



**STRUCTURAL DESIGN**

**ENCLOSED BUILDING**

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

17 June 2021

Revision 3

M&A Project No. 17171S/18253S/20376S/21118S

Prepared for:

Carport Central, Inc.  
737 South Main Street  
Mt. Airy, NC 27030

Prepared by:

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MOORE AND ASSOCIATES  
ENGINEERING AND CONSULTING

		<p>I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>	

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ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPENT CENTRAL, INC.  
737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030  
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 1

SCALE: NTS










DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/21118S

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 <p>6/16/21</p>	<p><b>Professional Certification.</b> 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 6/16/22</p>		
 <p>6/16/21</p>	 <p>6/16/21</p>		
 <p>6/16/21</p>	 <p>6/16/21</p>		
 <p>6/16/21</p>	<p>WAYNE SHERIDAN MOORE No. 12395 6/16/21 REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)</p>		

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737 SOUTH MAIN STREET  
MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

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**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 ALL APPLICABLE BUILDING CODES LISTED ON SHEET 3A
- 3 DESIGN LOADS ARE AS FOLLOWS:
  - A) DEAD LOAD = 15 PSF
  - B) LIVE LOAD = 12 PSF
  - C) GROUND SNOW LOAD = 30 PSF ( $L \leq 26'-0"$ ), 35 PSF ( $26'-0" < L \leq 30'-0"$ )  
(NOTE UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
- 4 ULTIMATE WIND SPEED =  $\leq 145$  MPH (NOMINAL WIND SPEED =  $\leq 112$  MPH) UNLESS NOT OTHERWISE
- 5 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POST) ARE EQUIVALENT TO SIDE WALL COLUMNS (POST) UNLESS NOTED OTHERWISE
- 7 LOW HAZARD 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 FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR AND EDGE DISTANCE) = 8 INCHES
- 11 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. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT
- 12 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 IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS  $\leq 145$  MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AND FOR WIND SPEEDS  $> 145$  MPH AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:  
 SOIL SITE CLASS = D  
 RISK CATEGORY I  
 R = 3.25                      I<sub>r</sub> = 1.0  
 S<sub>DS</sub> = 2.039 g              V = 0.5W  
 S<sub>01</sub> = 1.258 g

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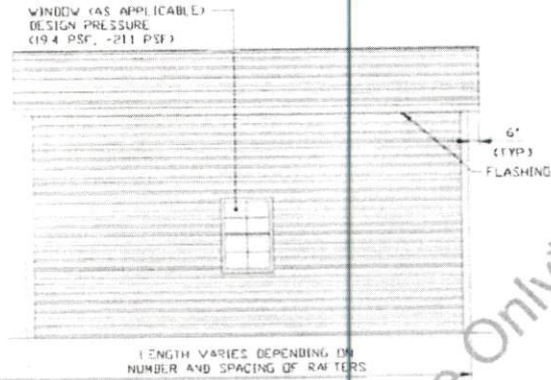
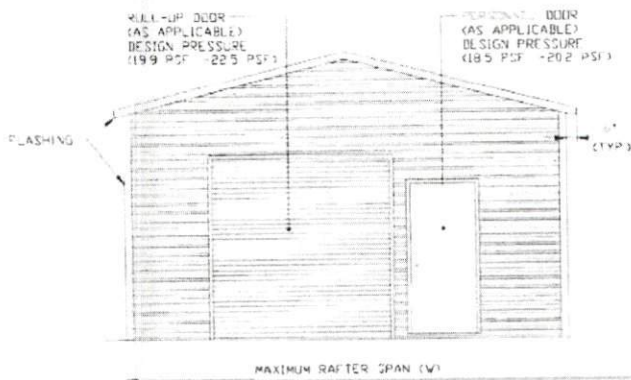
LIST OF APPLICABLE BUILDING CODES

- 2018 INTERNATIONAL BUILDING CODE (IBC 2018)
- 2015 INTERNATIONAL BUILDING CODE (IBC 2015)
- 2012 INTERNATIONAL BUILDING CODE (IBC 2012)
- 2009 INTERNATIONAL BUILDING CODE (IBC 2009)
- 2006 INTERNATIONAL BUILDING CODE (IBC 2006)
- BUILDING CODE 2015 OF ALABAMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2015 IBC PORTION OF THE 2018 CT STATE BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- COLORADO: IBC 2015, IBC 2018  
(DEPENDENT UPON LOCAL JURISDICTION)
- 2020 FLORIDA BUILDING CODE, 7TH EDITION
- GEORGIA STATE MINIMUM STANDARD BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- INDIANA BUILDING CODE, 2014 EDITION  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- BUILDING CODE 2018 OF KANSAS  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 KENTUCKY BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF LOUISIANA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- MA STATE BUILDING CODE, 9TH EDITION  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2018 OF MARYLAND  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- BUILDING CODE 2015 OF NEW MEXICO  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2020 BUILDING CODE OF NEW YORK STATE  
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
- 2018 NORTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- OHIO BUILDING CODE 2017  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF OKLAHOMA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2015 OF PENNSYLVANIA  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2019 RHODE ISLAND BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- 2018 SOUTH CAROLINA BUILDING CODE  
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
- BUILDING CODE 2012 OF TENNESSEE  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
- \* IBC 2012, IBC 2018
- \* BUILDING CODE OF THE TEXAS INDUSTRIALIZED  
HOUSING AND BUILDINGS PROGRAM  
(ADOPTS THE IBC 2012 WITH AMENDMENTS)

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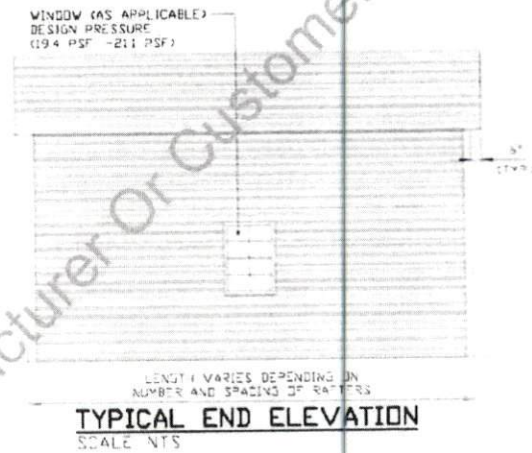
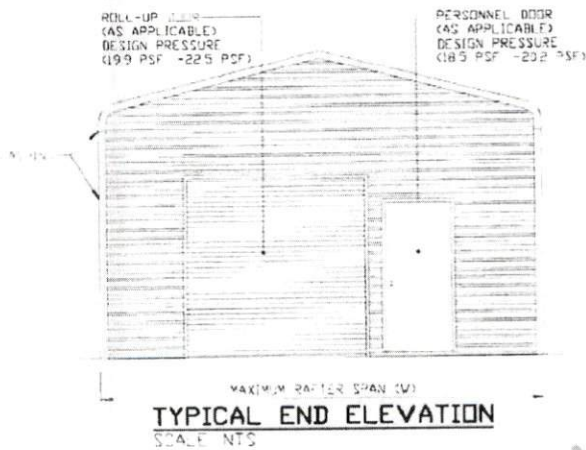
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	CLIENT: CC	SHT. 3A	DWG. NO: SK-3	REV: 3

**BOX EAVE FRAME RAFTER STRUCTURE (Sheets 5, 6, 9, 9A, 10, 12, 13, 14, 15, 18, 19, 20 AND 21)**



**TYPICAL END ELEVATION-HORIZONTAL ROOF**      **TYPICAL SIDE ELEVATION-HORIZONTAL ROOF**  
SCALE: NTS

**BOX FRAME RAFTER STRUCTURE (Sheets 7, 8, 9, 9A, 11, 12, 13, 14, 16, 18, 19, 20 AND 21)**



**TYPICAL END ELEVATION**  
SCALE: NTS

**TYPICAL END ELEVATION**  
SCALE: NTS

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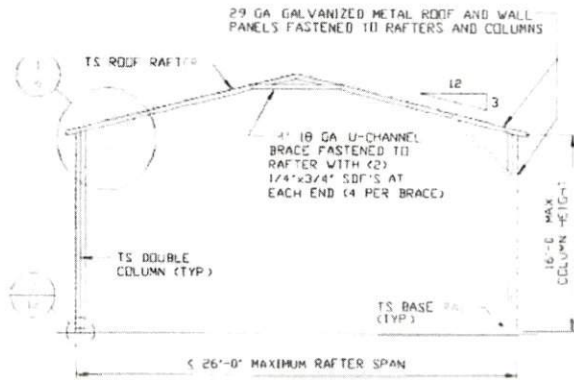
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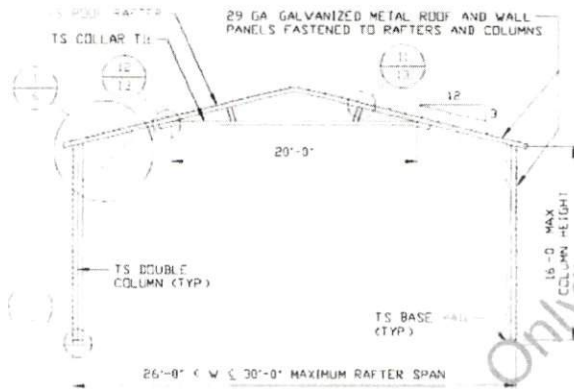
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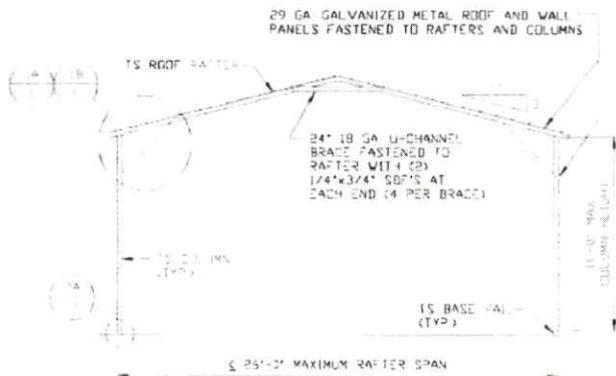
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



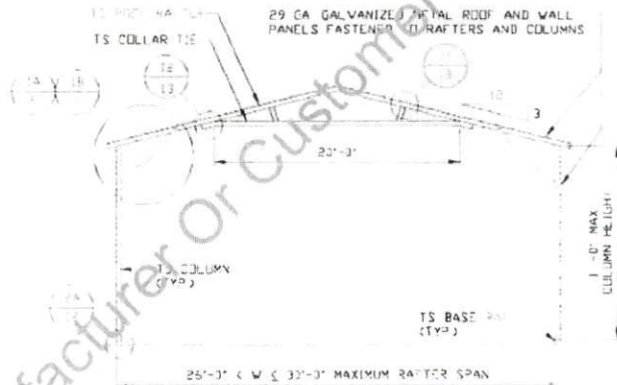
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

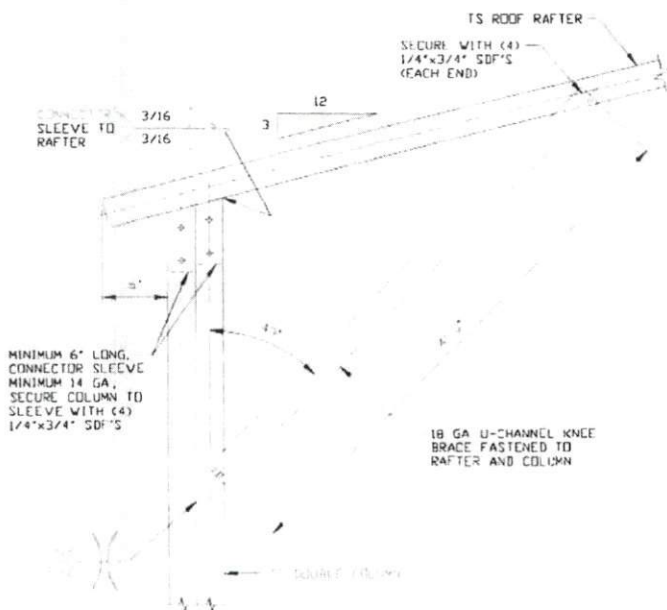


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

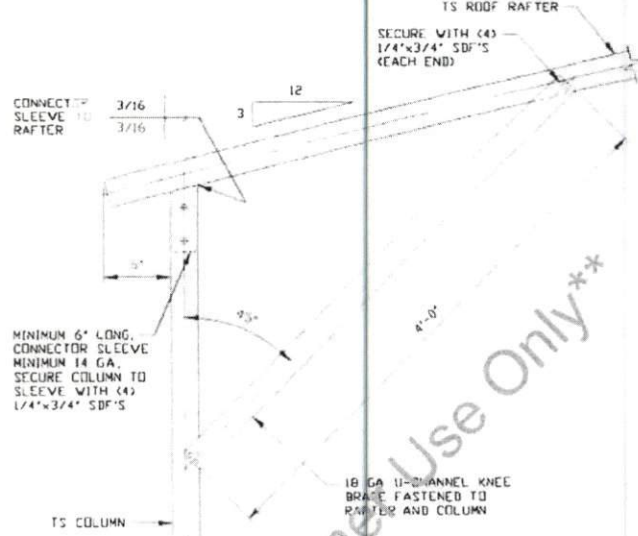
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**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"**

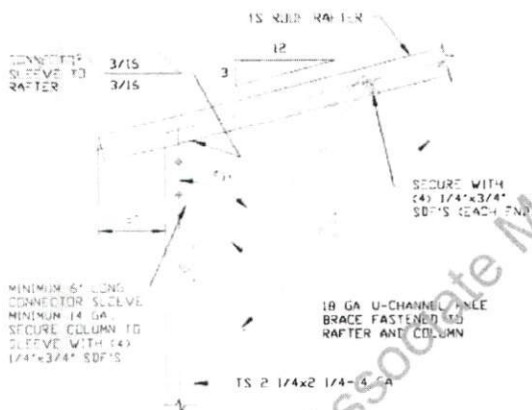
1  
SCALE: NTS



**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 11'-0"**

1A

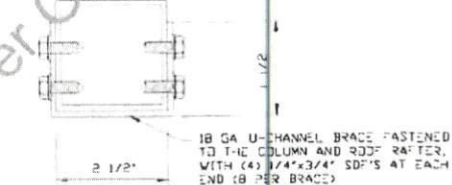
NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS <= 128 MPH



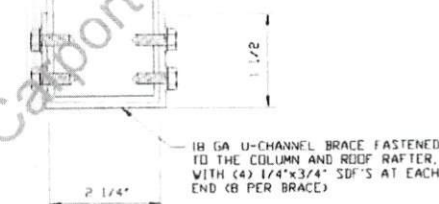
**BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"**

1B

NOTE: KNEE BRACE MUST BE 4'-0" FOR 30'-0" WIDE STRUCTURES



**BRACE SECTION**  
SCALE: NTS



**BRACE SECTION**  
SCALE: NTS

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30'-0" x 16'-0" ENCLOSED STRUCTURE

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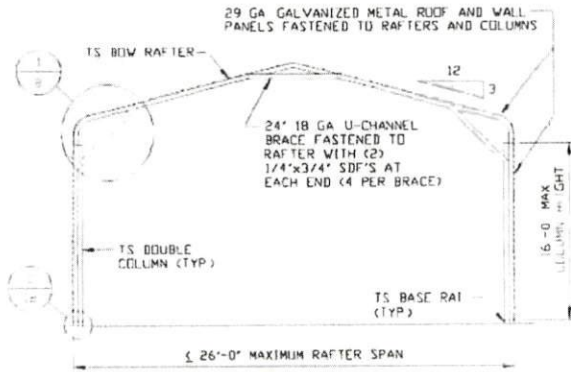
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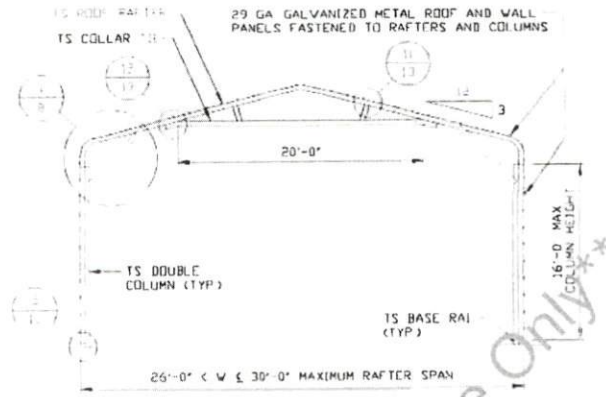
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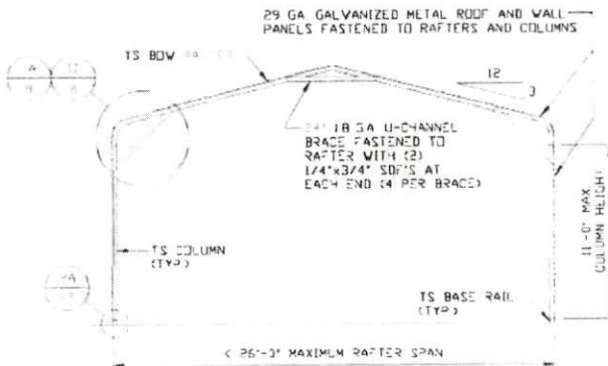
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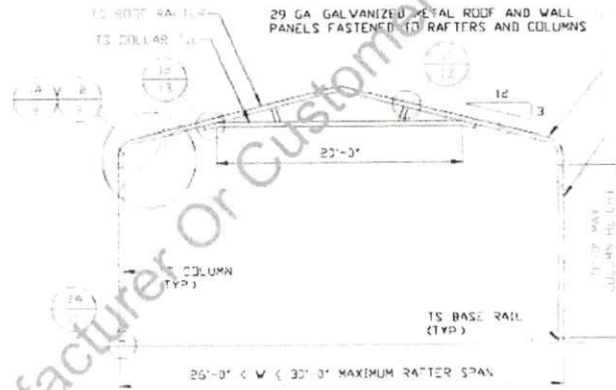
**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
SCALE: NTS



**TYPICAL RAFTER/COLUMN END FRAME SECTION**  
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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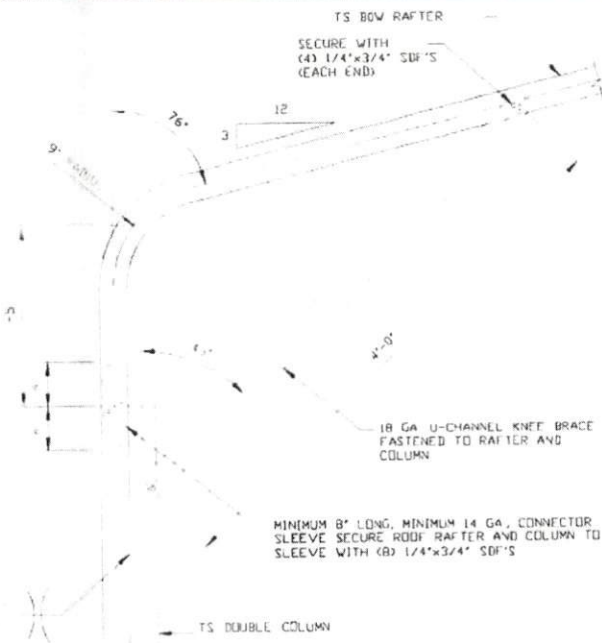
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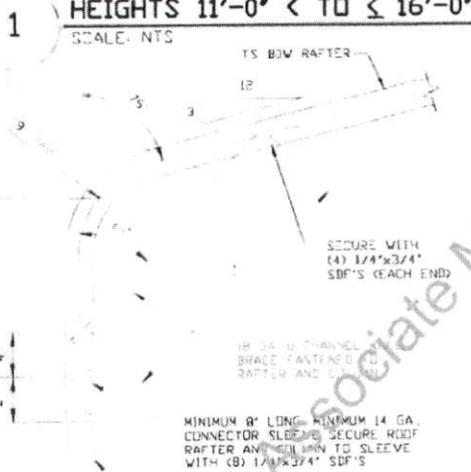
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**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 16'-0"**

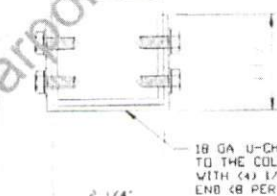
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**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 9'-0"**

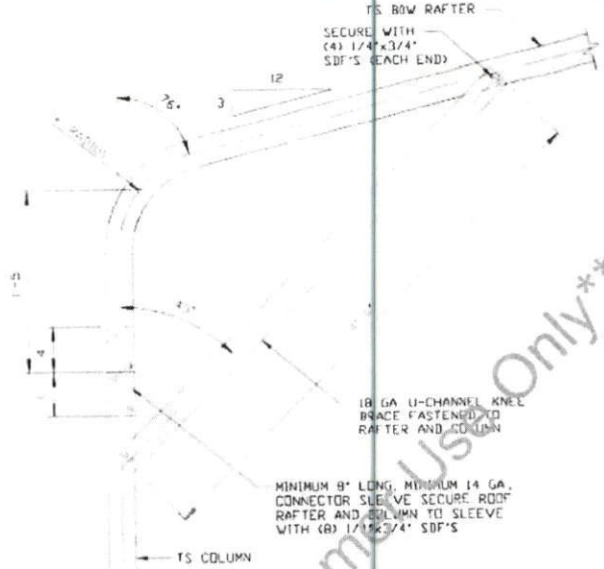
SCALE: NTS

NOTE: KNEE BRACE MUST BE 4'-0" FOR 30'-0" WIDE STRUCTURES



**BRACE SECTION**

SCALE: NTS



**BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO <= 11'-0"**

SCALE: NTS

NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS <= 128 MPH

1A

**BRACE SECTION**  
SCALE: NTS

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SCALE: NTS

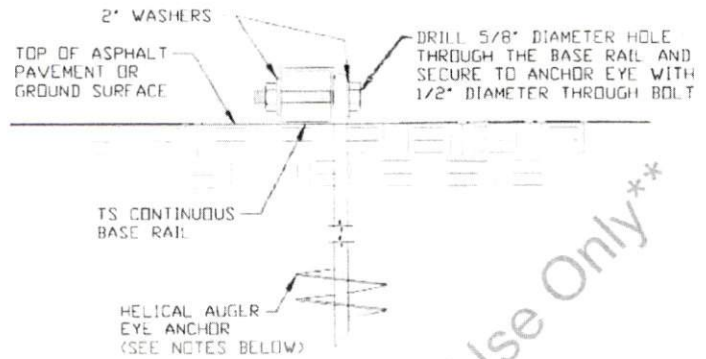
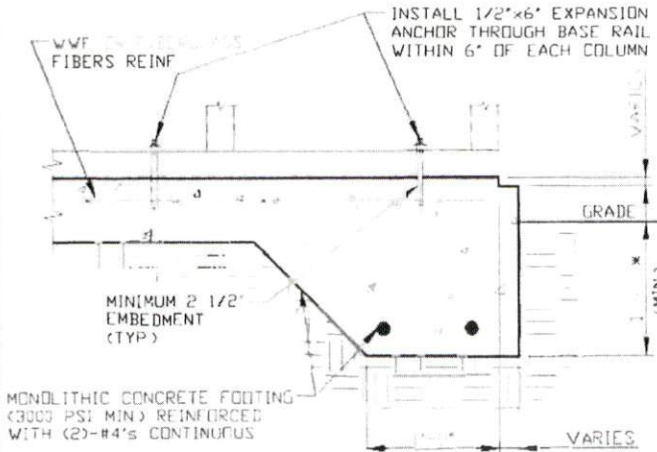
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**BASE RAIL ANCHORAGE OPTIONS**



3A

**CONCRETE MONOLITHIC SLAB  
BASE RAIL ANCHORAGE**

SCALE: NTS  
MINIMUM ANCHOR EDGE DISTANCE IS 4"  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
REGARDING MINIMUM FROST DEPTH (LENGTH)

3B

**HELICAL AUGER ANCHORAGE**

SCALE: NTS (CAN BE USED FOR ASPHALT)  
\* COORDINATE WITH LOCAL BUILDING CODE/ORD  
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

**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

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

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

DATE: 6-17-21

SHT. 9

SCALE: NTS

DWG. NO: SK-3

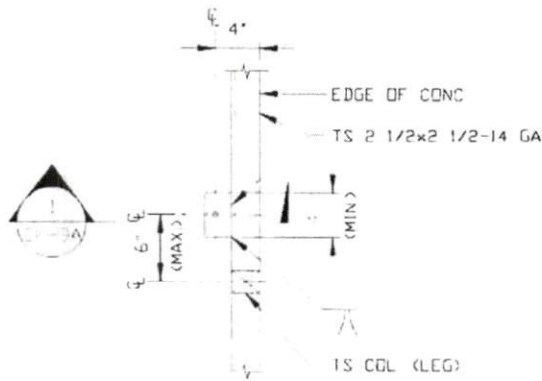
JOB NO: 17171S/18253S/  
20376S/21118S

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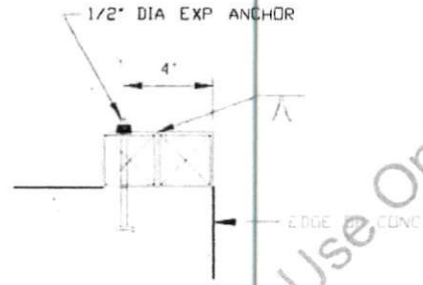


**BASE RAIL ANCHORAGE OPTION**



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

SCALE: NTS



**SECTION**

SCALE: NTS

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SCALE: NTS

JOB NO: 17171S/18253S/  
20376S/21118S

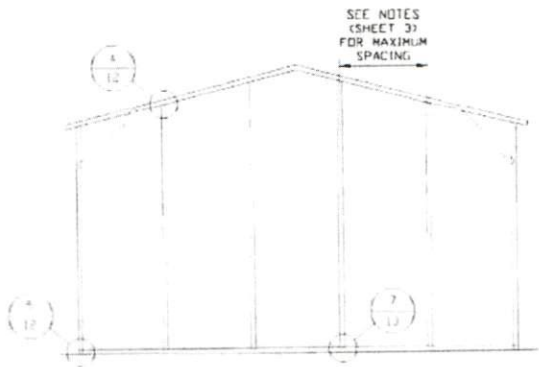
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DWG. NO: SK-3

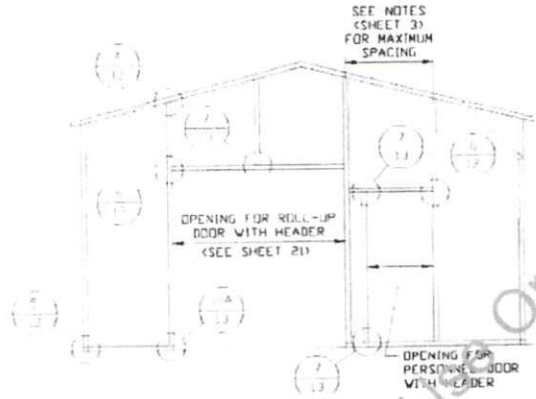
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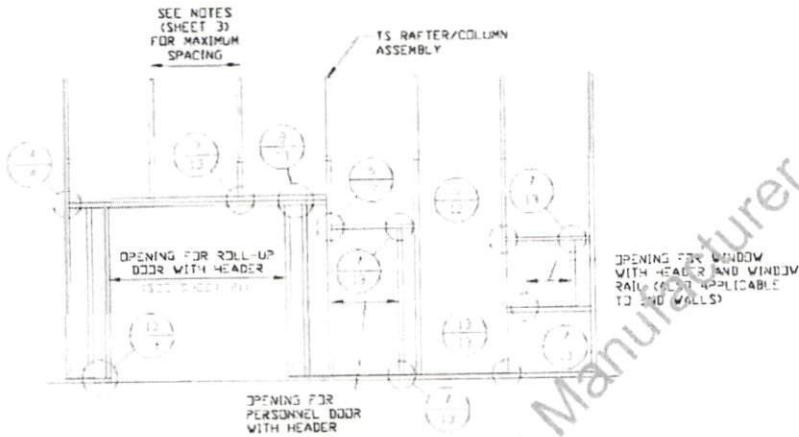
**BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



**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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DATE: 6-17-21

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SCALE: NTS

DWG. NO: SK-3

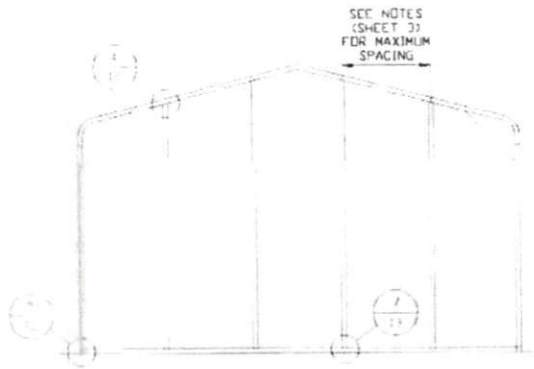
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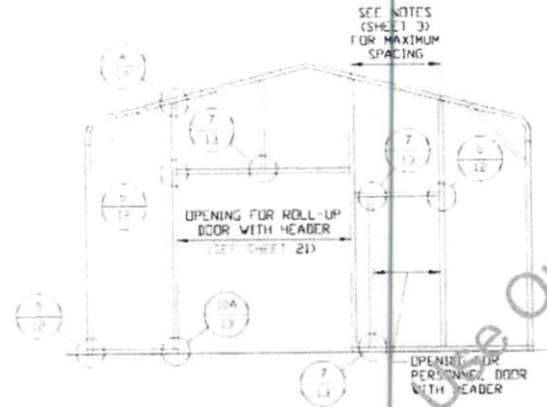


**BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS**



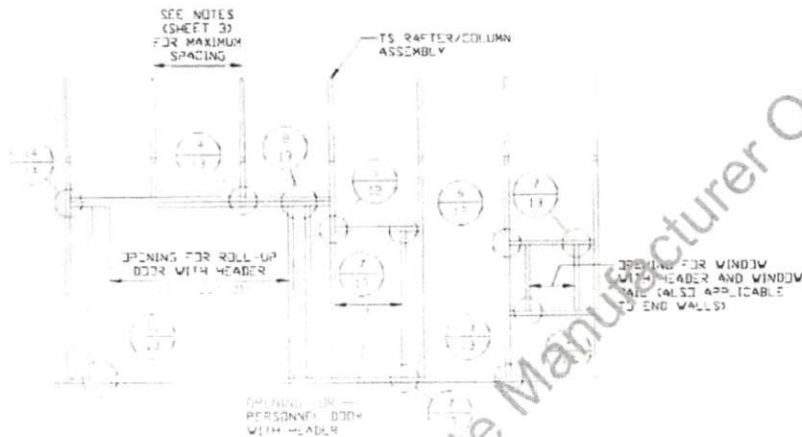
**TYPICAL BOW RAFTER  
END WALL FRAMING SECTION**

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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DATE: 6-17-21

SHT. 11

SCALE: NTS

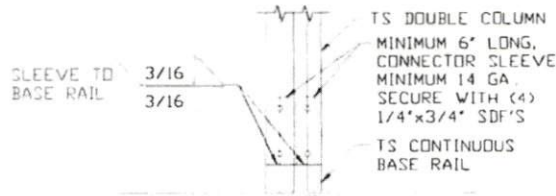
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JOB NO: 17171S/18253S/  
20376S/21118S

REV: 3

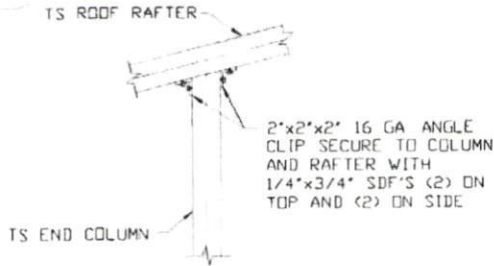
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**CONNECTION DETAILS**



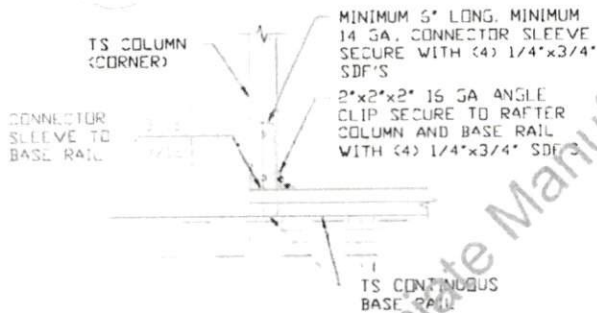
**2** RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



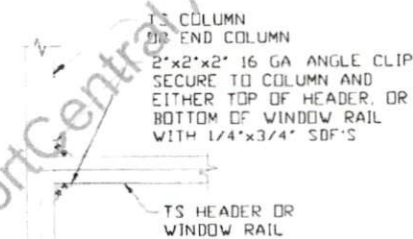
**4** END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



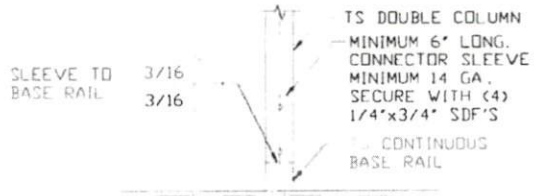
**5A** END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



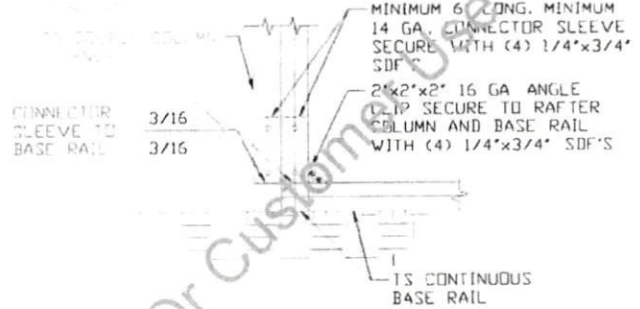
**6** COLUMN OR WINDOW RAIL TO POST/TS GIRT CONNECTION DETAIL

SCALE: NTS



**2A** RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



**5** END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 12

SCALE: NTS

DWG. NO: SK-3

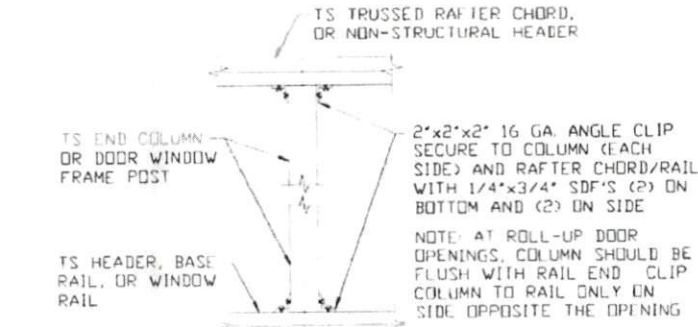
JOB NO: 17171S/18253S/  
20376S/21116S

REV: 3

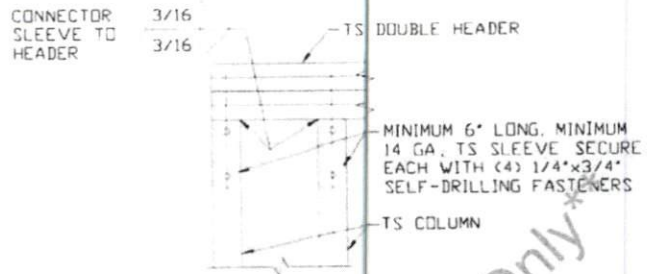
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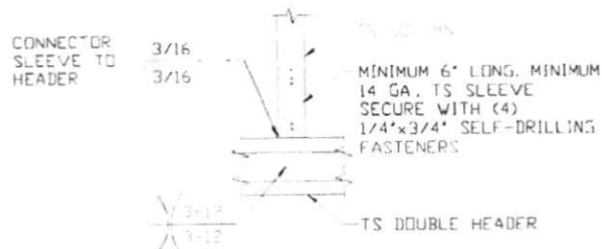
**CONNECTION DETAILS**



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



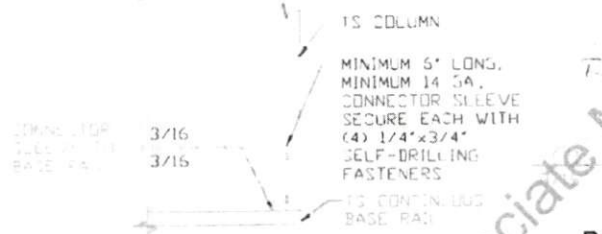
**8** DOUBLE HEADER/COLUMN CONNECTION DETAIL  
SCALE: NTS



**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

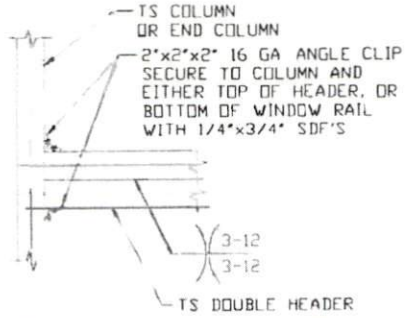


**13** COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL  
SCALE: NTS

**12** COLLAR TIE CONNECTION DETAIL  
SCALE: NTS

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	<p>CHECKED BY: PDH</p>	<p>JOB NO: 17171S/18253S/ 20376S/21118S</p>		
	<p>PROJECT MGR: WSM</p>	<p>DATE: 6-17-21</p>	<p>SCALE: NTS</p>	<p>REV: 3</p>
	<p>CLIENT: CC</p>	<p>SHT. 13</p>	<p>DWG. NO: SK-3</p>	

**CONNECTION DETAILS**



**COLUMN/DOUBLE HEADER CONNECTION DETAIL**

SCALE: NTS

14

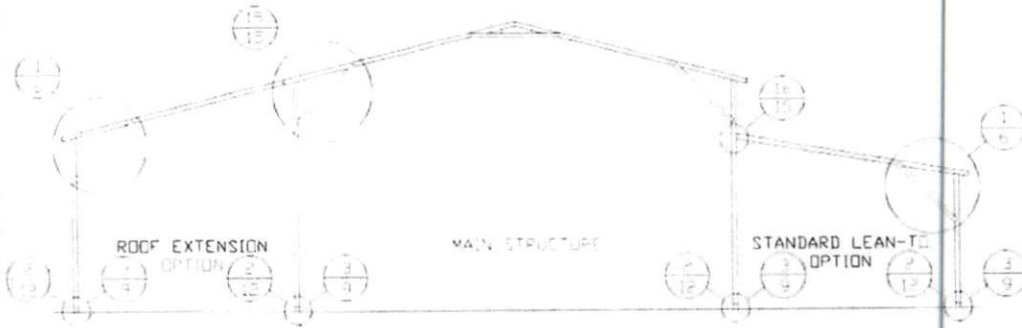
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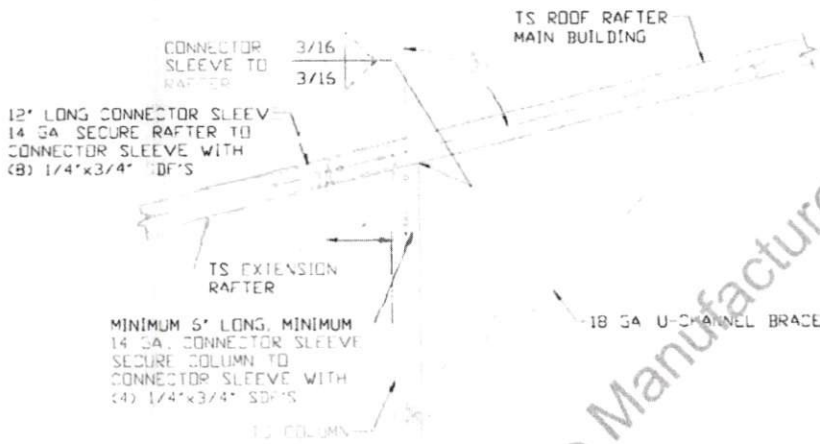


**BOX EAVE RAFTER LEAN-TO OPTIONS**



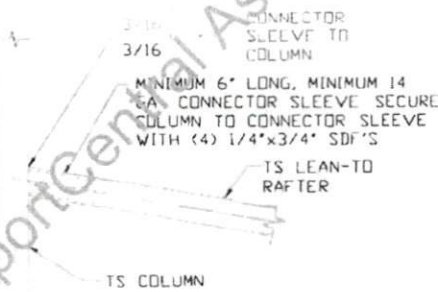
**TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)**

SCALE: NTS  
 (MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION LEAN-TO IS 12'-0")  
 NOTE FOR 12'-0" WIDE LEAN-TO KNEE BRACE MUST BE 4'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 9'-0" < TO ≤ 16'-0"  
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 9'-0"



**15 SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS ≤ 12'-0"**

SCALE: NTS



**16 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 12'-0"**

SCALE: NTS

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MOUNT AIRY, NC 27030

30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 15

SCALE: NTS

DWG. NO: SK-3

JOB NO: 17171S/18253S/  
20376S/21118S

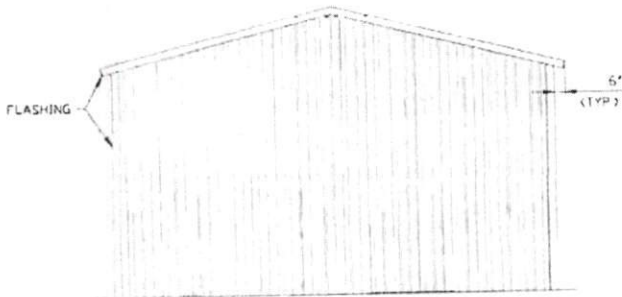
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**BOX EAVE RAFTER VERTICAL ROOF OPTION**



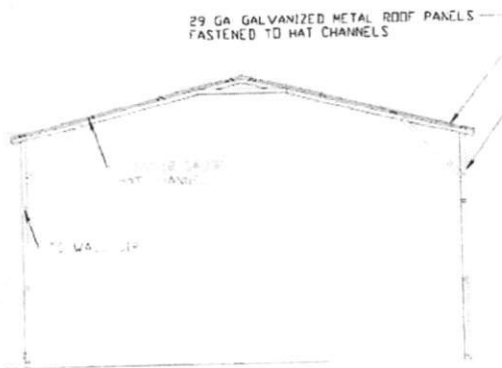
**TYPICAL END ELEVATION  
VERTICAL ROOF**

SCALE: NTS



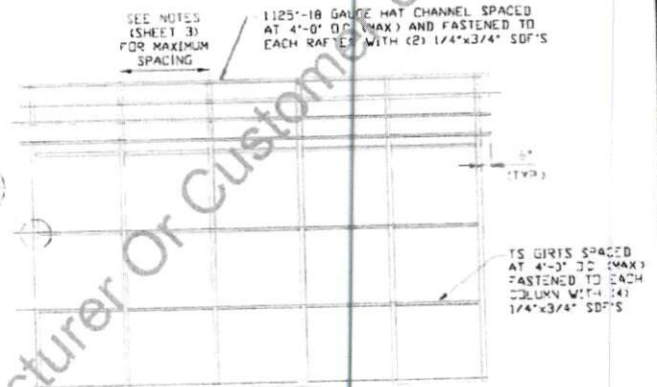
**TYPICAL SIDE ELEVATION  
VERTICAL ROOF**

SCALE: NTS



**TYPICAL SECTION  
VERTICAL ROOF OPTION**

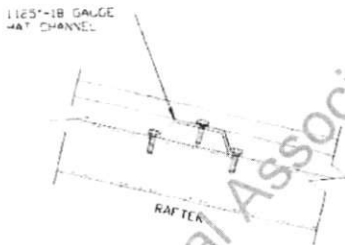
SCALE: NTS



**TYPICAL FRAMING SECTION  
VERTICAL ROOF OPTION**

SCALE: NTS

NOTE: HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS GIRTS. HAT CHANNELS MUST BE SPACED AT 4'-0" O.C. (MAX).



**ROOF PANEL ATTACHMENT**

(ALTERNATE FOR VERTICAL ROOF PANELS)

SCALE: NTS

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DATE: 6-17-21

SHT. 17

SCALE: NTS

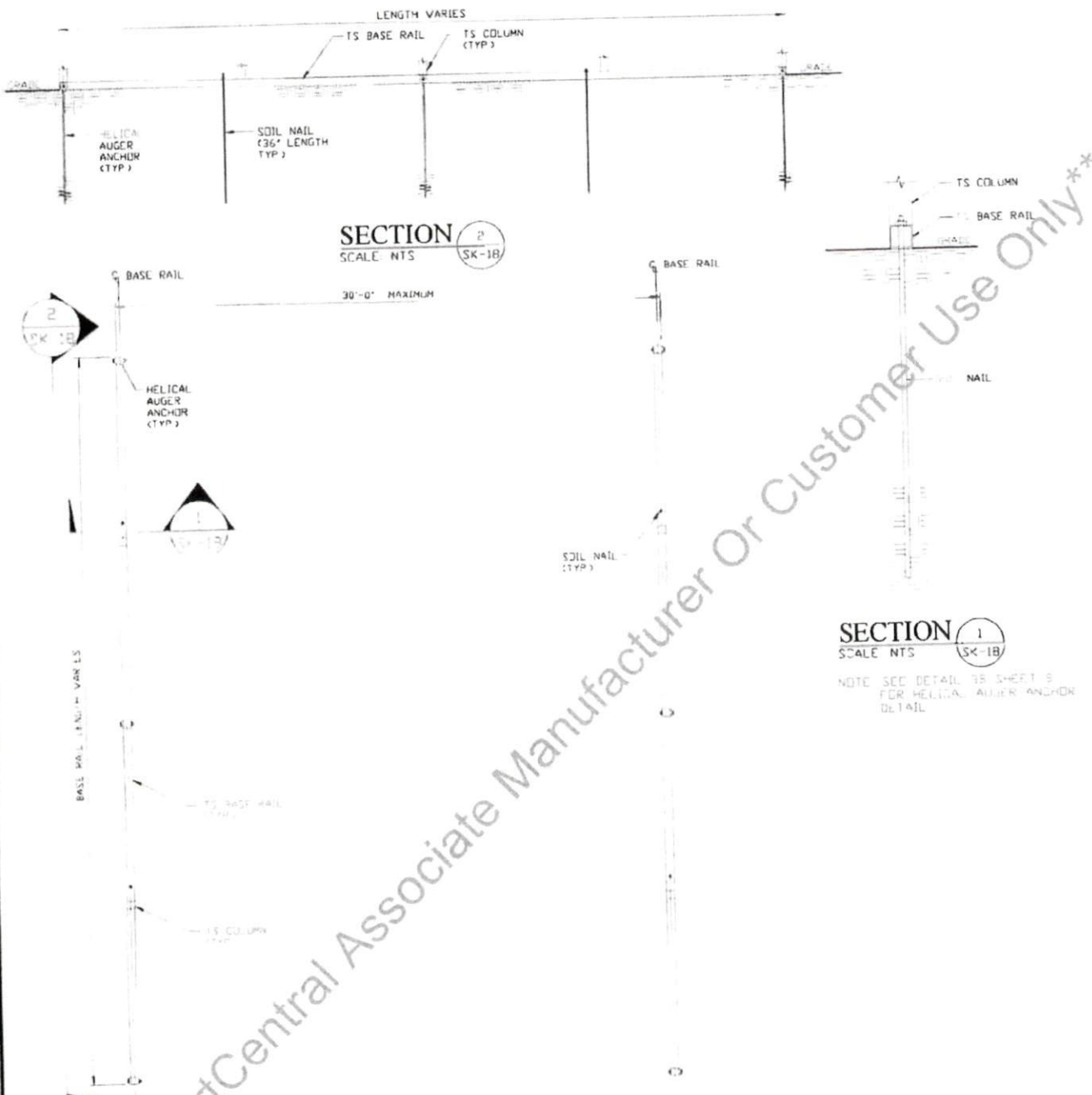
DWG. NO. SK-3

JOB NO: 17171S/18253S/  
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**OPTIONAL BASE RAIL ON GRADE APPLICATION**



**BASE RAIL PLAN**  
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	10'-0" (AT EVERY OTHER COLUMN)

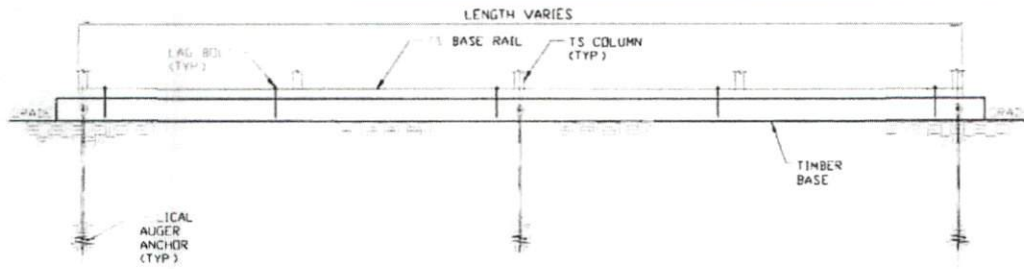
**SECTION 1**  
SCALE: NTS  
SK-1B

NOTE: SEE DETAIL 15 SHEET 5 FOR HELICAL AUGER ANCHOR DETAIL

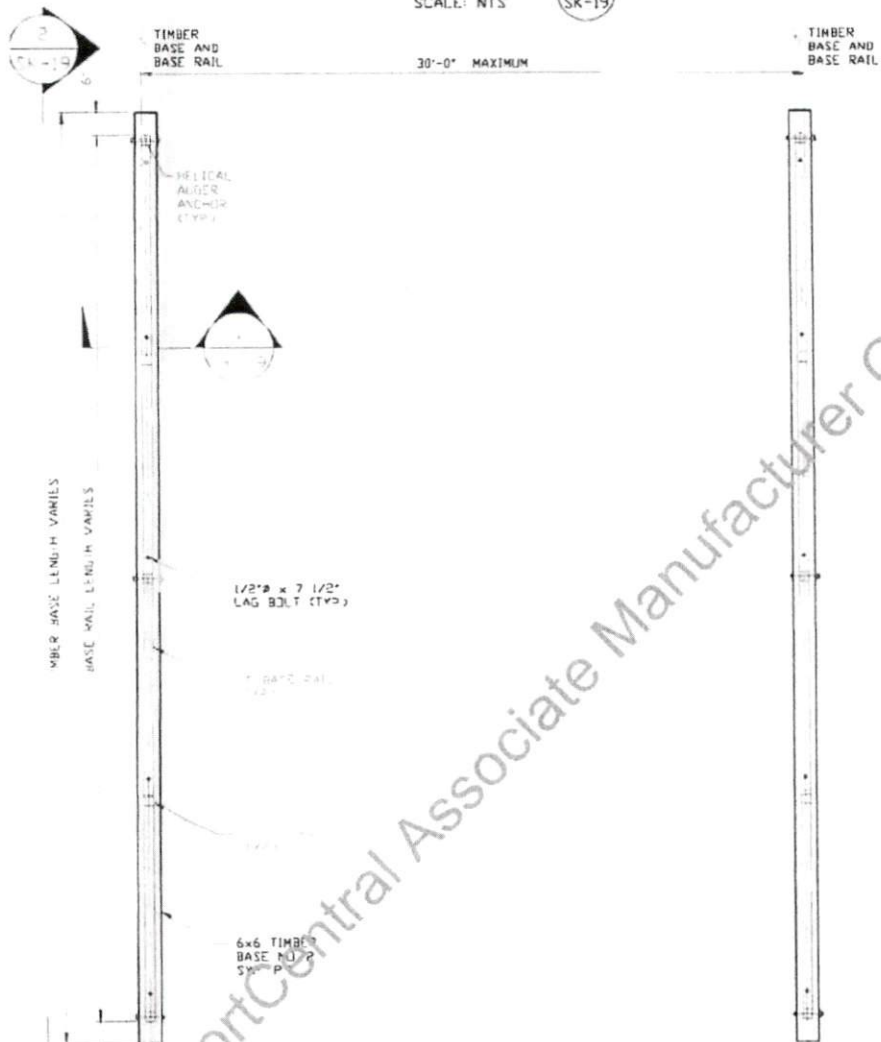
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	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 6-17-21	SCALE: NTS
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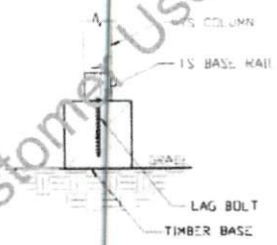
### OPTIONAL BASE RAIL ON TIMBER BEAM



SECTION E  
SCALE: NTS  
SK-19



BASE RAIL PLAN  
SCALE: NTS



SECTION I  
SCALE: NTS  
SK-19

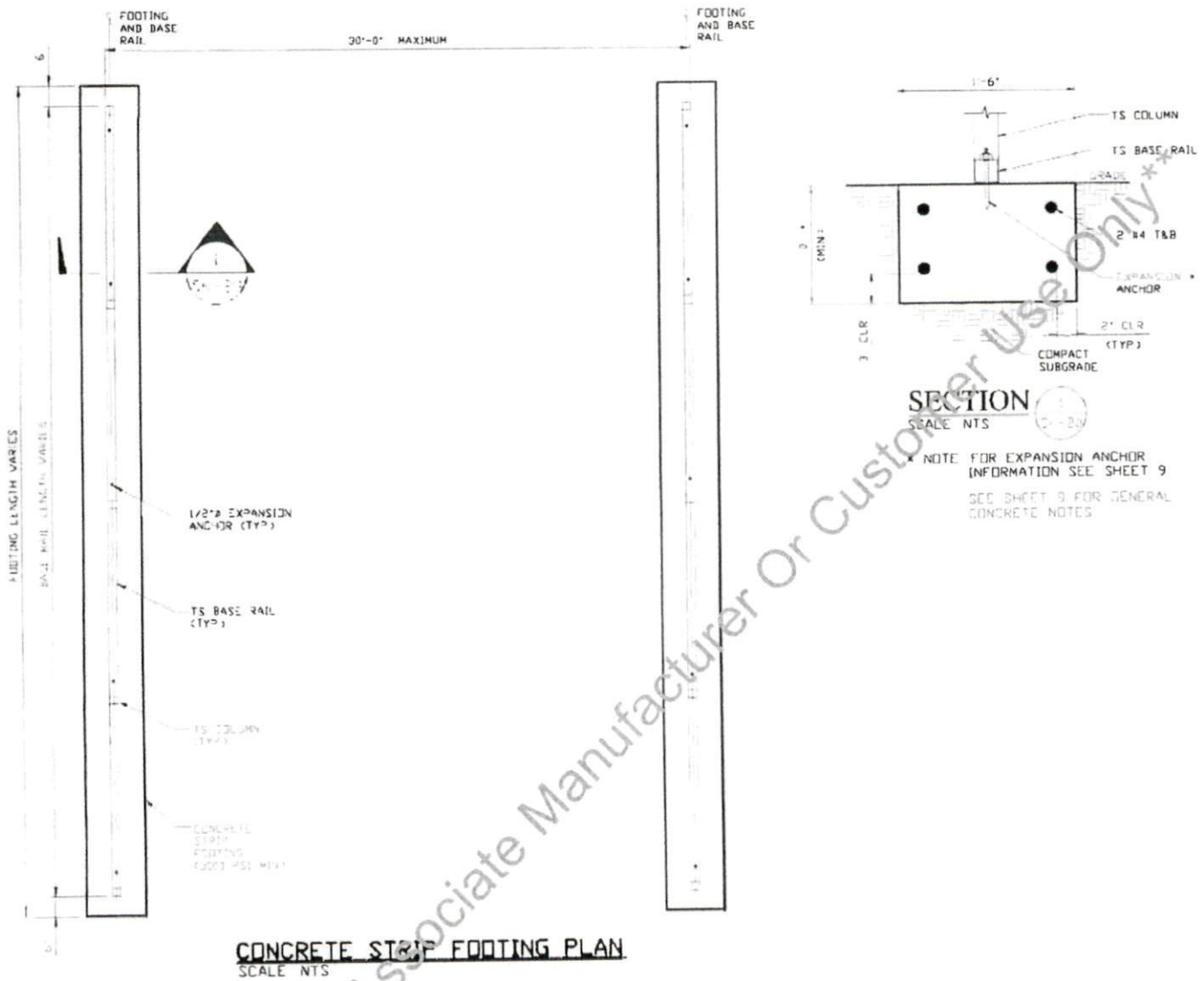
NOTE: SEE DETAIL 3B SHEET 9 FOR HELICAL AUGER ANCHOR DETAIL

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** HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	10'-0" (AT EVERY OTHER COLUMN)

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	CLIENT: CC	SHT. 19	DWG. NO: SK-3	REV: 3

**OPTIONAL CONCRETE STRIP FOOTING**



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30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 6-17-21

SHT. 20

SCALE: NTS

DWG. NO: SK-3

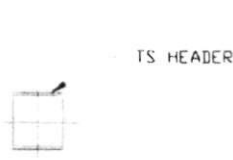
JOB NO: 17171S/18253S/  
20376S/21118S

REV: 3

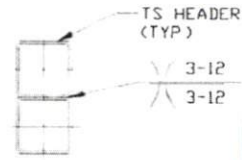
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**SIDE WALL HEADER OPTIONS**



HEADER DETAIL FOR OPENINGS  
≤ 7'-0"  
SCALE: NTS



HEADER DETAIL FOR OPENINGS  
7'-0" < LENGTH ≤ 12'-0"  
SCALE: NTS

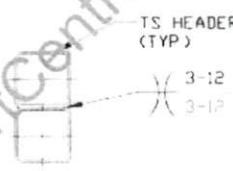


HEADER DETAIL FOR  
OPENINGS 12'-0" < LENGTH ≤ 20'-0"  
SCALE: NTS

**END WALL HEADER OPTIONS**



HEADER DETAIL FOR OPENINGS  
≤ 12'-0"  
SCALE: NTS



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

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SCALE: NTS

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