



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

24 October 2018

Revision 1

M&A Project No. 17171S/18253S

Prepared for:

**Carport Central, Inc.
737 South Main 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**



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

CARPORI CENTRAL, INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-24-18

SHT. 1

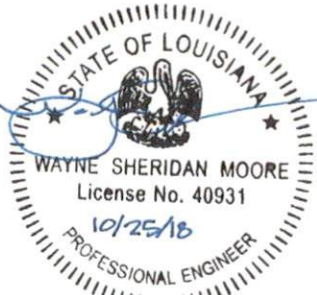

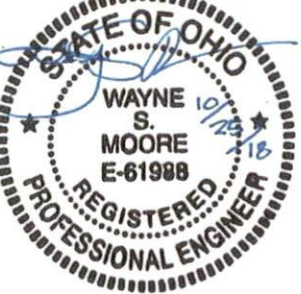

SCALE: NTS

DWG. NO: SK-3

JOB NO:
17171S/18253S

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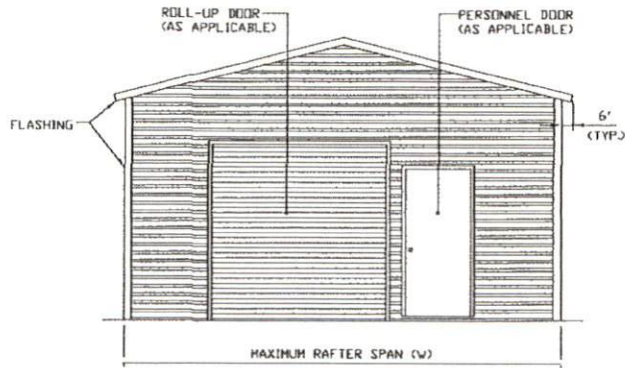
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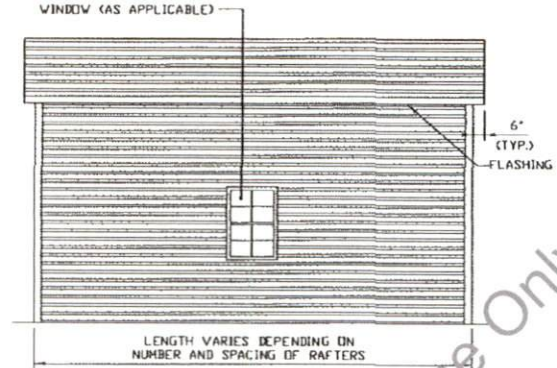
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BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 5, 8, 9, 11, 12, 13, AND 15)



TYPICAL END ELEVATION-HORIZONTAL ROOF

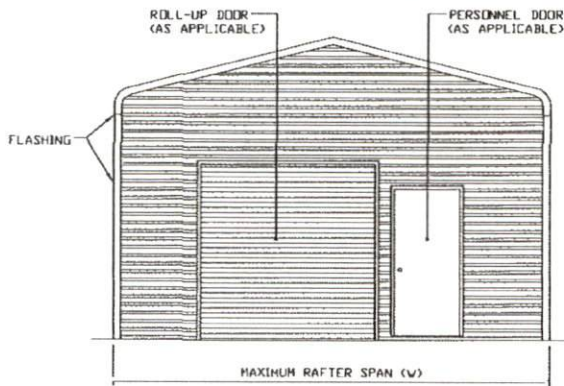
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TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

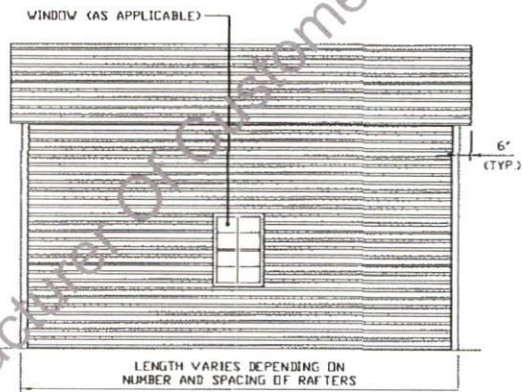
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BOW FRAME RAFTER STRUCTURE (Sheets 6, 7, 8, 10, 11, 12, AND 14)



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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, 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) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 30 PSF ($\leq 25'-0"$), 35 PSF ($26'-0" < W \leq 30'-0"$)
4. ULTIMATE WIND SPEED 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 113 MPH); MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
5. END WALL COLUMNS (POST) ARE SIMILAR 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 TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
9. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
10. FASTENERS CONSIST OF 1/4"x3/4" (UNLESS OTHERWISE NOTED) 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 COLUMN.
12. GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL 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 $I_E = 1.0$
 - $S_{DS} = 2.039 g$ $V = C_s W$
 - $S_{D1} = 1.258 g$

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3,000" x 16'-0" ENCLOSED STRUCTURE

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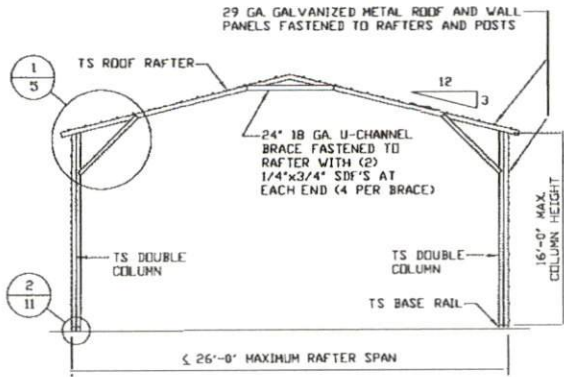
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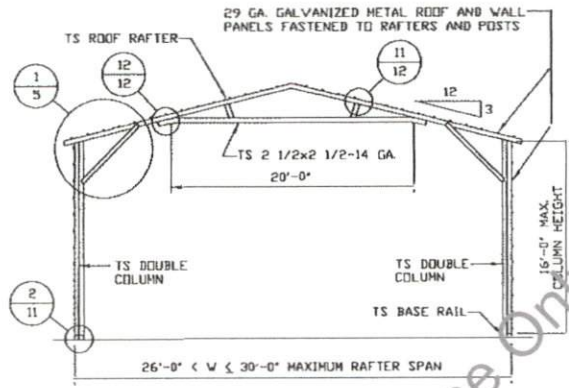
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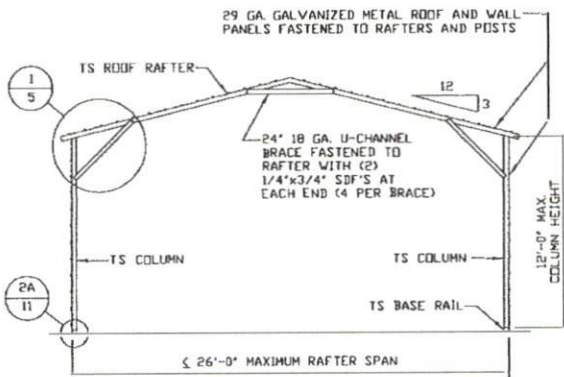
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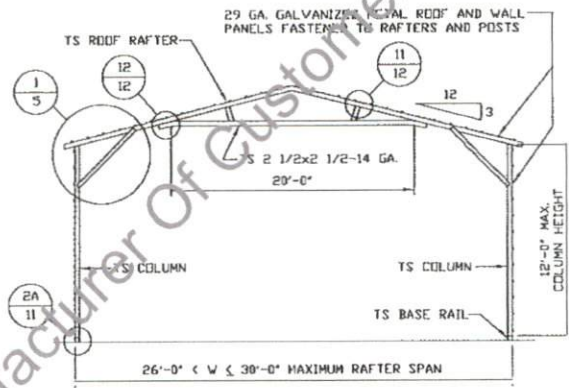
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



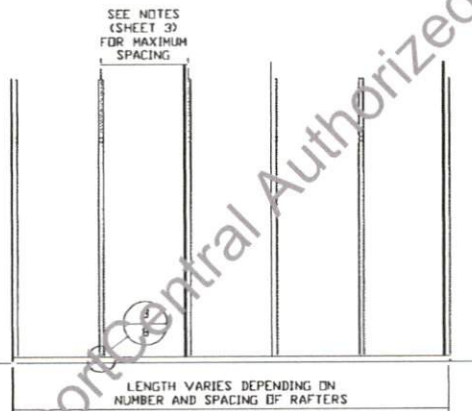
TYPICAL RAFTER/COLUMN END FRAME SECTION
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SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



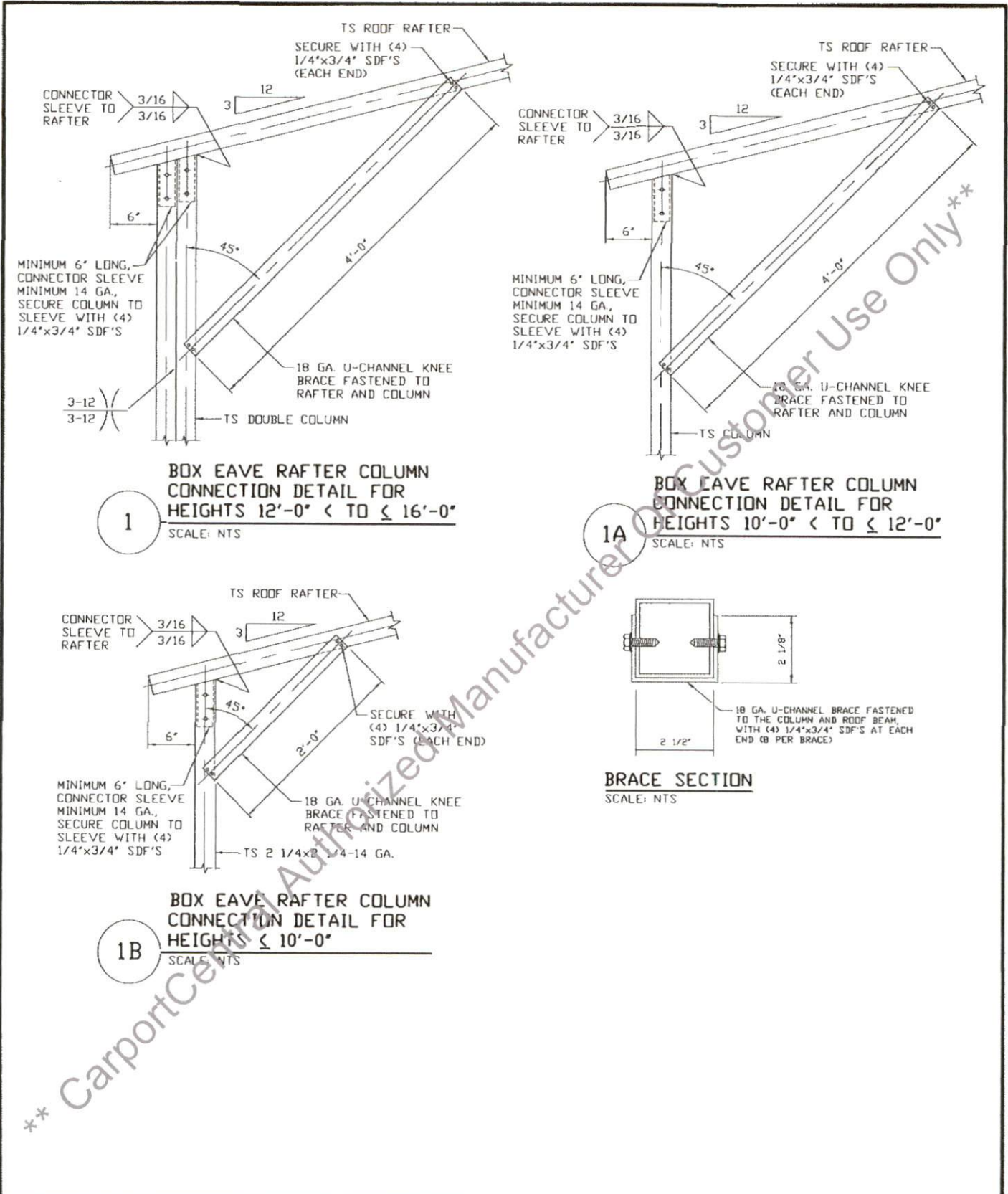
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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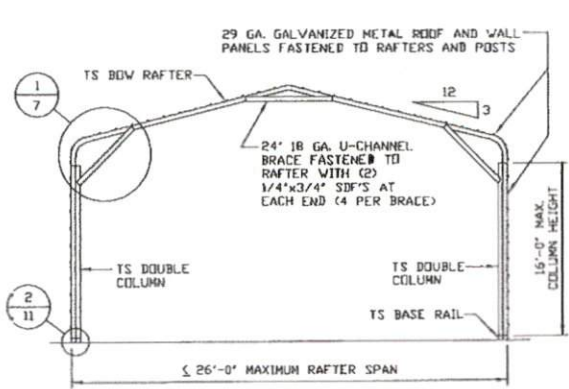
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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE
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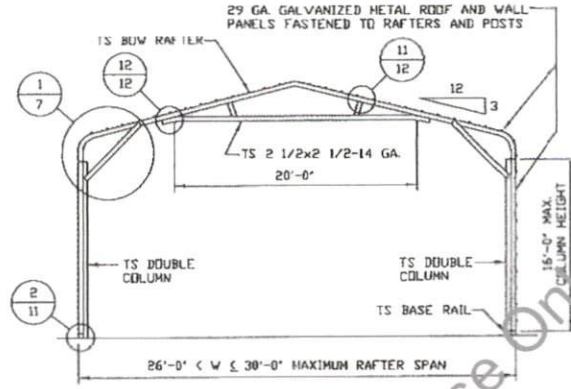


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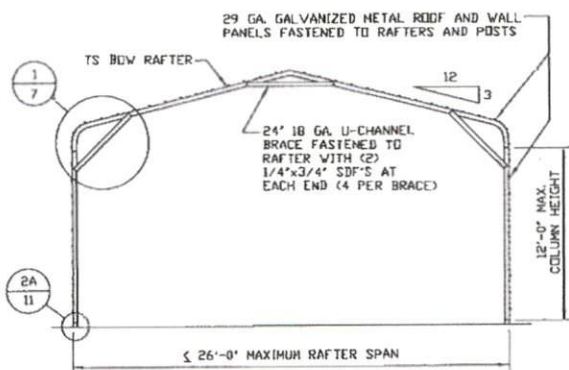
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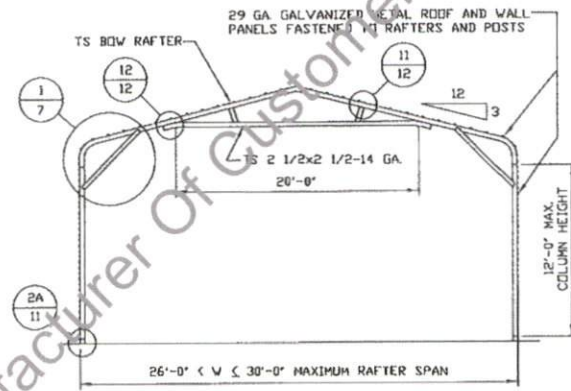
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



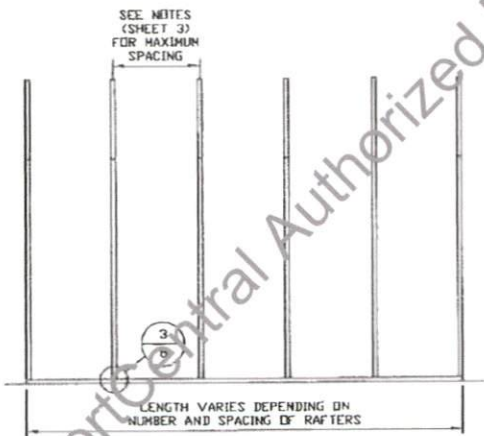
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS

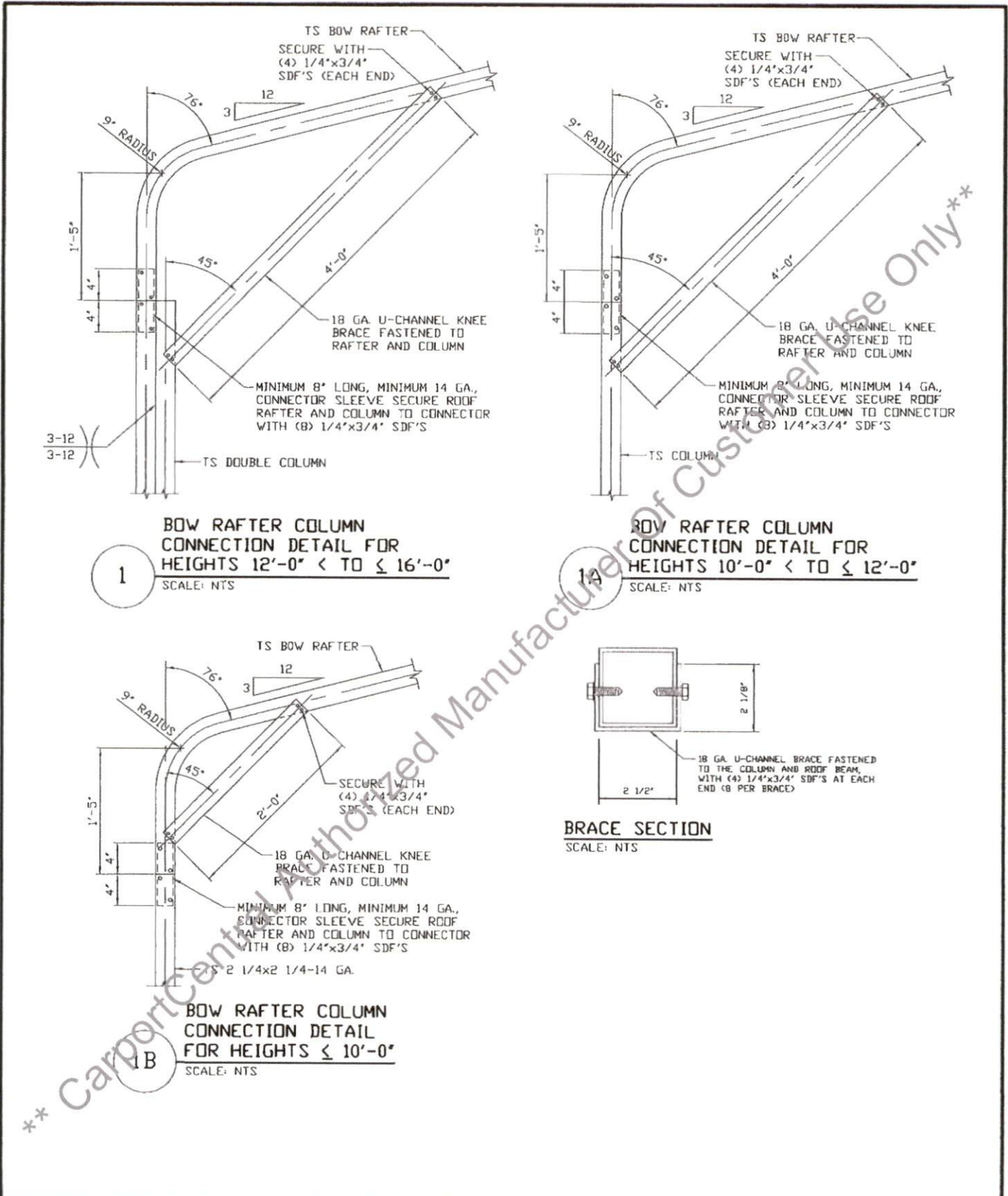
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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0" x 16'-0" ENCLOSED STRUCTURE

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1
BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
 SCALE: NTS

1A
BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"
 SCALE: NTS

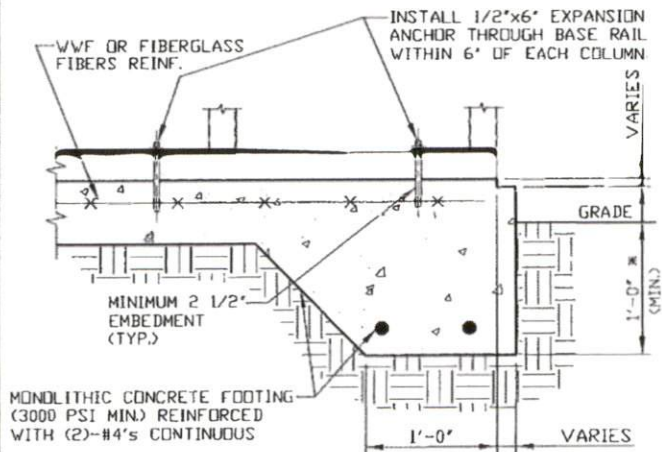
1B
BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"
 SCALE: NTS

BRACE SECTION
 SCALE: NTS

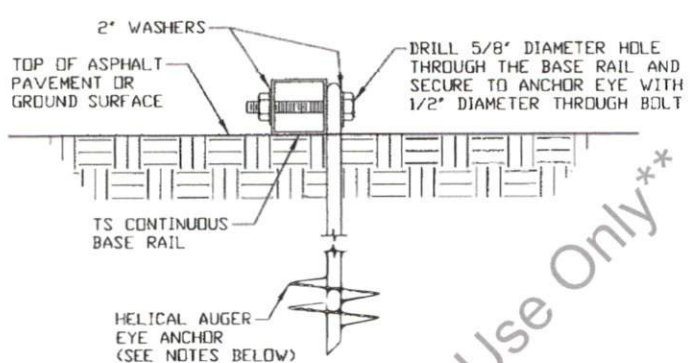
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BASE RAIL ANCHORAGE OPTIONS



3A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".



3B HELICAL AUGER ANCHORAGE
 SCALE: NTS (CAN BE USED FOR ASPHALT)

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.

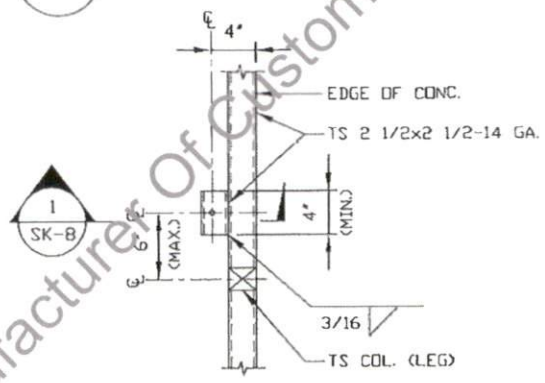
REINFORCING STEEL:
 THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

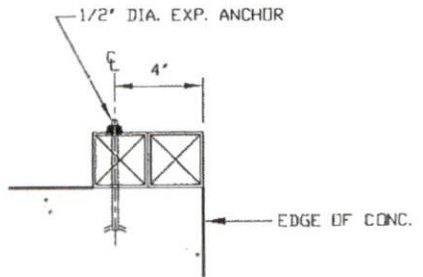
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELICAL AUGER 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" 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE
 SCALE: NTS



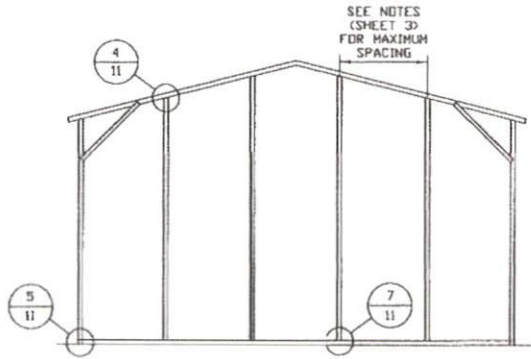
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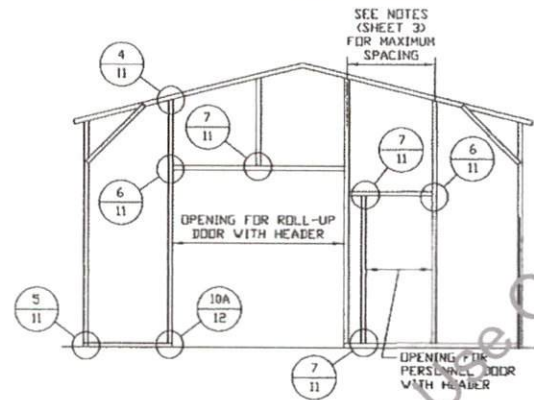
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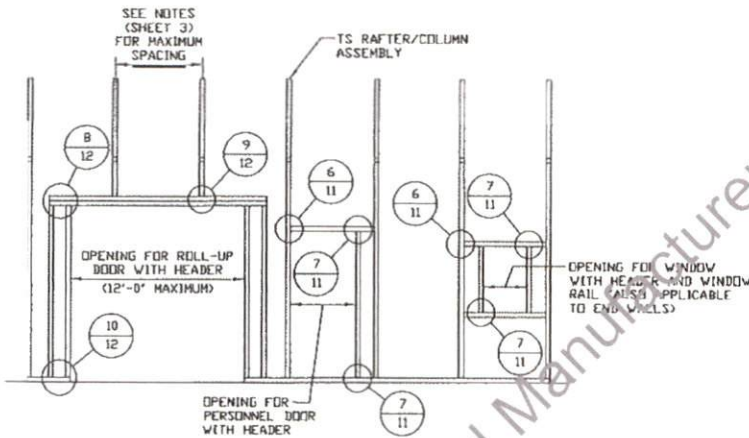
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**
SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**
SCALE: NTS

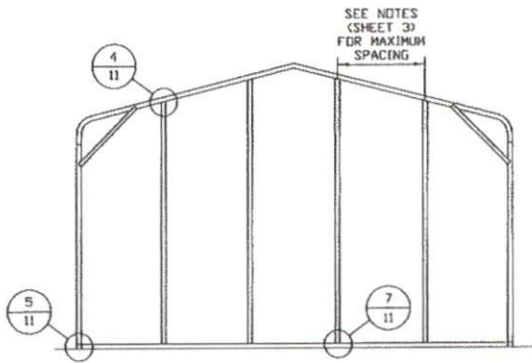


**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**
SCALE: NTS

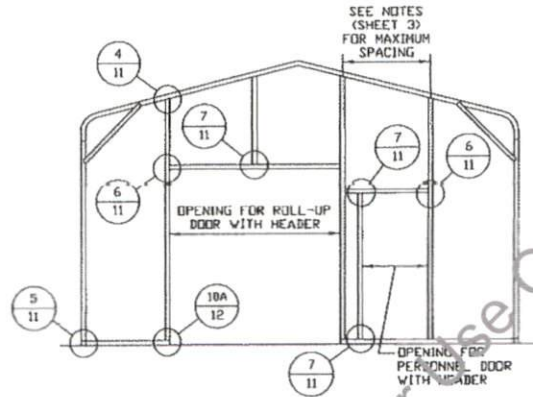
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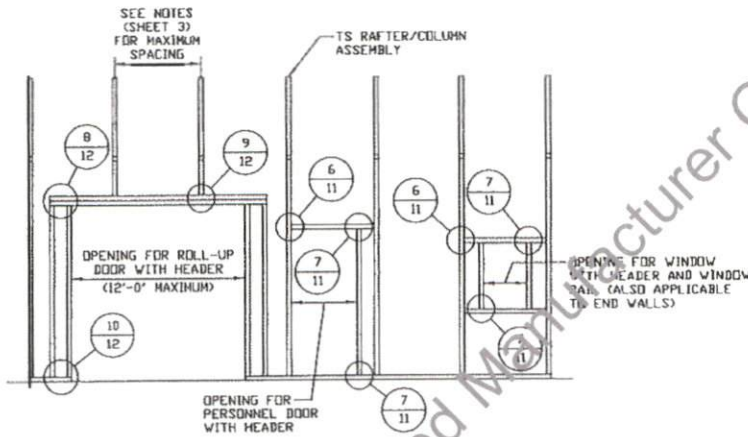
BOW RAFTER END WALL AND SIDE WALL OPENINGS



**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**
SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**
SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**
SCALE: NTS

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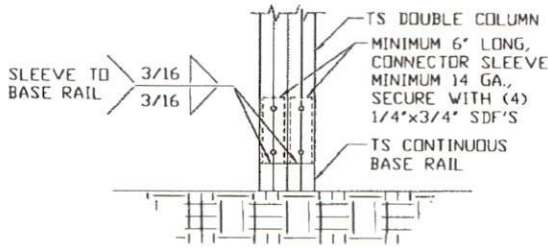
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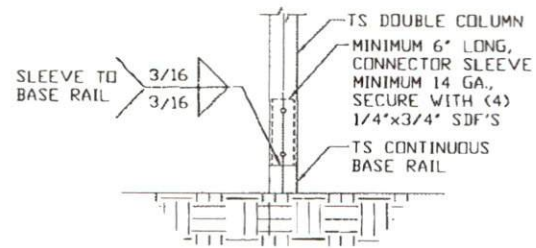
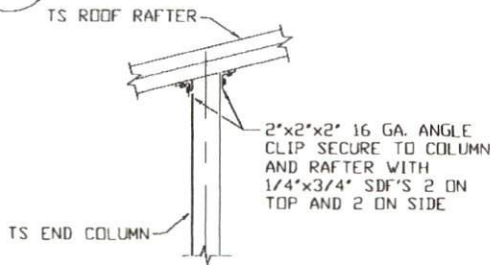
PROJECT MGR: WSM	DATE: 10-24-18	SCALE: NTS	JOB NO: 17171S/18253S
CLIENT: CC	SHT. 10	DWG. NO: SK-3	REV: 1

BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



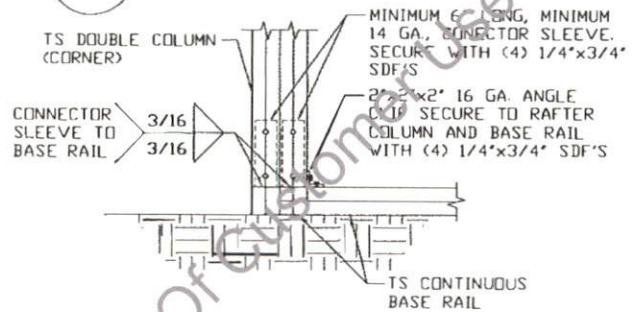
2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



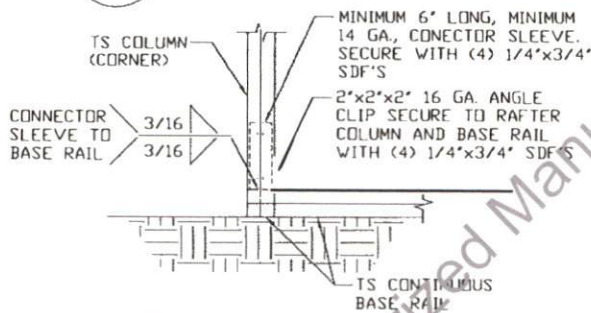
2A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



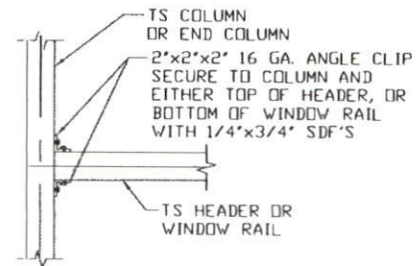
4 END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



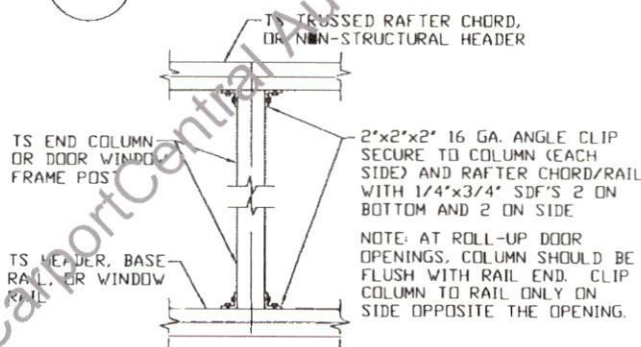
5 END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



5A END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS

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

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CC

CARPORIT CENTRAL, INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
30'-0" x 6'-0" ENCLOSED STRUCTURE

DATE: 10-24-18

SHT. 11

SCALE: NTS

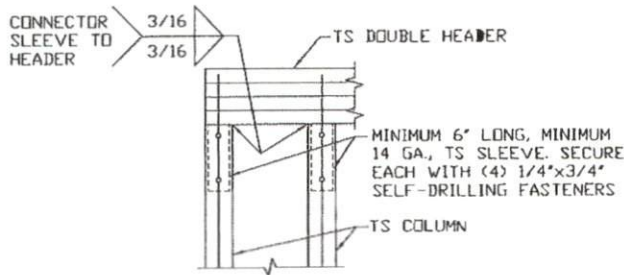
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JOB NO:
17171S/1825JS

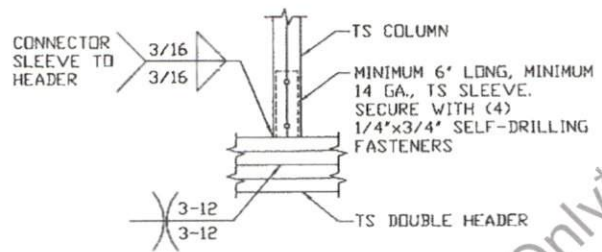
REV: 1

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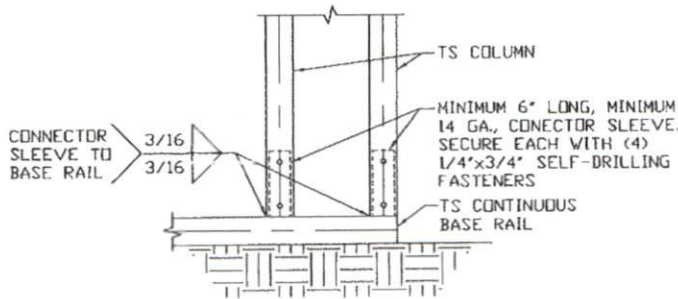
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



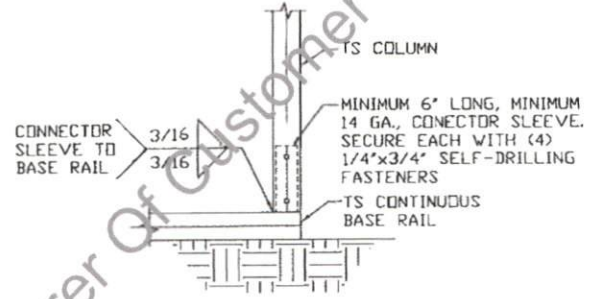
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



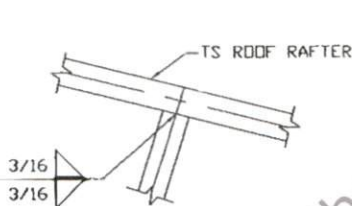
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



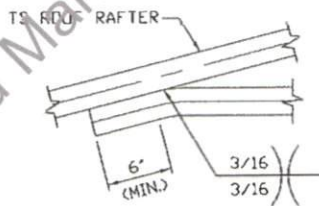
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



10A COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS

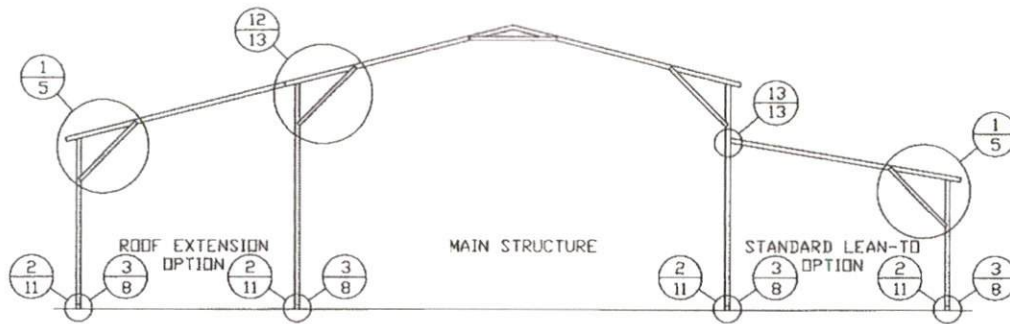


12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

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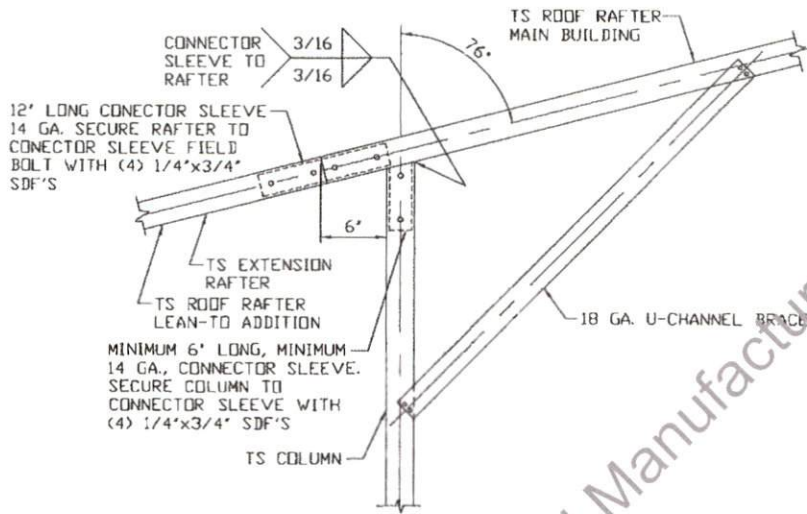
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030	
	CHECKED BY: PDH		30'-0" x 16'-0" ENCLOSED STRUCTURE	
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	CLIENT: CC	SHT. 12	DWG. NO: SK-3	REV: 1

BOX EAVE RAFTER LEAN-TO OPTIONS

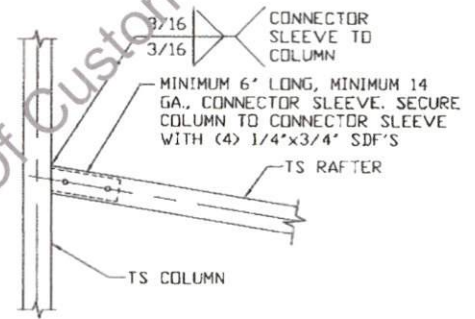


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS
 (MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 12'-0")



12 SIDE EXTENSION RAFTER/COLUMN DETAIL
 SCALE: NTS

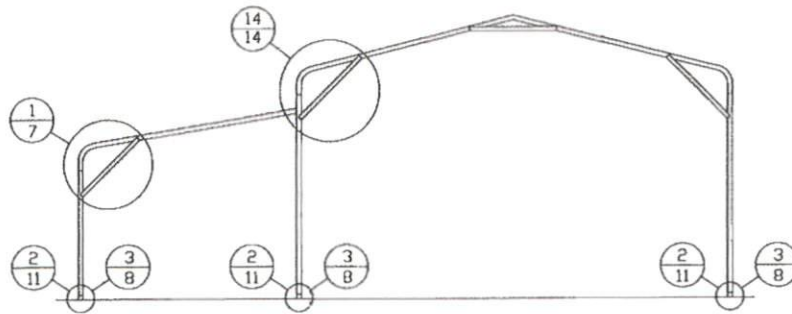


13 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL
 SCALE: NTS

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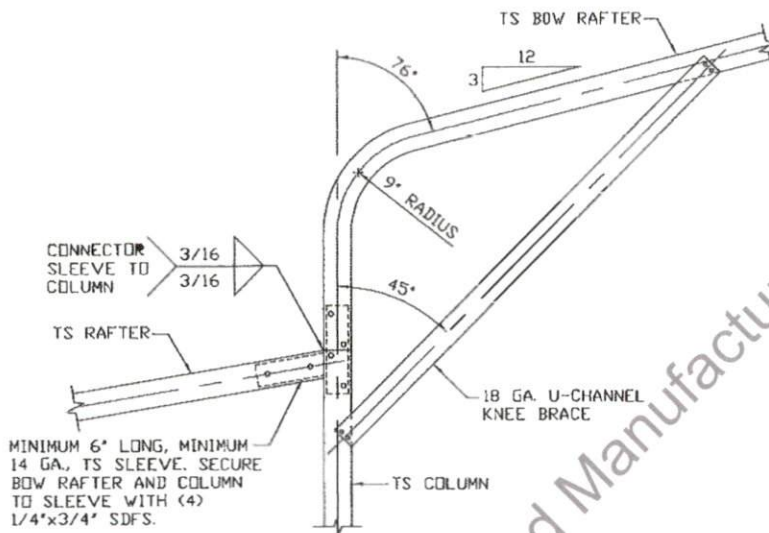
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	CHECKED BY: PDH			
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	CLIENT: CC	SHT. 13	DWG. NO: SK-3	REV: 1

BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS
(MAXIMUM WIDTH OF SINGLE MEMBER RAFTER LEAN-TO IS 12'-0")

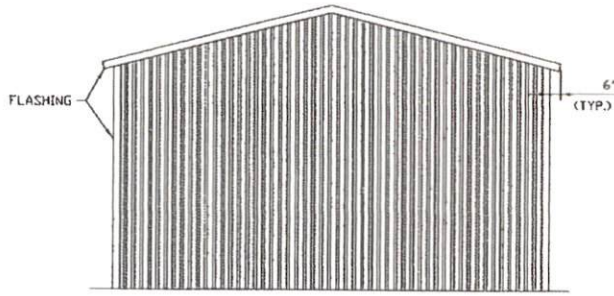


14 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL
SCALE: NTS

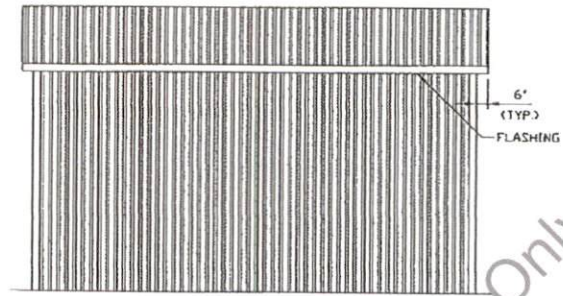
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	CHECKED BY: PDH				
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	CLIENT: CC	SHT. 14	DWG. NO: SK-3	REV: 1	

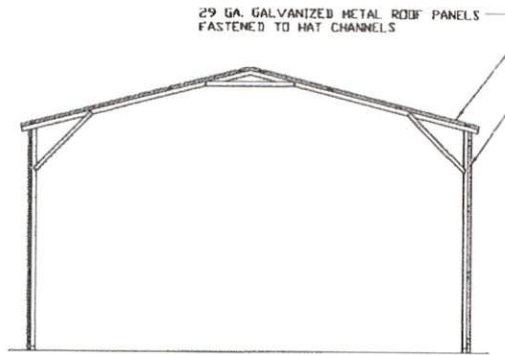
BOX EAVE RAFTER VERTICAL ROOF OPTION



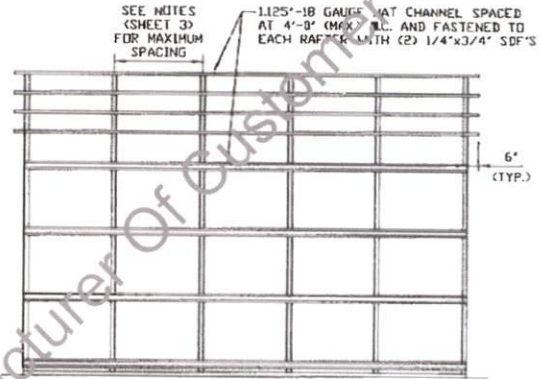
**TYPICAL END ELEVATION
VERTICAL ROOF**
SCALE: NTS



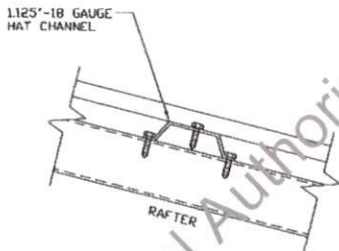
**TYPICAL SIDE ELEVATION
VERTICAL ROOF**
SCALE: NTS



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



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

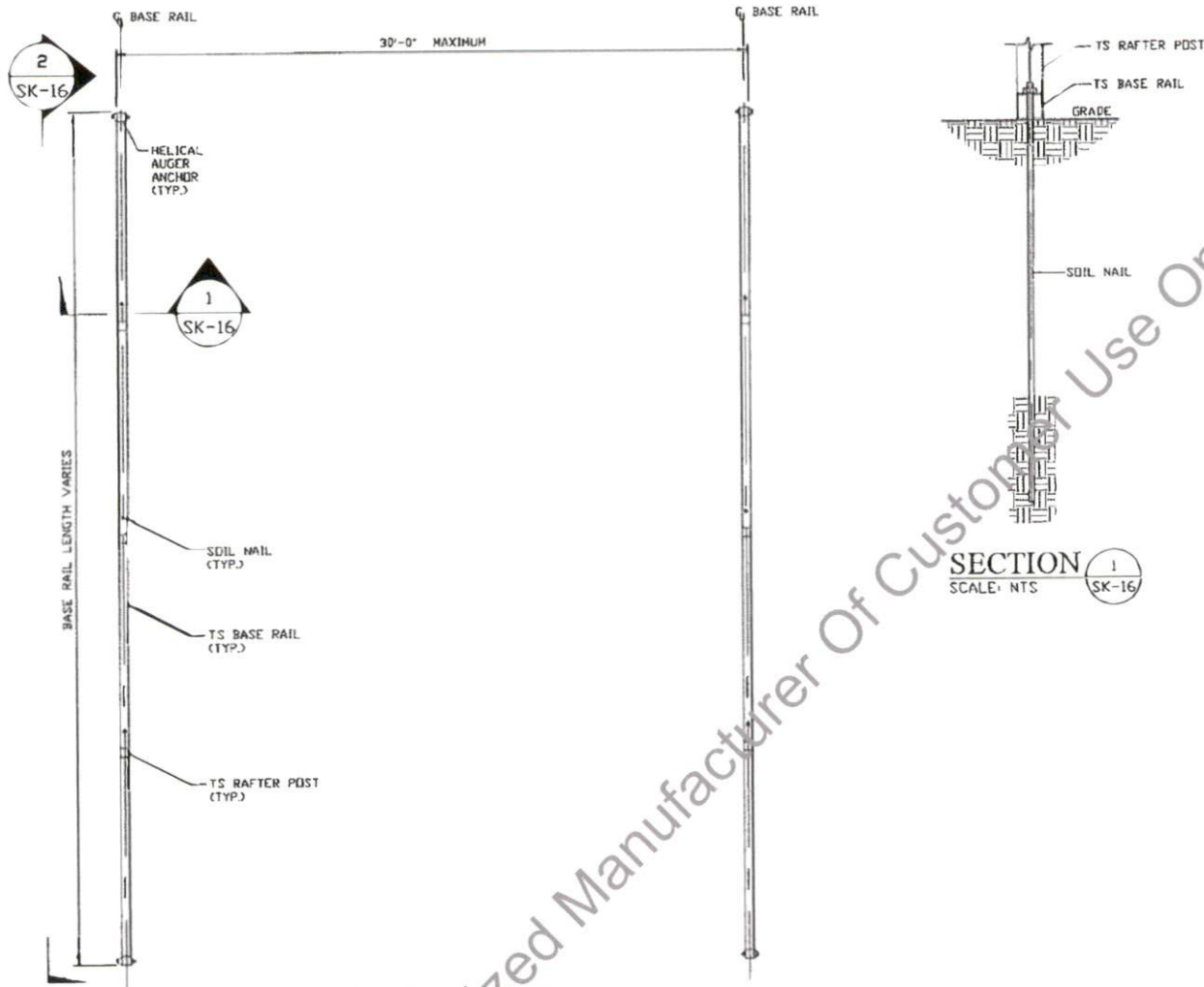


ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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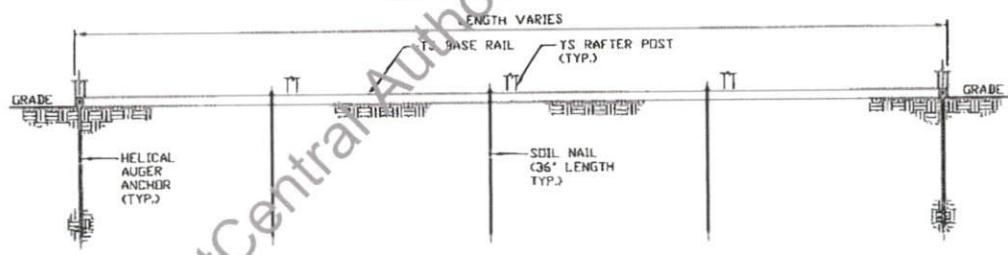
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	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 10-24-18	SCALE: NTS
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OPTIONAL BASE RAIL ON GRADE APPLICATION



SECTION 1
SCALE: NTS
SK-16

BASE RAIL PLAN
SCALE: NTS



SECTION 2
SCALE: NTS
SK-16

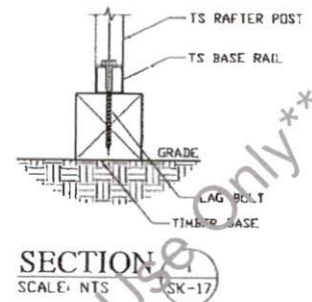
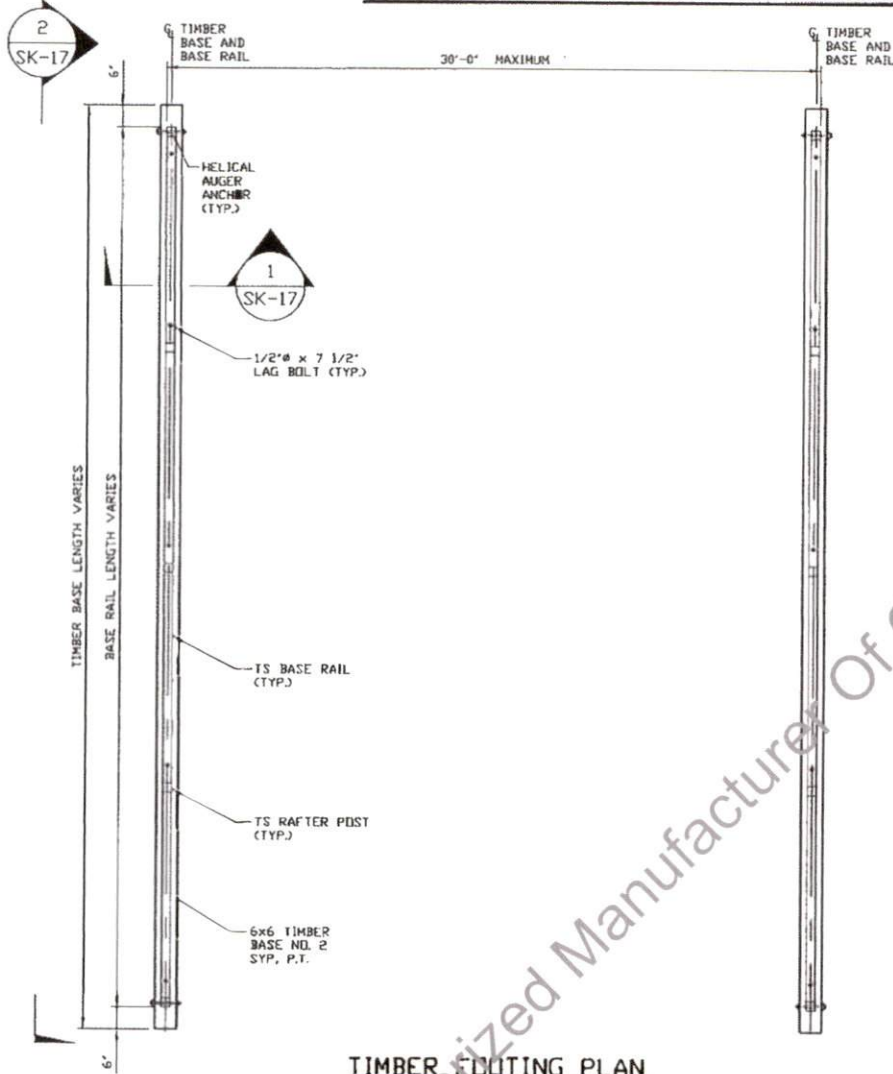
HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0"
30'-0"	15'-0"

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

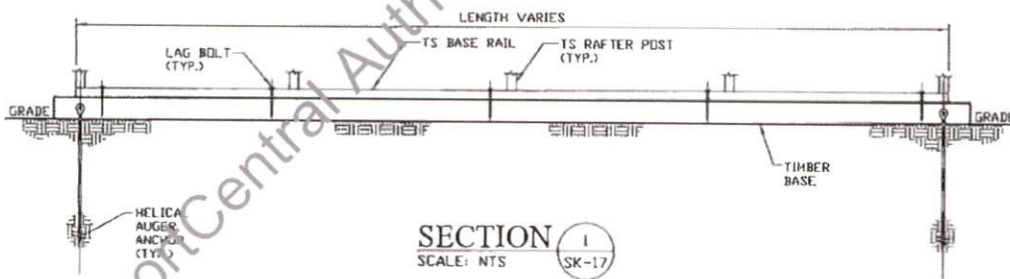
DRAWN BY: LT		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030	
CHECKED BY: PDH		30'-0" x 16'-0" ENCLOSED STRUCTURE	
PROJECT MGR: WSH	DATE: 10-24-18	SCALE: NTS	JOB NO: 17171S/18253S
CLIENT: CC	SHT. 16	DWG. NO: SK-3	REV: 1

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OPTIONAL BASE RAIL ON TIMBER BEAM



TIMBER ELEVATION PLAN
SCALE: NTS



SECTION SK-17
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0"
30'-0"	15'-0"

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030

30'-0" x 6'-0" ENCLOSED STRUCTURE

DATE: 10-24-18

SHT. 17

SCALE: NTS

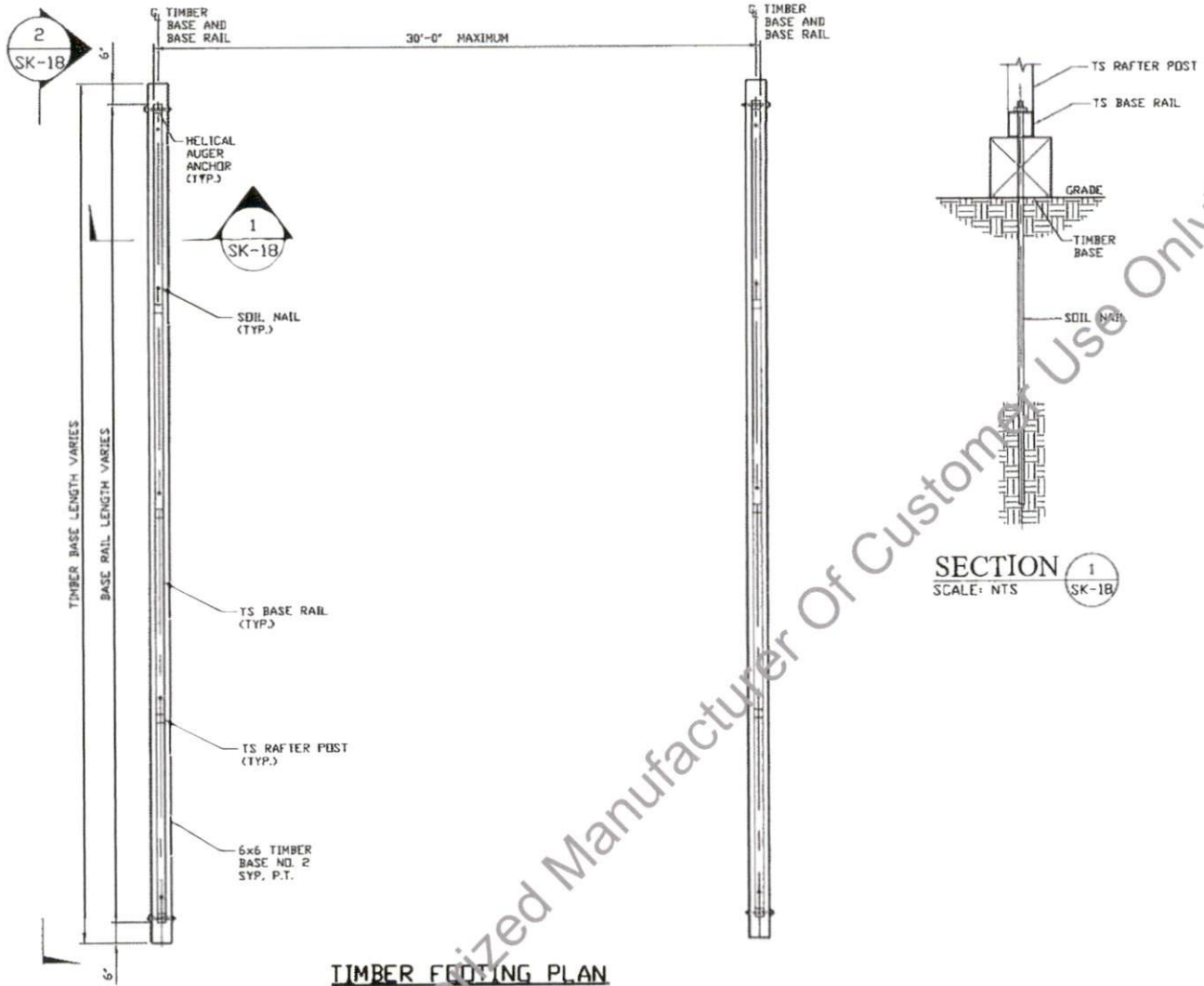
DWG. NO: SK-3

JOB NO:
171715/18253S

REV: 1

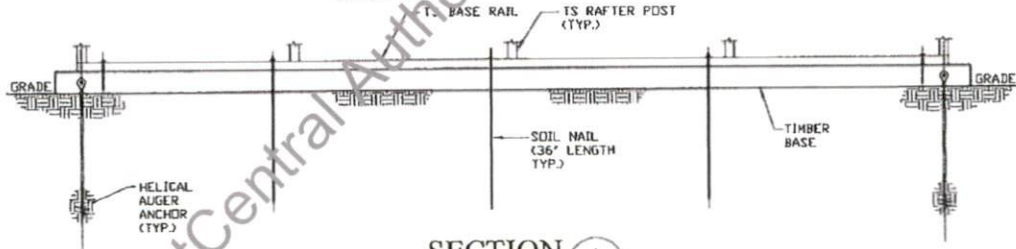
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OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 1 SK-18
SCALE: NTS

TIMBER FOOTING PLAN
SCALE: NTS



SECTION 1 SK-18
SCALE: NTS

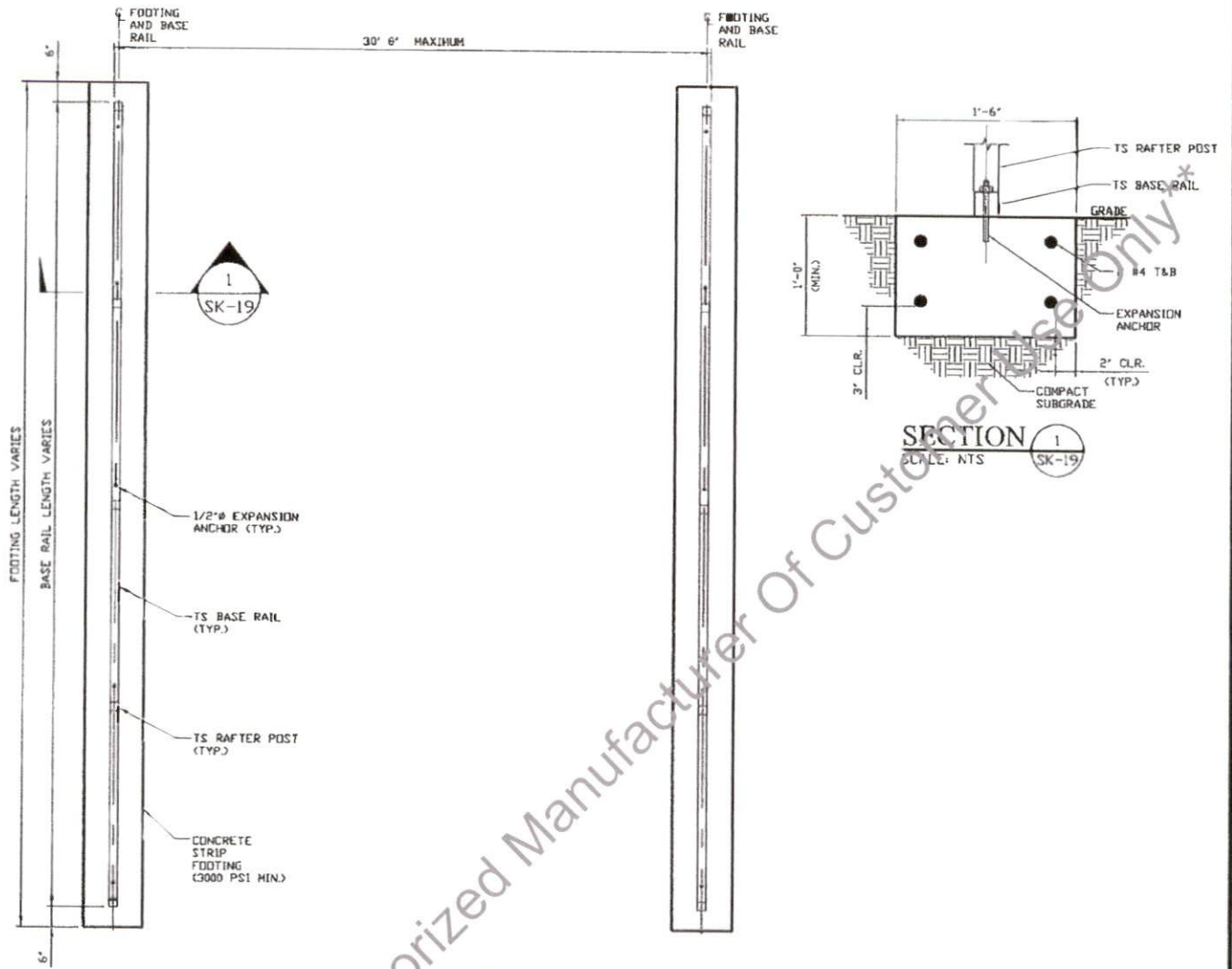
HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0"
30'-0"	15'-0"

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

DRAWN BY: LT		CARPORT CENTRAL, INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030 30'-0" x 16'-0" ENCLOSED STRUCTURE	
CHECKED BY: PDH		DATE: 10-24-18	SCALE: NTS
PROJECT MGR: WSM	DATE: 10-24-18	SCALE: NTS	JOB NO: 17171S/18253S
CLIENT: CC	SHT. 18	DWG. NO: SK-3	REV: 1

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OPTIONAL CONCRETE STRIP FOOTING

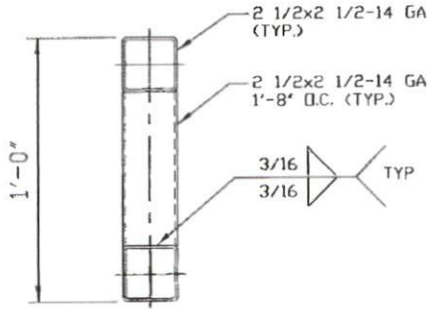


CONCRETE STRIP FOOTING PLAN
SCALE: NTS

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	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 10-24-18	SCALE: NTS
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OPTIONAL HEADER



**HEADER DETAIL FOR
OPENINGS 12'-0" < LENGTH < 20'-0"**
SCALE: NTS

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	CHECKED BY: PDH	30'-0" x 150" ENCLOSED STRUCTURE		
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	CLIENT: CC	SHT. 20	DWG. NO: SK-3	REV: 1