



Carolina Carports, Inc.

Carports · Buildings · Garages

STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT- BOX EAVE
FRAME AND BOW FRAME**

15 January 2018

Revision 7

M&A Project No. 15156S, 16135S & 17324S

Prepared for:

Carolina Carports, Inc.
187 Cardinal Ridge Trail
Dobson, NC 27017

Prepared by:

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

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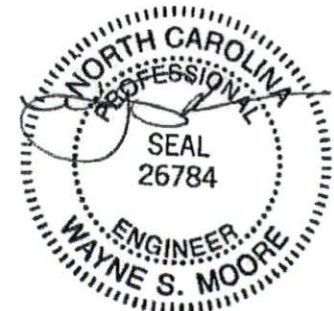
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MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING

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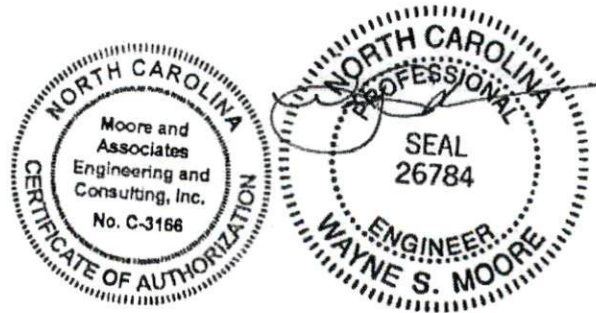


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| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
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| | CLIENT: CAROLINA CARPORTS | SHT. 2 | DWG. NO: SK-3 | REV: 7 |

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 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 (< 24'), 35 PSF (24' < W < 30'), 35 PSF @ 4'-0" OC SPACING (< 24')
(MAXIMUM 45 PSF FOR EXPOSURE B AND 55 PSF FOR EXPOSURE C AT 4'-0" OC SPACING)
- 4 LOW ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET
- 5 HIGH ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET
- 6 RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B OR C
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAGE 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" OC (MAX) 6" OC (MAX) FOR HIGH WIND APPLICATIONS
- 10 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 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 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED NOT ALLOWED FOR HIGH WIND APPLICATION
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE
 SOIL SITE CLASS = I
 RISK CATEGORY I/II/III
 R = 325 I_e = 1C
 S_{ES} = 1522 V = C_gW
 S_{E1} = C639

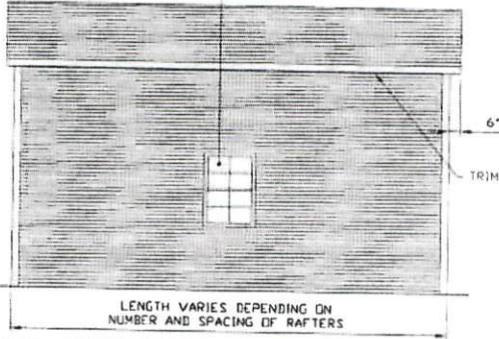


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BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 4A, 4B, 4C, 4D, 4E, 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 8, 9, 11, 12, 13, AND 15)

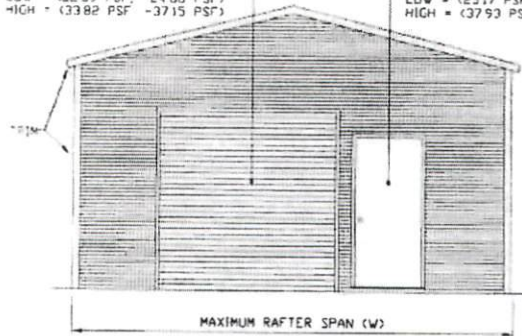
WINDOW (AS APPLICABLE)
DESIGN PRESSURE
LOW = (26.38 PSF -35.21 PSF)
HIGH = (39.75 PSF -49.55 PSF)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

ROLL-UP DOOR
(AS APPLICABLE)
DESIGN PRESSURE
LOW = (22.39 PSF -24.68 PSF)
HIGH = (33.82 PSF -37.15 PSF)

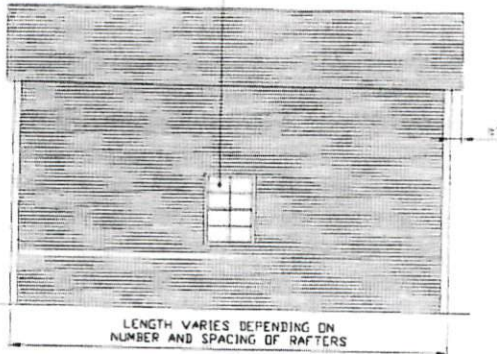
SWINGING DOOR
(AS APPLICABLE)
DESIGN PRESSURE
LOW = (25.17 PSF -27.35 PSF)
HIGH = (37.93 PSF -41.32 PSF)



TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

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

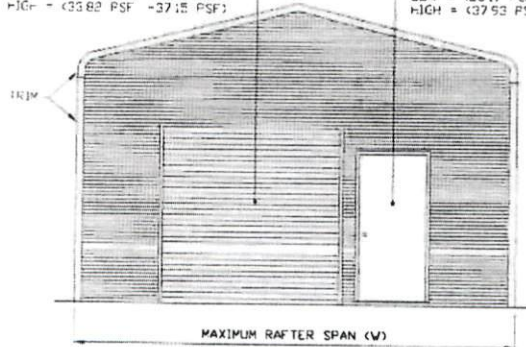
WINDOW (AS APPLICABLE)
DESIGN PRESSURE
LOW = (26.38 PSF -35.21 PSF)
HIGH = (39.75 PSF -49.55 PSF)



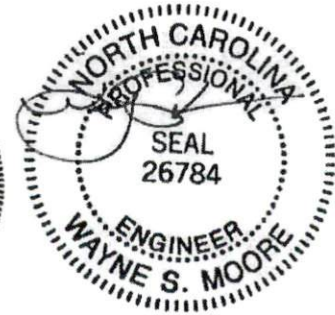
TYPICAL SIDE ELEVATION
SCALE: NTS

ROLL-UP DOOR
(AS APPLICABLE)
DESIGN PRESSURE
LOW = (22.39 PSF -24.68 PSF)
HIGH = (33.82 PSF -37.15 PSF)

SWINGING DOOR
(AS APPLICABLE)
DESIGN PRESSURE
LOW = (25.17 PSF -27.35 PSF)
HIGH = (37.93 PSF -41.32 PSF)



TYPICAL END ELEVATION
SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CAROLINA
CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 3B

SCALE: NTS

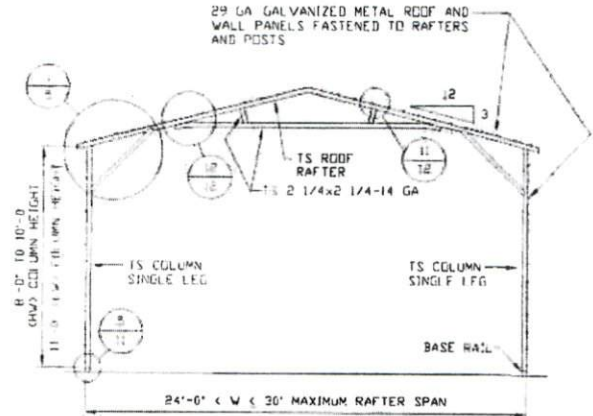
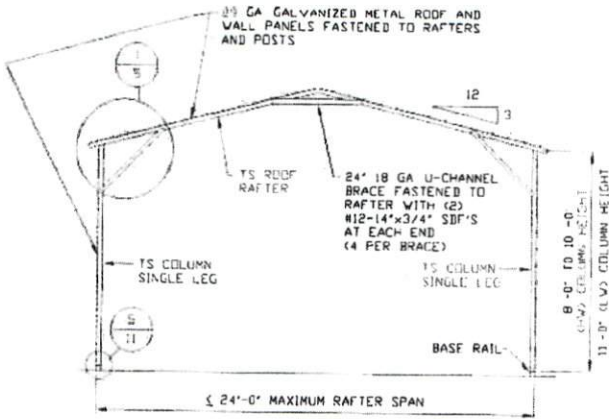
DWG. NO: SK-3

JOB NO: 15156S 1613SS
17324S

REV: 7

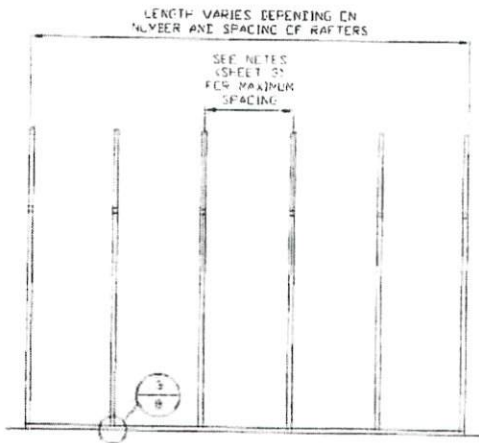
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EXPOSURE B



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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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 4

SCALE: NTS

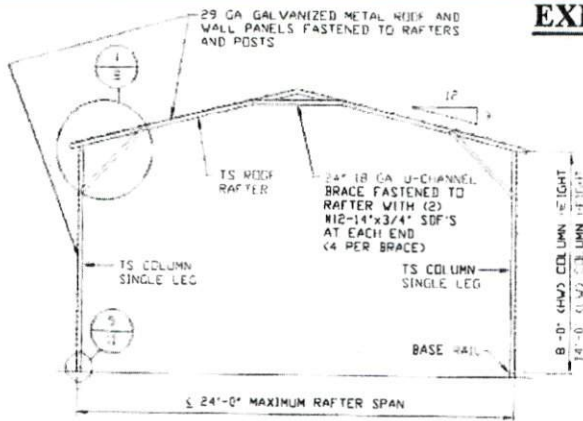
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JOB NO: 15156S 1613SS
17324S

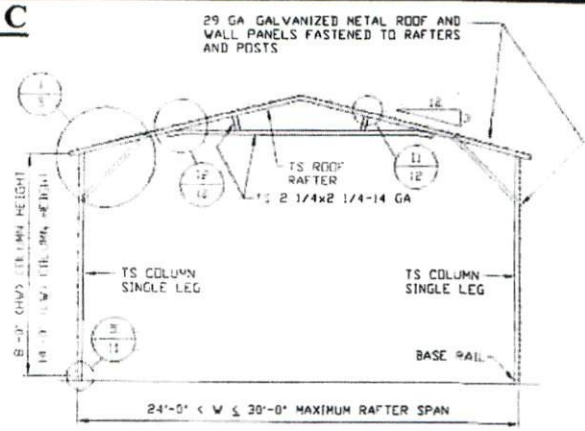
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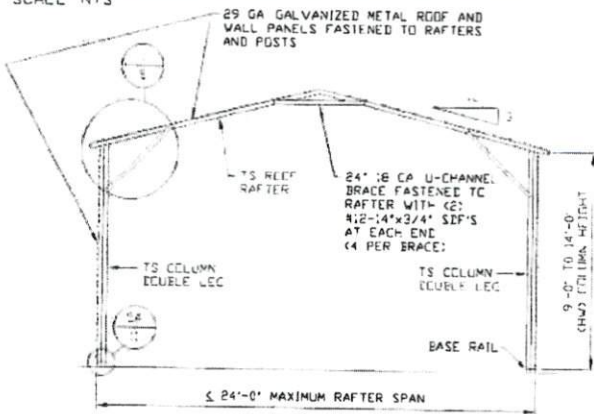
EXPOSURE C



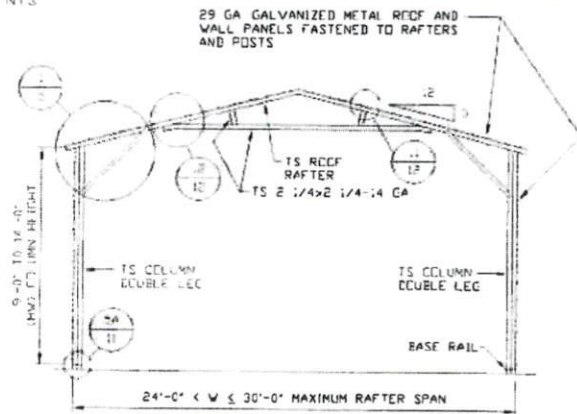
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



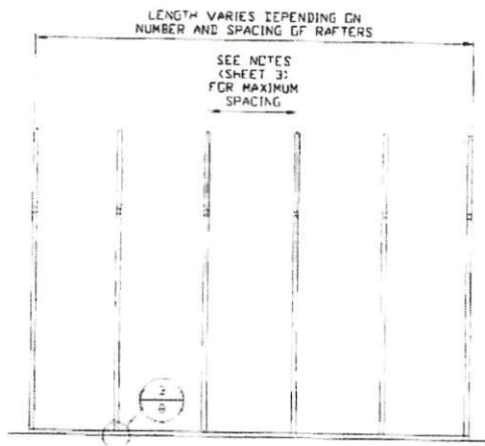
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



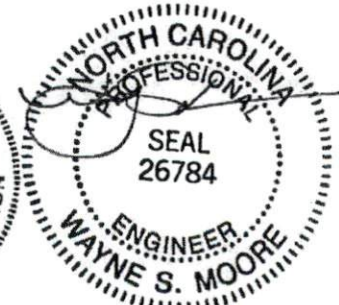
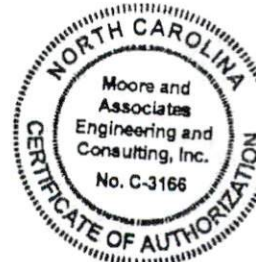
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



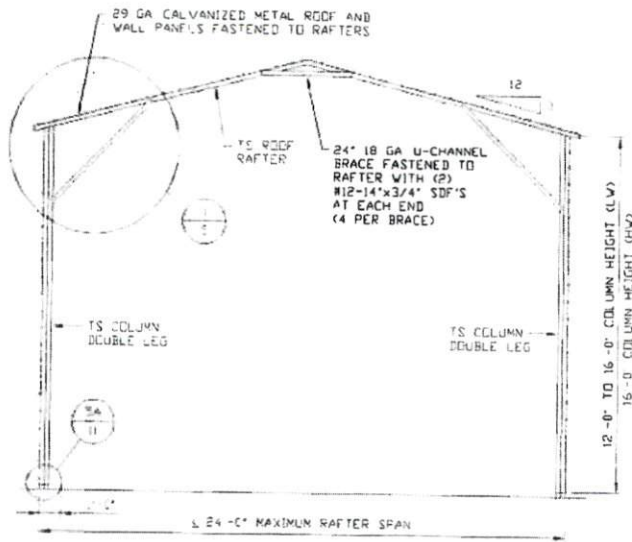
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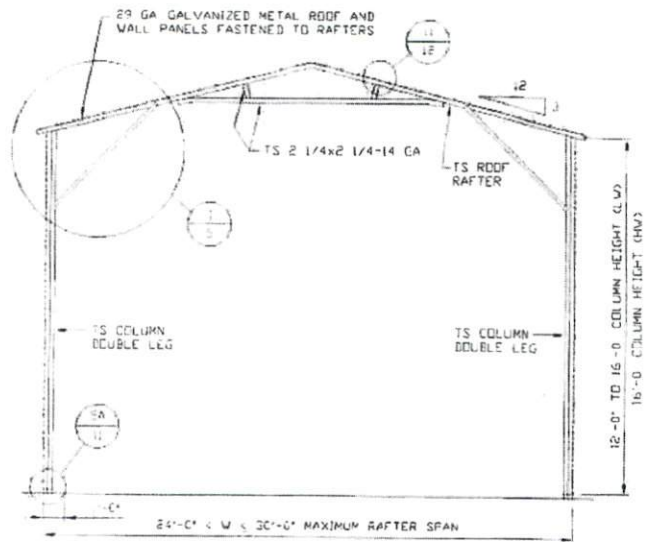
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| CLIENT: CAROLINA CARPORTS | SHT. 4A | DWG. NO: SK-3 | JOB NO: 15156S 1613SS 17324S |
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EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



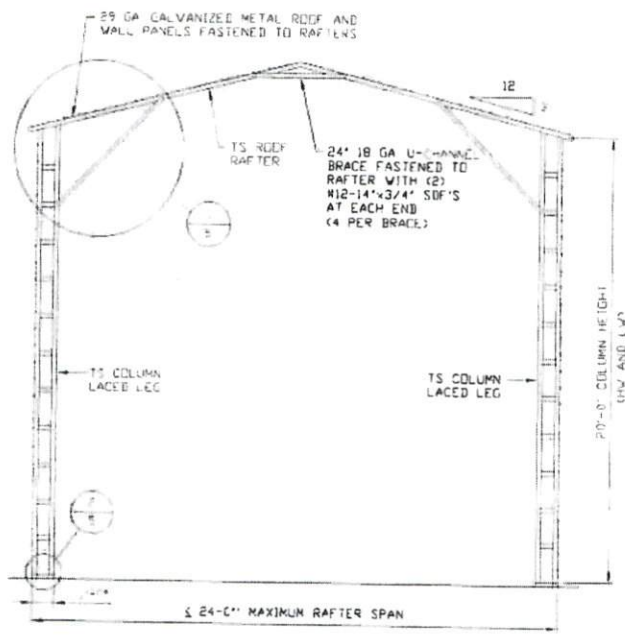
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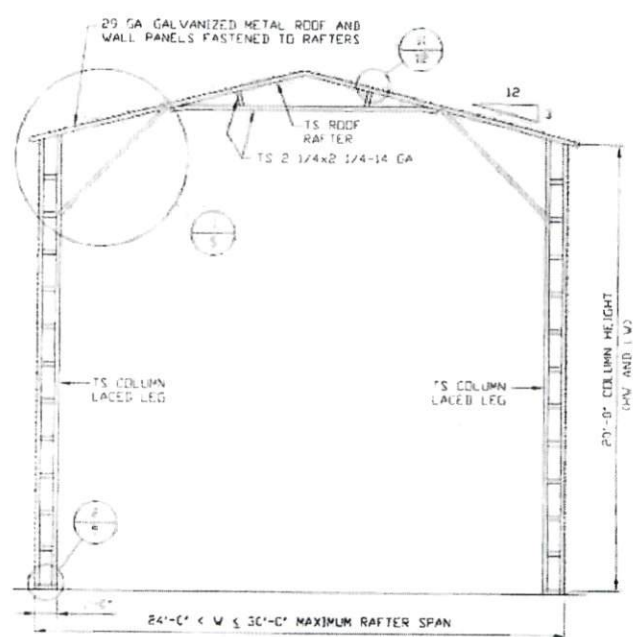
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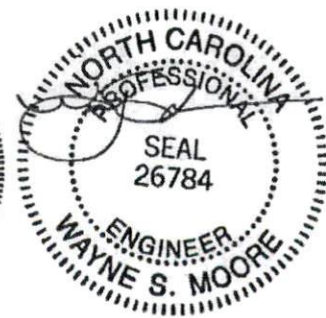
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



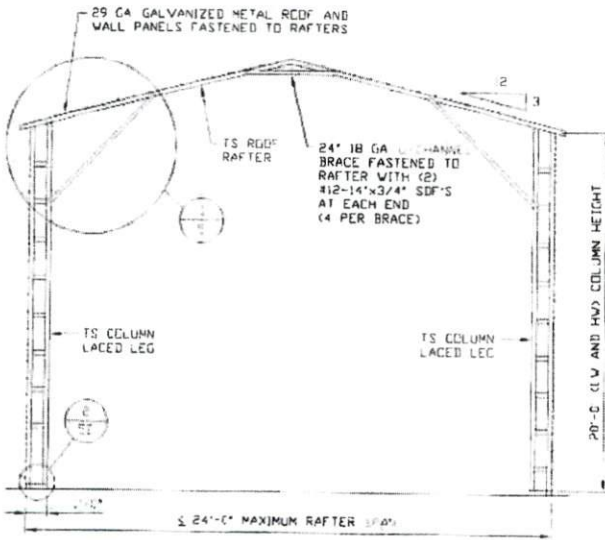
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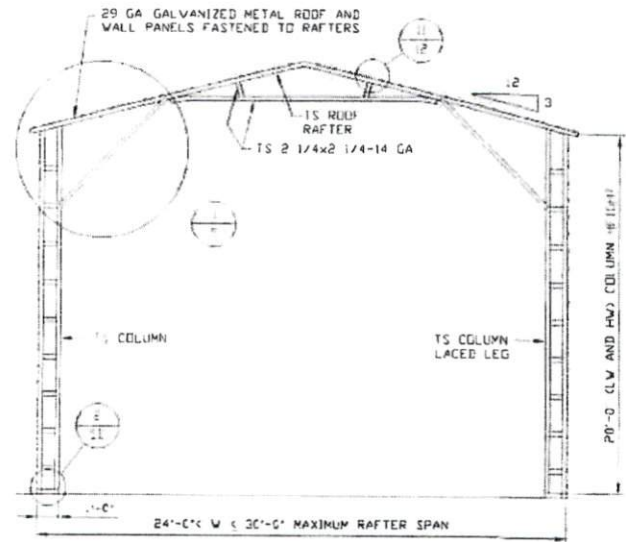
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EXPOSURE C



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



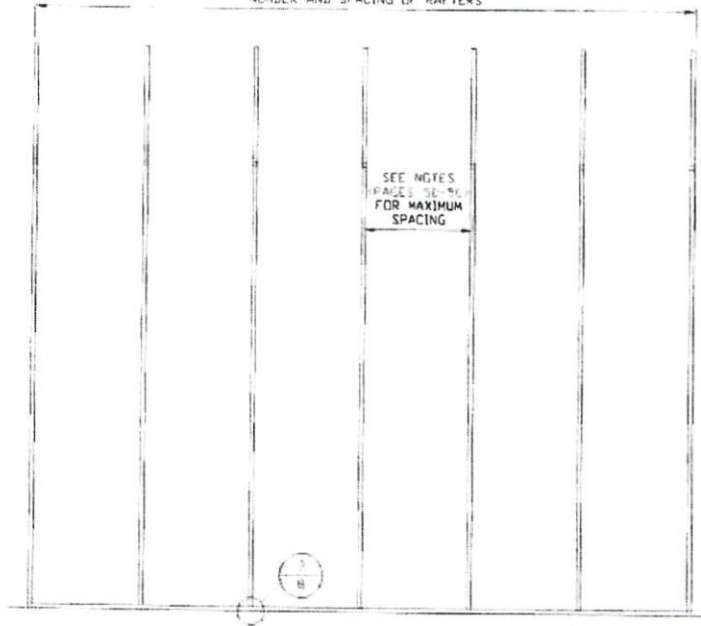
TYPICAL RAFTER/COLUMN END FRAME SECTION
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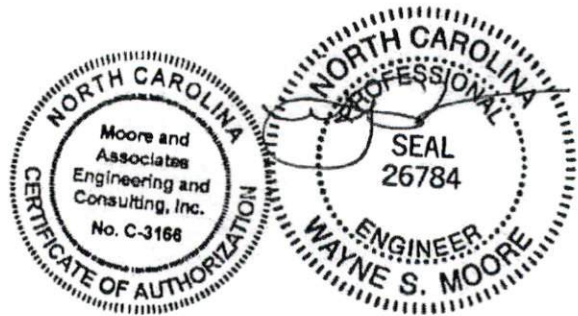
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LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS



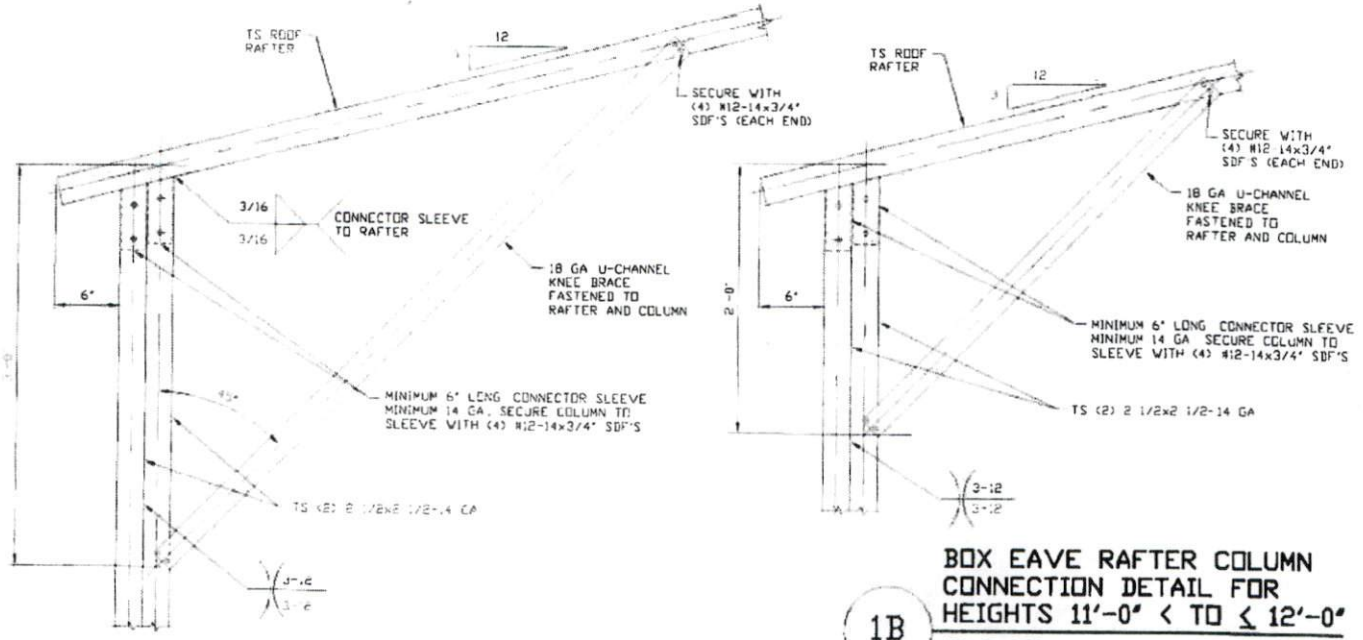
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE NTS



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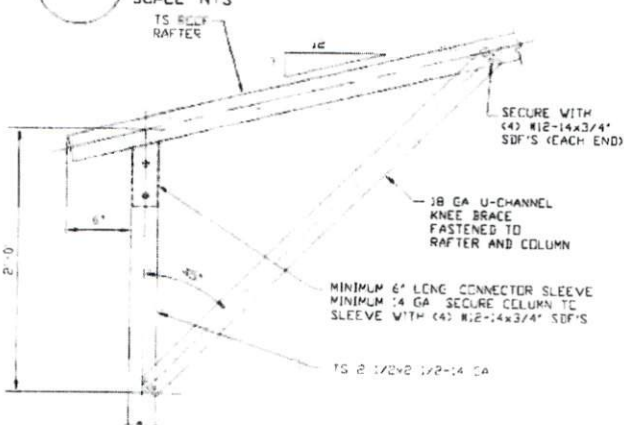
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EXPOSURE B (140 MPH)

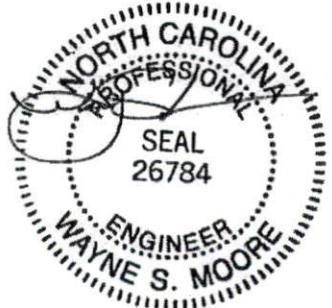
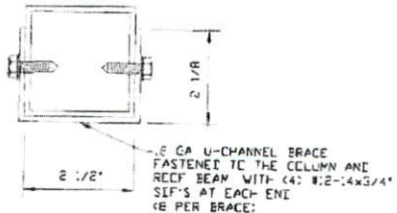


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO <= 12'-0"
SCALE NTS

1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 16'-0"
SCALE NTS



1C
BRACE SECTION
SCALE NTS



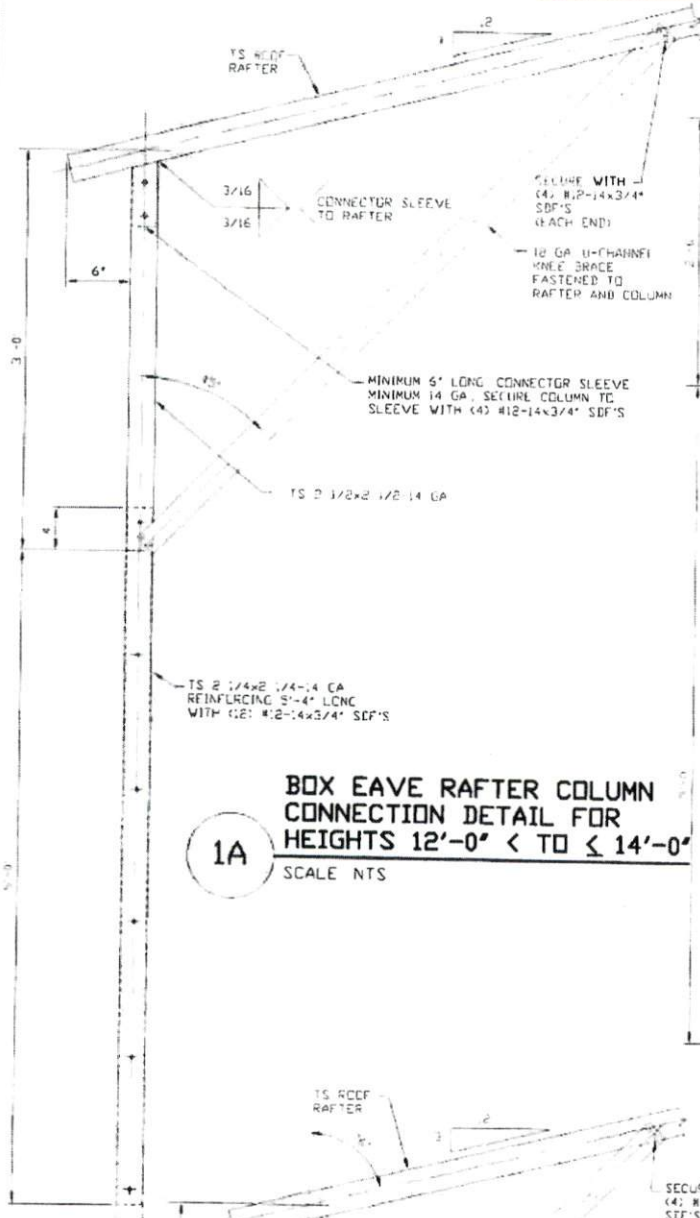
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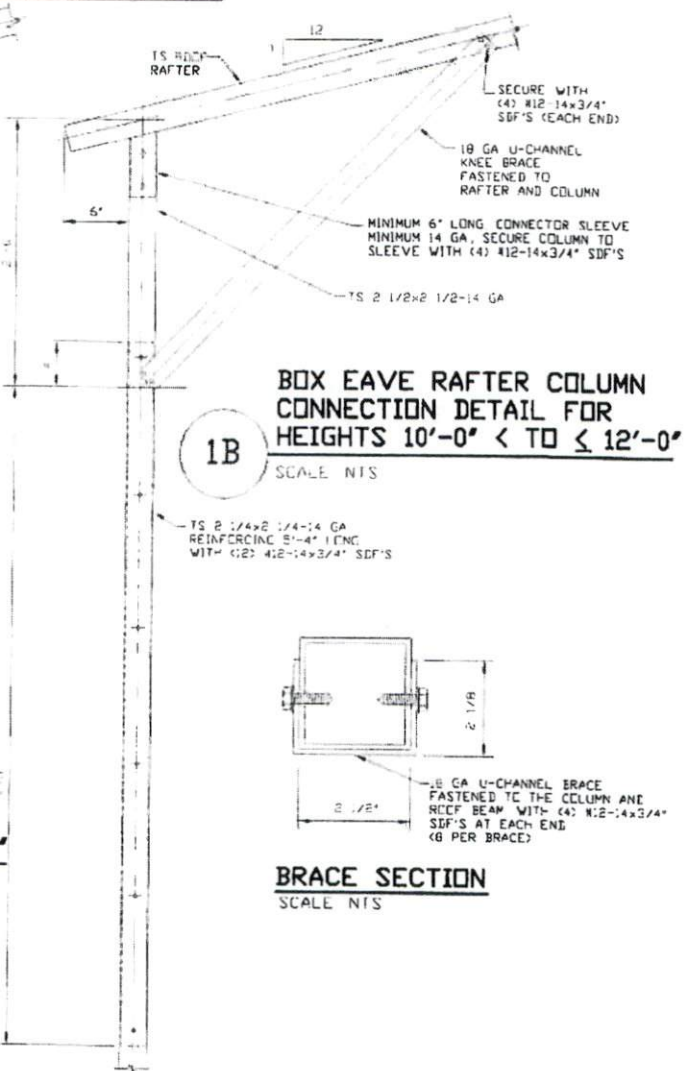
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|---------------------------|---|---------------|--|
| DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
| CHECKED BY: PDH | PROJECT MGR: VSM | DATE: 1-15-18 | SCALE: NTS |
| CLIENT: CAROLINA CARPORTS | SHT. 5 | DWG. NO: SK-3 | JOB NO: 15156S 1613SS 17324S REV: 7 |

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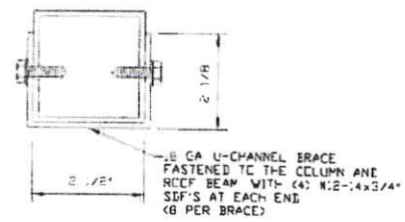
EXPOSURE B (170 MPH)



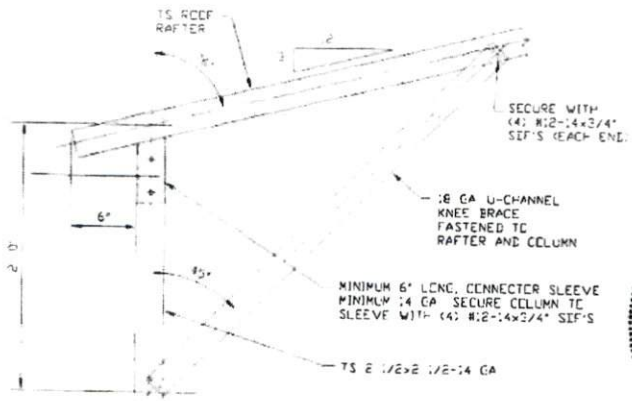
1A
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"



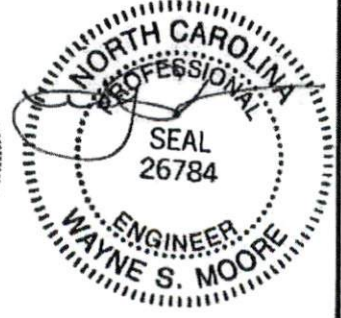
1B
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"



BRACE SECTION
SCALE NTS



1C
SCALE NTS
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 10'-0"



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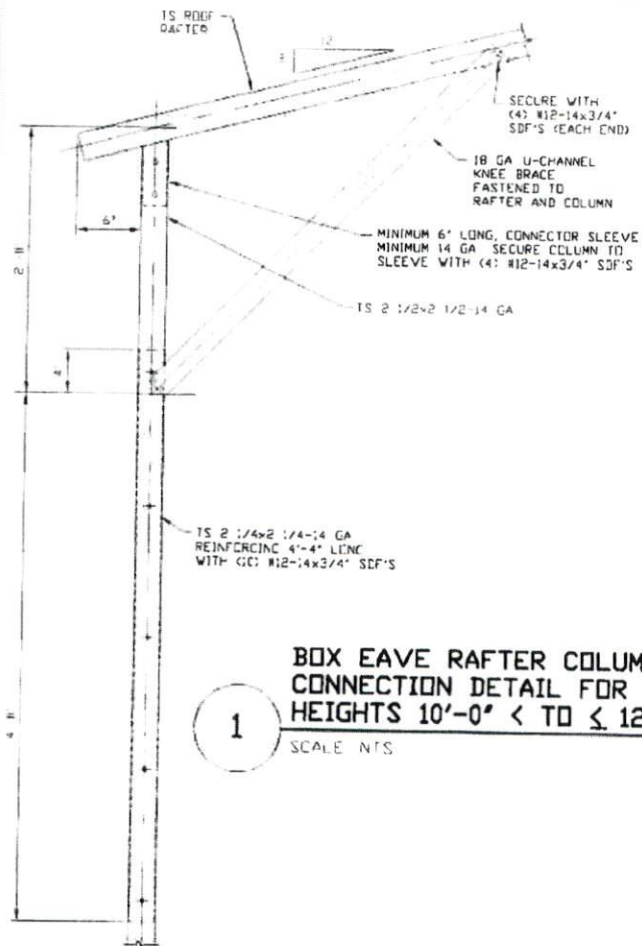
**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS
CHECKED BY: PDH
PROJECT MGR: VSM
CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE
DATE: 1-15-18
SCALE: NTS
JWG. NO: SK-3
REV: 7
JOB NO: 15156S 16135S
17324S

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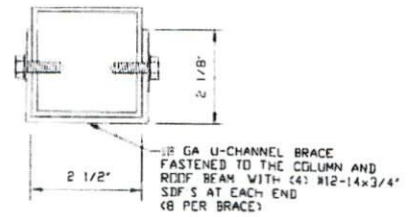
EXPOSURE C (140 MPH)



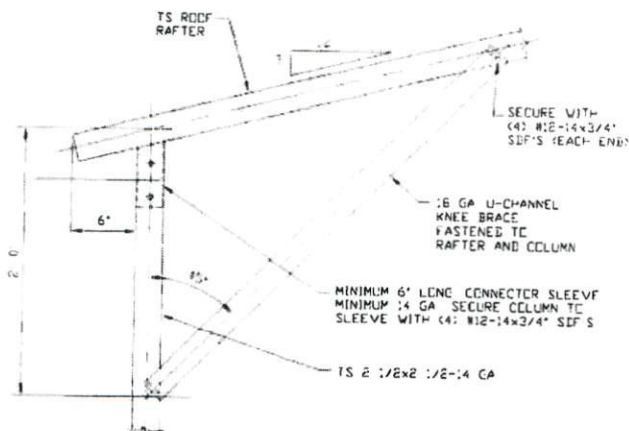
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 12'-0"

1

SCALE: NTS



BRACE SECTION
SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

1B

SCALE: NTS



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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO 15156S 1613SS
17324S

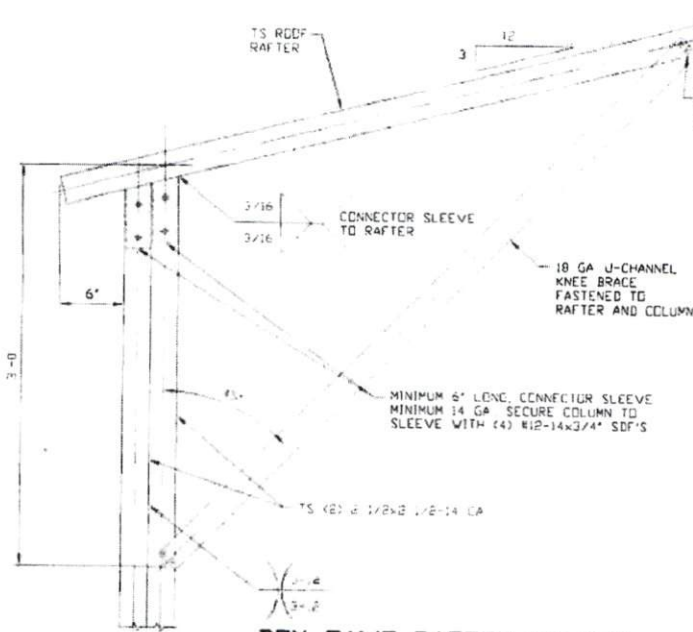
SHT. 5B

DWG. NO: SK-3

REV: 7

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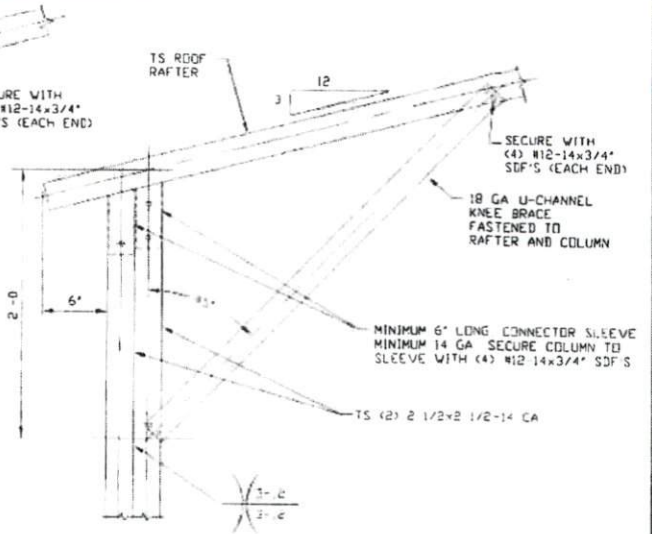
EXPOSURE C (170 MPH)



1A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"

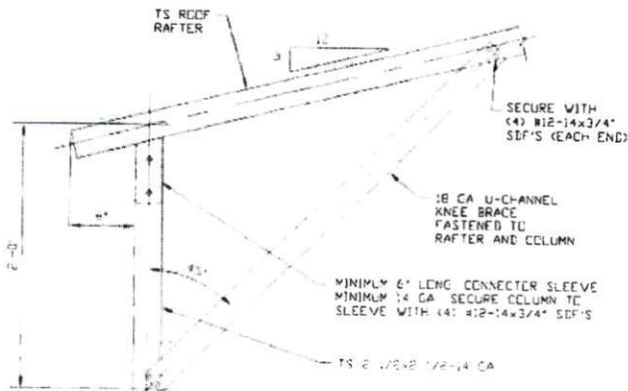
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1B

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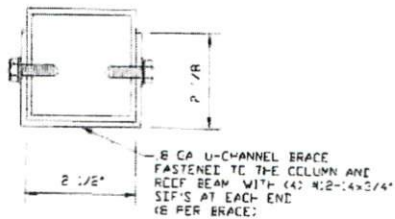
SCALE: NTS



1C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 8'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS



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PROJECT MGR: VSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 5C

SCALE: NTS

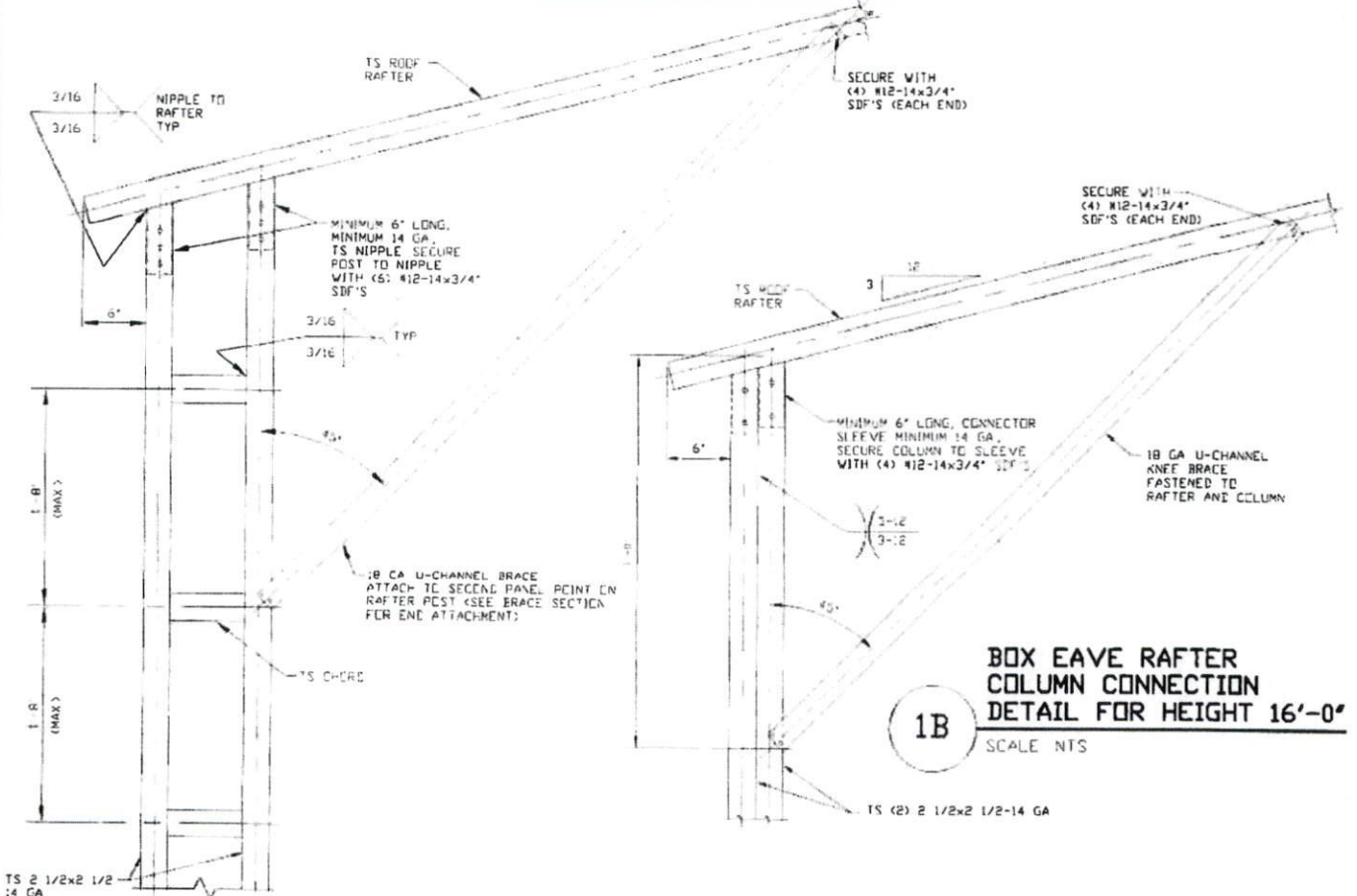
DWG. NO: SK-3

JOB NO: 15156S 16135S 17324S

REV: 7

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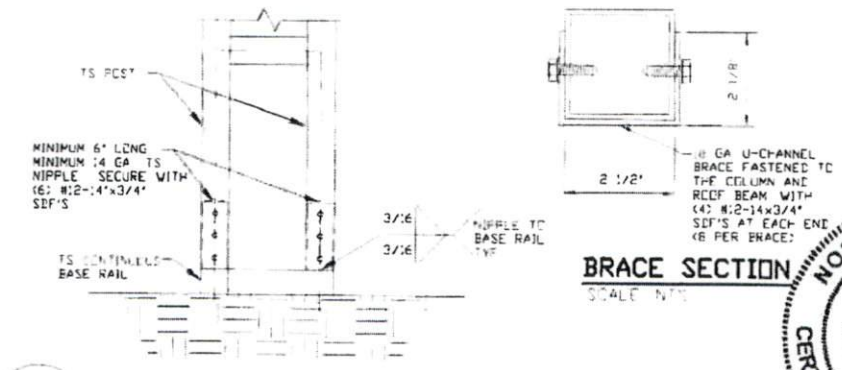
EXPOSURE B (170 MPH)



1A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHT 20'-0"

SCALE NTS



2

POST/BASE RAIL CONNECTION DETAIL

SCALE NTS



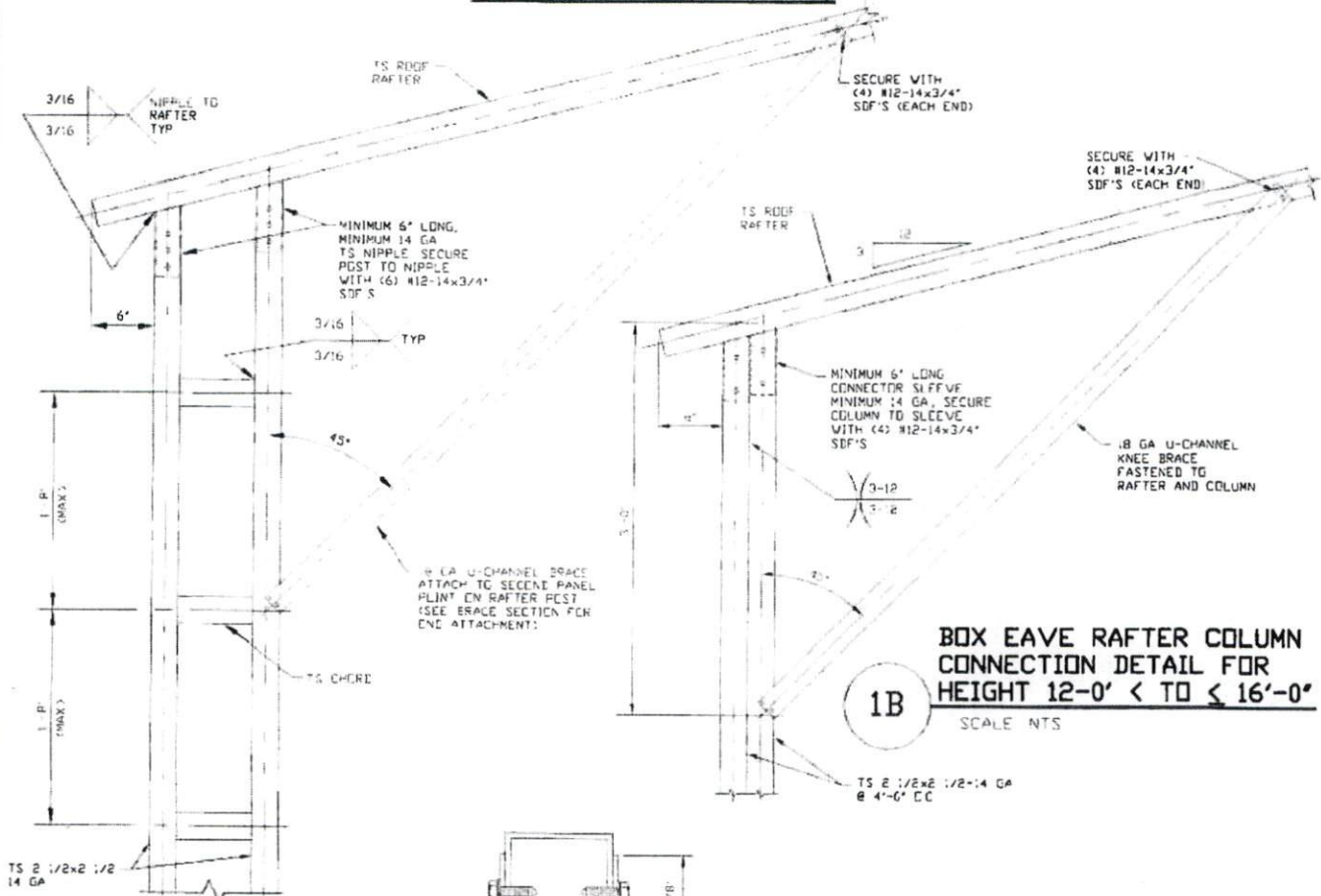
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| CHECKED BY: PDH | PROJECT MGR: WSM | DATE: 1-15-18 | SCALE: NTS |
| CLIENT: CAROLINA CARPORTS | SHT. 5E | DWG. NO SK-3 | JOB NO 15156S 16135S 17324S REV: 7 |

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EXPOSURE C (140 MPH)



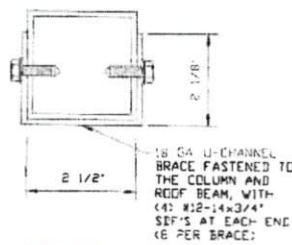
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHT 12'-0" < TO <= 16'-0"

1B

SCALE NTS

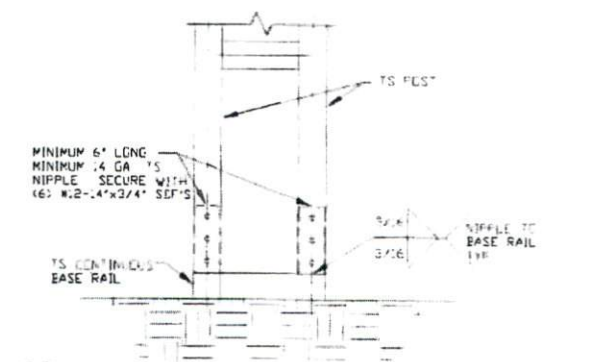
1A BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHT 20'-0"

SCALE NTS



BRACE SECTION

SCALE NTS



2 POST/BASE RAIL CONNECTION DETAIL

SCALE NTS



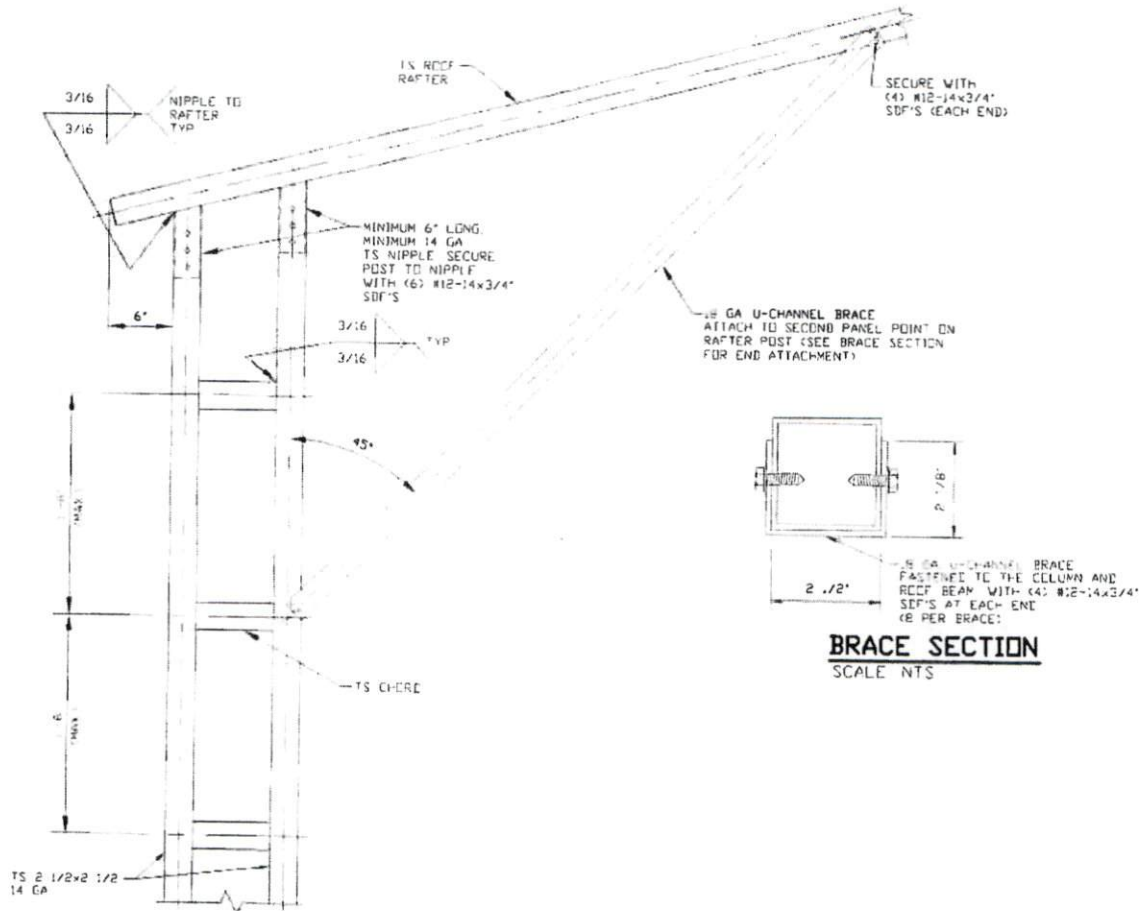
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| CLIENT: CAROLINA CARPORTS | SHT. 5F | DWG. NO SK-3 | REV. 7 |
| | | JOB NO: 15156S 16135S 17324S | |

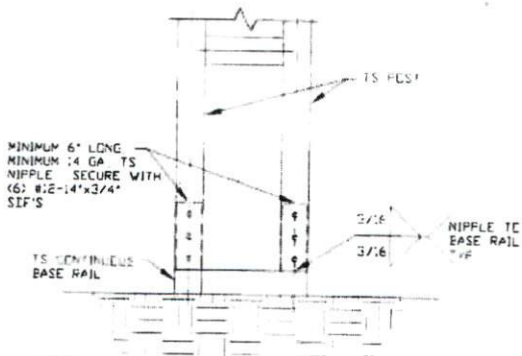
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EXPOSURE C (170 MPH)



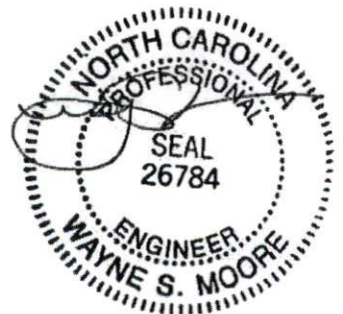
1 BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0"

SCALE: NTS



2 POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 5G

SCALE: NTS

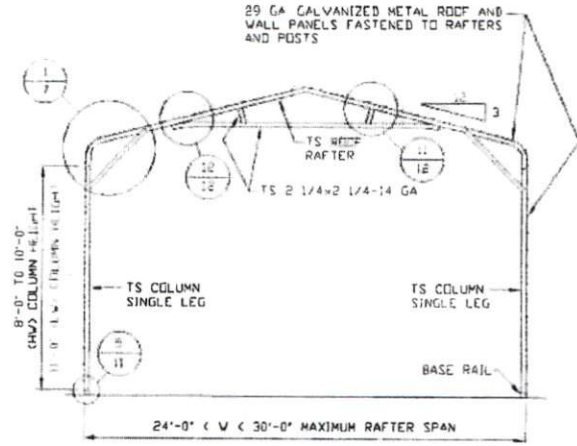
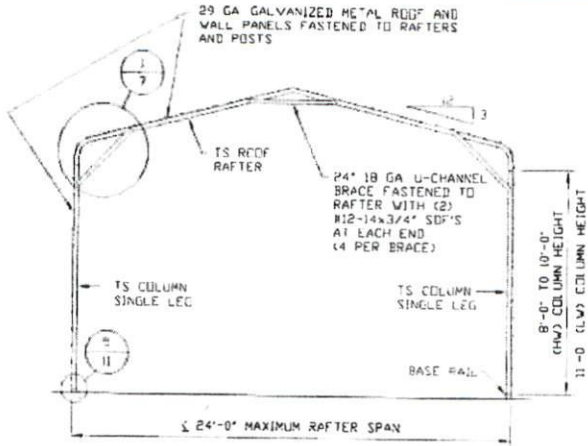
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JOB NO: 15156S 16135S 17324S

REV: 7

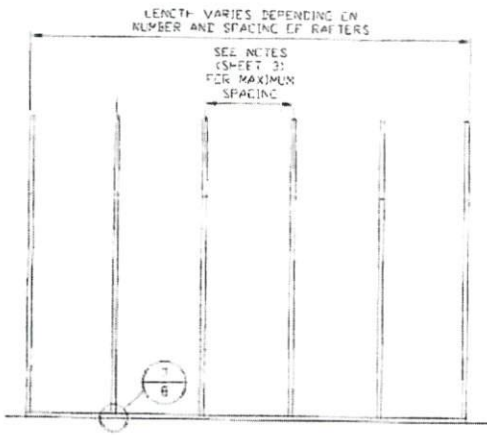
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EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



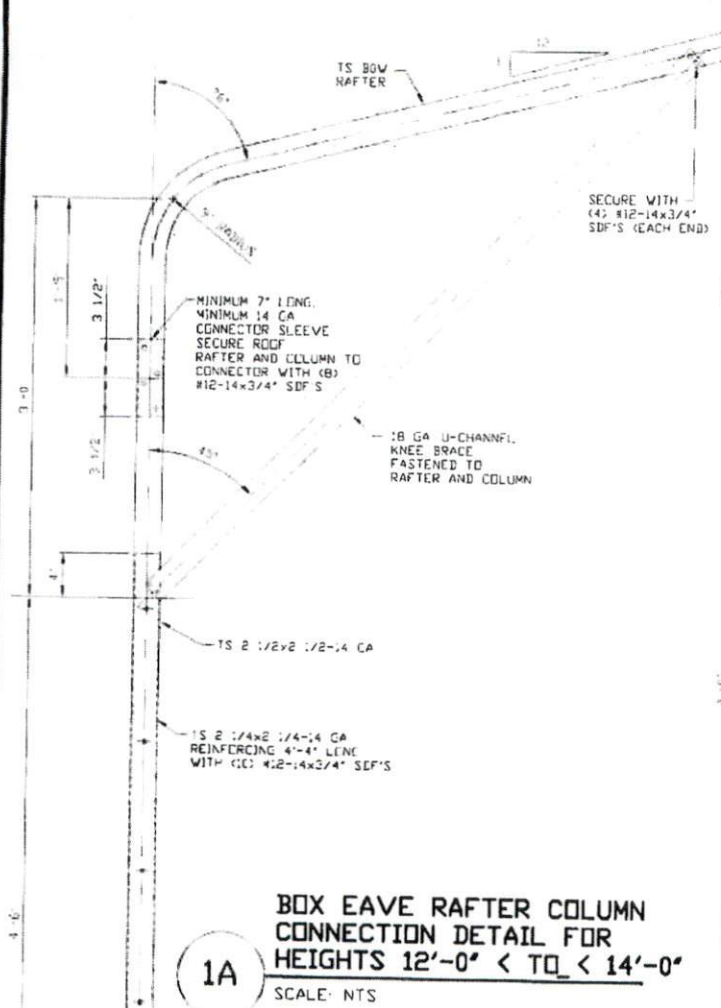
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS



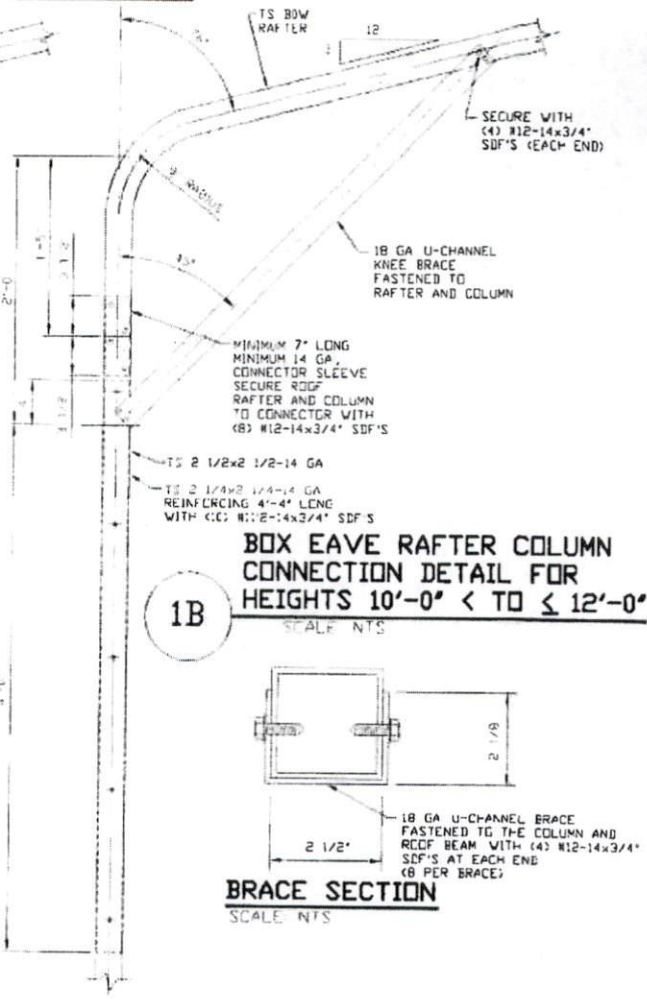
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| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
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| | CLIENT: CAROLINA CARPORTS | SHT. 6 | DWG. NO: SK-3 | REV. 7 |

EXPOSURE B (170 MPH)

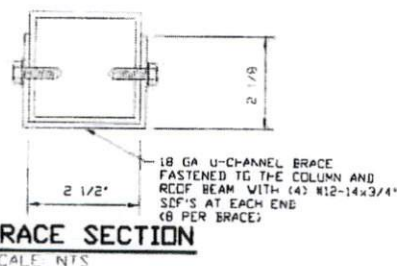


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SCALE: NTS

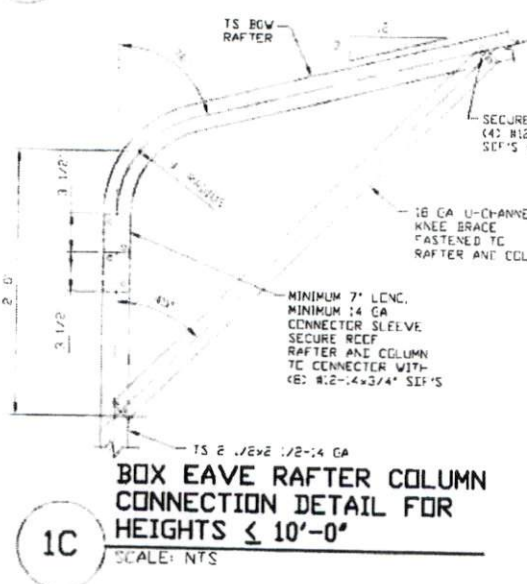


1B
SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 12'-0"



BRACE SECTION
SCALE: NTS



1C
SCALE: NTS



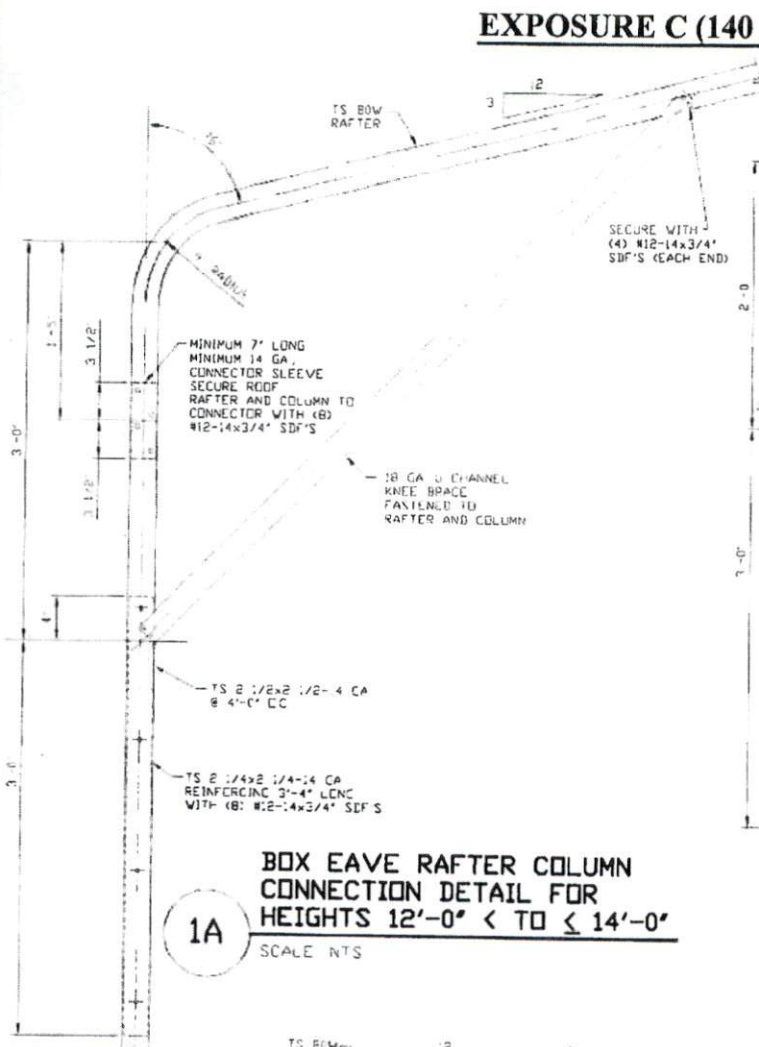
MAY 09 2018

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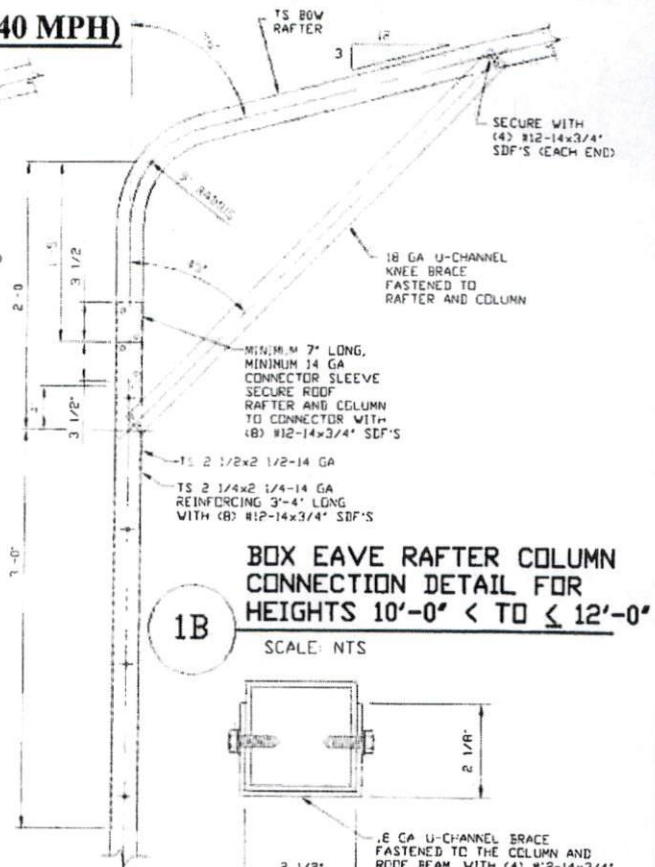
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| DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
| CHECKED BY: PDH | DATE: 1-15-18 | SCALE: NTS | JOB NO: 15156S 16135S 17324S |
| PROJECT MGR: VSM | SHT: 7A | DWG. NO: SK-3 | REV: 7 |
| CLIENT: CAROLINA CARPORTS | | | |

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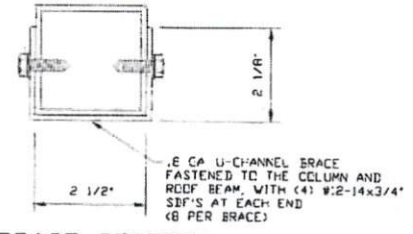
EXPOSURE C (140 MPH)



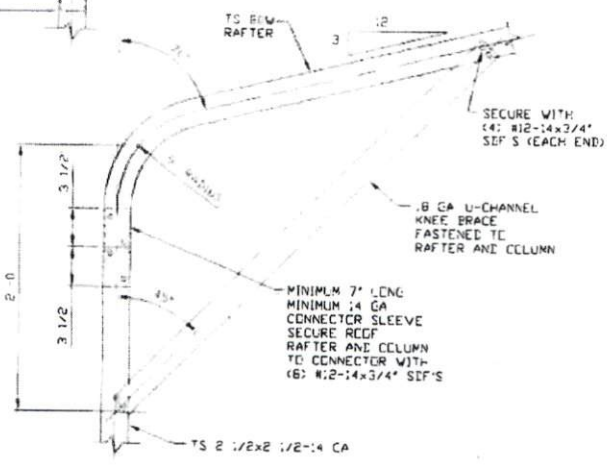
1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 14'-0"
SCALE: NTS



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



BRACE SECTION
SCALE: NTS



1C
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 10'-0"
SCALE: NTS



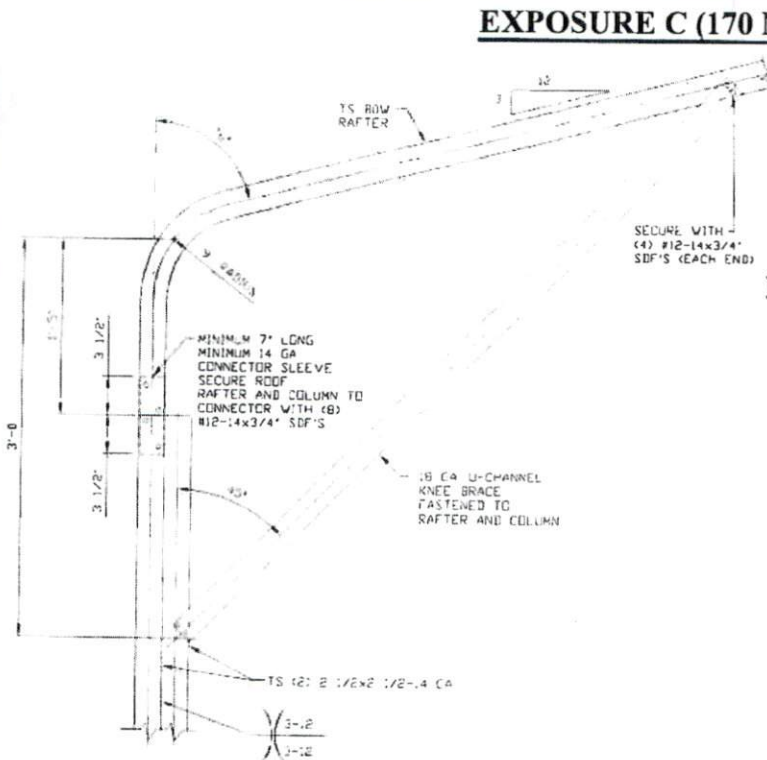
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| CHECKED BY: PDH | PROJECT MGR: WSH | DATE: 1-15-18 | JOB NO: 15156S 16135S 17324S |
| CLIENT: CAROLINA CARPORTS | SHT. 7B | SCALE: NTS | REV. 7 |

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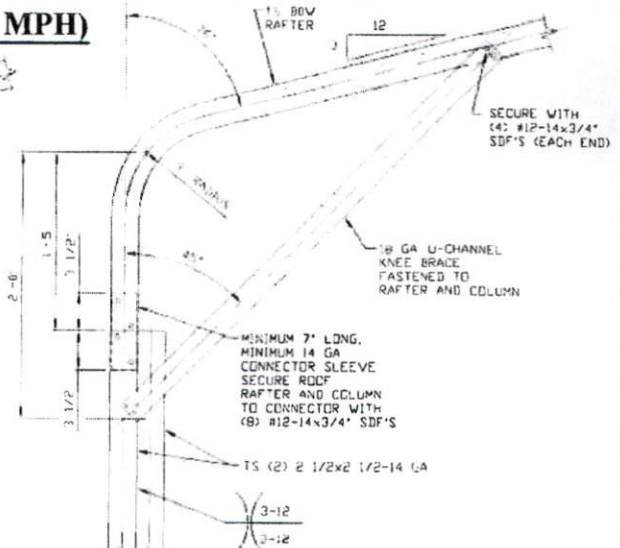
EXPOSURE C (170 MPH)



1A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 14'-0"

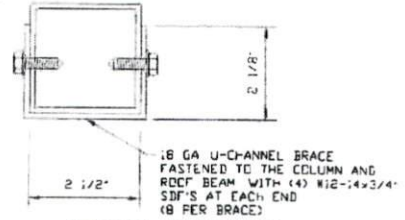
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1B

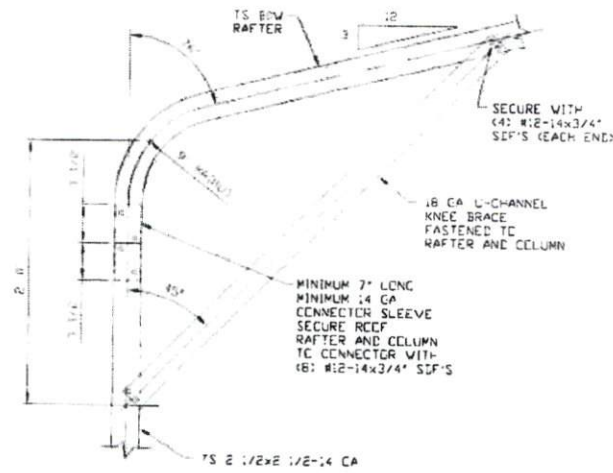
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 12'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS



1C

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"

SCALE: NTS



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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 7C

SCALE: NTS

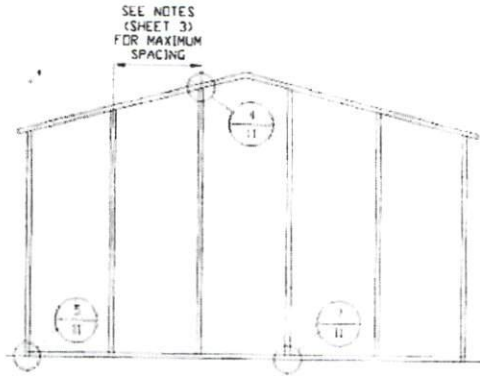
DWG. NO: SK-3

JOB NO: 15156S 16135S 17324S

REV: 7

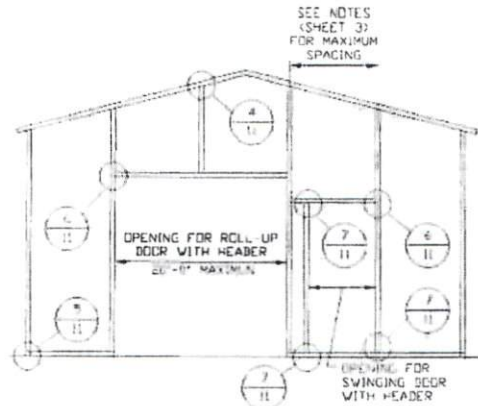
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



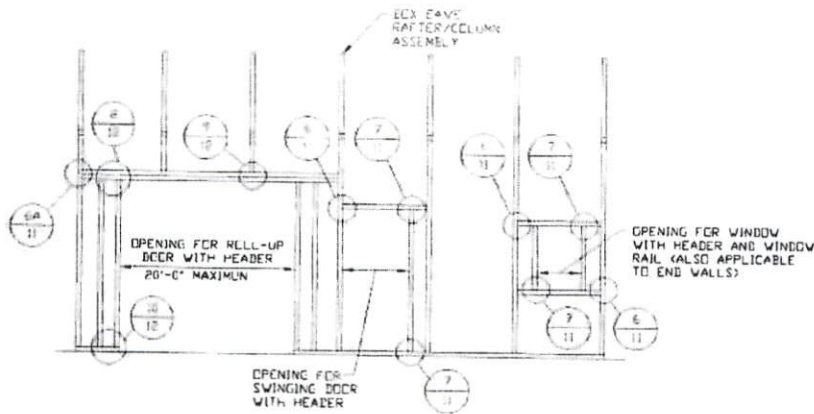
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



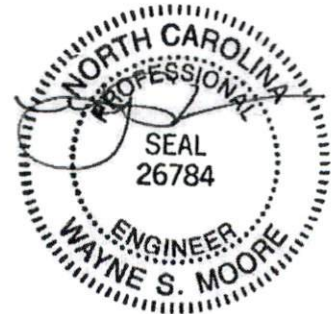
**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CAROLINA
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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 9

SCALE: NTS

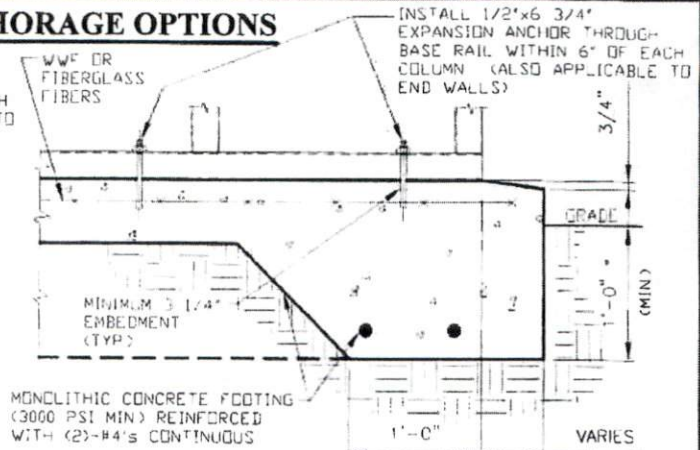
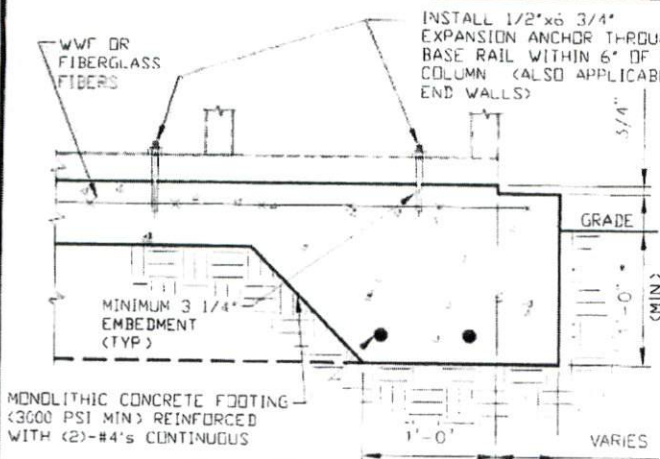
DWG. NO: SK-3

JOB NO: 15156S 16135S
17324S

REV: 7

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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 CODES/ORD)

GENERAL NOTES

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

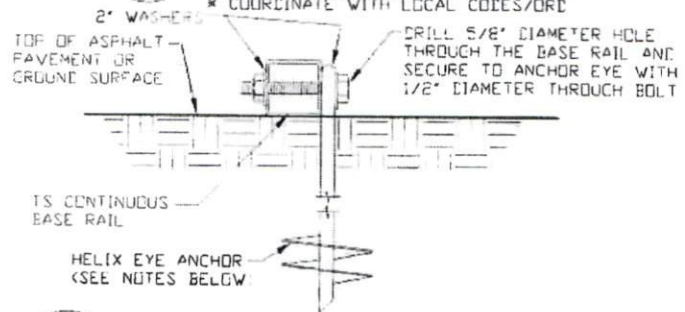
HELIX ANCHOR NOTES:

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

3B

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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



3C

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)



MAY 09 2018

MOORE AND ASSOCIATES
 ENGINEERING AND CONSULTING, INC.

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 8

SCALE: NTS

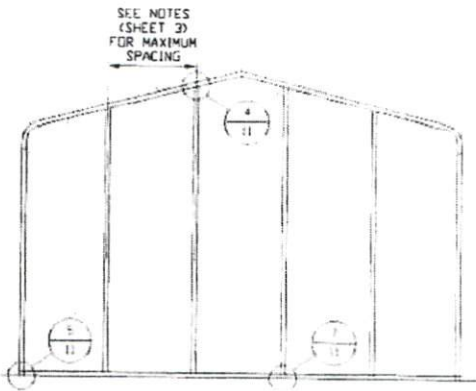
DWG. NO: SK-3

JOB NO: 151565 161355
 173245

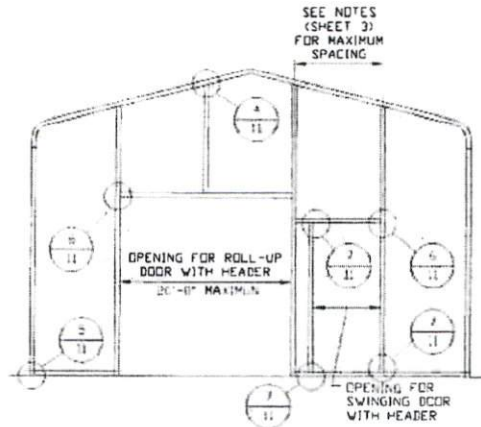
REV: 7

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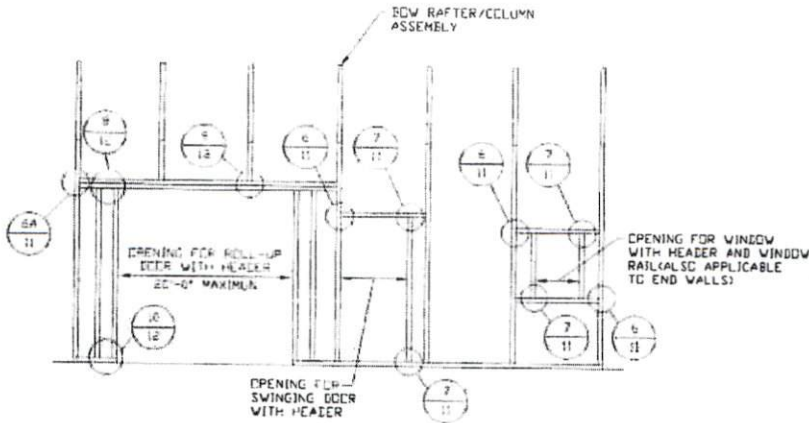
BOW RAFTER END WALL AND SIDE WALL OPENINGS



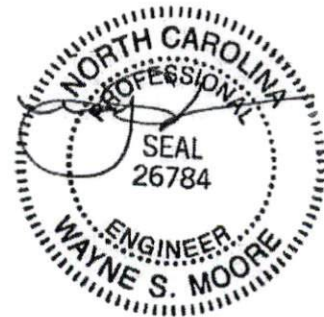
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**
SCALE: NTS



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



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



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PROJECT MGR: WSM

CLIENT: CAROLINA
CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

JOB NO: 15156S 16135S
17324S

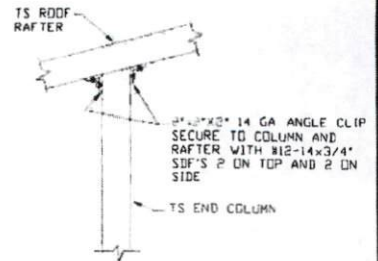
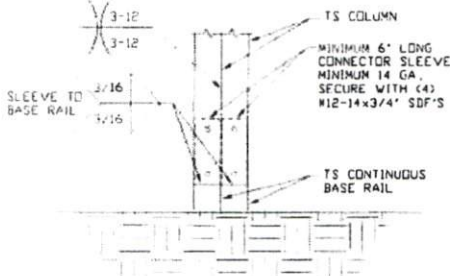
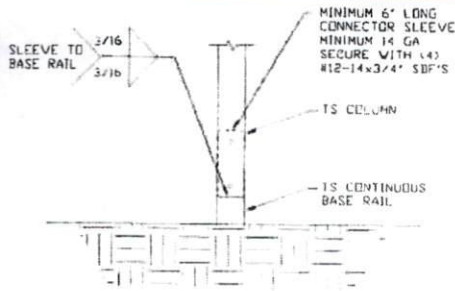
SHT. 10

DWG. NO: SK-3

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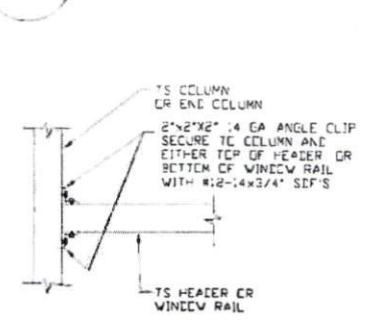
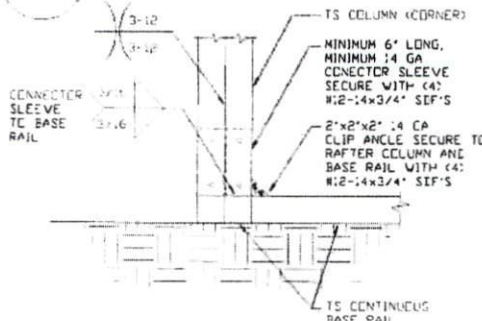
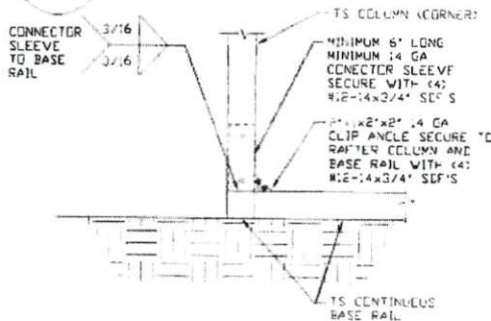
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



2 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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

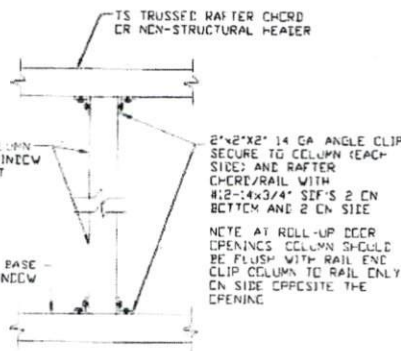
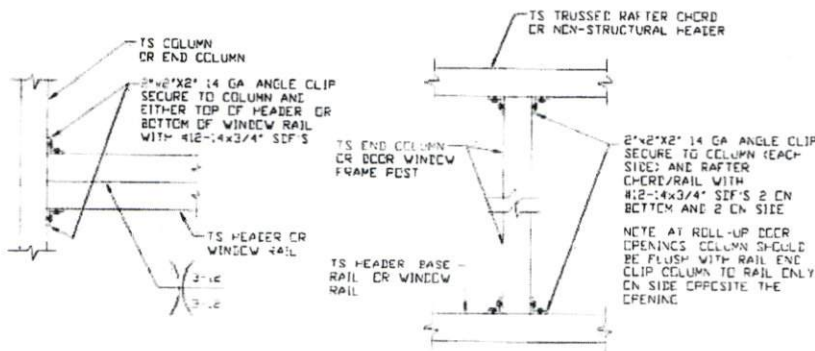
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



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



6A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS

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



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PROJECT MGR: WSM

CLIENT: CAROLINA
CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

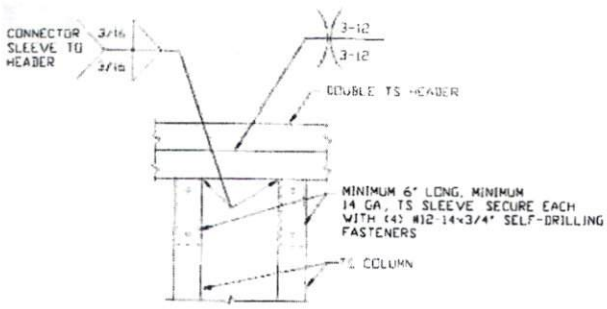
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JOB NO: 15156S 16135S
17324S

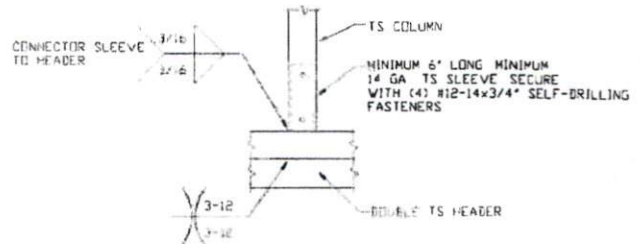
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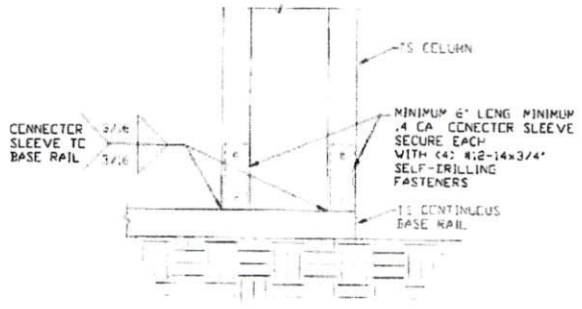
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



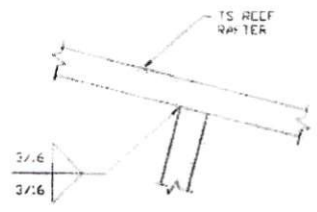
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



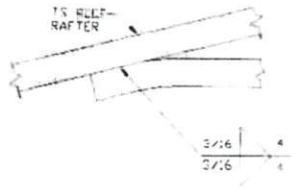
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



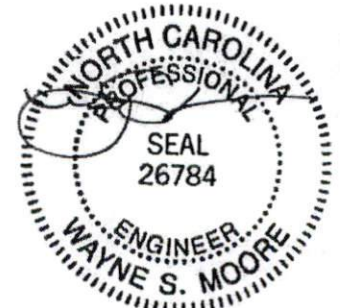
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

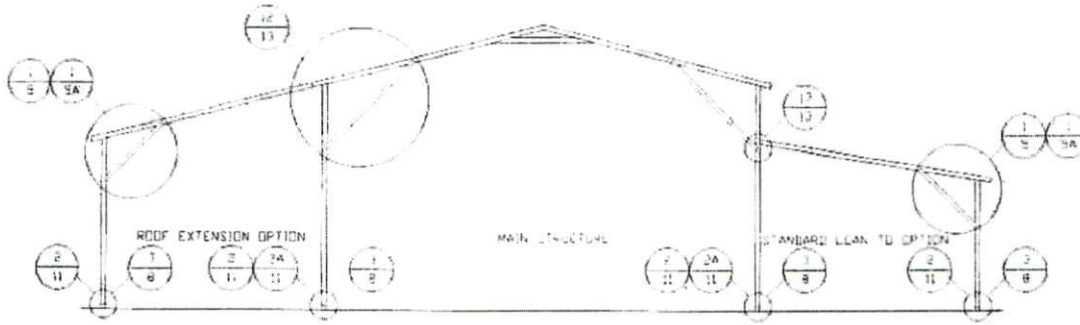


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| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
| | CHECKED BY: PDH | DATE: 1-15-18 | SCALE: NTS | JOB NO: 15156S 16135S 17324S |
| PROJECT MGR: WSH | CLIENT: CAROLINA CARPORTS | SHT. 12 | DWG. NO: SK-3 | REV. 7 |

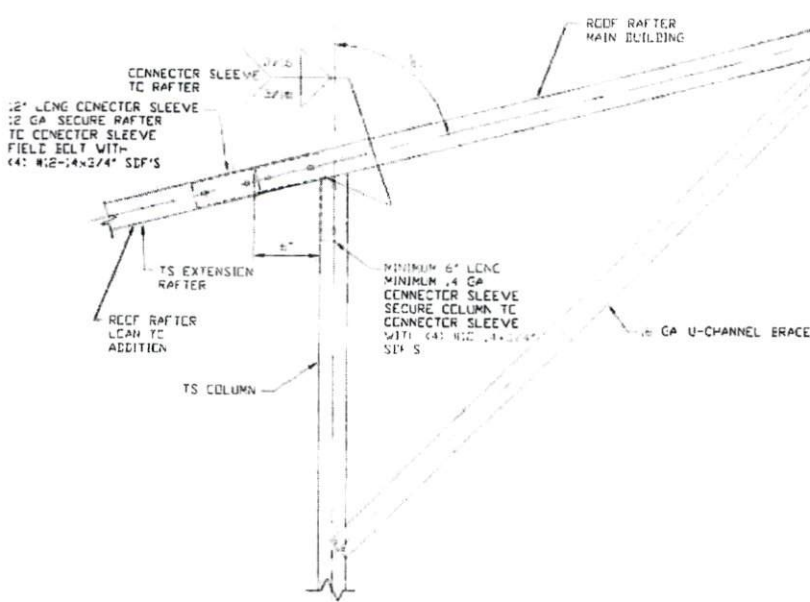
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BOX EAVE RAFTER LEAN-TO OPTIONS

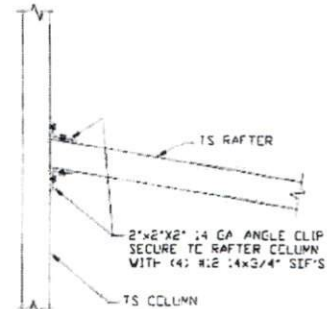


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

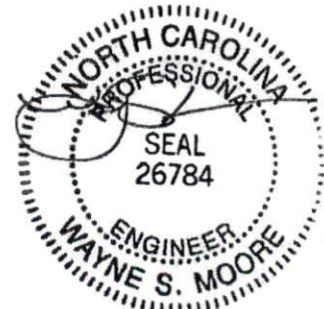
SCALE: NTS
 MINIMUM WIDTH OF STANDARD LEAN-TO/ROOF EXTENSION IS 12'-0"



12 SIDE EXTENSION RAFTER/COLUMN DETAIL
 SCALE: NTS



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



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PROJECT MGR: WSH

CLIENT: CAROLINA
 CARPORTS

CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 13

SCALE: NTS

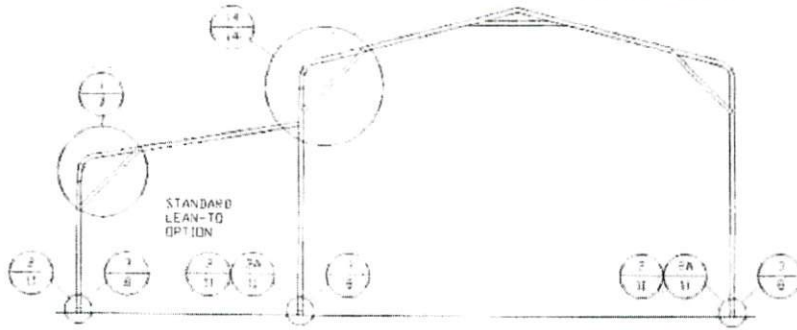
DWG. NO: SK-3

JOB NO: 15156S 1613SS
 17324S

REV: 7

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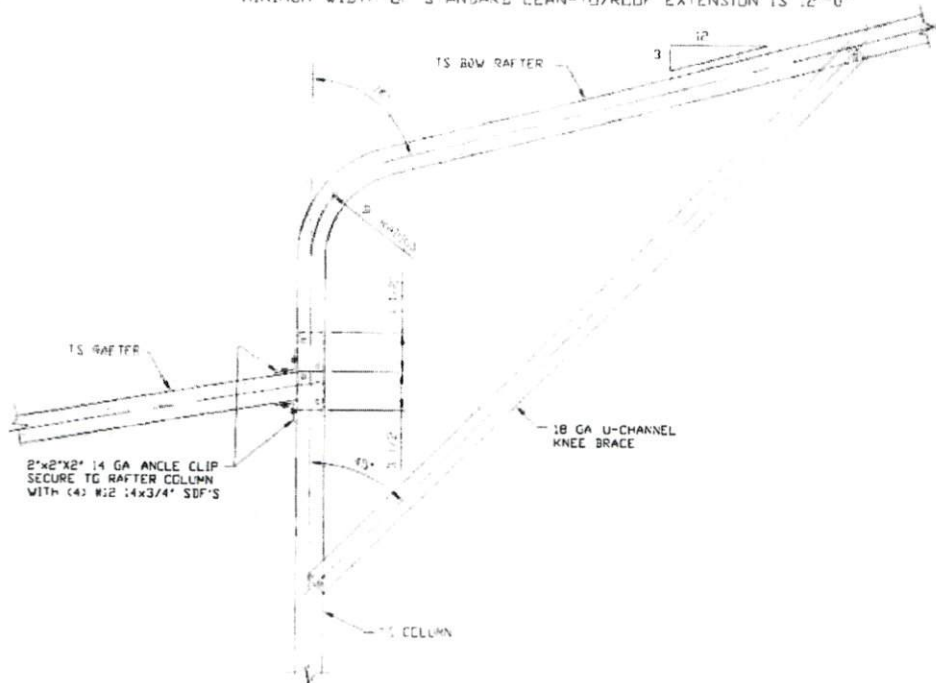
BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

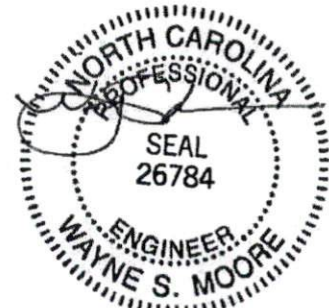
MINIMUM WIDTH OF STANDARD LEAN-TO/ROOF EXTENSION IS 12'-0"



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

14

SCALE: NTS



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PROJECT MGR: VSM

CLIENT: CAROLINA
CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 14

SCALE: NTS

DWG. NO: SK-3

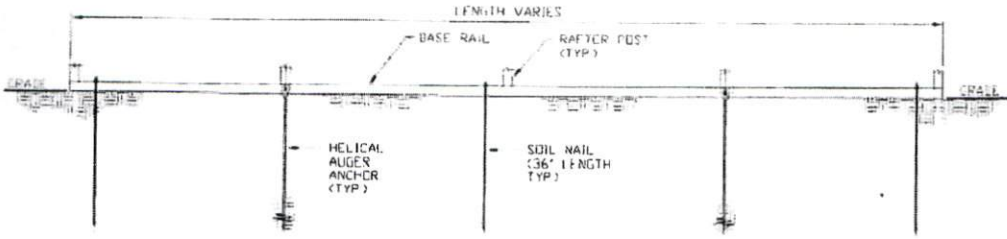
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17324S

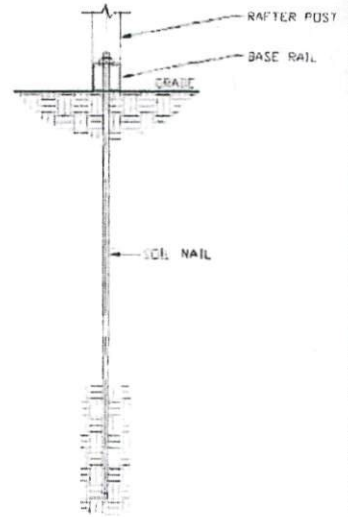
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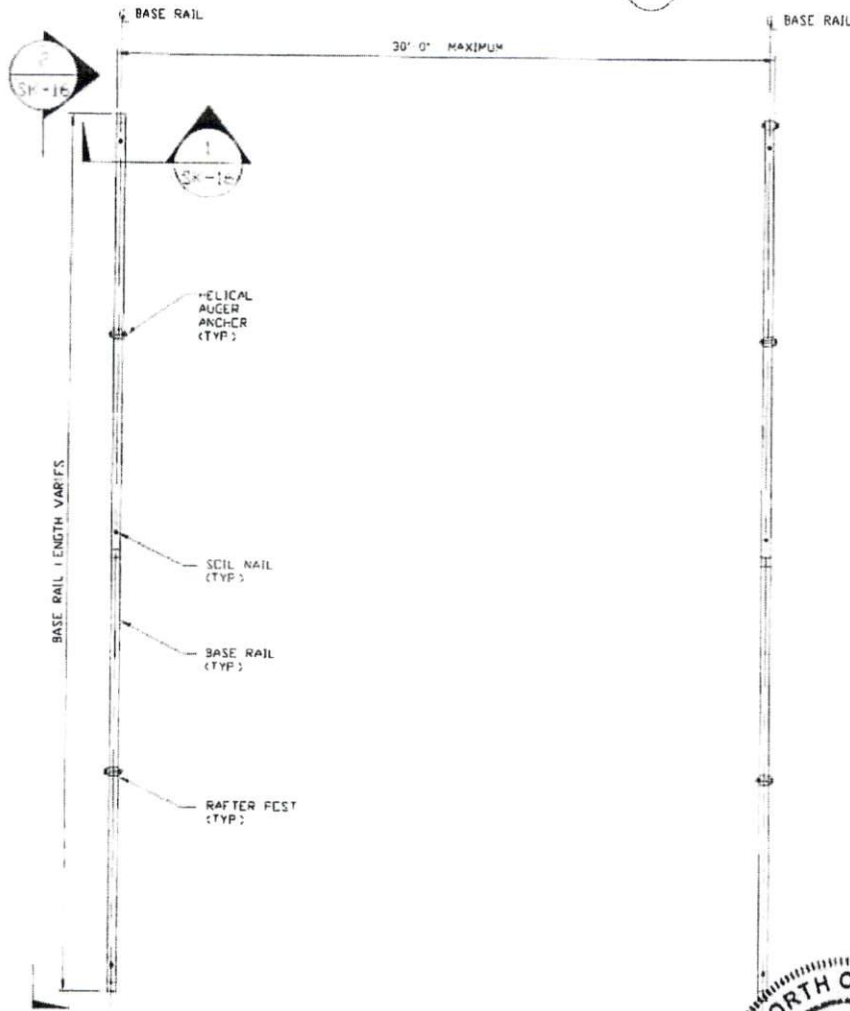
BASE RAIL ON GRADE APPLICATION



SECTION 2
SCALE: NTS (SK-16)



SECTION 3
SCALE: NTS (SK-16)



BASE RAIL PLAN
SCALE: NTS

| HELIX ANCHOR | |
|--------------|------------------------|
| SIDE LENGTH | SPACING |
| 20' | 20' |
| 25' | 25' NOTE 2 |
| 30' | 10' (EVERY OTHER POST) |

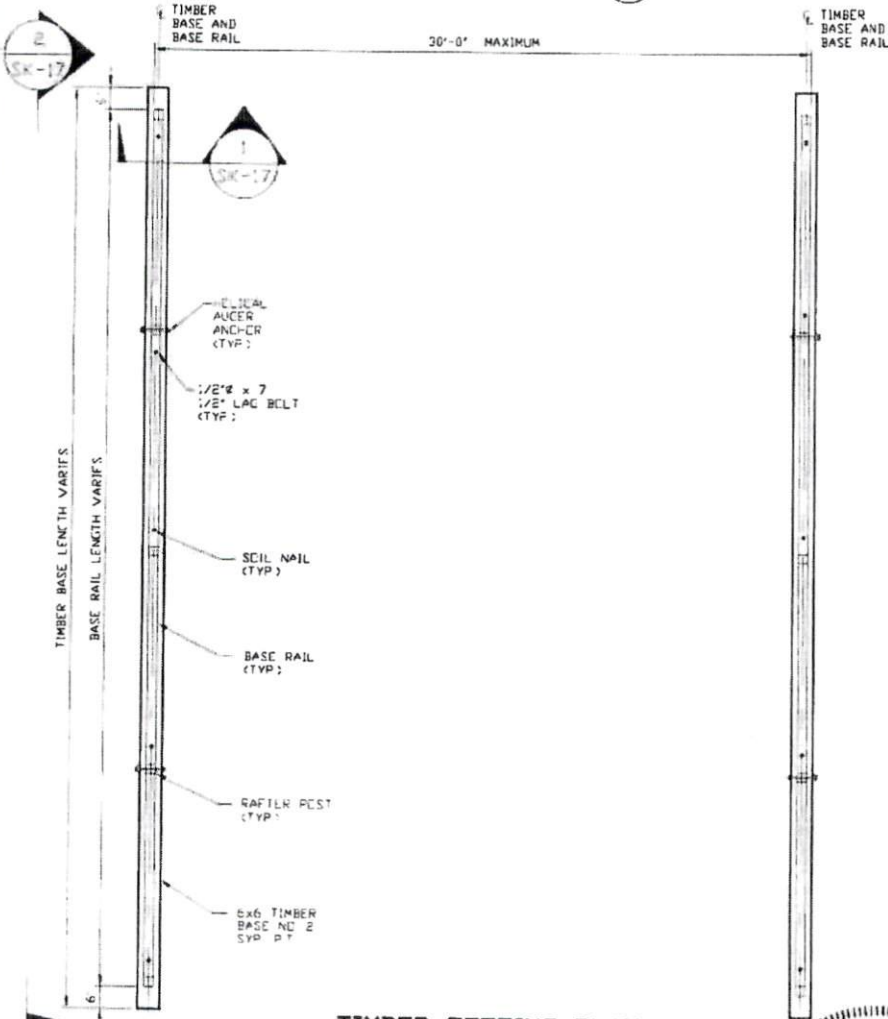
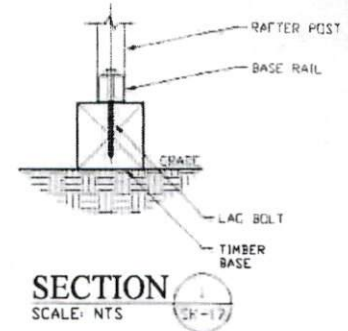
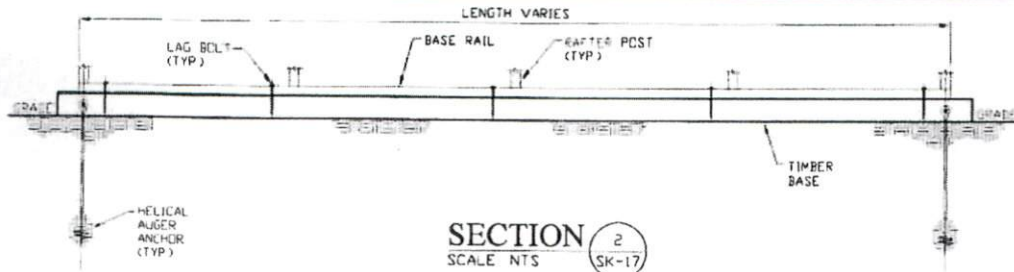
- NOTES**
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)



MAY 09 2018

| | | | | |
|---|---------------------------|---|---------------|---------------------------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JRS | CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE | | |
| | CHECKED BY: PDH | DATE: 1-15-18 | SCALE: NTS | JOB NO: 15156S 16135S 17324S |
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| | CLIENT: CAROLINA CARPORTS | | | |

OPTIONAL BASE RAIL ON TIMBER BEAM



TIMBER FOOTING PLAN
SCALE NTS

| HELIX ANCHOR | |
|--------------|------------------------|
| SIDE LENGTH | SPACING |
| 20' | 20' |
| 25' | 25' NOTE 2 |
| 30' | 10' (EVERY OTHER POST) |

- NOTES**
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
 2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)



MAY 09 2018

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JRS

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 17

SCALE: NTS

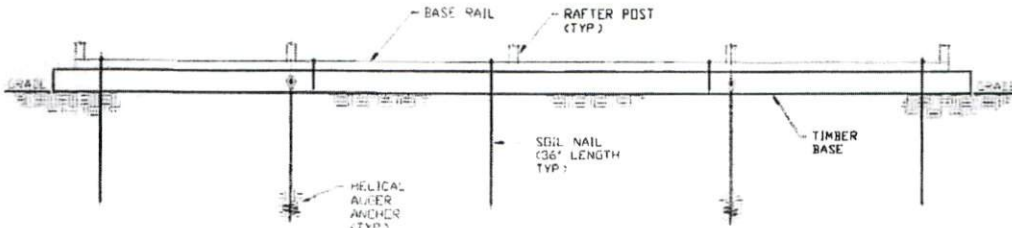
DWG. NO SK-3

JOB NO: 151563 161355
173245

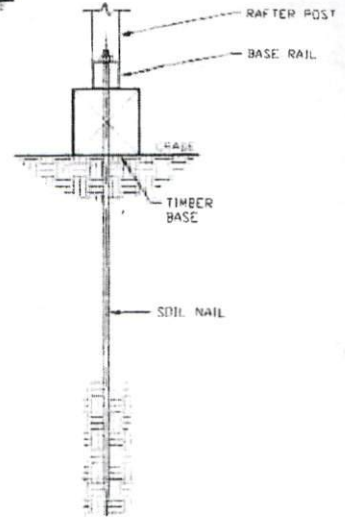
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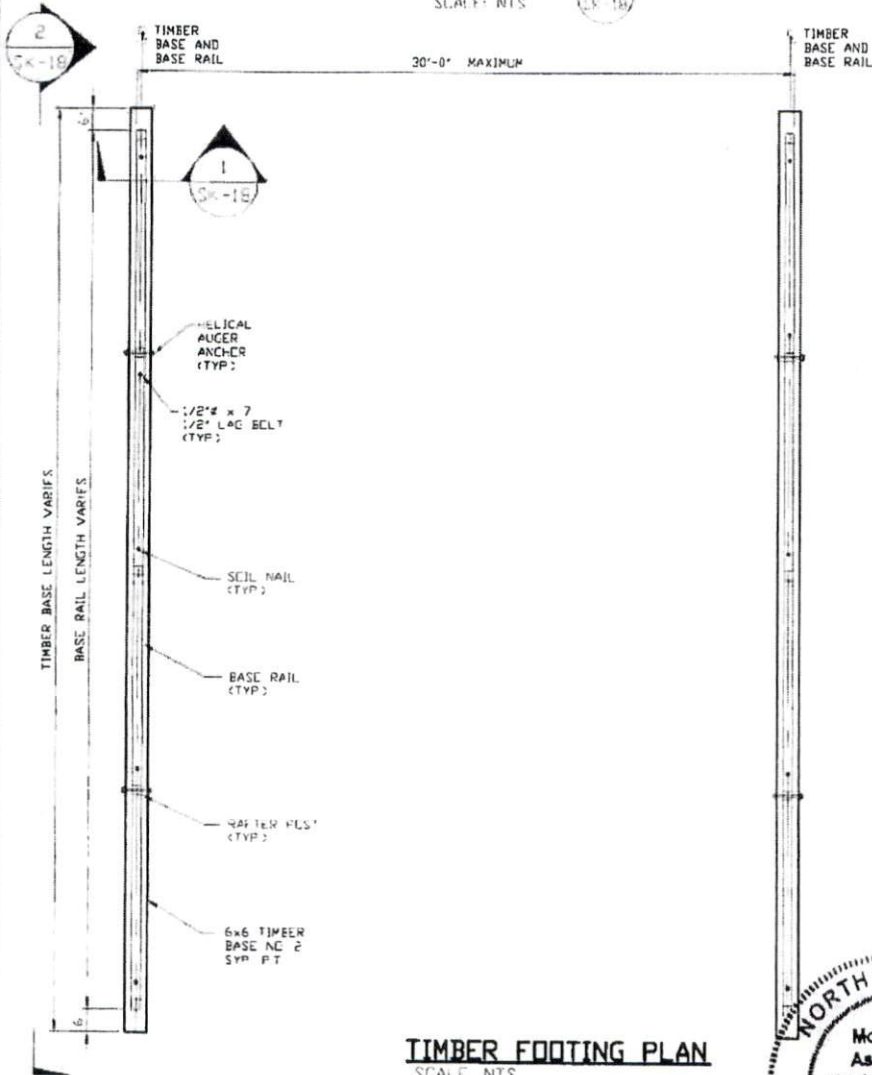
OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 2
SCALE: NTS



SECTION 1
SCALE: NTS

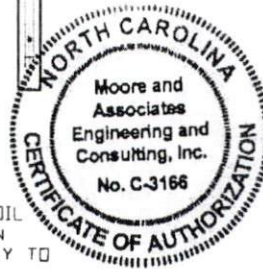


TIMBER FOOTING PLAN
SCALE: NTS

| HELIX ANCHOR | |
|--------------|------------------------|
| SIDE LENGTH | SPACING |
| 20' | 20' |
| 25' | 25' NOTE 2 |
| 30' | 10' (EVERY OTHER POST) |

NOTES

1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS
2. FOR EXPOSURE C USE 10' SPACING (EVERY OTHER POST)



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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CAROLINA CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SHT. 18

SCALE: NTS

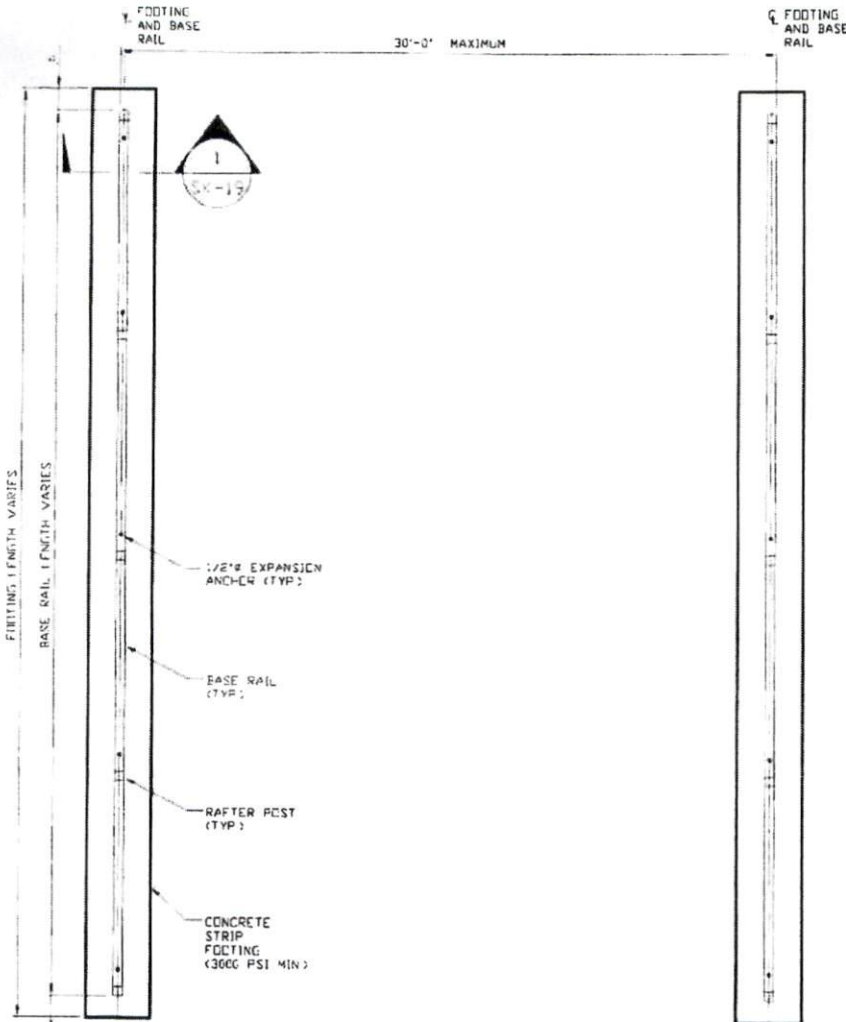
DWG. NO: SK-3

JOB NO: 15156S 1613SS
17324S

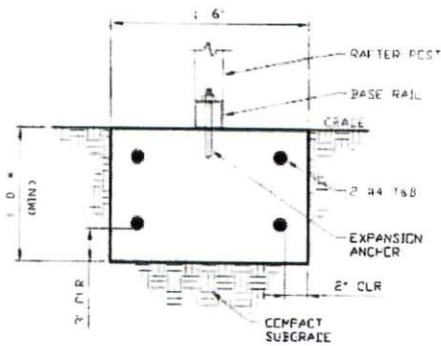
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OPTIONAL CONCRETE STRIP FOOTING

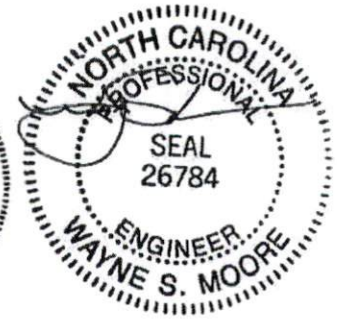


CONCRETE STRIP FOOTING PLAN
SCALE: NTS



SECTION 1
SCALE: NTS
SK-19

• COORDINATE WITH LOCAL CODES/ORD



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CARPORTS

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
30'x20' ENCLOSED STRUCTURE

DATE: 1-15-18

SCALE: NTS

DWG. NO: SK-3

JOB NO: 15156S 16135S
17324S

SHT. 19

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| SHEET 13 | LEAN-TO OPTIONS (BOX EAVE RAFTER) |
| SHEET 14 | LEAN-TO OPTIONS (BOX RAFTER) |
| SHEET 15 | VERTICAL ROOF/SIDING OPTION END AND SIDE ELEVATION AND SECTION |
| SHEET 16 | BASE RAIL ON GRADE APPLICATION |
| SHEET 17 | OPTIONAL BASE RAIL ON TIMBER BEAM |
| SHEET 18 | OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL |
| SHEET 19 | OPTIONAL CONCRETE STRIP FOOTING |
| SHEET 20 | OPTIONAL HEADER |



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| | CHECKED BY: PDH | | | |
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| | CLIENT: CAROLINA CARPORTS | SHT. 2 | DWG. NO: SK-3 | REV.: 7 |

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2012 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 ($\leq 24'$), 35 PSF ($24' < W < 30'$), 35 PSF @ 4'-0" OC SPACING ($\leq 24'$)
(MAXIMUM 45 PSF FOR EXPOSURE B AND 55 PSF FOR EXPOSURE C AT 4'-0" OC SPACING)
- 4 LOW ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET
- 5 HIGH ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH) MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET
- 6 RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B OR C
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAGE 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" OC (MAX) 6" OC (MAX) FOR HIGH WIND APPLICATIONS
- 10 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 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 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG IN SUITABLE SOIL CONDITIONS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED NOT ALLOWED FOR HIGH WIND APPLICATION
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE
 SOIL SITE CLASS = I
 RISK CATEGORY I/II/III
 $R = 325$ $I_g = 1.0$
 $S_{ES} = 1.522$ $V = C_s W$
 $S_{EI} = 0.839$

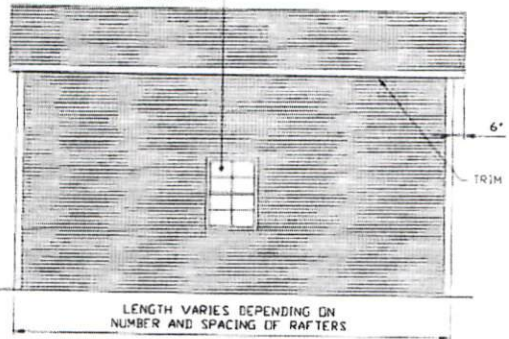


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| | CLIENT: CAROLINA CARPORTS | SHT. 3A | DWG. NO: SK-3 | REV: 7 |

BOX EAVE FRAME RAFTER STRUCTURE (Sheets 4, 4A, 4B, 4C, 4D, 4E, 5, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 8, 9, 11, 12, 13, AND 15)

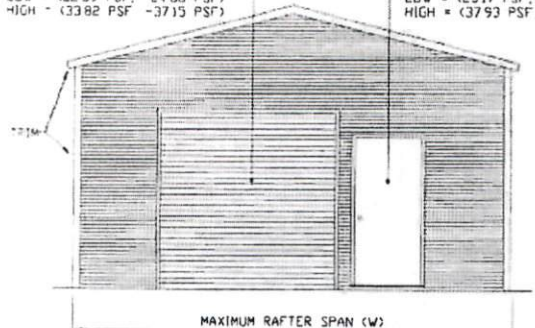
WINDOW (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (26.38 PSF, -35.21 PSF)
 HIGH = (39.75 PSF, -49.55 PSF)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
 SCALE: NTS

ROLL-UP DOOR
 (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (22.39 PSF, -24.68 PSF)
 HIGH = (33.82 PSF, -37.15 PSF)

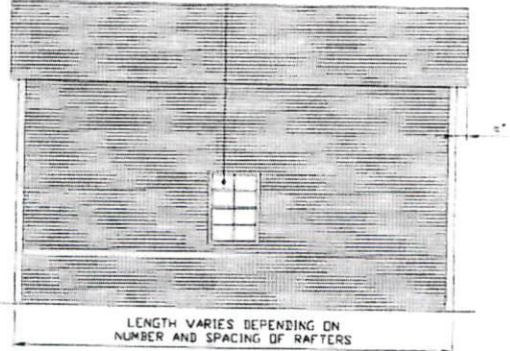
SWINGING DOOR
 (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (25.17 PSF, -27.35 PSF)
 HIGH = (37.93 PSF, -41.32 PSF)



TYPICAL END ELEVATION-HORIZONTAL ROOF
 SCALE: NTS

BOX FRAME RAFTER STRUCTURE (Sheets 6, 6A, 7, 7A, 7B, 7C, 8, 10, 11, 12, AND 14)

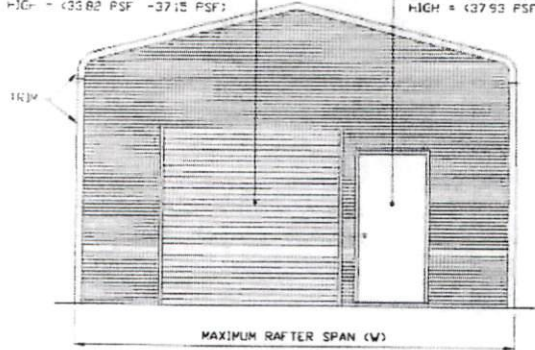
WINDOW (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (26.38 PSF, -35.21 PSF)
 HIGH = (39.75 PSF, -49.55 PSF)



TYPICAL SIDE ELEVATION
 SCALE: NTS

ROLL-UP DOOR
 (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (22.39 PSF, -24.68 PSF)
 HIGH = (33.82 PSF, -37.15 PSF)

SWINGING DOOR
 (AS APPLICABLE)
 DESIGN PRESSURE
 LOW = (25.17 PSF, -27.35 PSF)
 HIGH = (37.93 PSF, -41.32 PSF)



TYPICAL END ELEVATION
 SCALE: NTS



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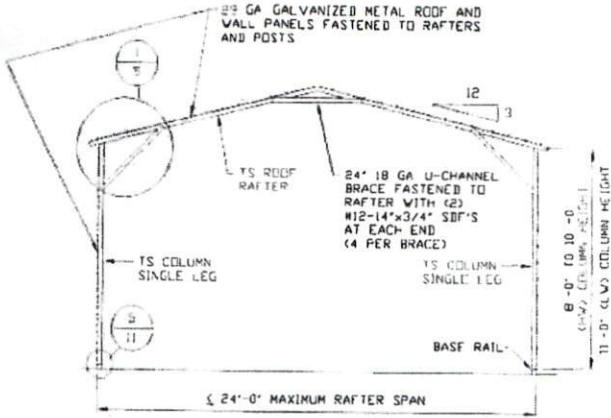
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CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 30'x20' ENCLOSED STRUCTURE

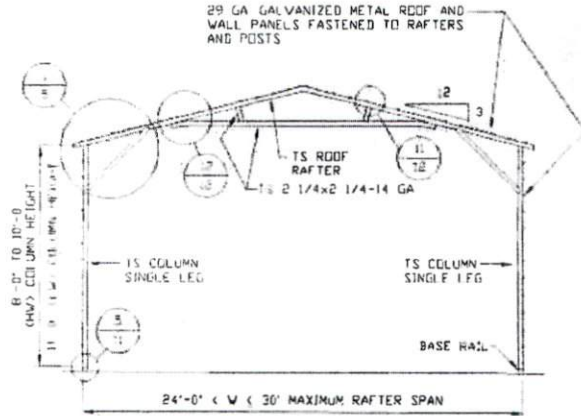
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| CLIENT: CAROLINA CARPORTS | SHT. 3B | DWG. NO: SK-3 | 17324S |
| | | | REV: 7 |

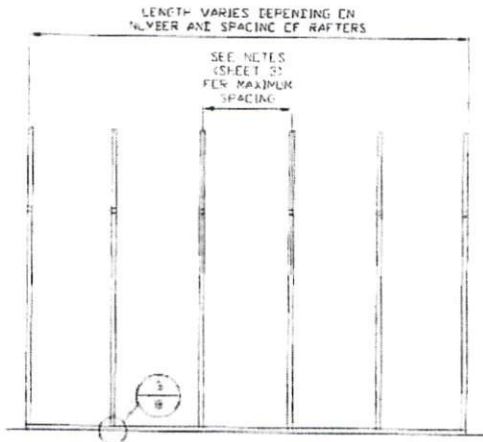
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

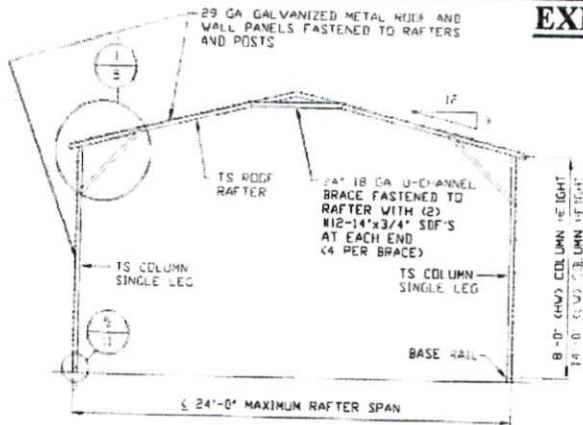


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

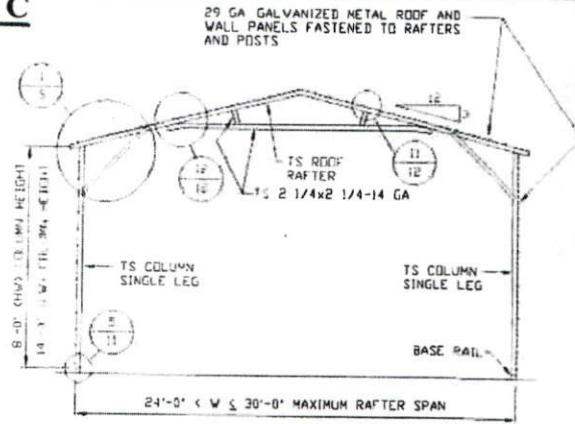


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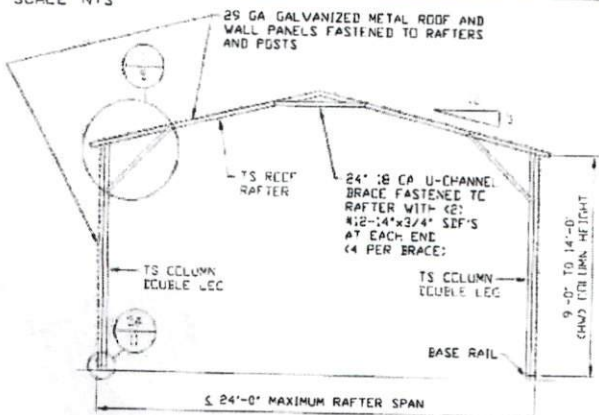
EXPOSURE C



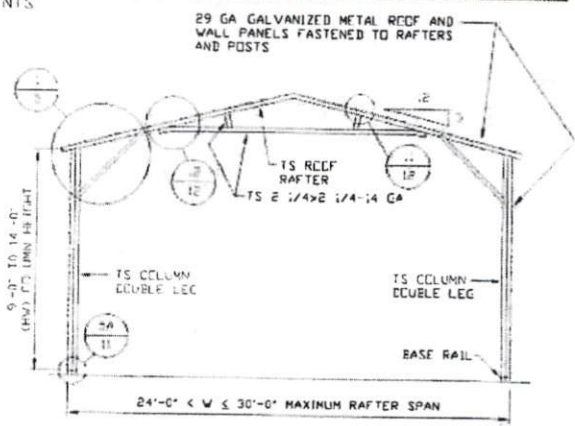
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



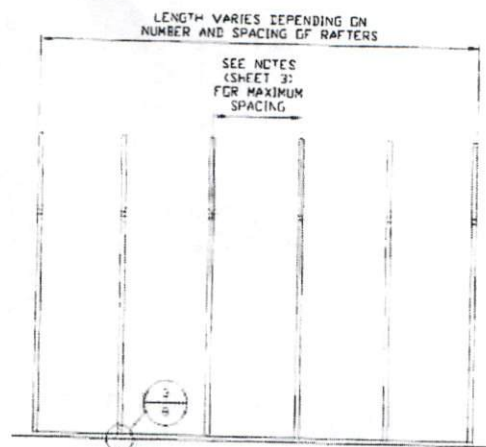
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



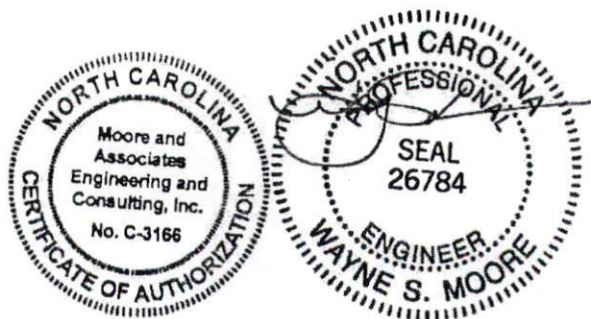
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS



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| PROJECT MGR: VSM | CLIENT: CAROLINA CARPORTS | SHT. 4A | DWG. NO: SK-3 REV. 7 |

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