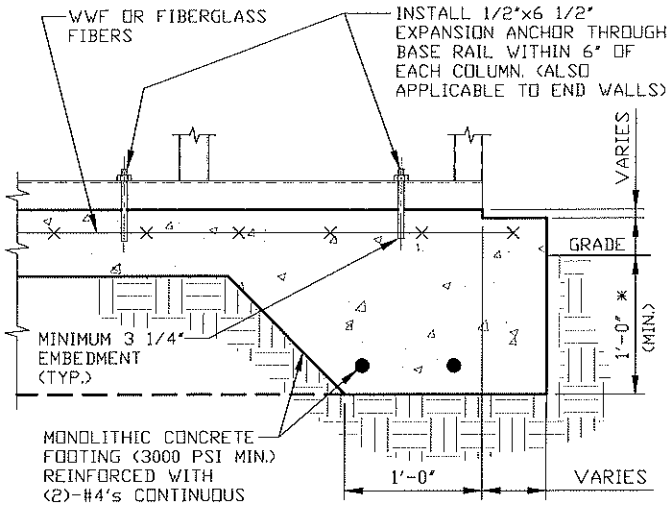
CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

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PROJECT MGR: WSM
CLIENT: CBS

DATE: 10-2-20
SHT. 8C
SCALE: NTS
DWG. NO: SK-3
JOB NO: 20198S
REV: 0

BASE RAIL ANCHORAGE OPTIONS



2 **CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE**
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL BUILDING CODE
AND/OR D REGARDING MINIMUM FROST DEPTH
(LENGTH).

2A **CONCRETE SLAB BASE
RAIL ANCHORAGE**
SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL BUILDING CODE
AND/OR D REGARDING MINIMUM FROST DEPTH
(LENGTH).

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 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 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.

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SCALE: NTS

JOB NO: 2019BS

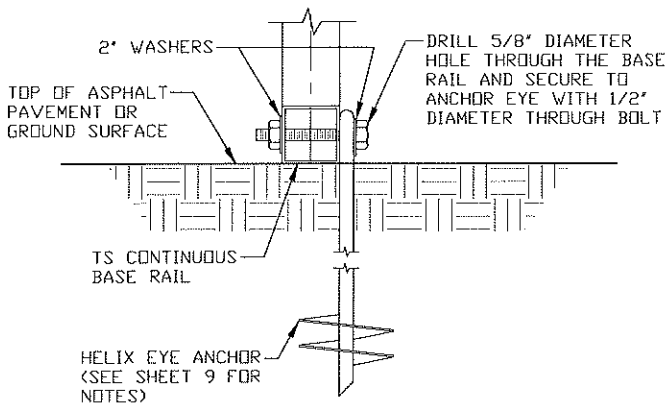
SHT. 9

DWG. NO: SK-3

REV.: 0

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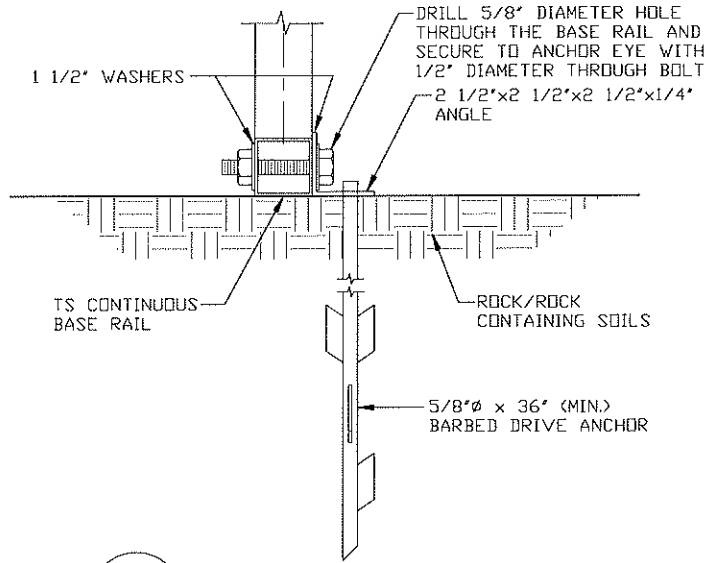
BASE RAIL ANCHORAGE OPTIONS



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
 (CAN BE USED FOR ASPHALT)
 * COORDINATE WITH LOCAL BUILDING CODE AND/OR REGARDING MINIMUM FROST DEPTH (LENGTH).



2C

ASPHALT BASE ANCHORAGE

SCALE: NTS
 * COORDINATE WITH LOCAL BUILDING CODE AND/OR REGARDING MINIMUM FROST DEPTH (LENGTH).

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DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
 1124 N. SOUTH STREET
 MOUNT AIRY, NC 27030
 30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 9A

SCALE: NTS

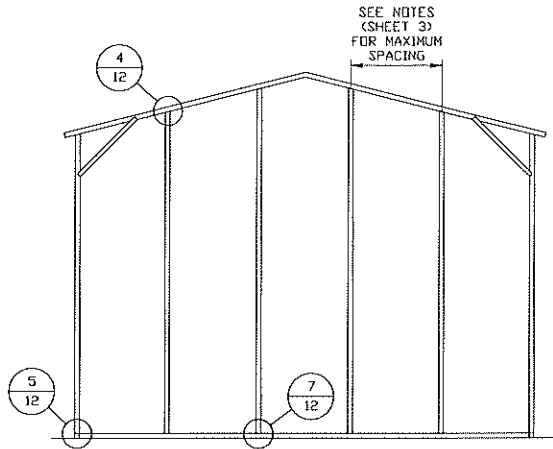
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JOB NO: 2019BS

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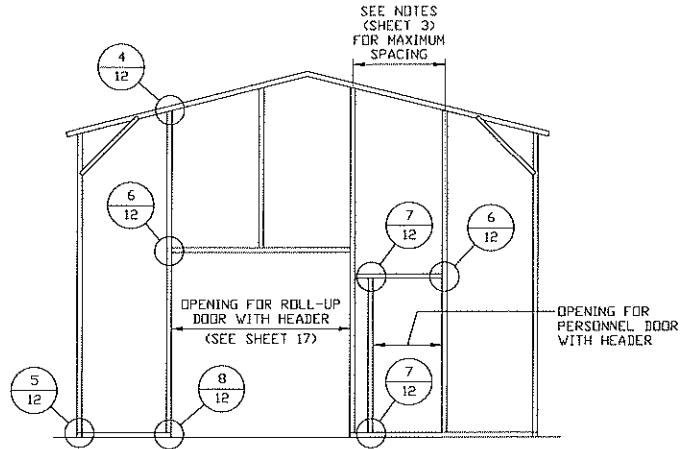
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



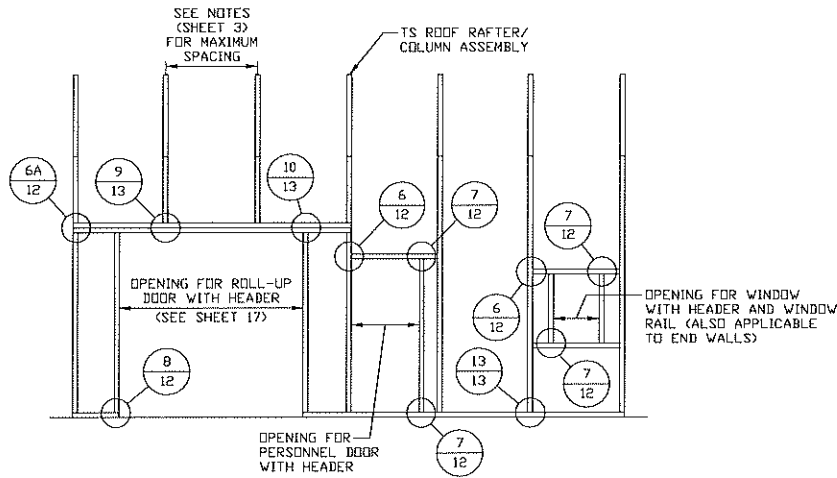
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 10

SCALE: NTS

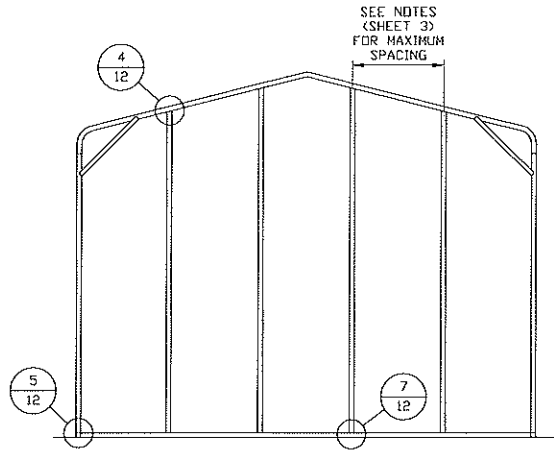
DWG. NO: SK-3

JOB NO: 20198S

REV: 0

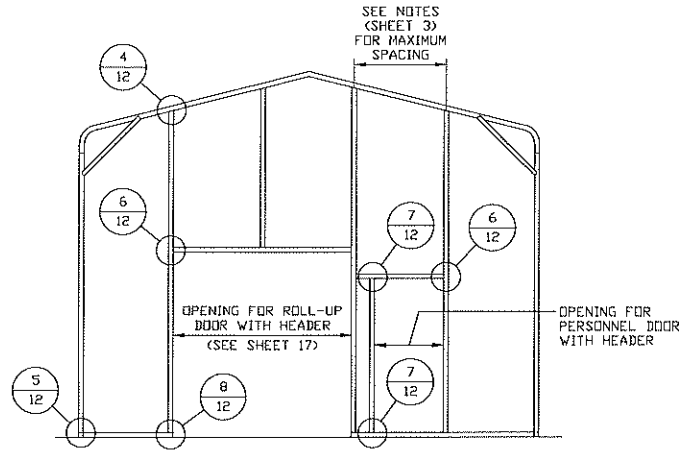
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



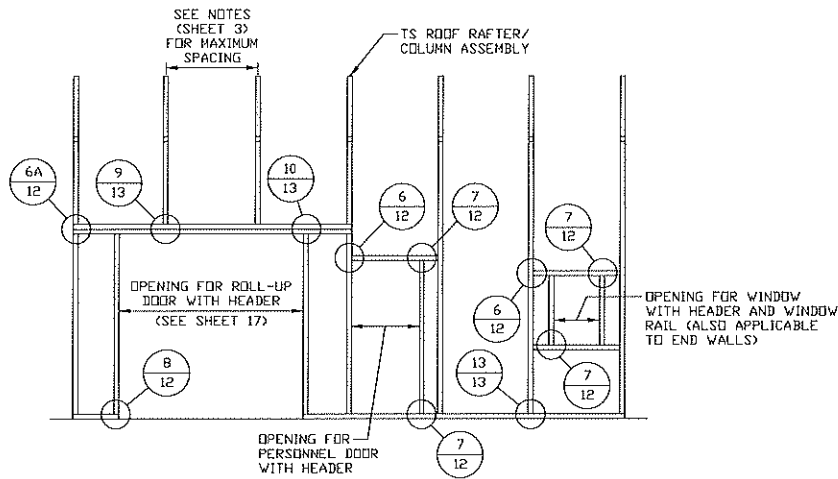
**TYPICAL BOW EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 11

SCALE: NTS

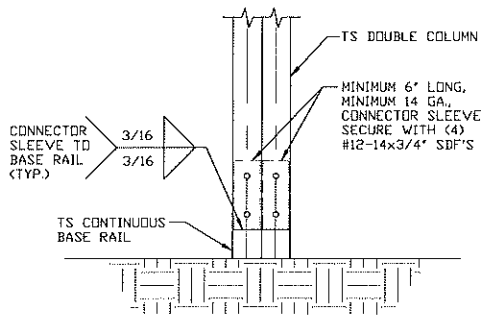
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JOB NO: 20198S

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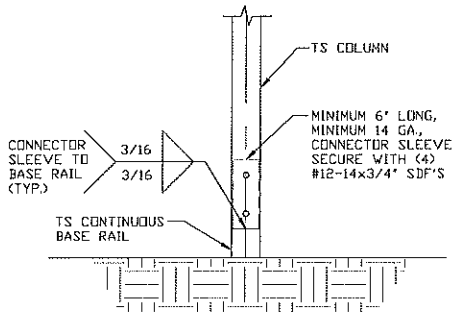
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CONNECTION DETAILS



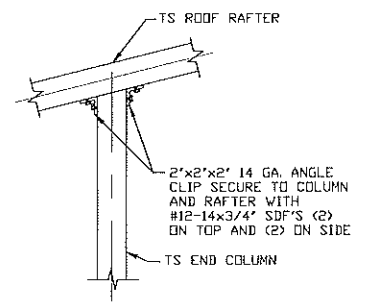
3 POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



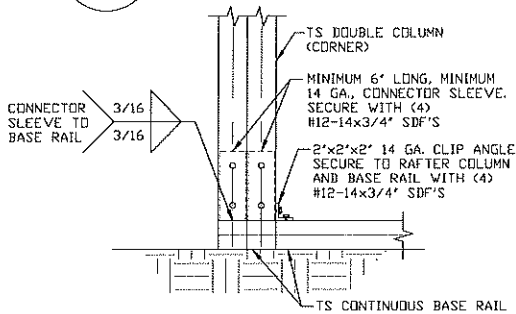
3A POST/BASE RAIL CONNECTION DETAIL

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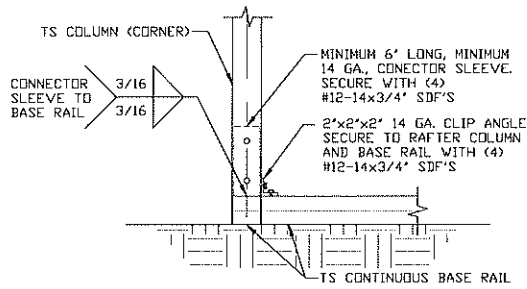
4 END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



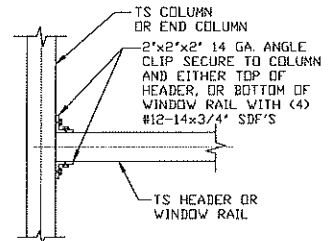
5 END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



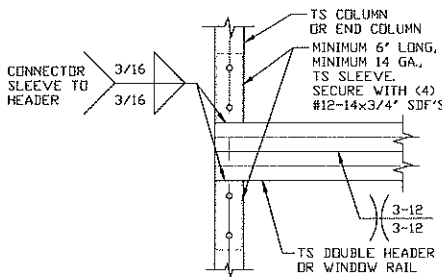
5A END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



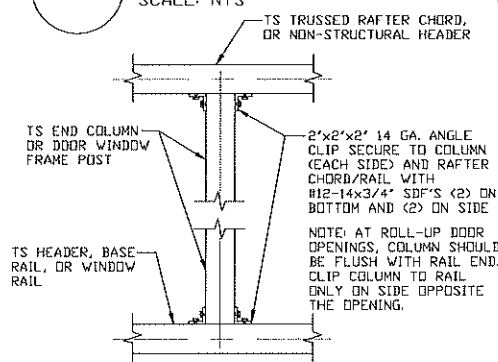
6 COLUMN OR WINDOW RAIL/WALL GIRTS TO POST CONNECTION DETAIL

SCALE: NTS



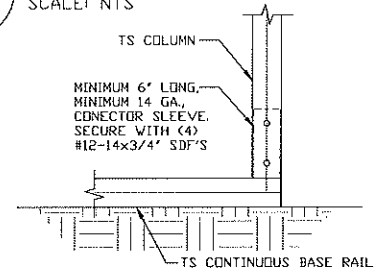
6A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS



8 COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 12

SCALE: NTS

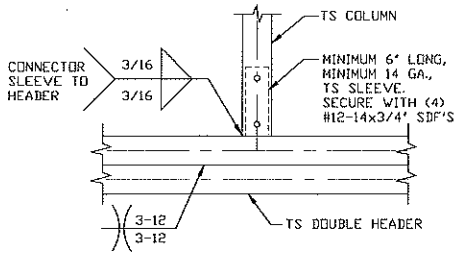
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JOB NO: 20198S

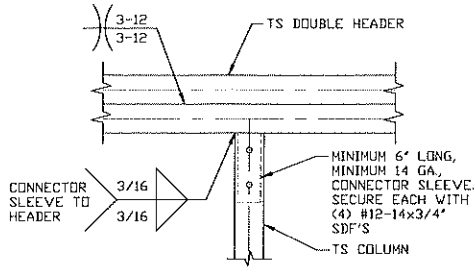
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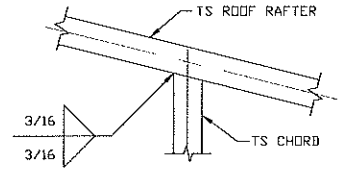
CONNECTION DETAILS



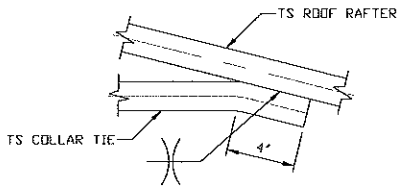
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



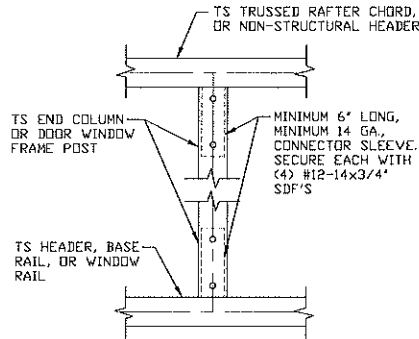
10 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



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

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 13

SCALE: NTS

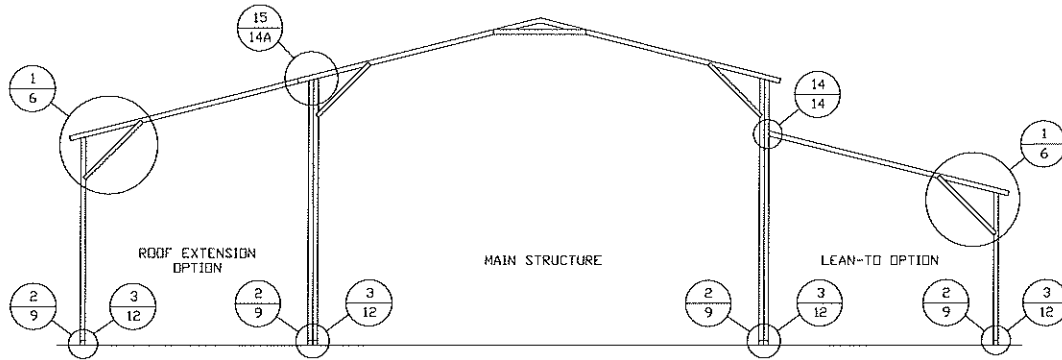
DWG. NO: SK-3

JOB NO: 20198S

REV: 0

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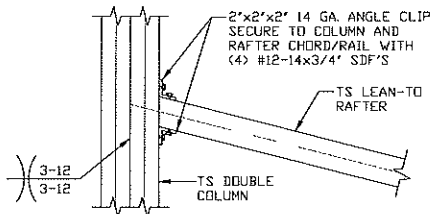
BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

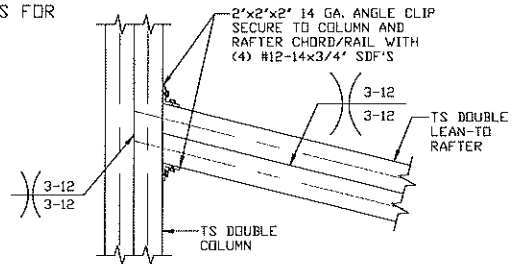
NOTE: KNEE BRACE MUST BE 4'-0" REGARDLESS OF COLUMN HEIGHT. FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0''$

14

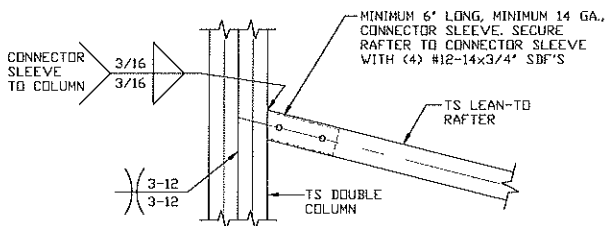
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LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0'' < \text{TO} \leq 16'-0''$

14A

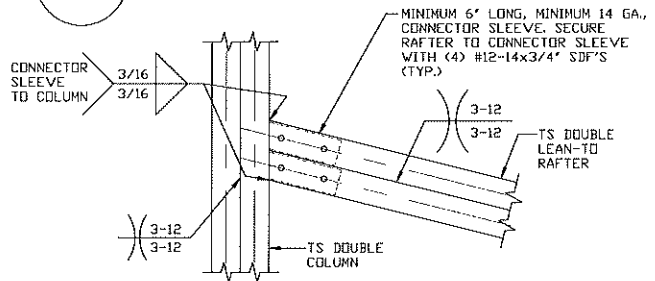
SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0''$

14B

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0'' < \text{TO} \leq 16'-0''$

14C

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 14

SCALE: NTS

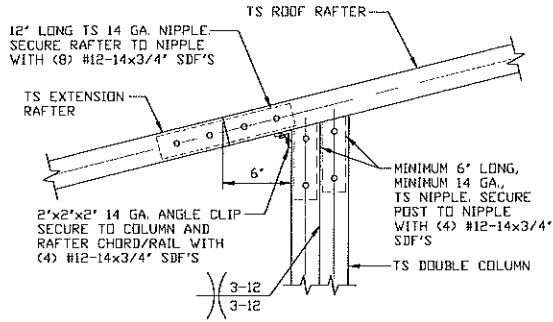
DWG. NO: SK-3

JOB NO: 20198S

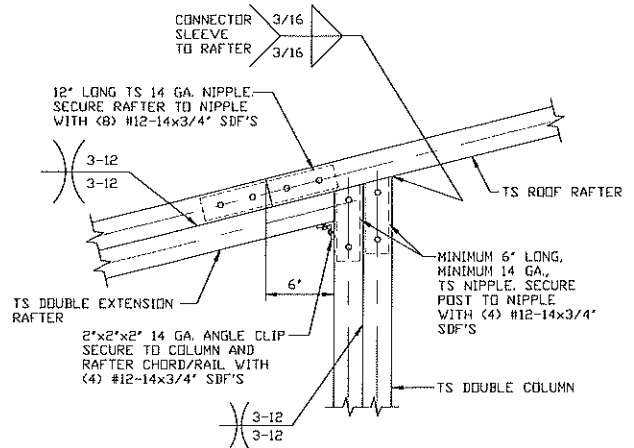
REV: 0

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BOX EAVE RAFTER LEAN-TO OPTIONS



15 SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS $\leq 12'-0"$
SCALE: NTS



15A SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS $12'-0" < \text{TO} \leq 16'-0"$
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

PROJECT MGR: WSM

DATE: 10-2-20

SCALE: NTS

JOB NO: 20198S

CLIENT: CBS

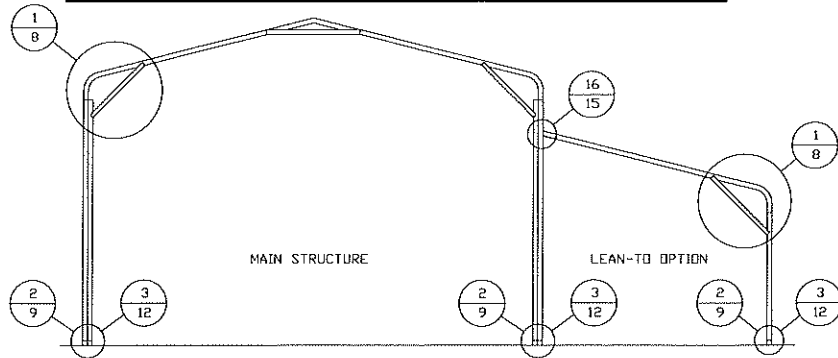
SHT. 14A

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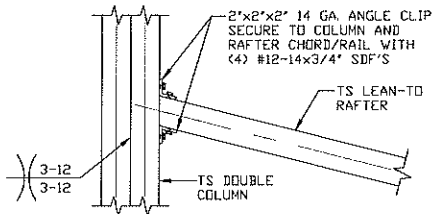
BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

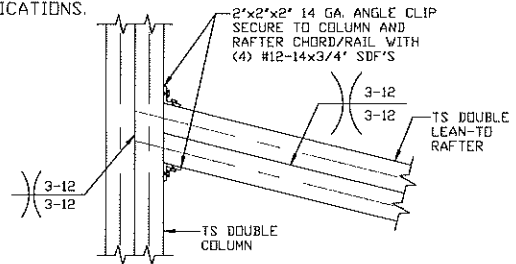
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0" REGARDLESS OF COLUMN HEIGHT.
FOR SHARED COLUMNS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATIONS.



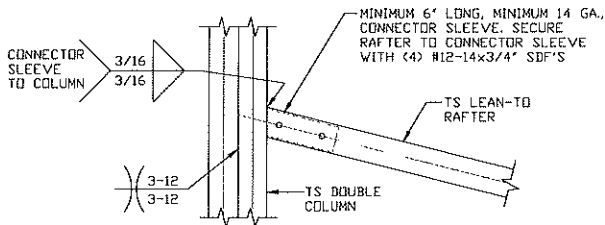
16 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



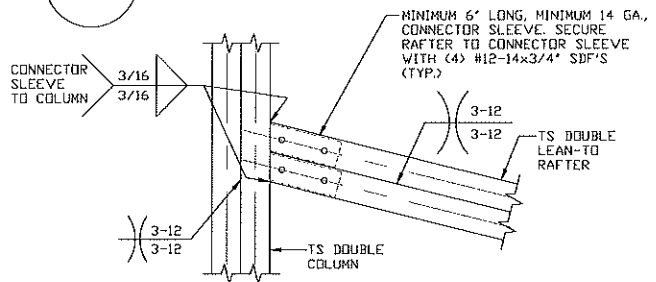
16A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < TO \leq 16'-0"$

SCALE: NTS



16B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



16C LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < TO \leq 16'-0"$

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 15

SCALE: NTS

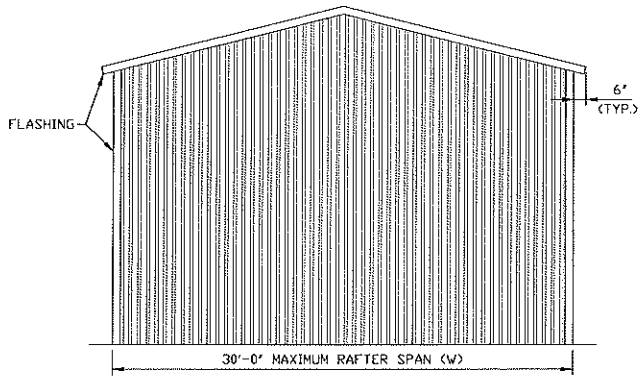
DWG. NO: SK-3

JOB NO: 20198S

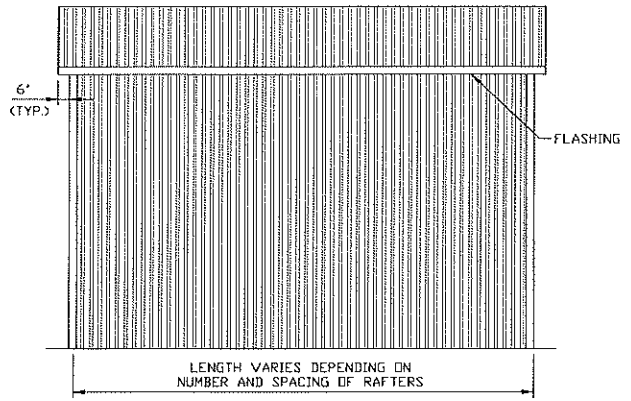
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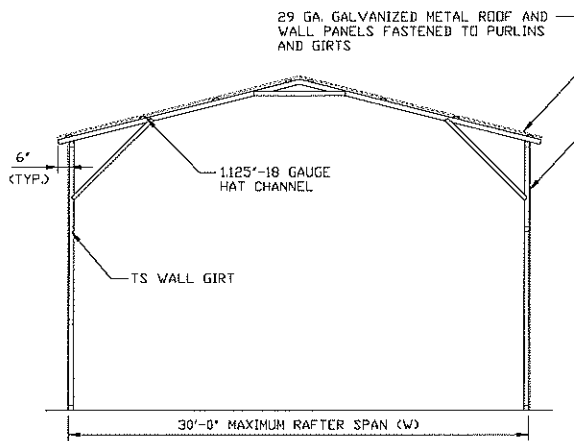
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



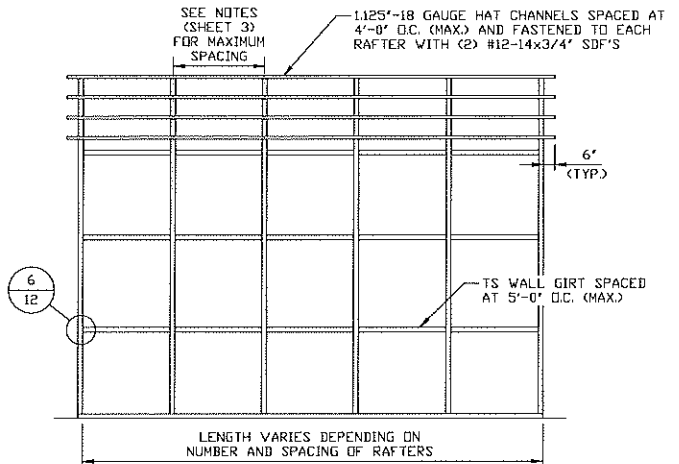
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



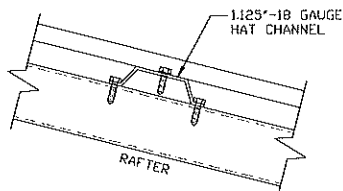
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**
SCALE: NTS



**TYPICAL FRAMING SECTION VERTICAL
ROOF/SIDING OPTION WITH TS GIRTS**
SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 16

SCALE: NTS

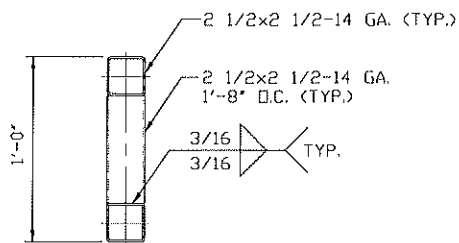
DWG. NO: SK-3

JOB NO: 2019BS

REV: 0

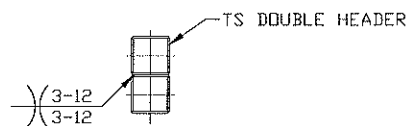
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SIDE WALL HEADER OPTIONS



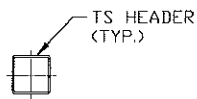
**HEADER DETAIL FOR SIDE WALL DOOR OPENINGS
10'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS
(12'-0" < LENGTHS ≤ 16'-0"
FOR SNOW LOADS ≤ 35 PSF)



**HEADER DETAIL FOR SIDE WALL DOOR OPENINGS
6'-0" < LENGTH ≤ 10'-0"**

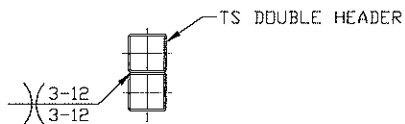
SCALE: NTS
(6'-0" < LENGTHS ≤ 12'-0"
FOR SNOW LOADS ≤ 35 PSF)



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS ≤ 6'-0"

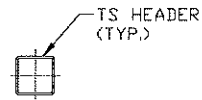
SCALE: NTS

END WALL HEADER OPTIONS



**HEADER DETAIL FOR SIDE WALL DOOR OPENINGS
12'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



HEADER DETAIL FOR END WALL DOOR OPENINGS ≤ 12'-0"

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CBS

CUSTOM BUILT STRUCTURES, INC.
1124 N. SOUTH STREET
MOUNT AIRY, NC 27030
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-2-20

SHT. 17

SCALE: NTS

DWG. NO: SK-3

JOB NO: 2019BS

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