

## STRUCTURAL DESIGN

## ENCLOSED BUILDING

**MAXIMUM 30'- 0" WIDE X 14'- 0" HEIGHT-  
BOX EAVE FRAME AND BOW FRAME**

**5 November 2018**

**Revision 6**

**M&A Project No. 17062S/17174S/17254S/18033S/18113S/18246S**

**Prepared for:**

**Newmart Builders  
1000 Cycle Lane  
South Hill, VA 23970**

**Prepared by:**

**Moore and Associates Engineering and Consulting, Inc.**

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

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



**MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING**





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|   |                           |  |               |                                 |
|---|---------------------------|--|---------------|---------------------------------|
| <b>MOORE AND ASSOCIATES<br/>ENGINEERING AND CONSULTING, INC.</b>  | DRAWN BY: LT              | NEW MART BUILDERS, INC.<br>1000 CYCLE LANE<br>SOUTH HILL, VA 23970<br>30'-0" x 14'-0" ENCLOSED STRUCTURE |               |                                 |
|   | CHECKED BY: PDH           |  |               |                                 |
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|   | CLIENT: NEW MART BUILDERS | SHT. 2   | DWG. NO: SK-3 | REV: 6                          |

## INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 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 = 15 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 30 PSF ( $W \leq 24'-0"$ )  
 = 35 PSF ( $18'-0" < W \leq 30'-0"$ )  
 = 45 PSF @ 4'-0" O.C. MAX. RAFTER/COLUMN AND END COLUMN SPACING ( $24'-0" < W \leq 30'-0"$ )  
 @ 5'-0" O.C. MAX. RAFTER/COLUMN AND END COLUMN SPACING ( $W \leq 24'-0"$ )
4. LOW ULTIMATE WIND SPEED (LW) 105 TO 130 MPH (NOMINAL WIND SPEED 81 TO 101 MPH); MAXIMUM RAFTER/POST AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE).
5. END WALL COLUMNS (POST) ARE SIMILAR 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"x3"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR ( $24'-0" < W \leq 30'-0"$  AND  $W \leq 24'-0"$  WITH EAVE HEIGHT  $12'-0" < TO \leq 14'-0"$ ) & 1/4"x2 1/4"-14 GAUGE TUBE STEEL (TS) FOR ( $W \leq 24'-0"$ ) (UNLESS NOTED OTHERWISE).
9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS AND COLUMNS (INTERIOR OR END) = 10" O.C. (MAX.)
10. FASTENERS CONSIST OF 1/4"x3/4" 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. SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
11. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT/FORMED HEAD x 30" LONG IN SUITABLE SOIL CONDITIONS. OPTIGNAL ANCHORAGE 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:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I/II/III  
 R = 3.25                       $I_e = 1.0$   
 $S_{DS} = 2.039$                  $V = C_s W$   
 $S_{DI} = 1.258$



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**DRAWN BY:** LT

**CHECKED BY:** PDH

**PROJECT MGR:** WSM

**CLIENT:** NEWMART BUILDERS

NEWMART BUILDERS, INC.

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0"x14'-0" ENCLOSED STRUCTURE

**DATE:** 11-5-18

**SHT:** 3A

**SCALE:** NTS

**DWG. NO:** SK-3

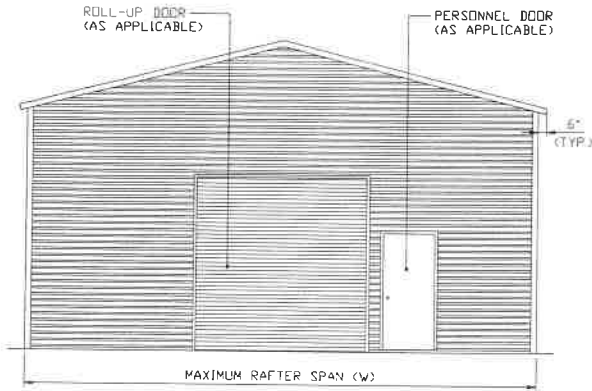
**JOB NO:**

18033S/18113S/19246S

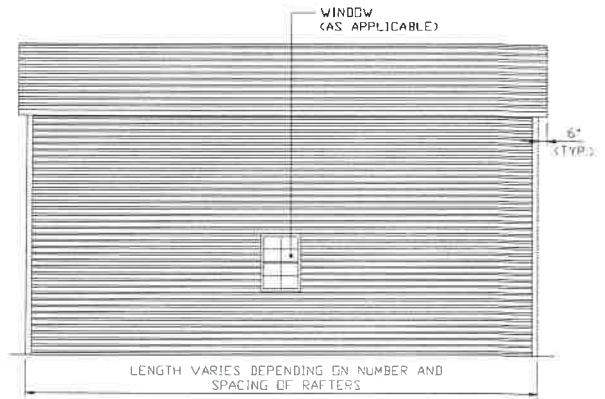
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**BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 5A, 5B, 8, 9, 11, 12, 13, 15 AND 16)**

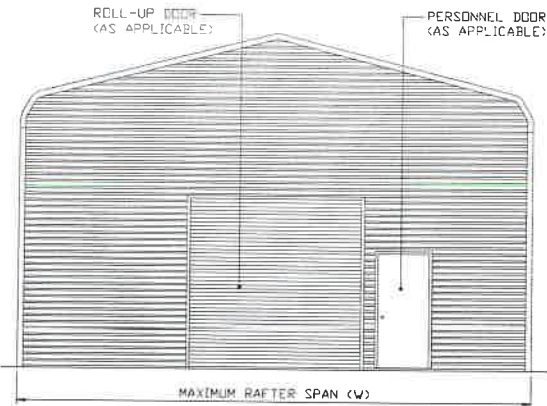


**TYPICAL END ELEVATION**  
SCALE: NTS

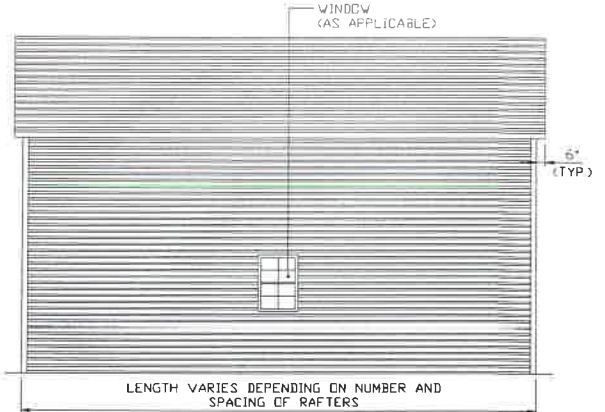


**TYPICAL SIDE ELEVATION**  
SCALE: NTS

**BOW FRAME RAFTER STRUCTURE (Sheets 6, 7A, 7B, 8, 10, 11, 12, 14 AND 16)**



**TYPICAL END ELEVATION**  
SCALE: NTS



**TYPICAL SIDE ELEVATION**  
SCALE: NTS



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NEWMART BUILDERS, INC.

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0"x14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 3B

SCALE: NTS

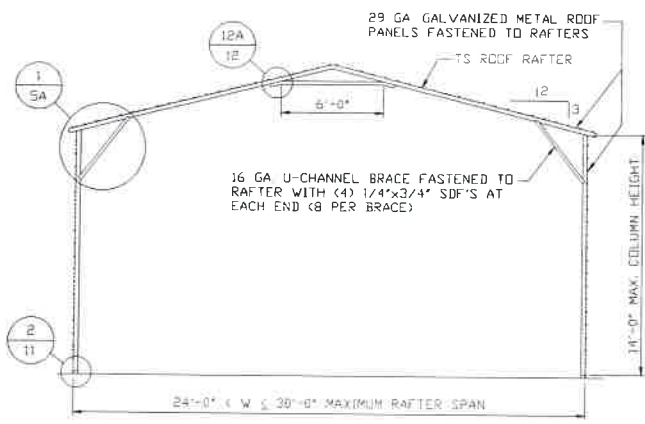
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18033S/18113S/18246S

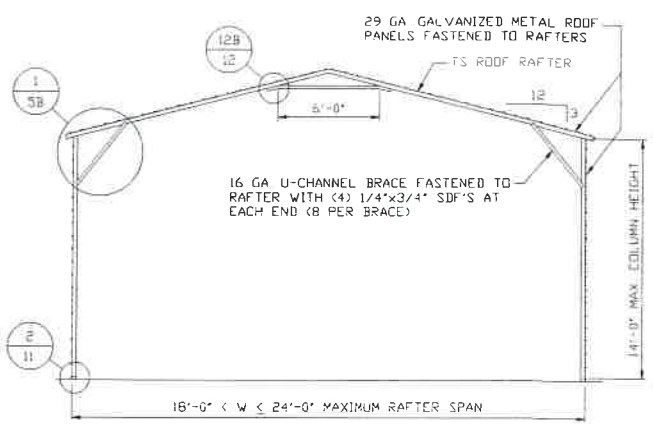
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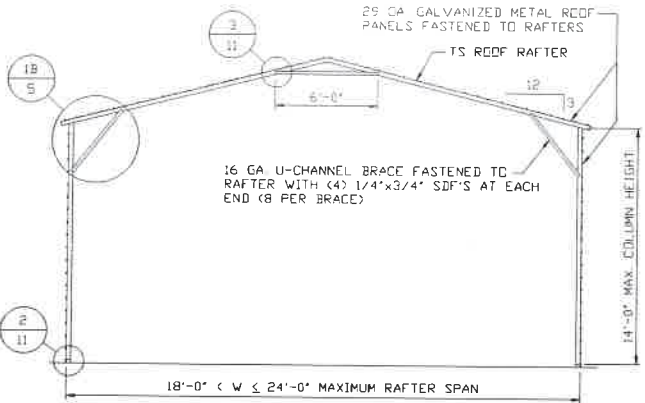




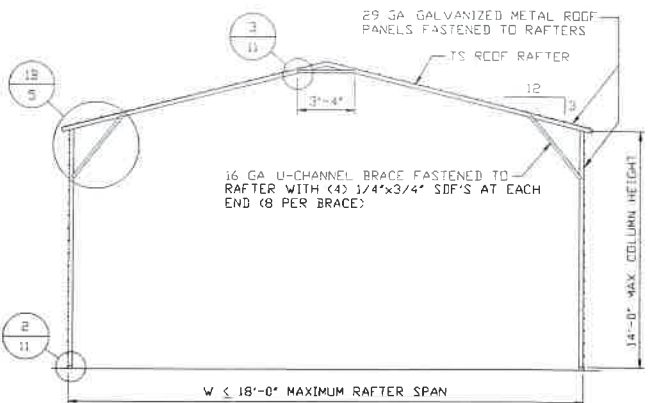
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



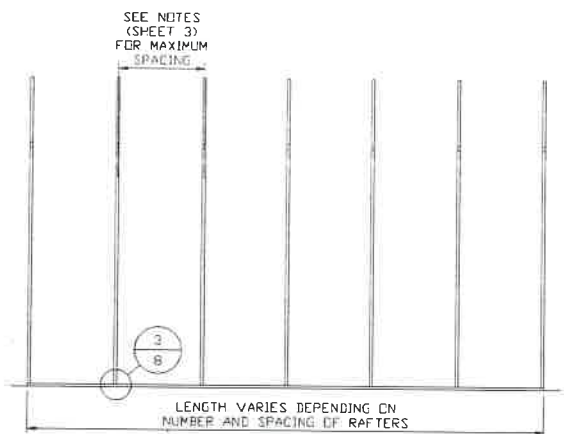
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



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



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



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**  
SCALE: NTS



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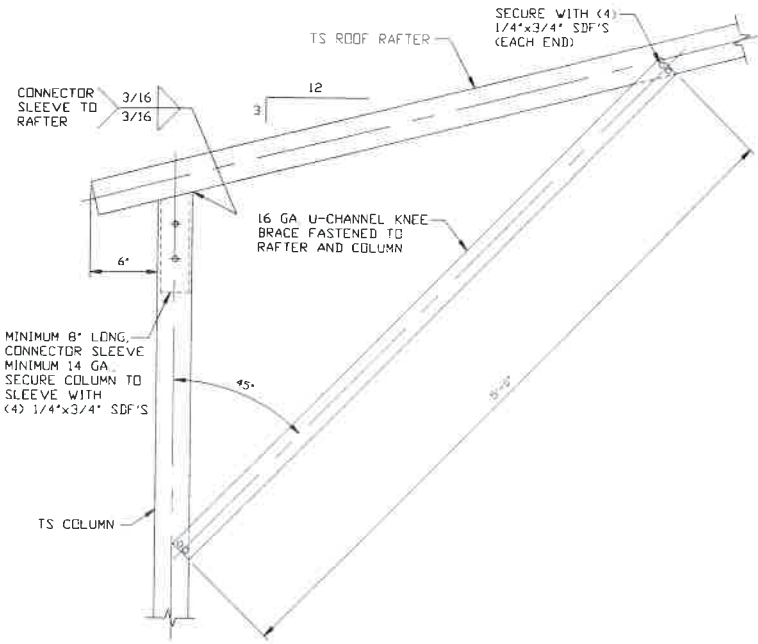
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**CHECKED BY: PDH**

**NEWMART BUILDERS, INC.**  
1000 CYCLE LANE  
SOUTH HILL, VA 23970  
30'-0" x 14'-0" ENCLOSED STRUCTURE

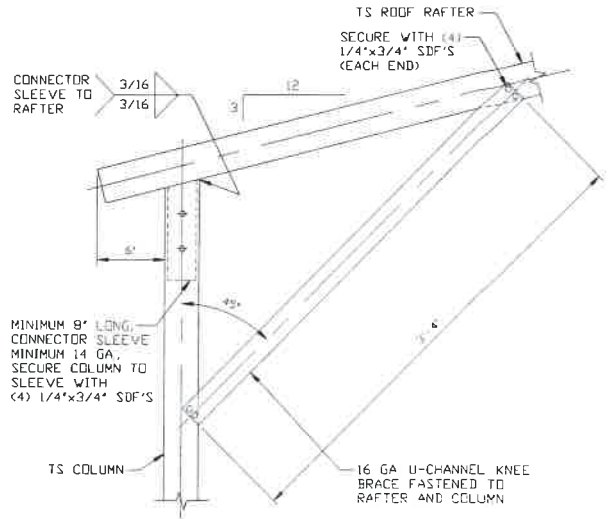
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| <b>CLIENT: NEWMART BUILDERS</b> | <b>SHT. 4</b>        | <b>DWG. NO: SK-3</b> | <b>REV: 6</b>                       |

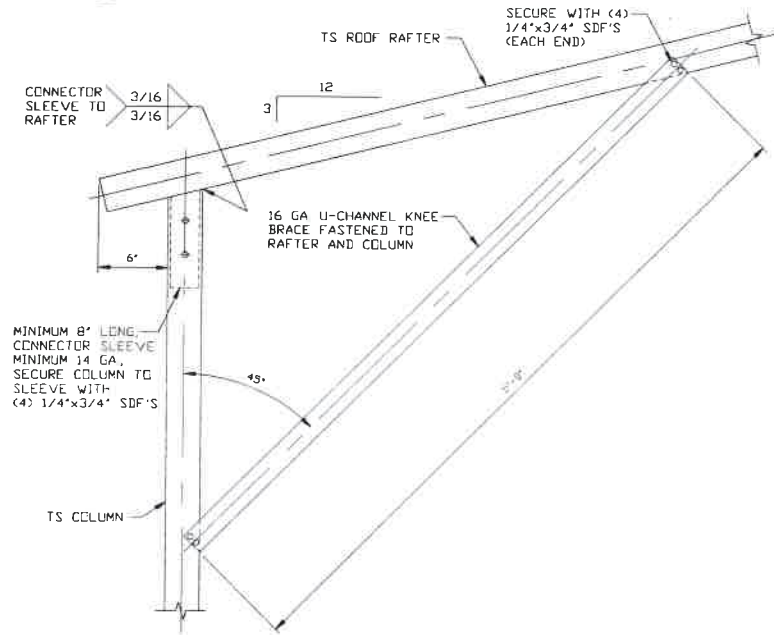
**24'-0" < W ≤ 30'-0" MAXIMUM RAFTER SPAN**



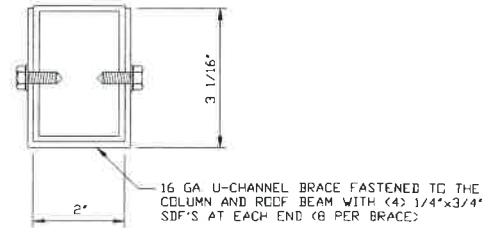
**1A** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS 12'-0" < TO ≤ 14'-0" @ 3'-6" O.C.  
SCALE: NTS



**1C** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS ≤ 10'-0"  
SCALE: NTS



**1B** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS 10'-0" < TO ≤ 12'-0"  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS



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CLIENT: NEWMART BUILDERS

NEWMART BUILDERS, INC.

1000 CYCLE LANE  
SOUTH HILL, VA 23970

30'-0" x 14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 5A

SCALE: NTS

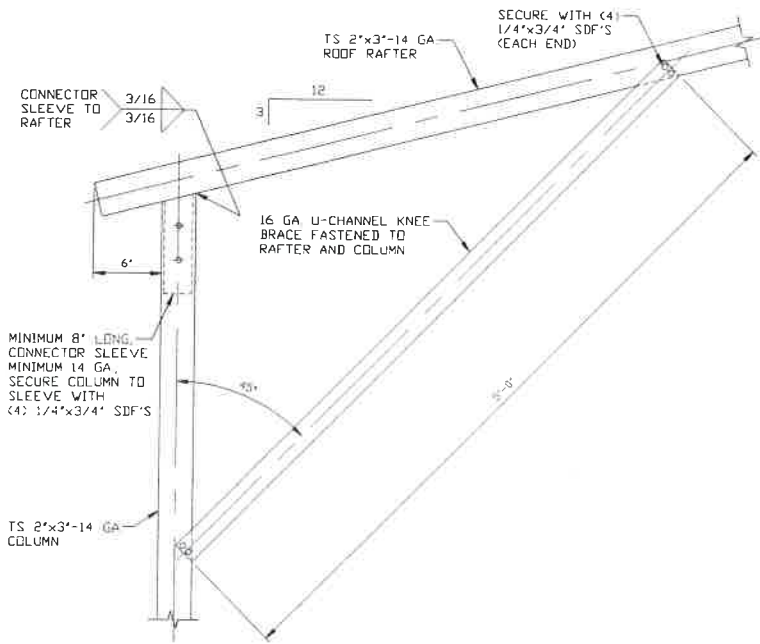
DWG. NO: SK-3

JOB NO: 18033S/18113S/18246S

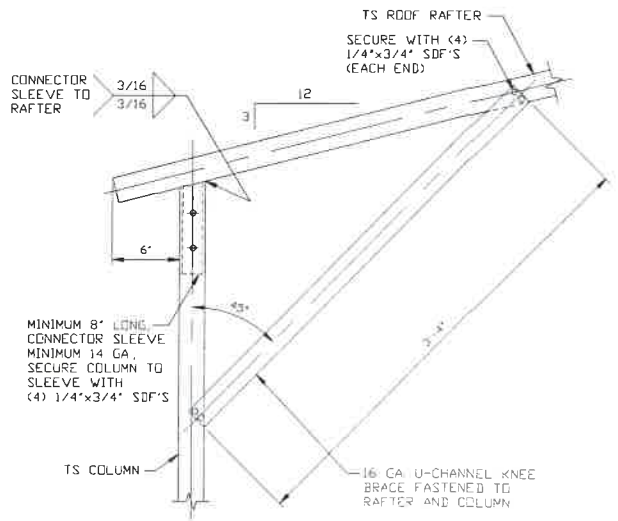
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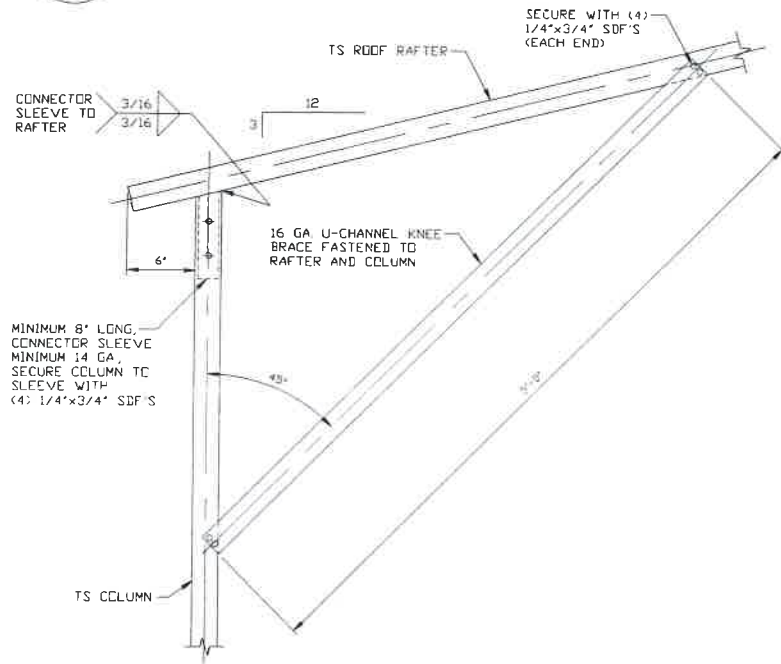
**W ≤ 24'-0" MAXIMUM RAFTER SPAN**



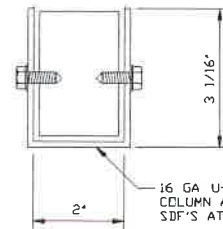
**1A** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS 12'-0" < TO < 14'-0" @ 4'-0" O.C.  
SCALE: NTS



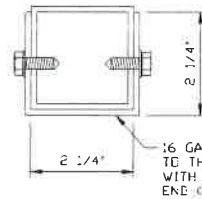
**1C** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS ≤ 10'-0"  
SCALE: NTS



**1B** BOX EAVE RAFTER COLUMN CONNECTION DETAIL  
HEIGHTS 10'-0" < TO < 12'-0" @ 4'-0" O.C.  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS

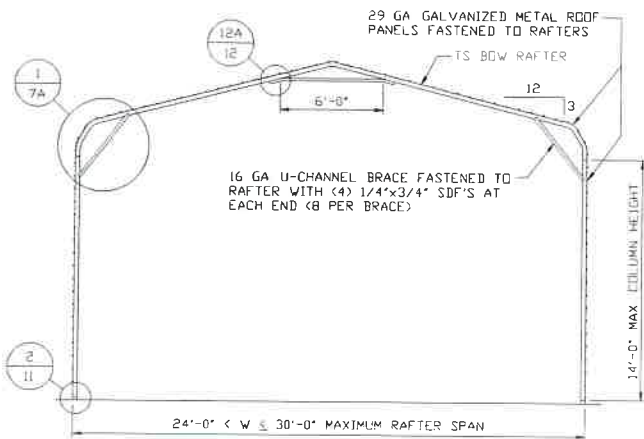


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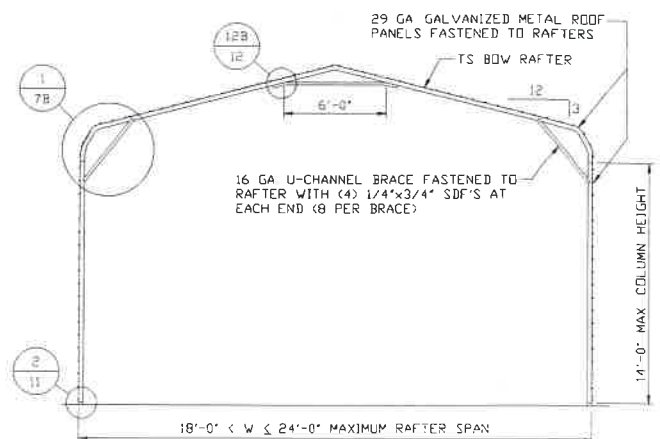
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|---|--------------------------|---|--------------|---------------------------------|
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|   | CHECKED BY: PDH          |   |              |                                 |
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|   | CLIENT: NEWMART BUILDERS | SHT. 5B   | DWG. NO SK-3 | REV: 6                          |





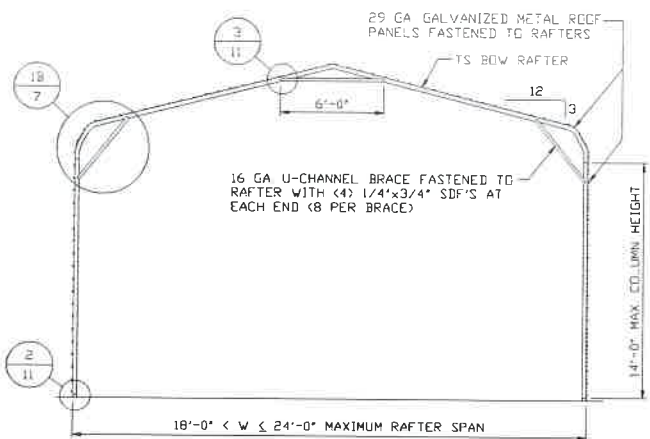
**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



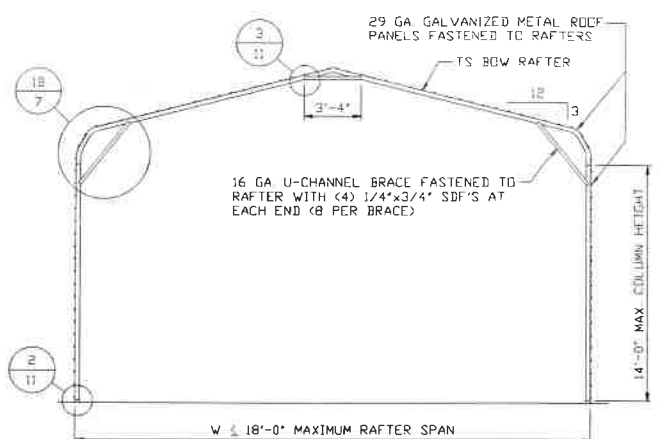
**TYPICAL RAFTER/COLUMN END FRAME SECTION**

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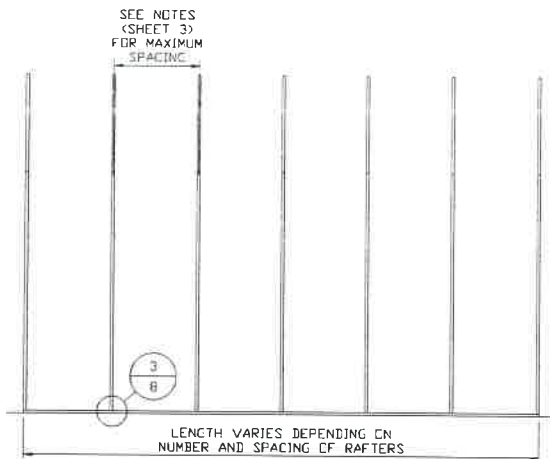
**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**

SCALE: NTS



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PROJECT MGR: WSM

CLIENT: NEWMART BUILDERS

NEWMART BUILDERS, INC.  
1000 CYCLE LANE  
SOUTH HILL, VA 23970  
30'-0"x14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 6

SCALE: NTS

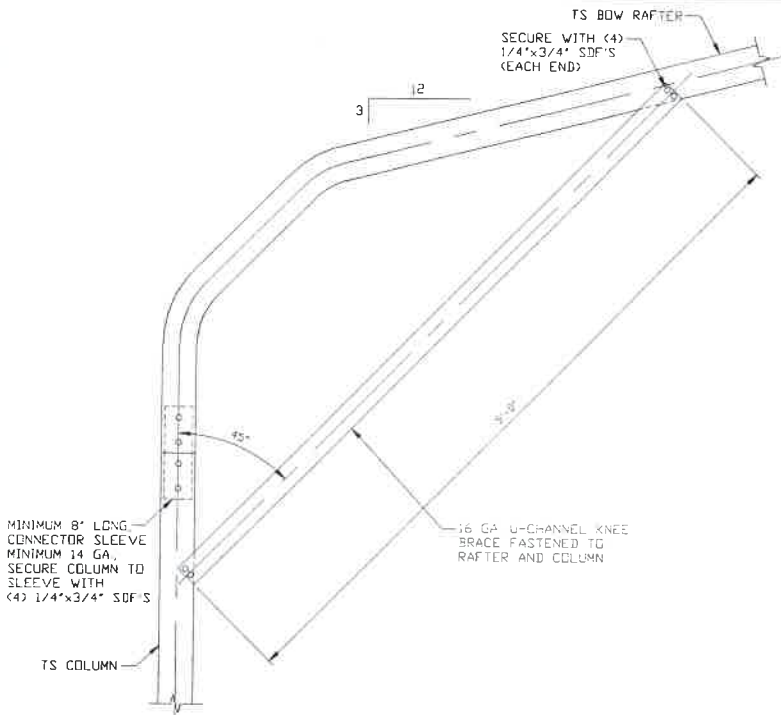
DWG. NO: SK-3

JOB NO: 18033S/18113S/18246S

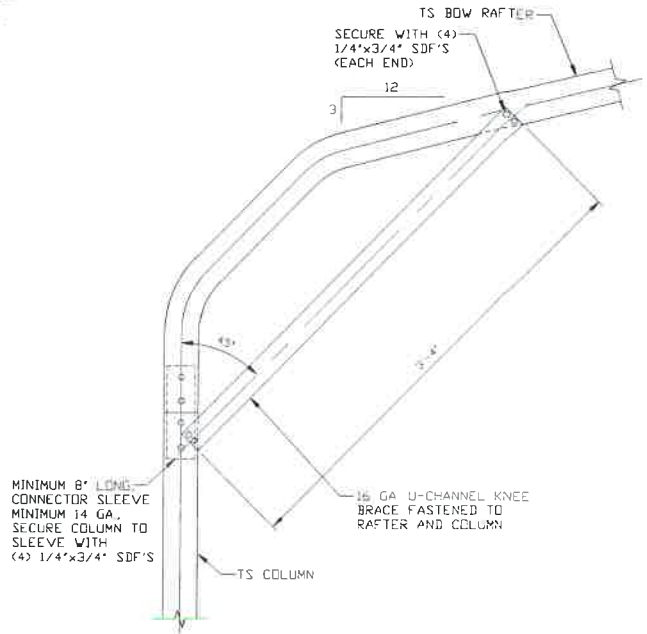
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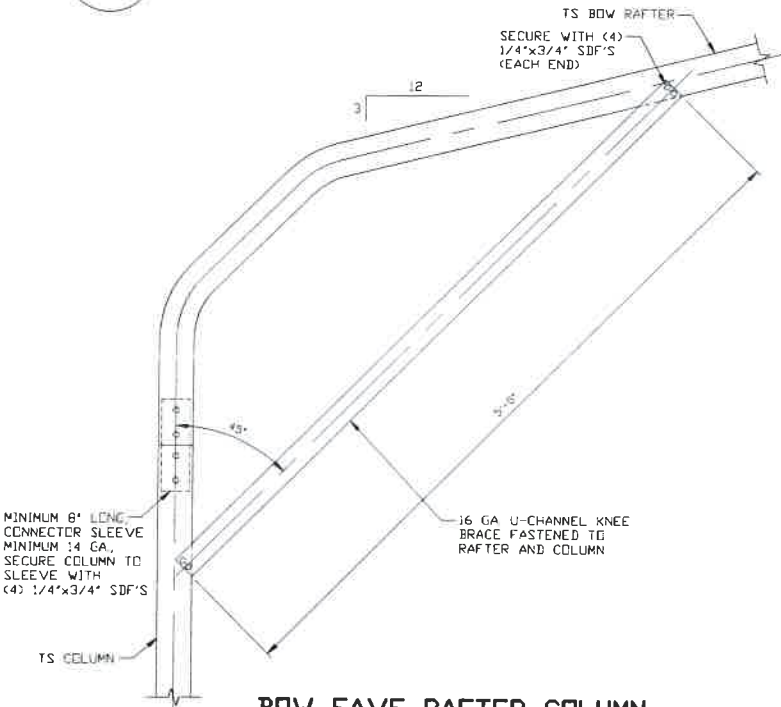
**24'-0" < W ≤ 30'-0" MAXIMUM RAFTER SPAN**



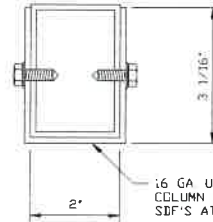
**1A**  
**BOW RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS 12'-0" < TO ≤ 14'-0" @ 3'-6" O.C.  
 SCALE: NTS



**1C**  
**BOW RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS ≤ 10'-0"  
 SCALE: NTS



**1B**  
**BOW EAVE RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS 10'-0" < TO ≤ 12'-0"  
 SCALE: NTS



**BRACE SECTION**  
 SCALE: NTS



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CLIENT: NEWMART BUILDERS

NEWMART BUILDERS, INC.  
 1000 CYCLE LANE  
 SOUTH HILL, VA 23970  
 30'-0" x 14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 7A

SCALE: NTS

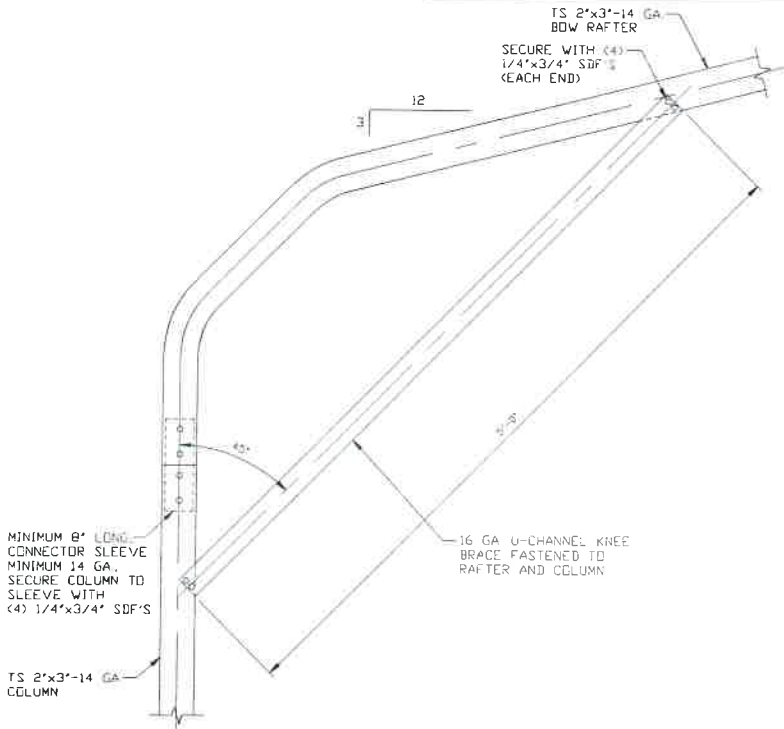
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REV: 6

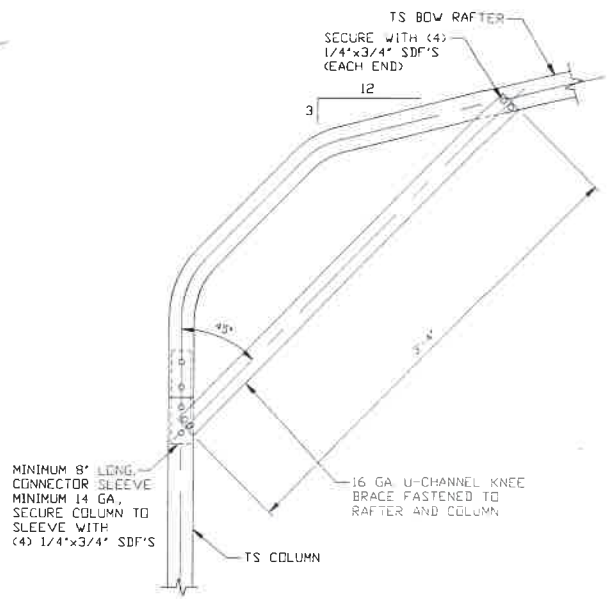
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**W ≤ 24'-0" MAXIMUM RAFTER SPAN**



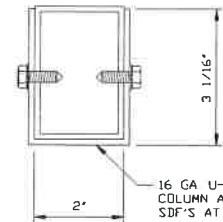
1A

**BOW RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS 12'-0" < TO ≤ 14'-0" @ 4'-0" O.C.  
 SCALE: NTS

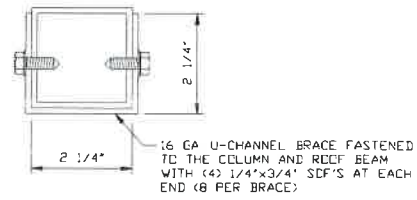


1C

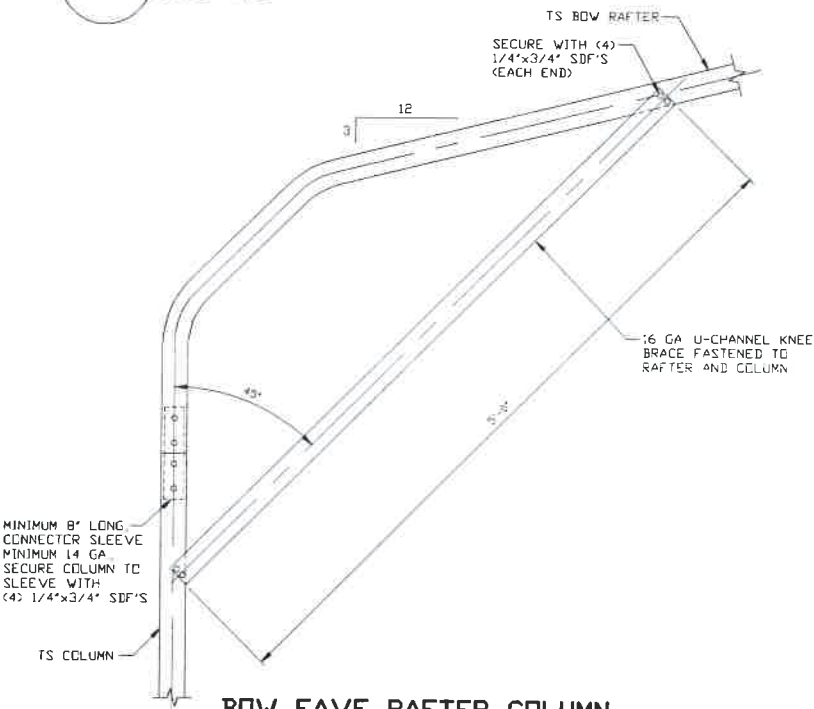
**BOW RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS ≤ 10'-0"  
 SCALE: NTS



**BRACE SECTION**  
 SCALE: NTS

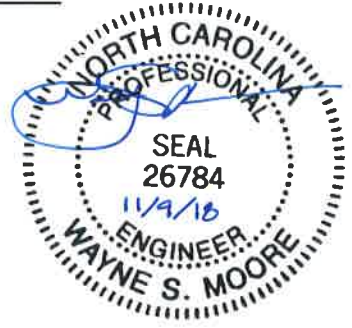


**BRACE SECTION**  
 SCALE: NTS



1B

**BOW EAVE RAFTER COLUMN CONNECTION DETAIL**  
 HEIGHTS 10'-0" < TO ≤ 12'-0" @ 4'-0" O.C.  
 SCALE: NTS



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

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NEWMART BUILDERS, INC.  
 1000 CYCLE LANE  
 SOUTH HILL, VA 23970  
 30'-0"x14'-0" ENCLOSED STRUCTURE

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PROJECT MGR: WSM  
 CLIENT: NEWMART BUILDERS

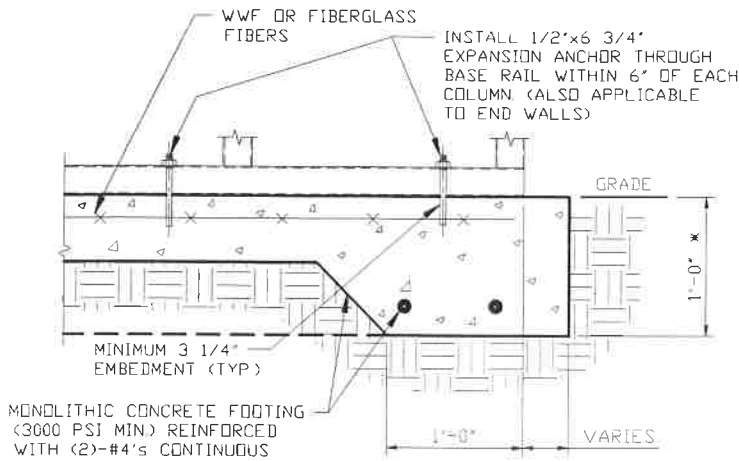
DATE: 11-5-18  
 SHT. 7B

SCALE: NTS  
 DWG. NO: SK-3

JOB NO: 18033S/18113S/18246S  
 REV: 6

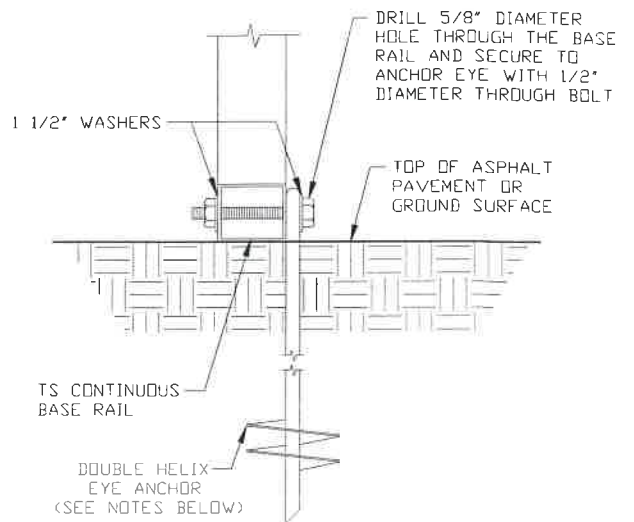


## BASE RAIL ANCHORAGE OPTIONS FOR LOW WIND SPEEDS



### 3A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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



### 3B GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

### GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SDIL 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:

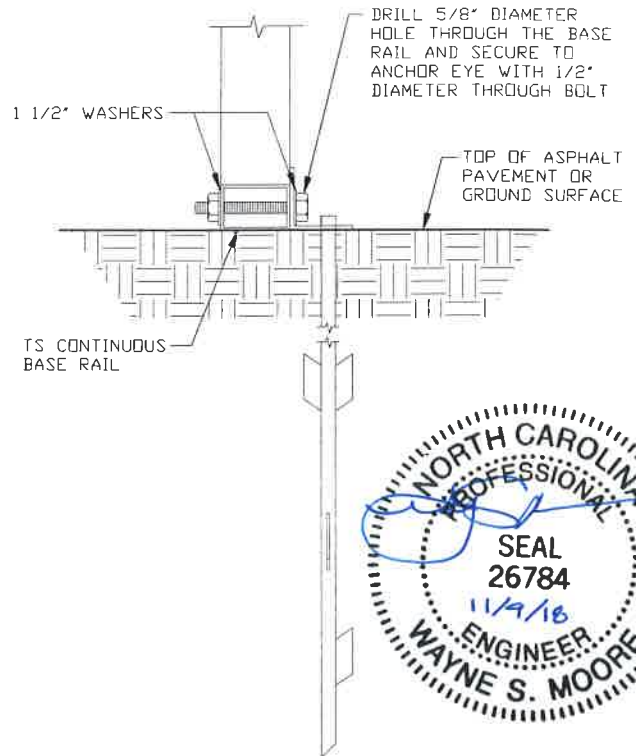
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

#### 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.

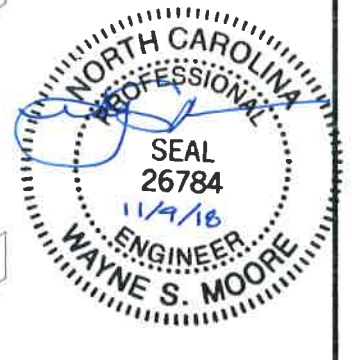
#### HELIX ANCHOR NOTES:

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.



### 3C ASPHALT BASE ANCHORAGE

SCALE: NTS



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**CHECKED BY:** PDH

**PROJECT MGR:** WSM

**CLIENT:** NEWMART BUILDERS

NEW MART BUILDERS, INC.

1000 CYCLE LANE  
 SOUTH HILL, VA 23970  
 30'-0" x 14'-0" ENCLOSED STRUCTURE

**DATE:** 11-5-18

**SHT.** 8

**SCALE:** NTS

**DWG. NO.:** SK-3

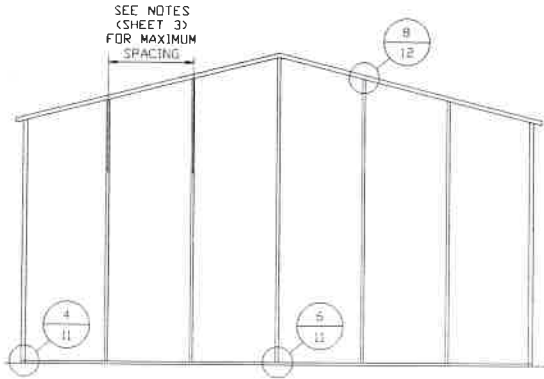
**JOB NO.:** 18033S/18113S/18246S

**REV.:** 6

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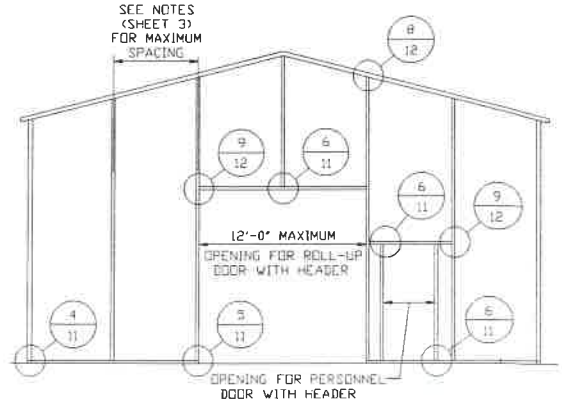


# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



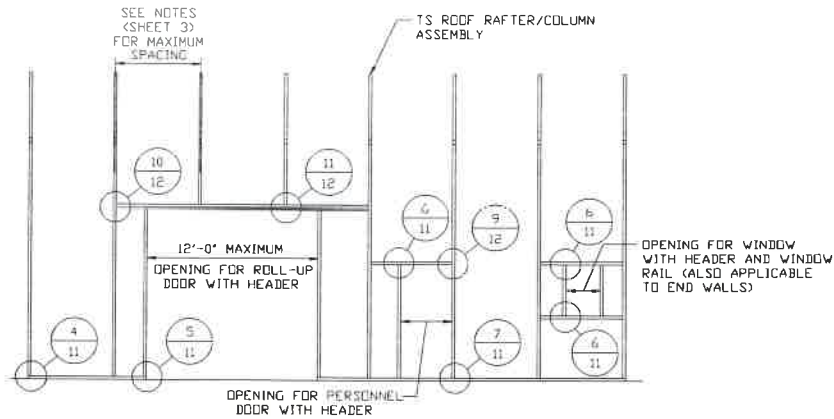
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



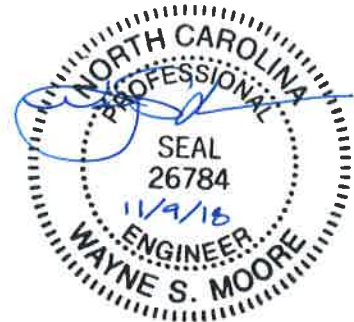
**TYPICAL BOX EAVE RAFTER END  
WALL OPENING FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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**PROJECT MGR: WSM**

**CLIENT: NEWMART BUILDERS**

NEWMART BUILDERS, INC.

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0" x 14'-0" ENCLOSED STRUCTURE

**DATE: 11-5-18**

**SHT. 9**

**SCALE: NTS**

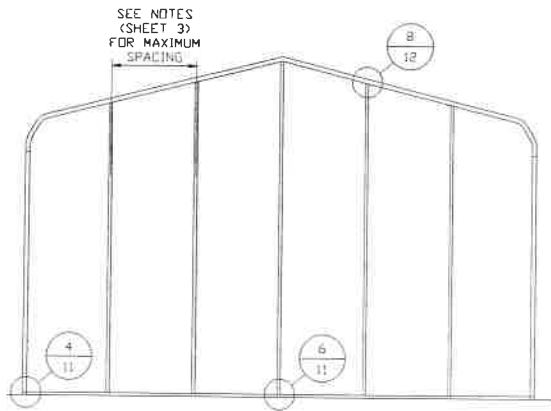
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**JOB NO: 18033S/18113S/18246S**

**REV: 6**

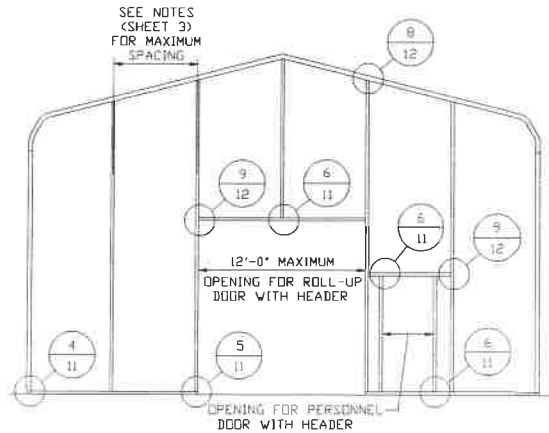
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# BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



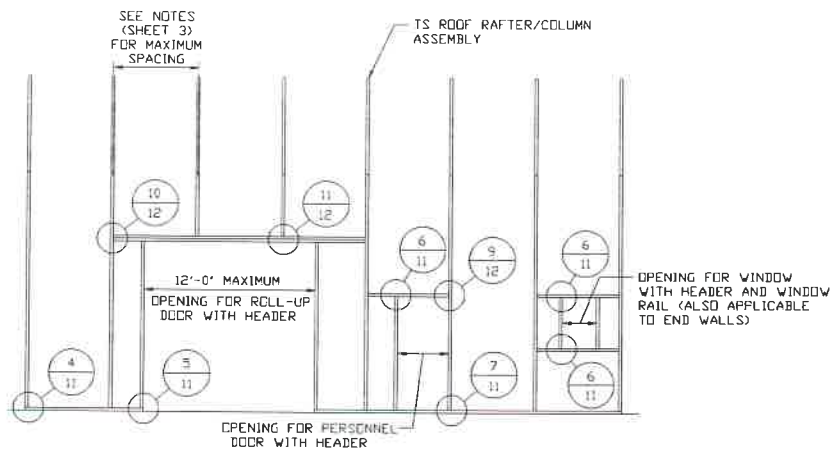
**TYPICAL BOW EAVE RAFTER  
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: NEWMART BUILDERS

NEWMART BUILDERS, INC.

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0" x 14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 10

SCALE: NTS

DWG. NO: SK-3

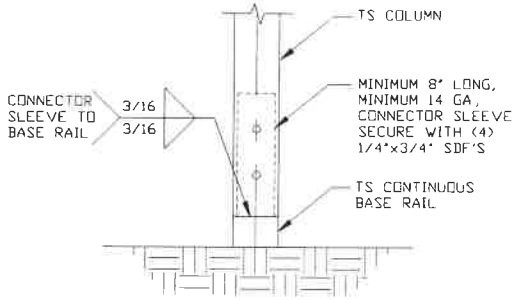
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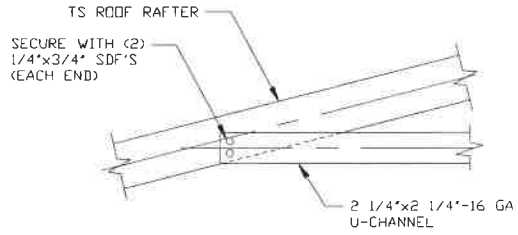
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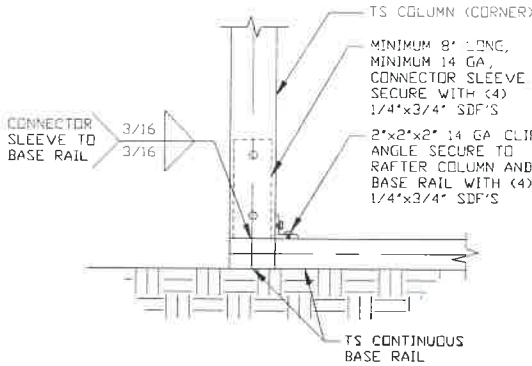
# BOX AND BOW EAVE RAFTER WALL OPENING DETAILS



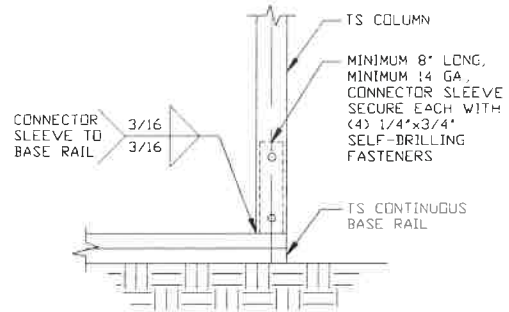
**2** RAFTER COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



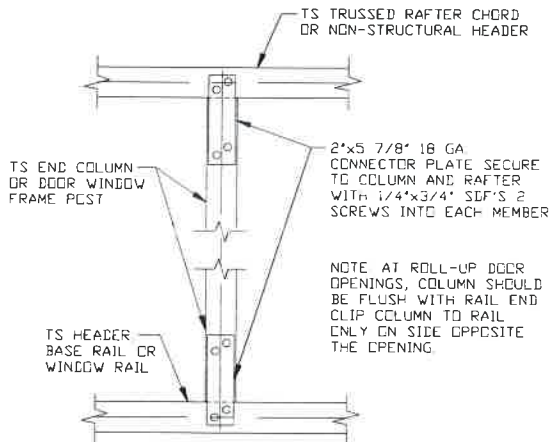
**3** 3'-4' ROOF RAFTER TIE CONNECTION DETAIL  
SCALE: NTS



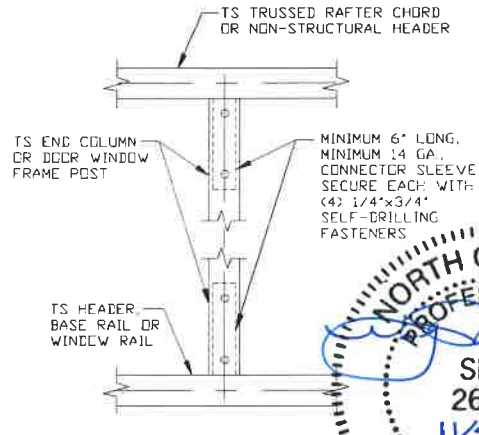
**4** END COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



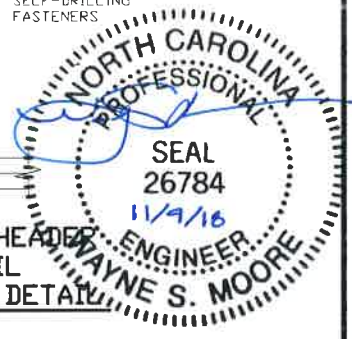
**5** COLUMN/BASE RAIL CONNECTION DETAIL  
SCALE: NTS



**6** COLUMN TO WINDOW RAIL CONNECTION DETAIL  
SCALE: NTS



**7** COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL  
SCALE: NTS



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PROJECT MGR: VSM

CLIENT: NEWMART BUILDERS

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1000 CYCLE LANE  
SOUTH HILL, VA 23970  
30'-0" x 14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 11

SCALE: NTS

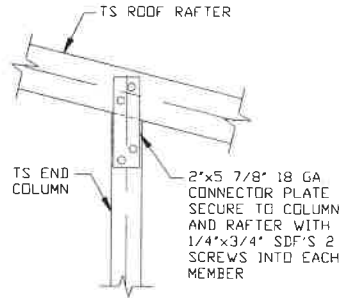
DWG. NO: SK-3

JOB NO: 18033S/18113S/18246S

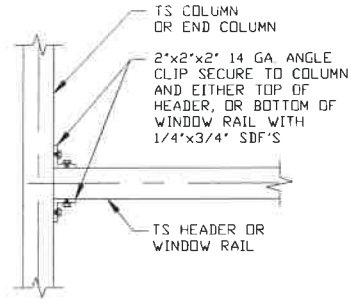
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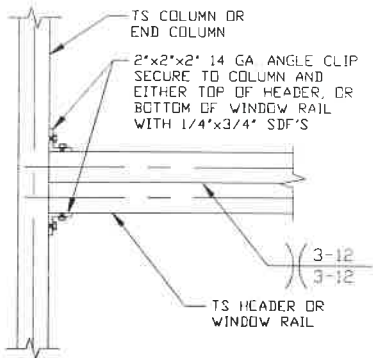
# BOX AND BOW EAVE RAFTER WALL OPENING DETAILS



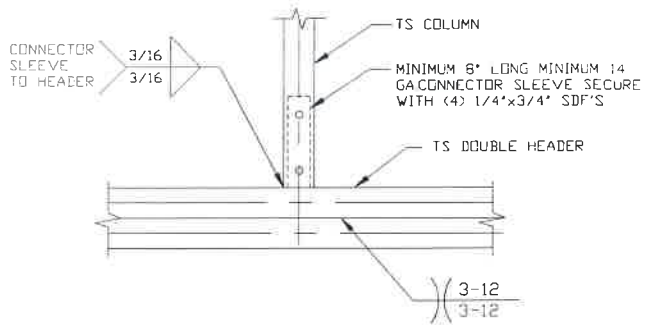
**8** RAFTER TO CHORD CONNECTION DETAIL  
SCALE: NTS



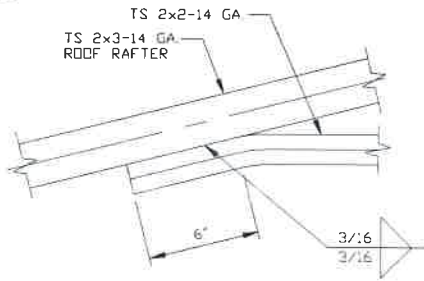
**9** COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL  
SCALE: NTS



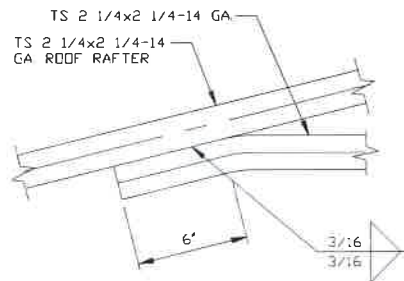
**10** DOUBLE HEADER TO COLUMN CONNECTION DETAIL  
SCALE: NTS



**11** COLUMN/DOUBLE HEADER CONNECTION DETAIL  
SCALE: NTS



**12A** 6'-0" ROOF RAFTER TIE CONNECTION DETAIL  
SCALE: NTS



**12B** 6'-0" ROOF RAFTER TIE CONNECTION DETAIL  
SCALE: NTS



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30'-0"x14'-0" ENCLOSED STRUCTURE

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SHT. 12

SCALE: NTS

DWG. NO: SK-3

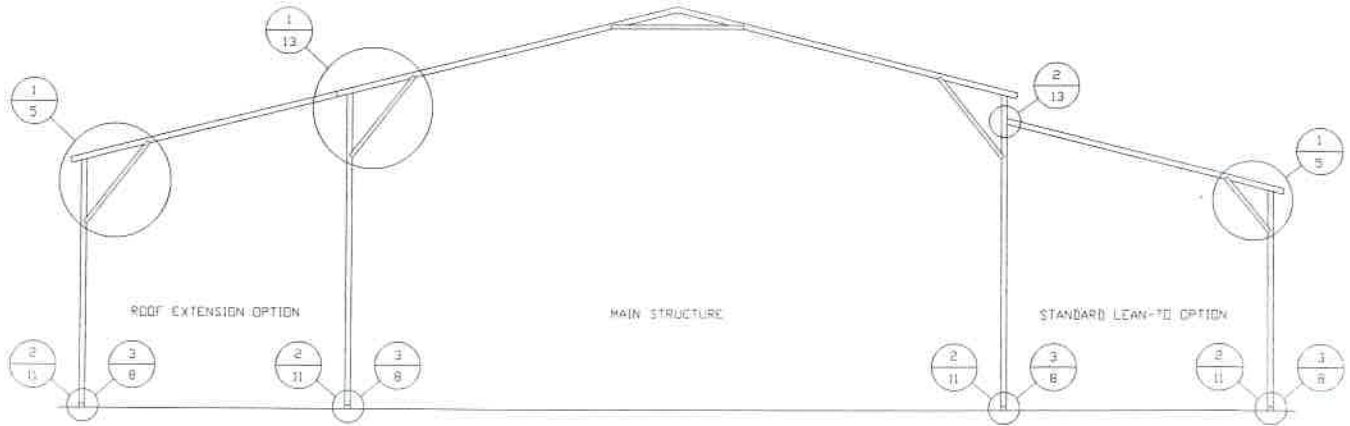
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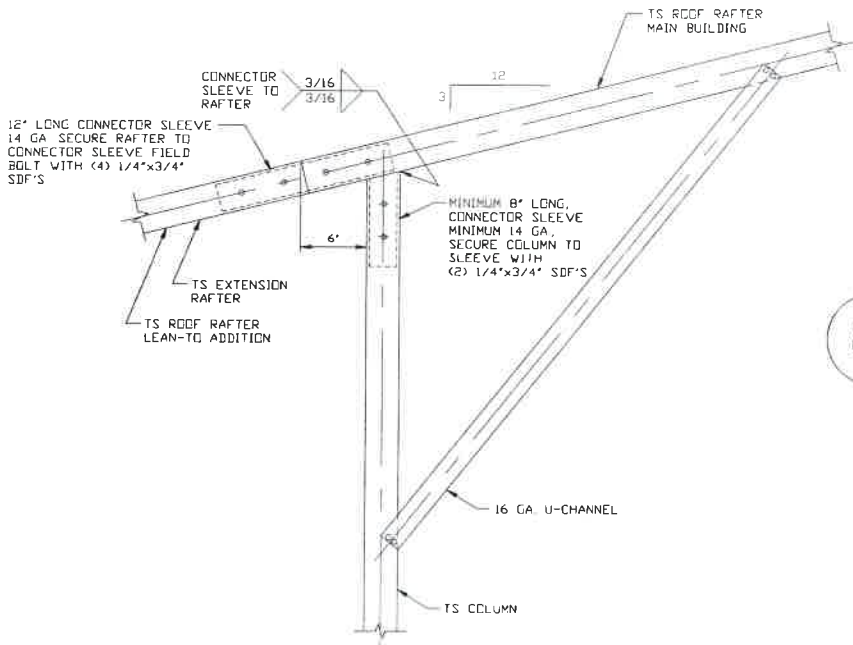
# BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

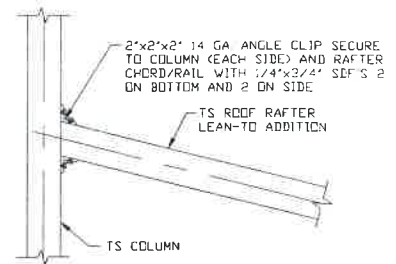
MAXIMUM WIDTH OF STANDARD LEAN-TO IS 12'-0"



1

**SIDE EXTENSION RAFTER/COLUMN DETAIL**

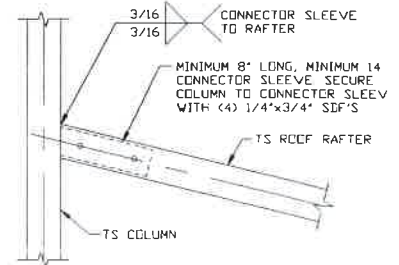
SCALE: NTS



2A

**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL**

SCALE: NTS



2B

**LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL**

SCALE: NTS



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NEWMART BUILDERS, INC.

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0"x14'-0" ENCLOSED STRUCTURE

DATE: 11-5-18

SHT. 13

SCALE: NTS

DWG. NO: SK-3

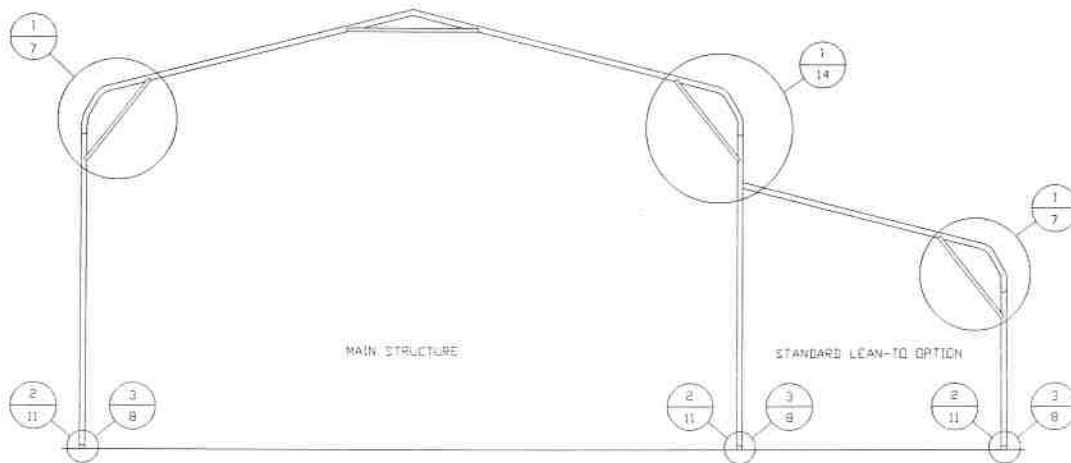
JOB NO:

18033S/18113S/18246S

REV: 6

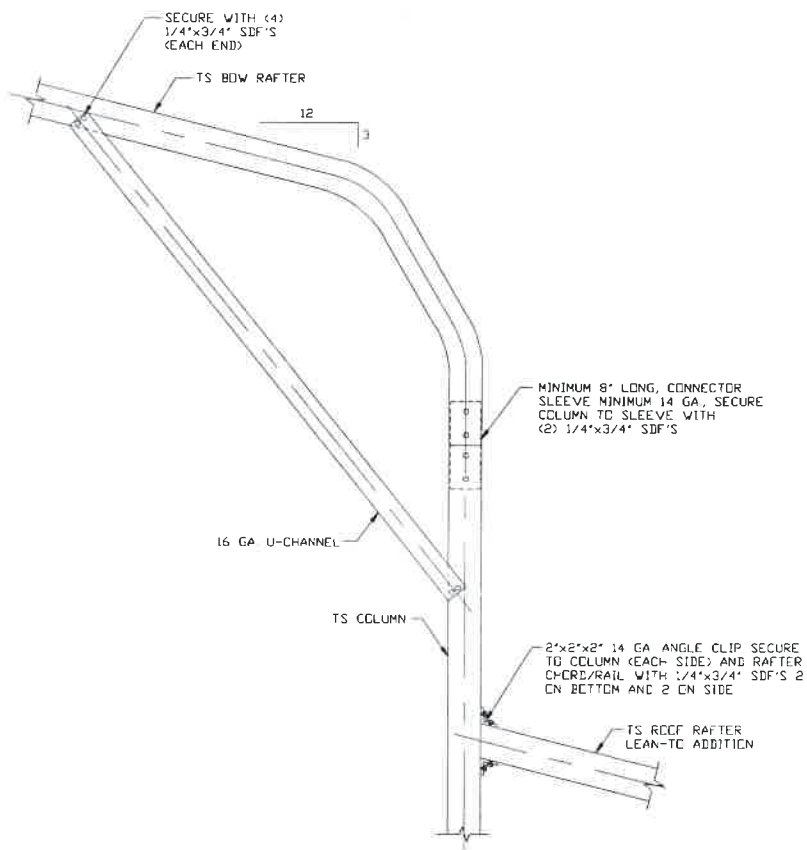
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# BOW RAFTER LEAN-TO OPTIONS



## TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

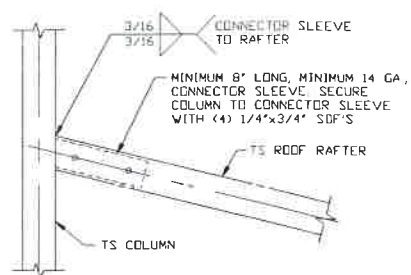
SCALE: NTS  
 MAXIMUM WIDTH OF STANDARD LEAN-TO IS 12'-0"



### LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

1A



### LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

1B



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 1000 CYCLE LANE  
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SHT. 14

SCALE: NTS

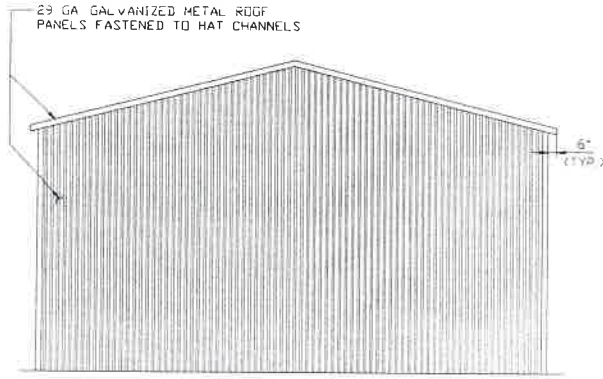
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JOB NO: 18033S/18113S/18246S

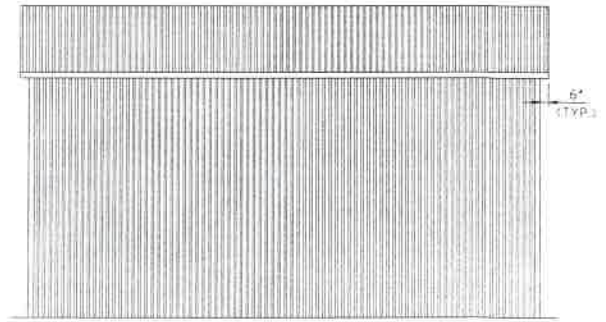
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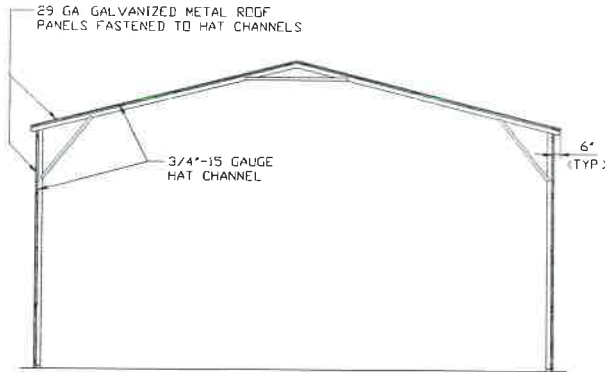
# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



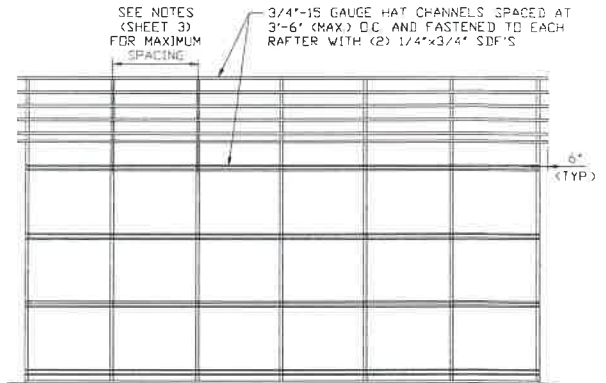
**TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING**  
SCALE: NTS



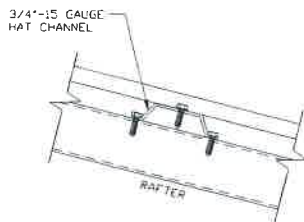
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING OPTION**  
SCALE: NTS



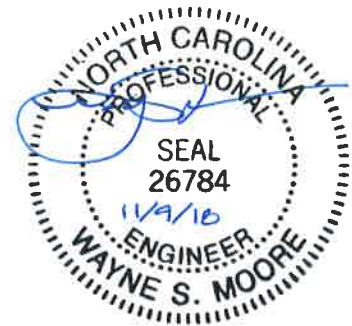
**TYPICAL SECTION  
VERTICAL ROOF/SIDING OPTION**  
SCALE: NTS



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



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



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ENGINEERING AND CONSULTING, INC.**

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**CHECKED BY:** PDH

**PROJECT MGR:** WSM

**CLIENT:** NEWMART BUILDERS

**NEWMART BUILDERS, INC.**

1000 CYCLE LANE

SOUTH HILL, VA 23970

30'-0" x 14'-0" ENCLOSED STRUCTURE

**DATE:** 11-5-18

**SHT.** 15

**SCALE:** NTS

**DWG. NO:** SK-3

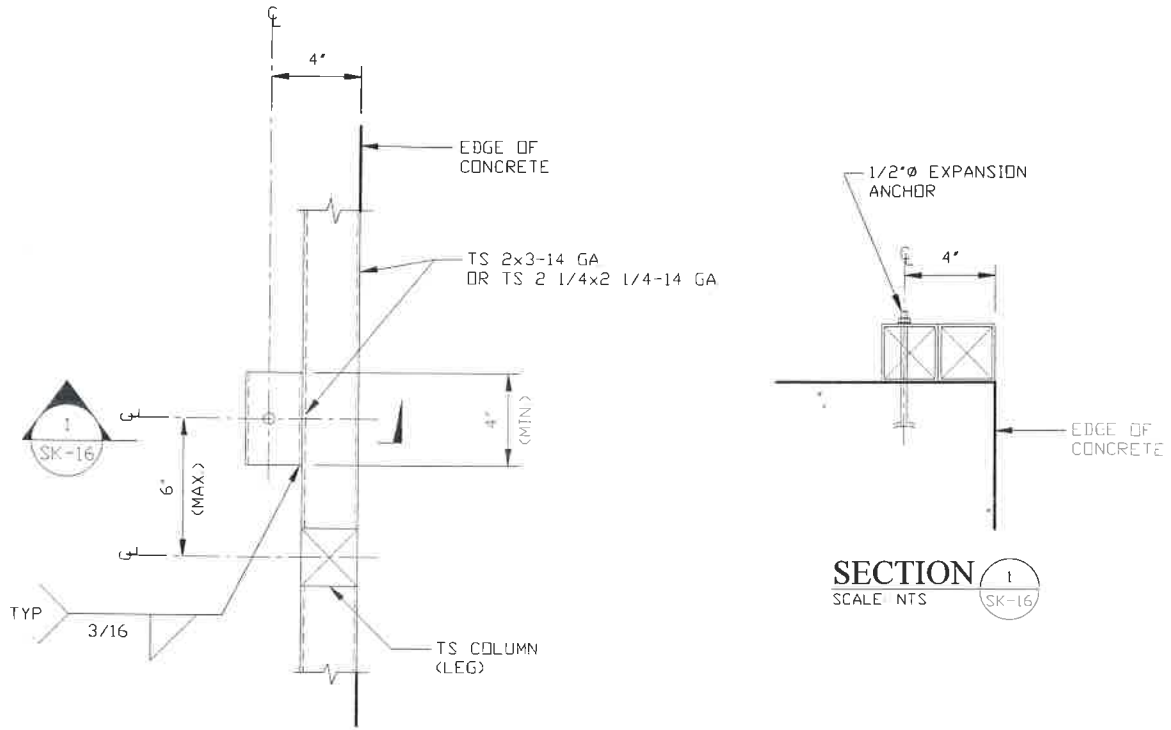
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## ADDITIONAL BASE RAIL ANCHORAGE OPTION



**TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE**

SCALE: NTS



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**NEWMART BUILDERS, INC.  
1000 CYCLE LANE  
SOUTH HILL, VA 23970  
30'-0" x 14'-0" ENCLOSED STRUCTURE**

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**SHT. 16**

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