



Carolina Carports, Inc.

Carports • Buildings • Garages

STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 60'-0" WIDE X 20'-0" EAVE HEIGHT
BOX EAVE FRAME**

14 May 2018

Revision 1

M&A Project No. 16138S/18112S

Prepared for:

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

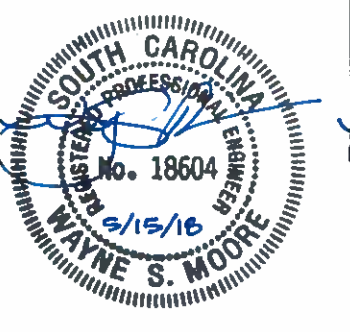
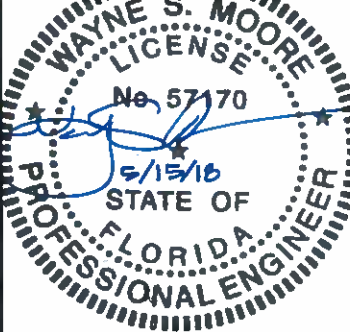

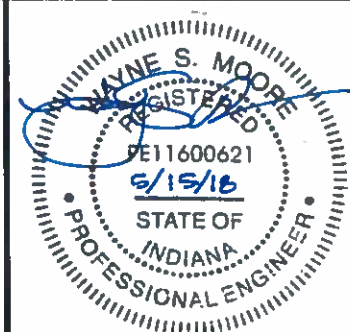
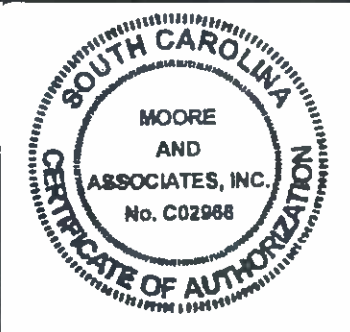
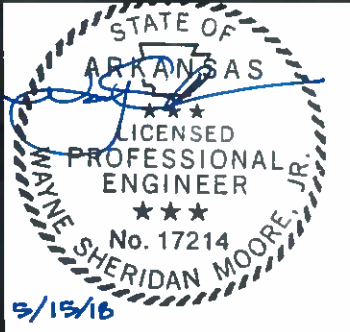
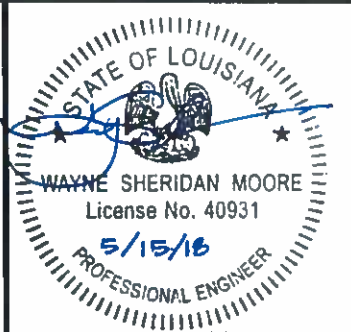
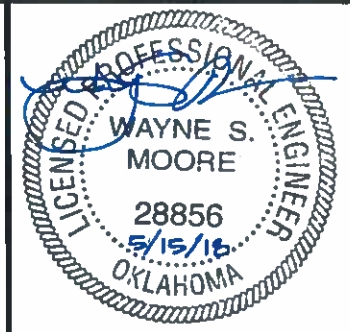

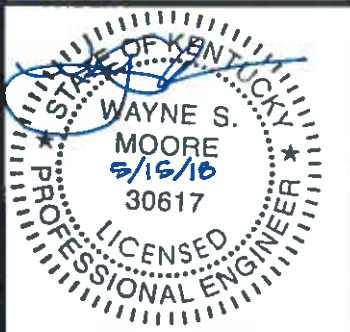
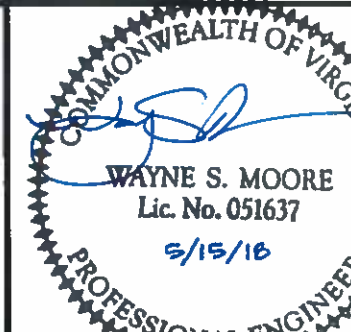
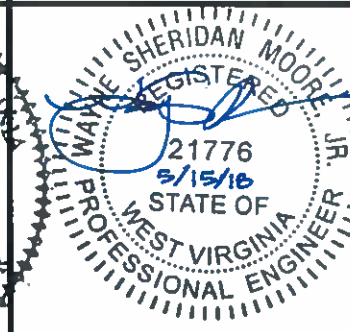
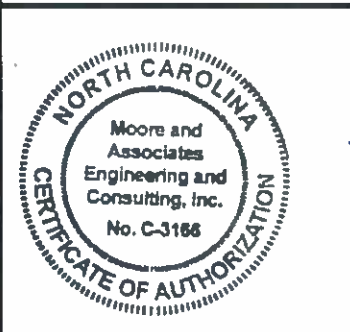
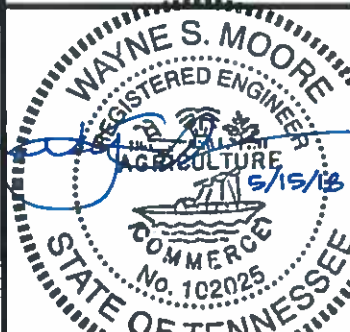
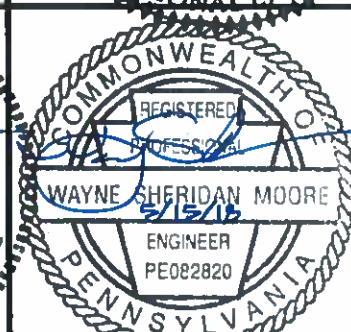
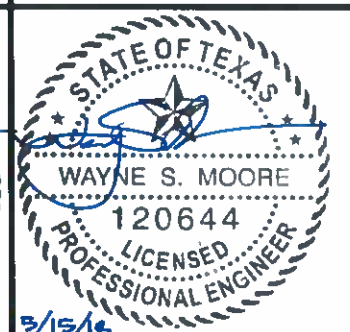

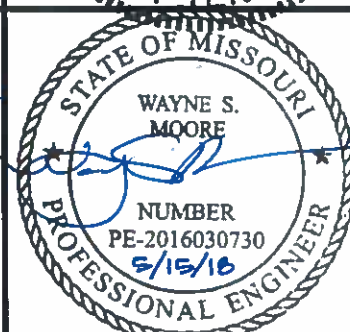
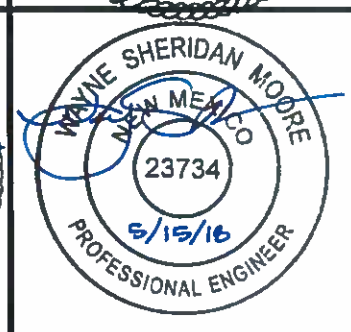
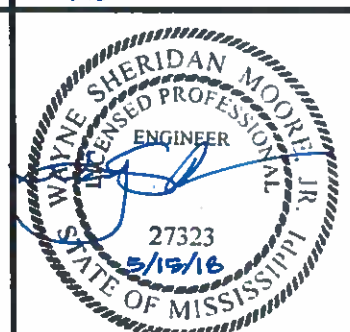
Prepared by:

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

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



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

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

DRAWN BY: AST

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 1


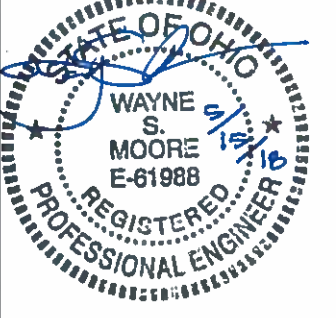

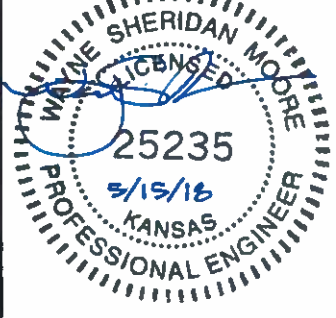
SCALE: NTS

DWG. NO: SK-3

JOB: NO. 16138S/18112S

REV: 1

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	<p>Professional Certification, 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 <u>5/15/16</u></p>		
			
			
			

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	<p>CHECKED BY: PDH</p>	<p>PROJECT MGR: WSM</p>	<p>DATE: 5-14-18</p>	<p>SCALE: NTS</p>
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DRAWING INDEX

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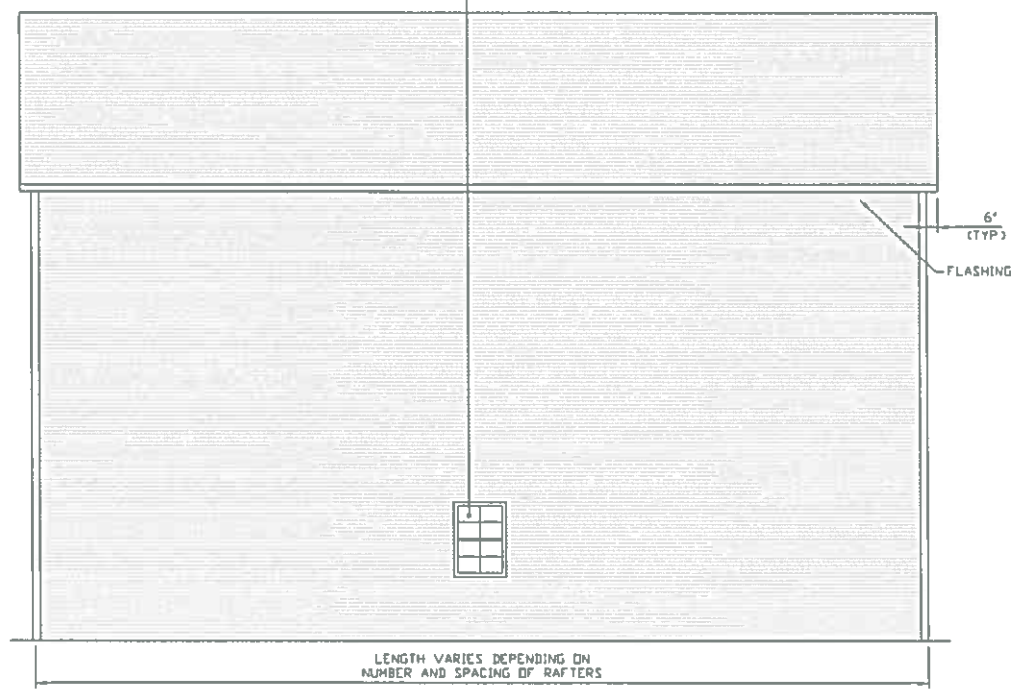
INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 60'-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 = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
4. 3-SECOND GUST ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET.
5. 3-SECOND GUST ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH); MAXIMUM RAFTER/POST AND END POST SPACING = 4.0 FEET.
6. RISK CATEGORY I.
7. WIND EXPOSURE CATEGORY B AND 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" O.C (LW) OR 6" O.C (HW).
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. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES AND ENDS.
12. GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG MAY BE USED FOR LOW WIND ONLY AND IN SUITABLE SOIL CONDITIONS.
13. OPTIONAL BASE RAIL ANCHORAGE MAY BE USED FOR BOTH LOW AND HIGH WIND IN SUITABLE SOILS AND MUST BE USED FOR HIGH WIND IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R = 325 I_E = 1.0
 - S_{ps} = 2.039 V = C_sW
 - S_{d1} = 1.258
15. DOOR AND WINDOW PRESSURES ARE APPLICABLE TO STATE OF FLORIDA.

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BOX EAVE FRAME RAFTER ENCLOSED BUILDING

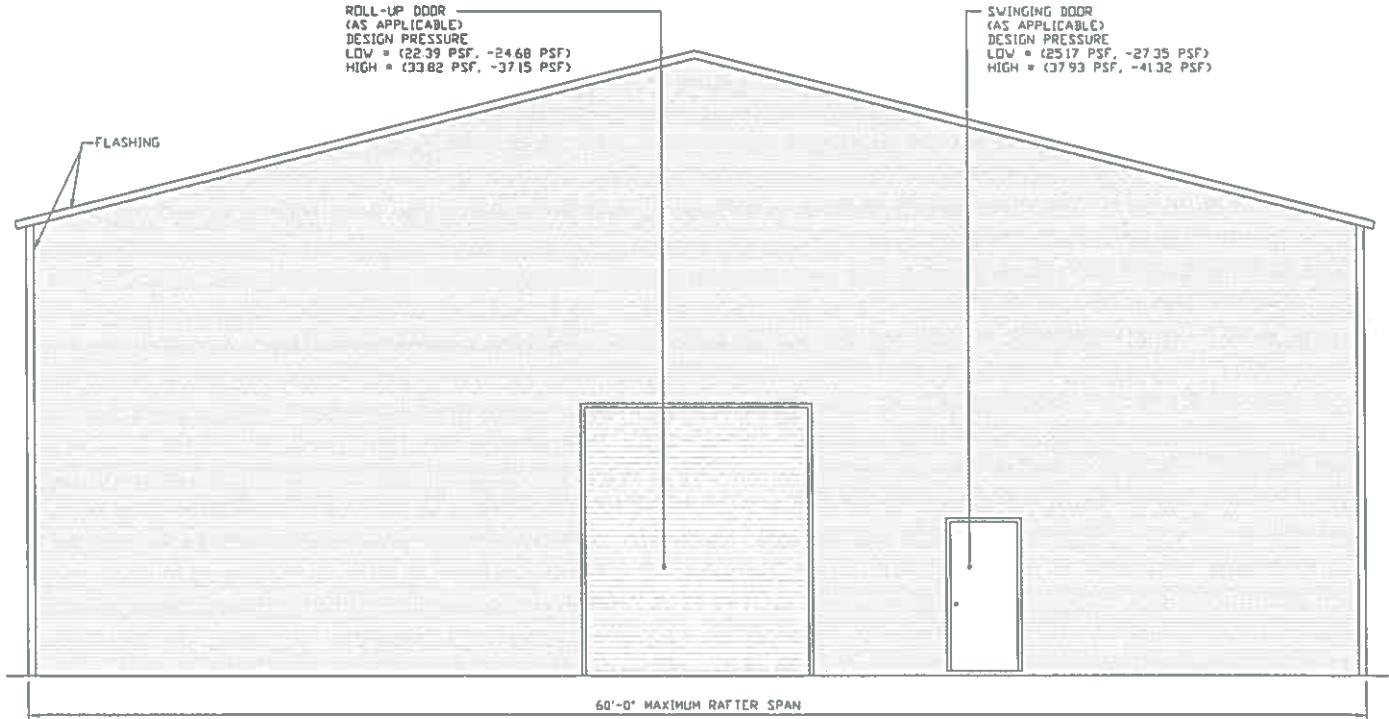
WINDOW (AS APPLICABLE)
 DESIGN PRESSURE
 LDW = (26.38 PSF, -35.21 PSF)
 HIGH = (39.75 PSF, -49.55 PSF)



TYPICAL SIDE ELEVATION
 SCALE: NTS

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BOX EAVE FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION
SCALE: NTS

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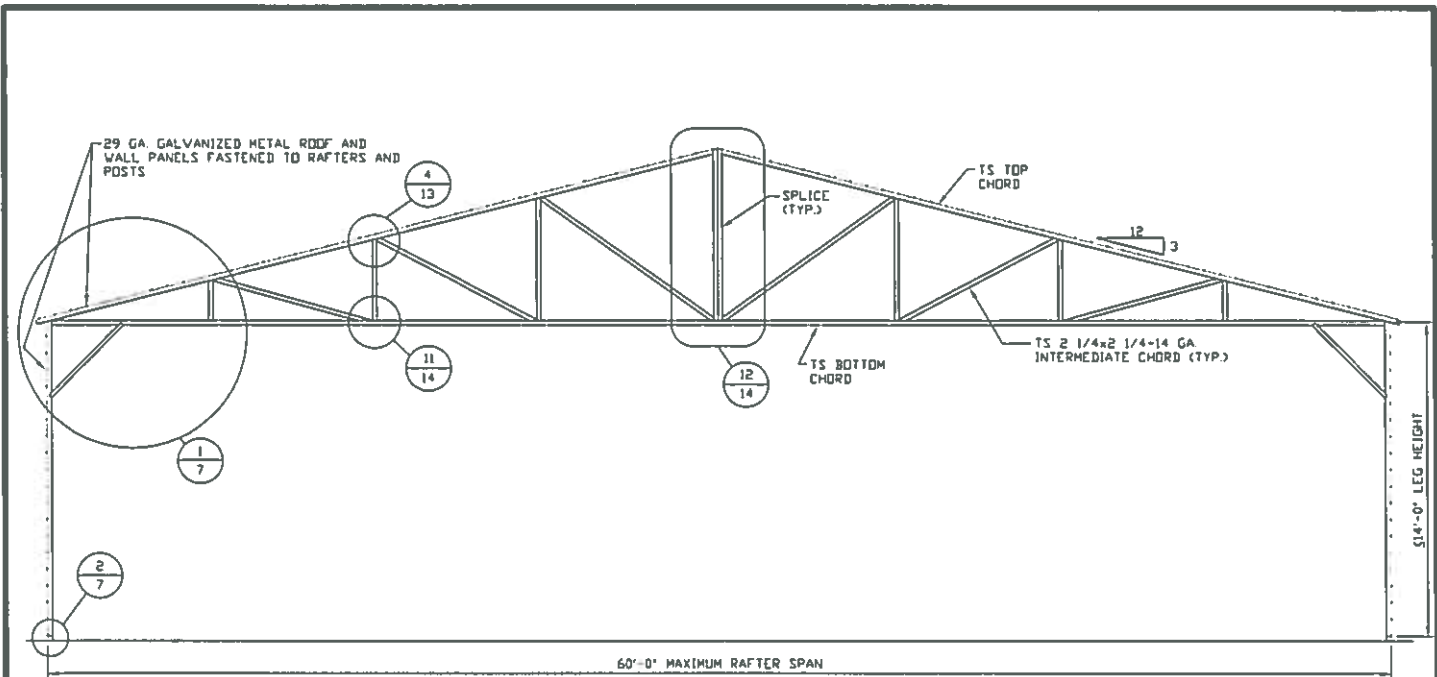
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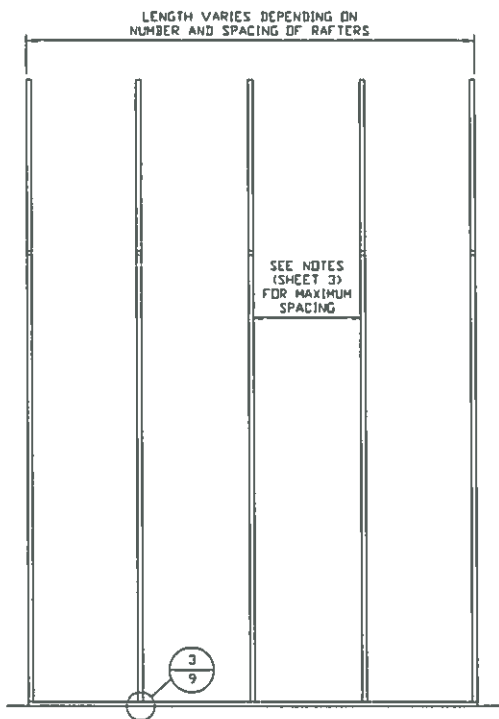
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CLIENT: CCI

DATE: 5-14-18
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SCALE: NTS
DVG. NO: SK-3
JOB: NO. 161385/181125
REV: 1

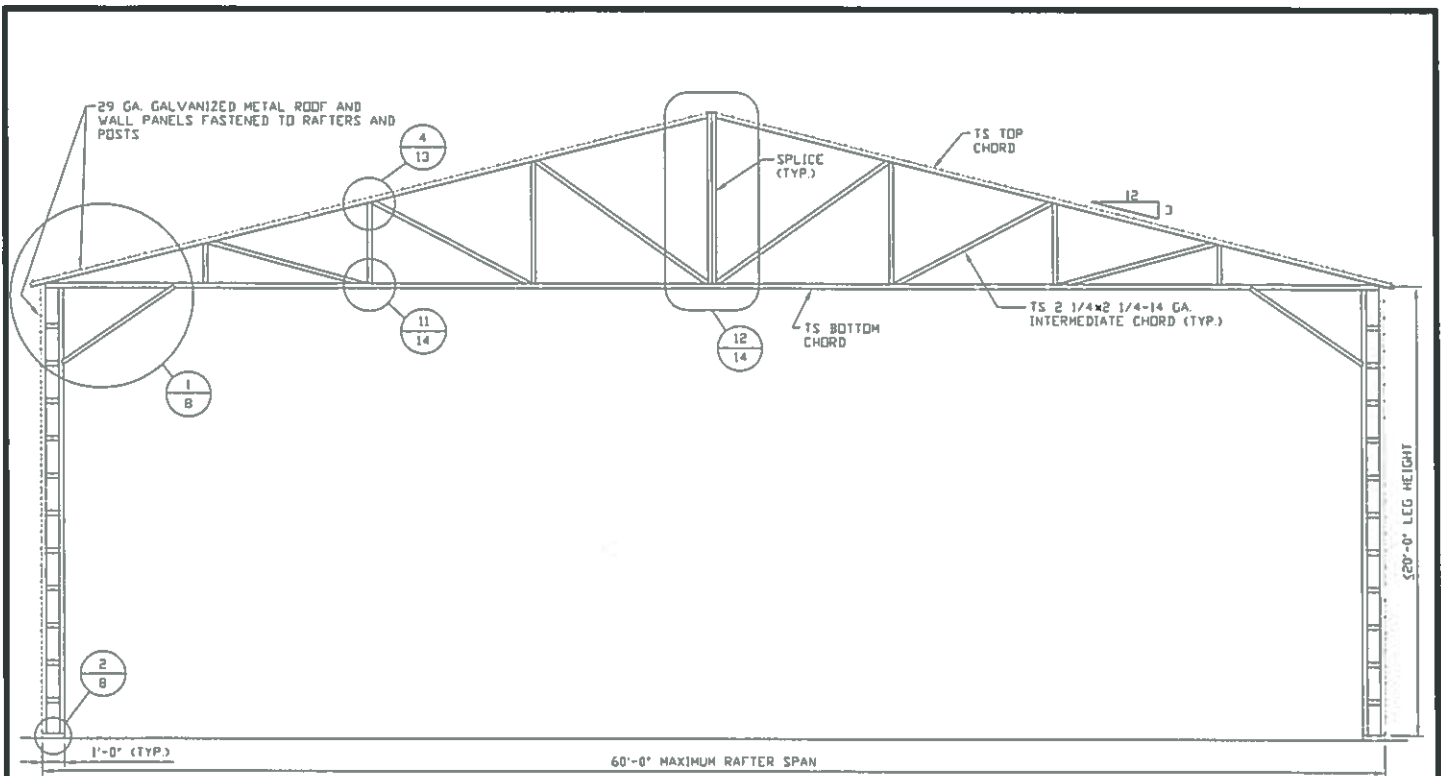


TYPICAL RAFTER/POST FRAME SECTION
SCALE: NTS



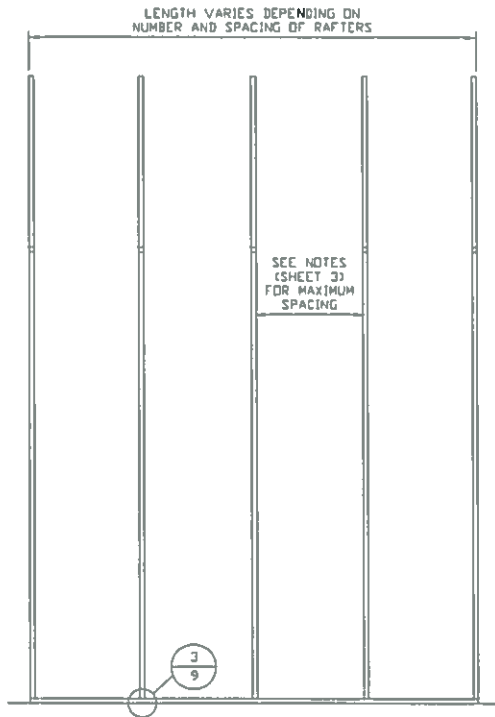
TYPICAL RAFTER/POST SIDE FRAMING SECTION
SCALE: NTS

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	CLIENT: CCI	SHT. 5	DVG. NO: SK-3	REV: 1



TYPICAL RAFTER/POST FRAME SECTION

SCALE: NTS



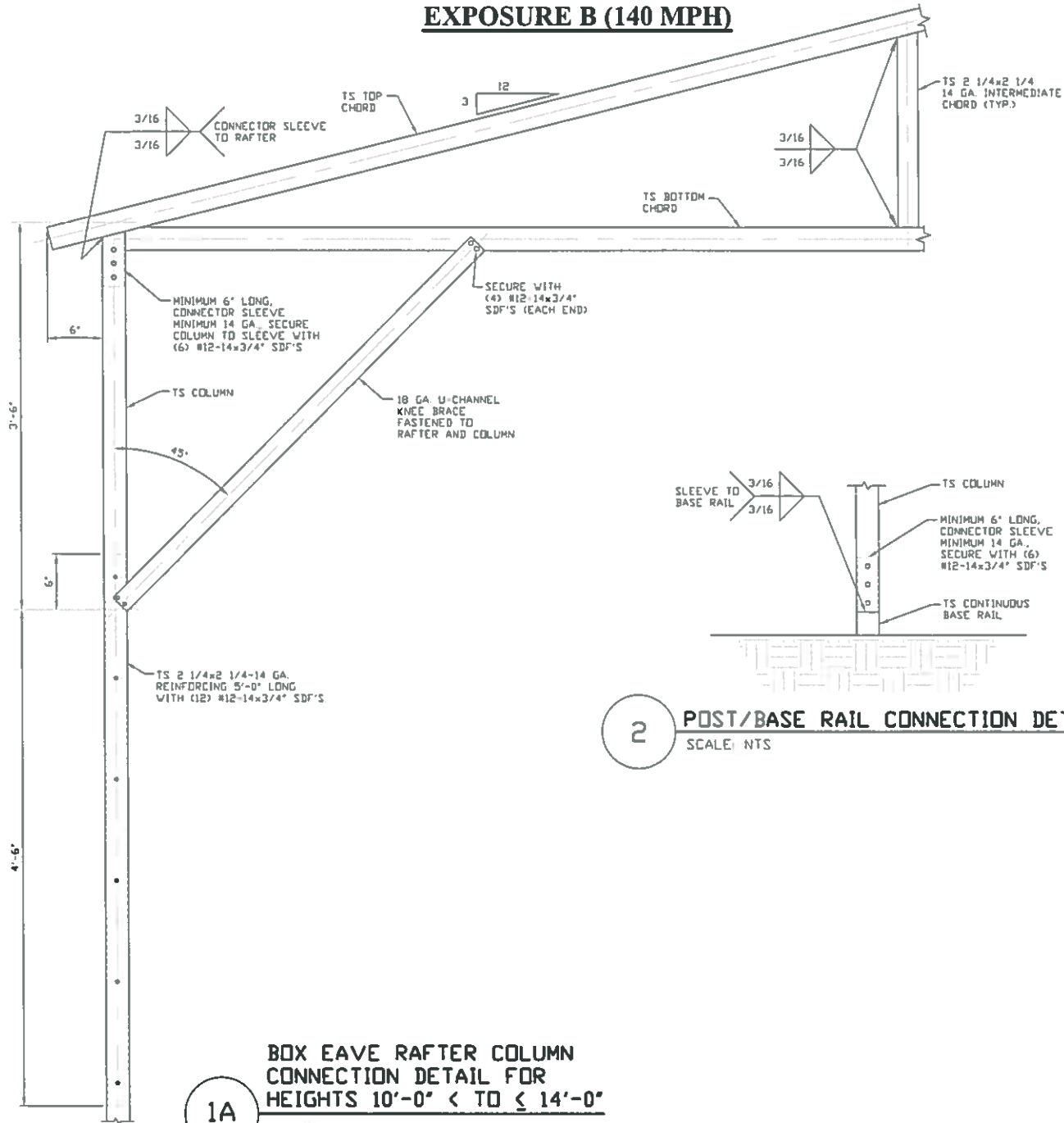
TYPICAL RAFTER/POST SIDE FRAMING SECTION

SCALE: NTS

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EXPOSURE B (140 MPH)



1A

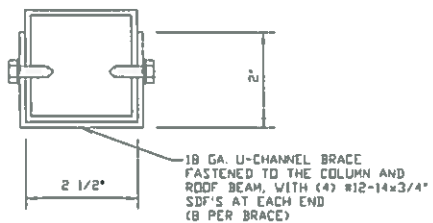
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 14'-0"

SCALE: NTS

2

POST/BASE RAIL CONNECTION DETAIL

SCALE: NTS



BRACE SECTION

SCALE: NTS

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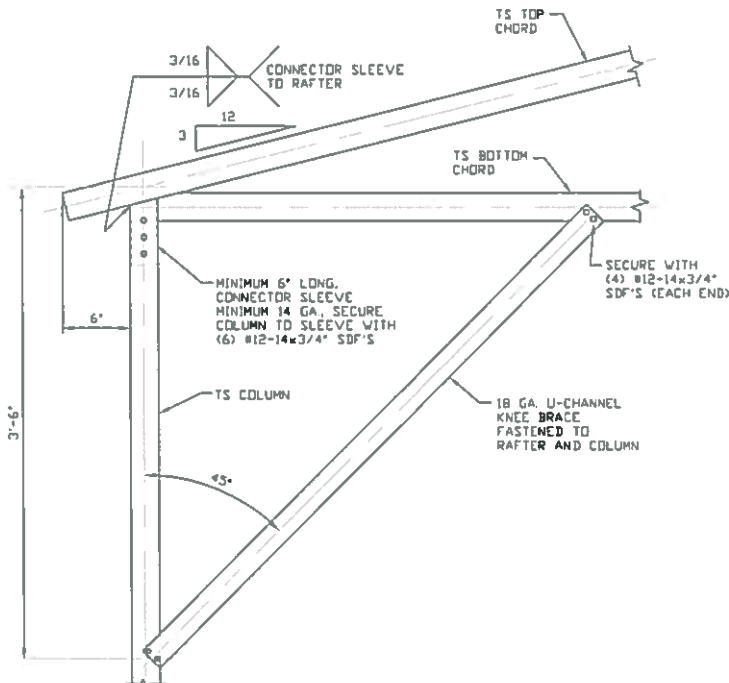
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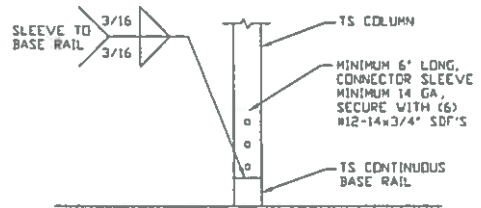
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CLIENT: CCI	SHT. 7	DWG. NO: SK-3	REV: 1

EXPOSURE B (140 MPH)



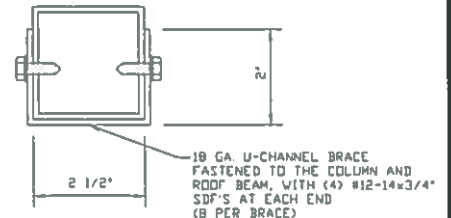
1B

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO <= 10'-0"
SCALE: NTS

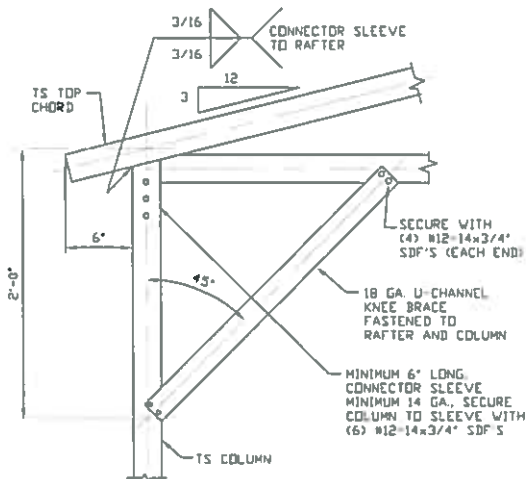


2

POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



BRACE SECTION
SCALE: NTS



1C

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

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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PROJECT MGR: WSM

CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 7A

SCALE: NTS

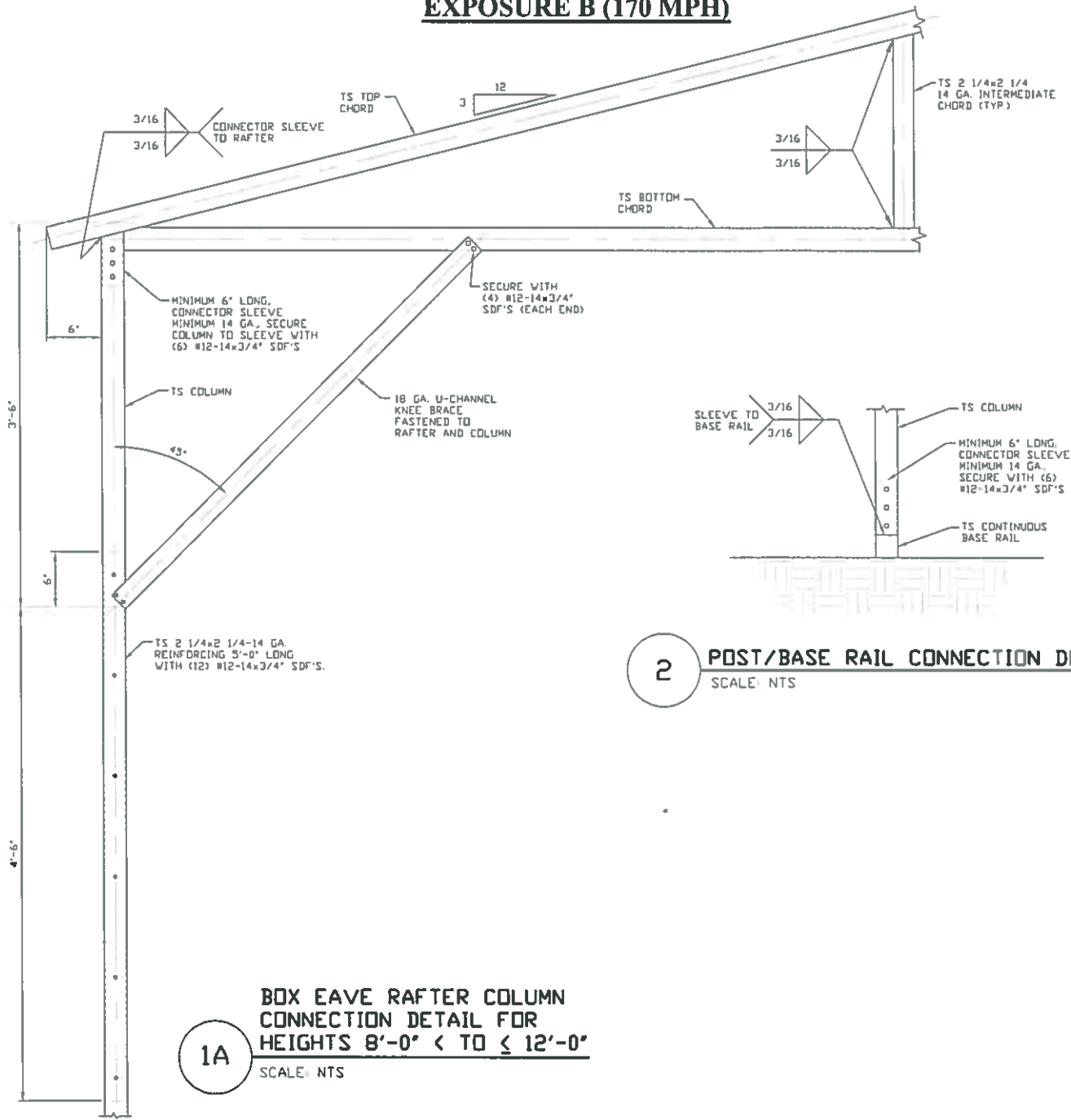
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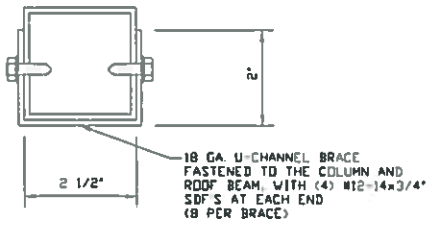
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EXPOSURE B (170 MPH)



2 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS

1A BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 12'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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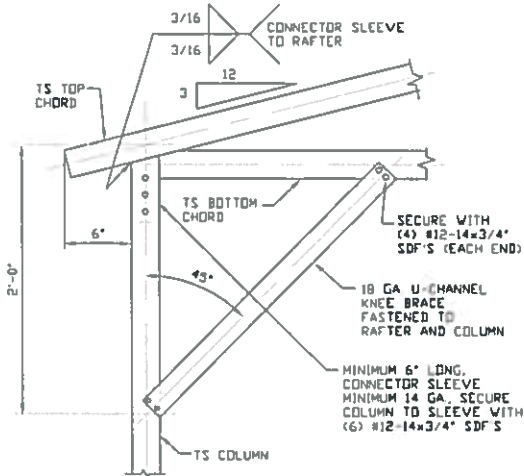
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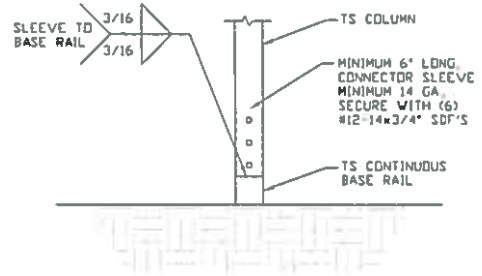
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CLIENT: CCI	SHT. 7B	DWG. NO: SK-3	REV: 1

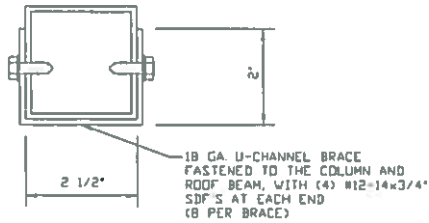
EXPOSURE B (170 MPH)



1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 8'-0"
 SCALE: NTS



2
POST/BASE RAIL CONNECTION DETAIL
 SCALE: NTS



BRACE SECTION
 SCALE: NTS

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

DRAWN BY: AST

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CCI

**CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 7C

SCALE: NTS

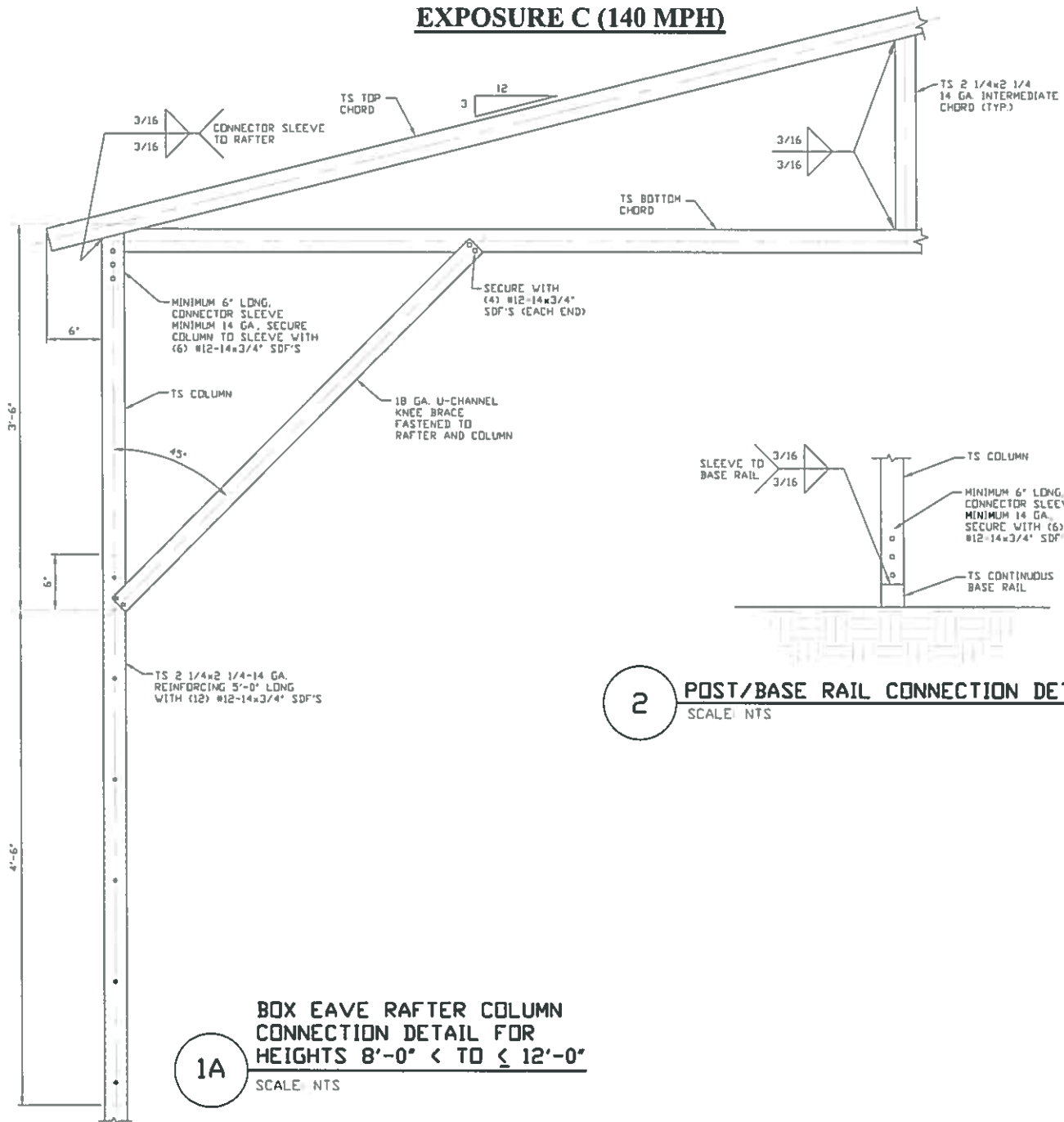
DWG. NO: SK-3

JOB: NO. 161385/181125

REV: 1

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EXPOSURE C (140 MPH)

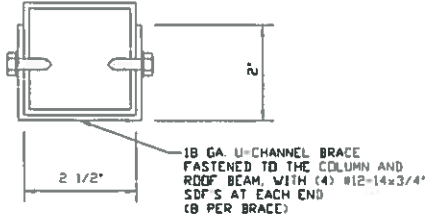


2

POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS

1A

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

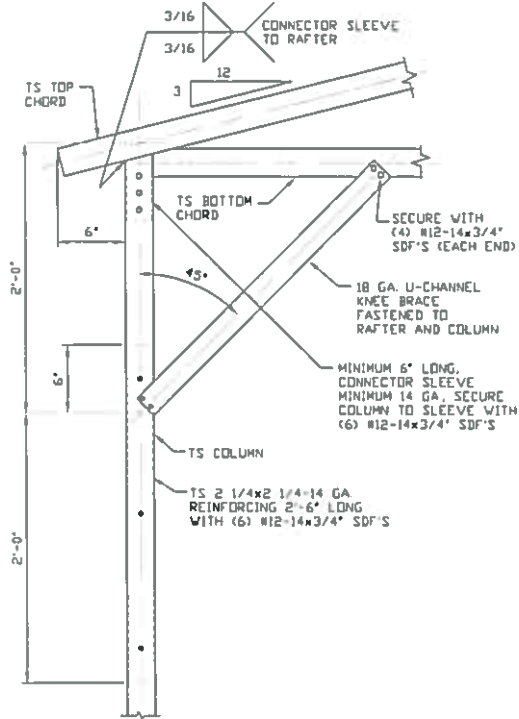


BRACE SECTION
SCALE: NTS

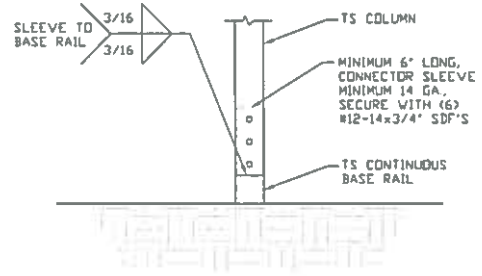
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: AST	CAROLINA CARPORTS, INC. 187 CARDINAL RIDGE TRAIL DOBSON, NC 27017 60'-0"x20'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH			
PROJECT MGR: WSH	DATE: 5-14-18	SCALE: NTS	JOB NO. 161385/181125	
CLIENT: CCI	SHT. 7B	DWG. NO. SK-3	REV. 1	

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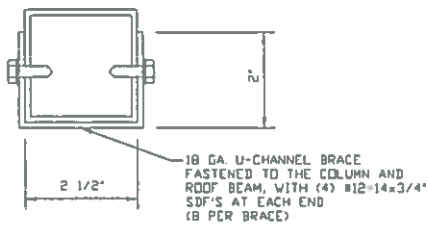
EXPOSURE C (140 MPH)



1B BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \leq 8'-0"
SCALE: NTS



2 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



BRACE SECTION
SCALE: NTS

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

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CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 7E

SCALE: NTS

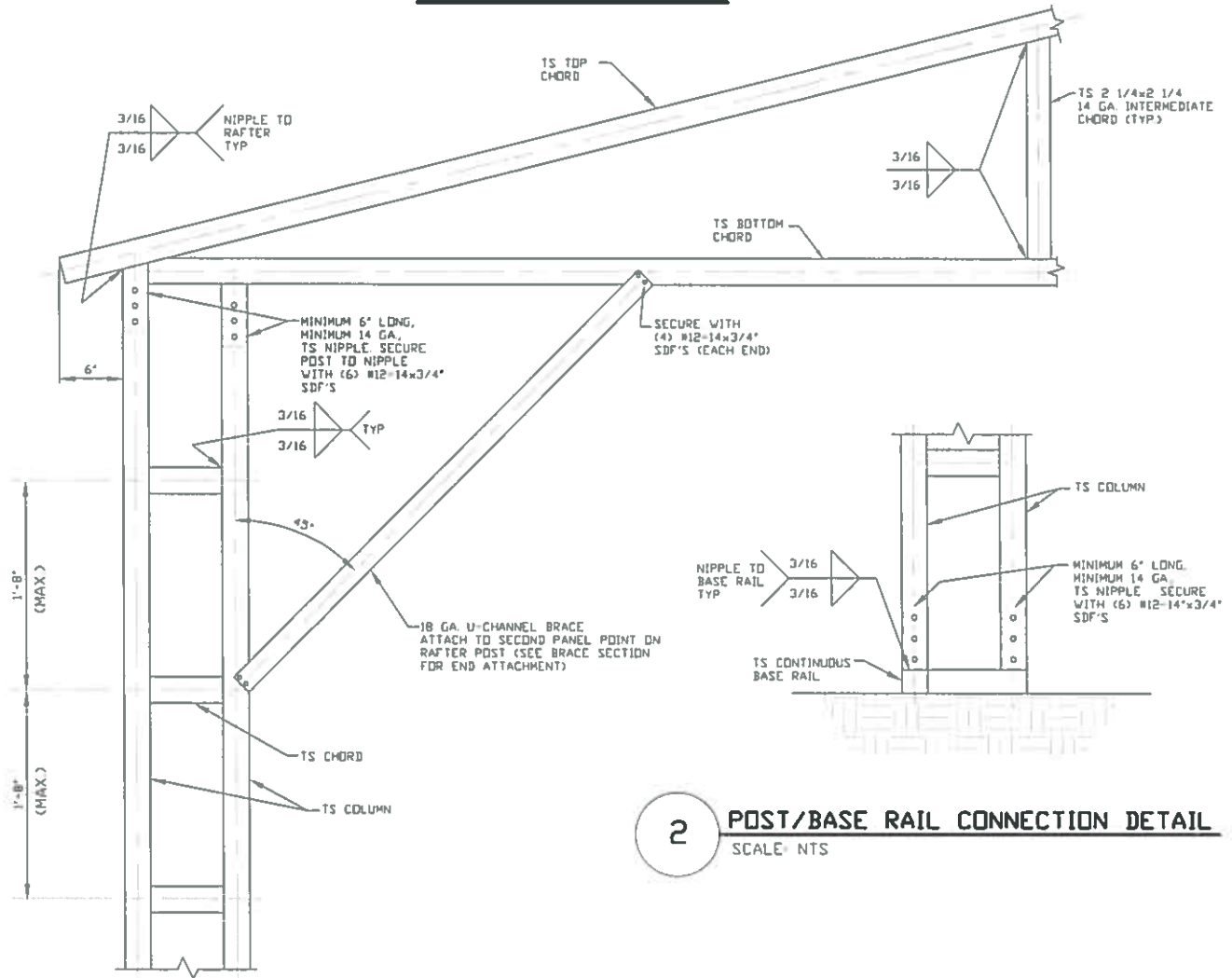
DWG. NO: SK-3

JOB: NO. 16138S/18112S

REV: 1

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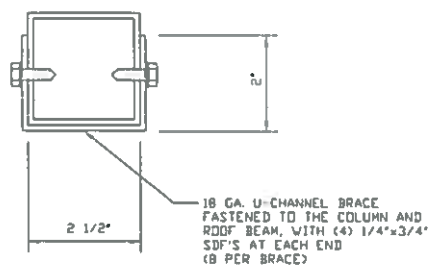
LACED LEG OPTION



2 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS

BOX EAVE RAFTER/CORNER
 HEIGHTS 14'-0" < TO ≤ 20'-0" (EXP. B, 140 MPH)
 HEIGHTS 12'-0" < TO ≤ 20'-0" (EXP. B, 170 MPH)
 HEIGHTS 12'-0" < TO ≤ 20'-0" (EXP. C, 140 MPH)
 HEIGHTS ≤ 20'-0" (EXP. C, 170 MPH)

1 COLUMN CONNECTION DETAIL
SCALE: NTS



BRACE SECTION
SCALE: NTS

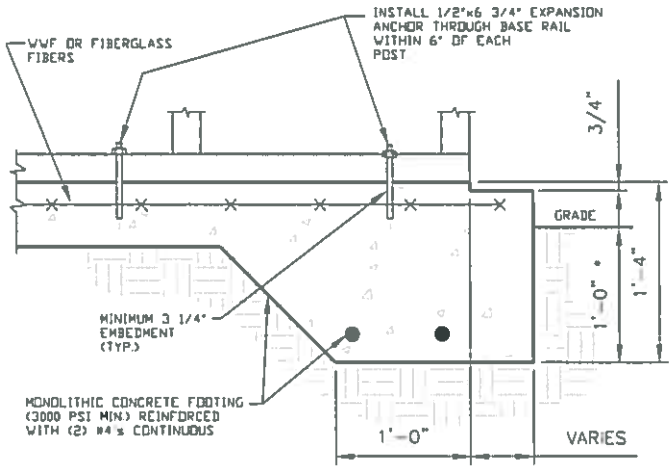
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PROJECT MGR: WSM
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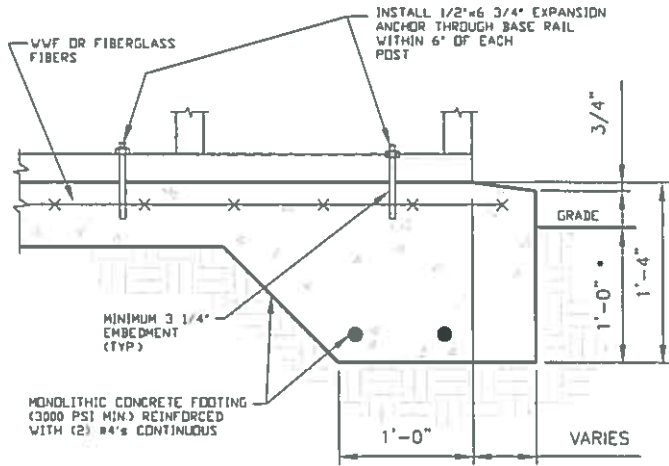
CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE
DATE: 5-14-18
SCALE: NTS
JOB: NO. 161385/181125
SHT. B
DWG. NO: SK-3
REV: 1

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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/ORDINANCES



**3B CONCRETE SLAB BASE
RAIL ANCHORAGE**
SCALE: NTS
(MINIMUM ANCHOR EDGE DISTANCE IS 4")
* COORDINATE WITH LOCAL CODES/ORDINANCES

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 INCHES 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 INCHES 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:

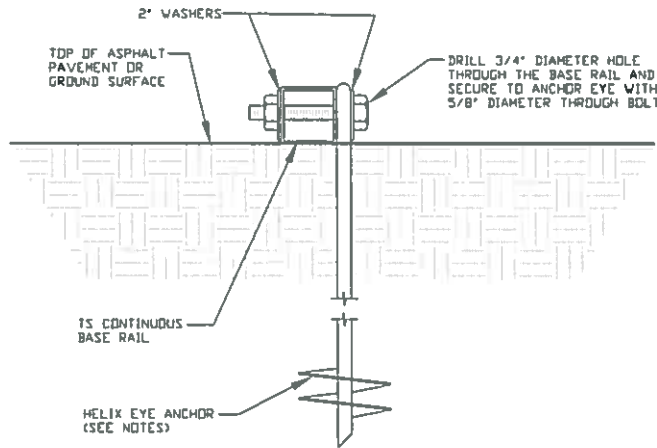
- 1 REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
- 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

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 INCH EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6" HELICES WITH MINIMUM 50 INCH 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 INCH EMBEDMENT.

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	CHECKED BY: PDH	PROJECT MGR: WSM	DATE: 5-14-18	SCALE: NTS
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BASE RAIL ANCHORAGE OPTIONS



3C

GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

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CHECKED BY: PDM

PROJECT MGR: WSM

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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 9A

SCALE: NTS

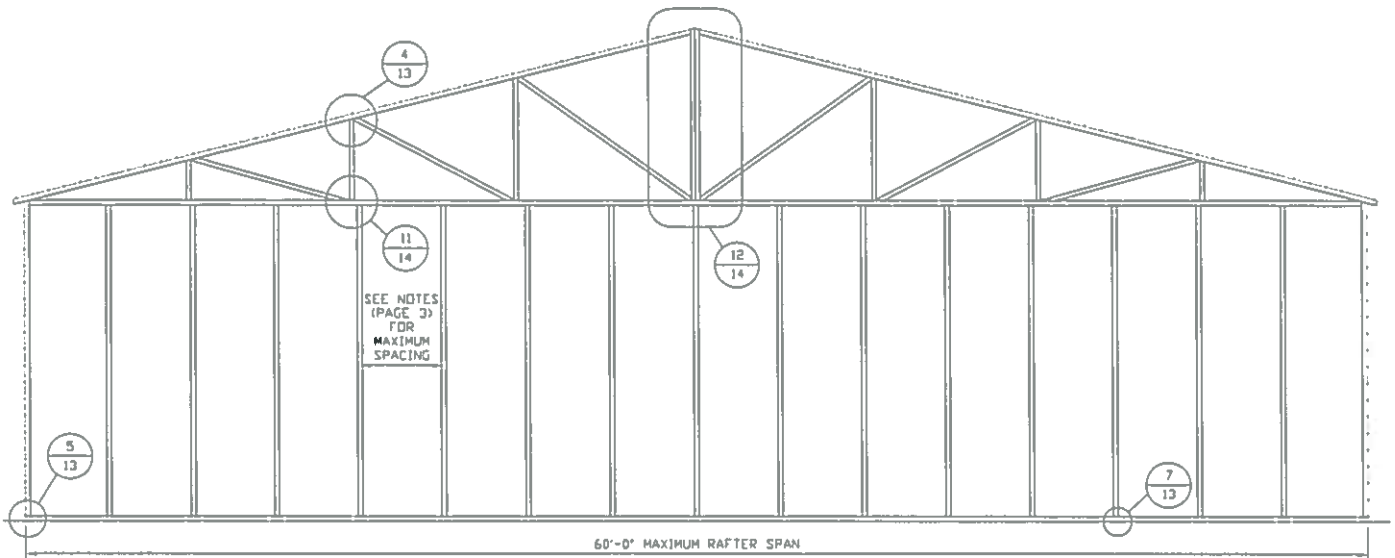
DWG. NO: SK-3

JOB: NO. 16138S/18112S

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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 10

SCALE: NTS

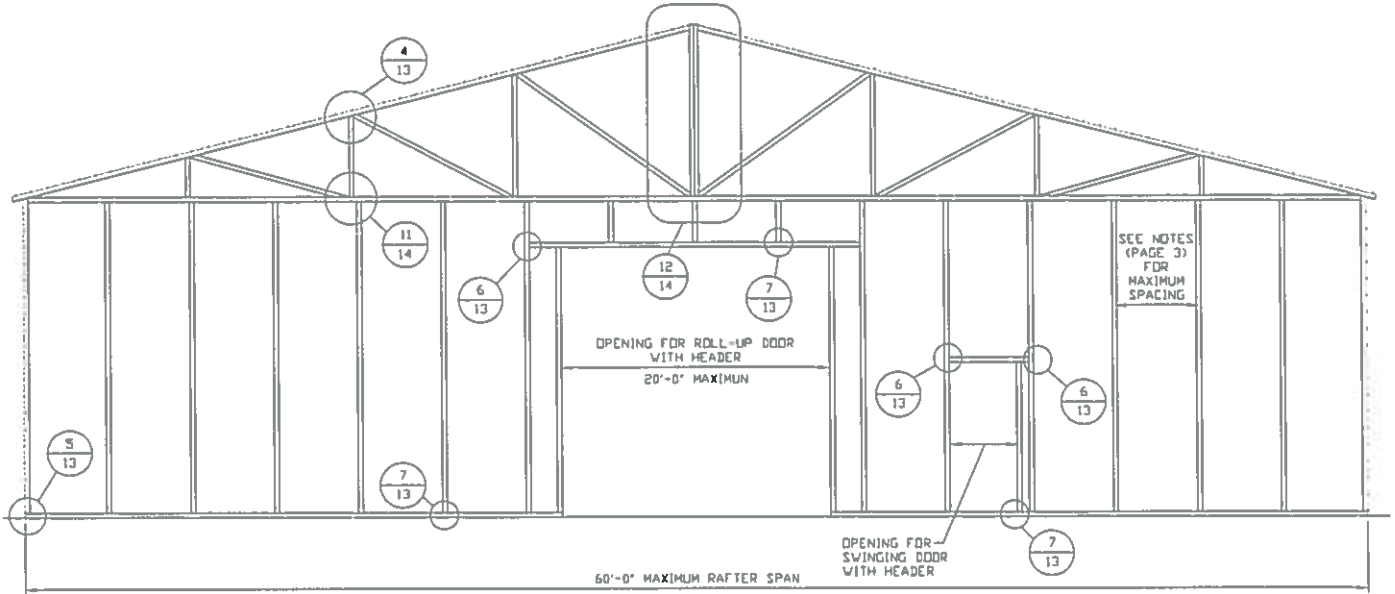
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



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

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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 10A

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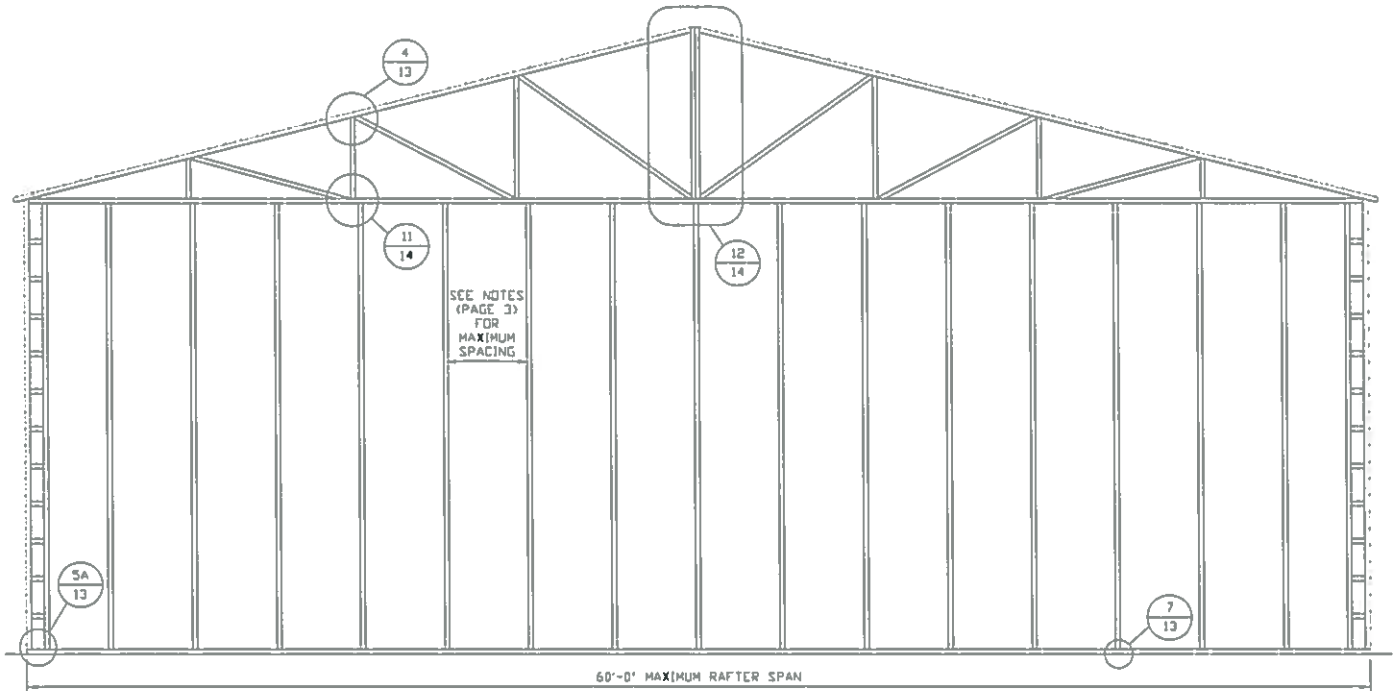
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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0"x20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 11

SCALE: NTS

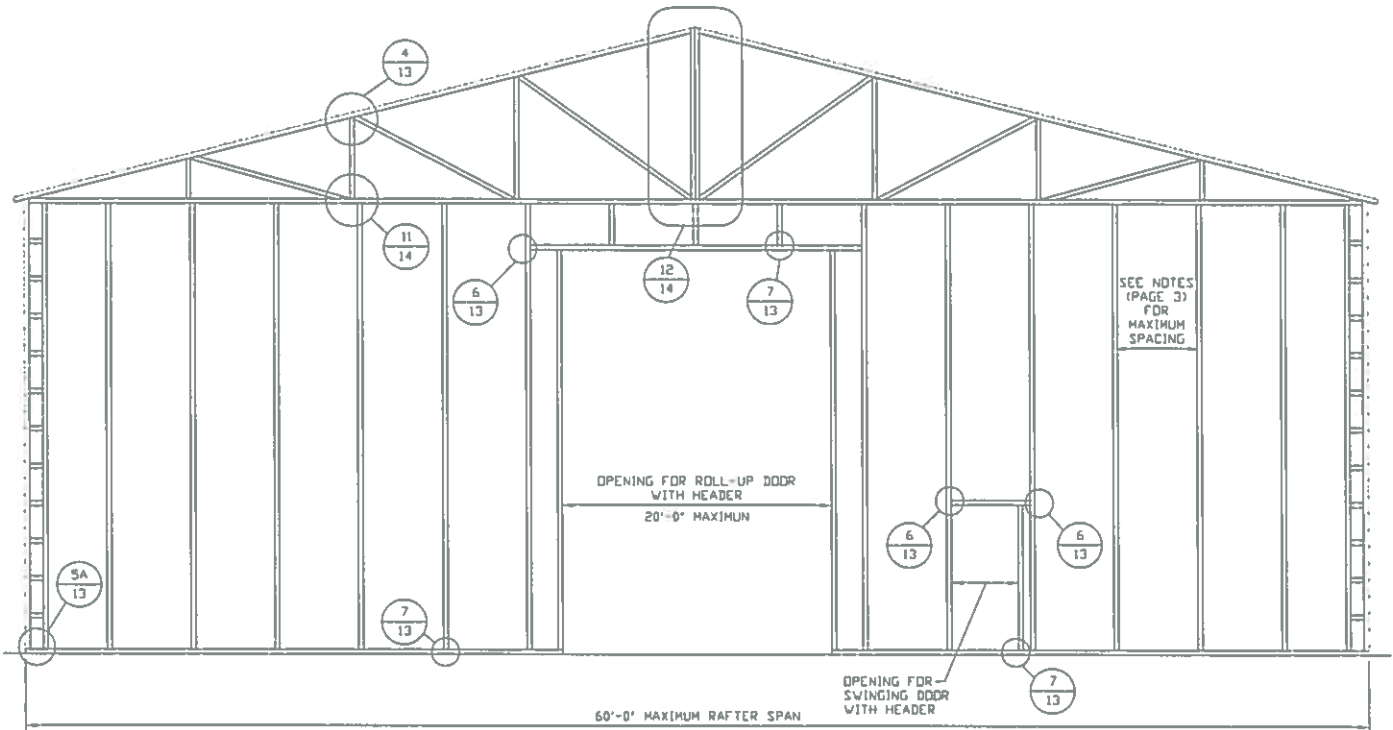
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JOB NO. 16138S/18112S

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BOX EAVE RAFTER END WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

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CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 11A

SCALE: NTS

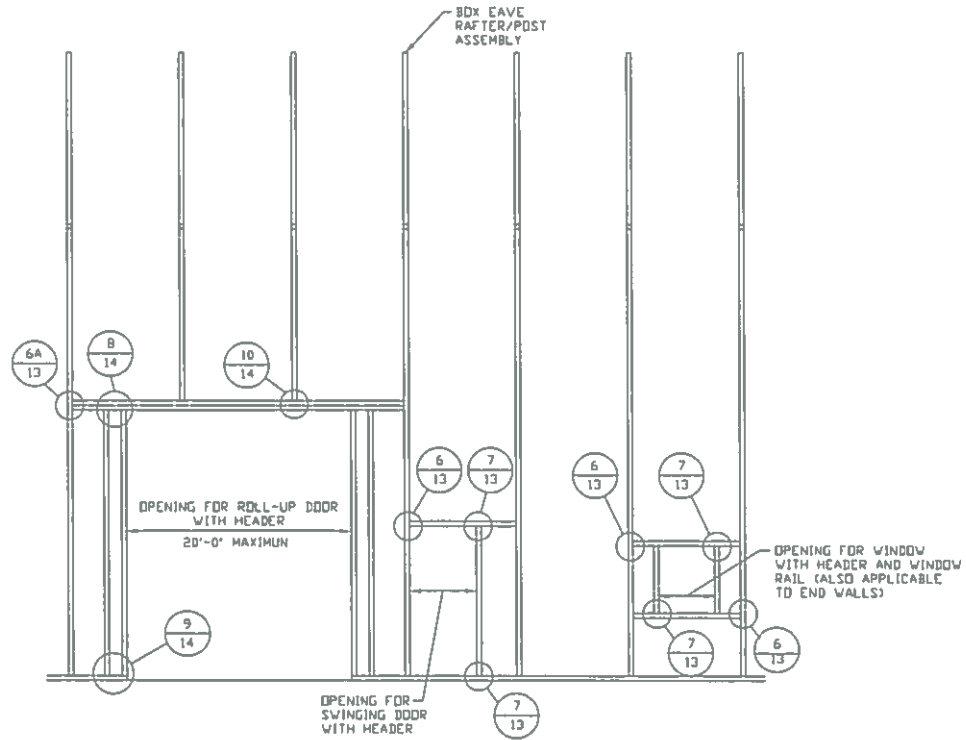
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BOX EAVE RAFTER SIDE WALL AND WALL OPENINGS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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CLIENT: CCI

**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 12

SCALE: NTS

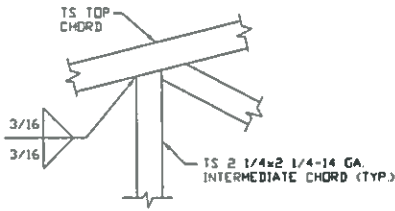
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JOB: NO. 161385/181125

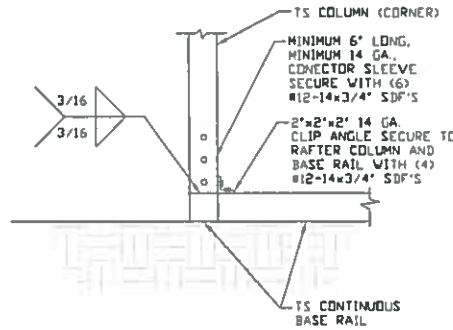
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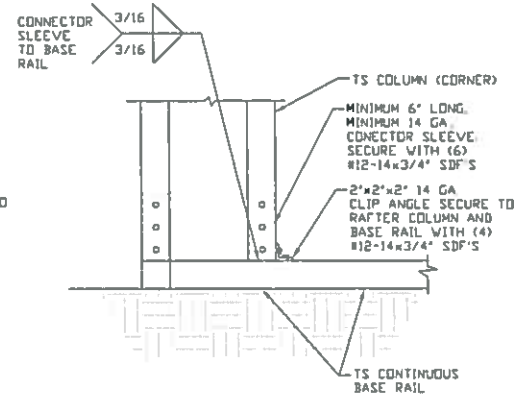
BOX EAVE RAFTER WALL OPENING DETAILS



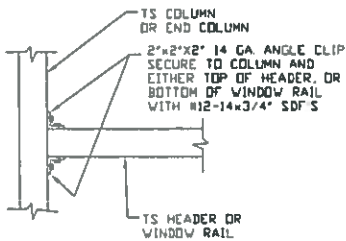
4 INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL
SCALE: NTS



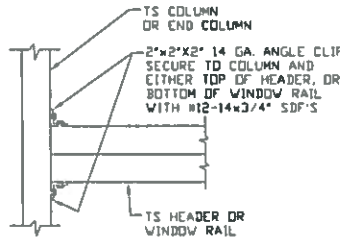
5 END POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



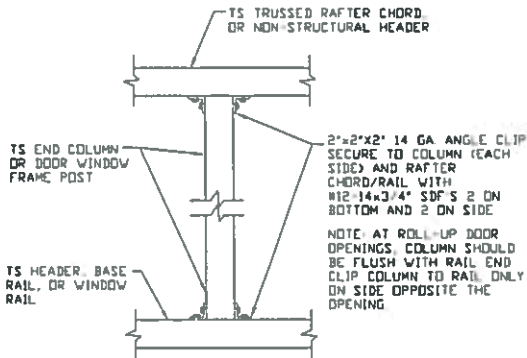
5A END POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



6 HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



6A DOUBLE HEADER POST CONNECTION DETAIL
SCALE: NTS



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

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**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 13

SCALE: NTS

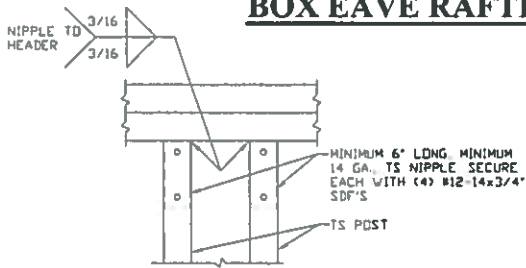
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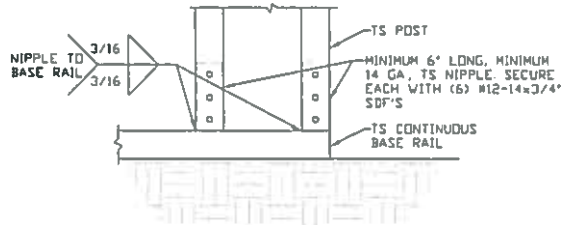
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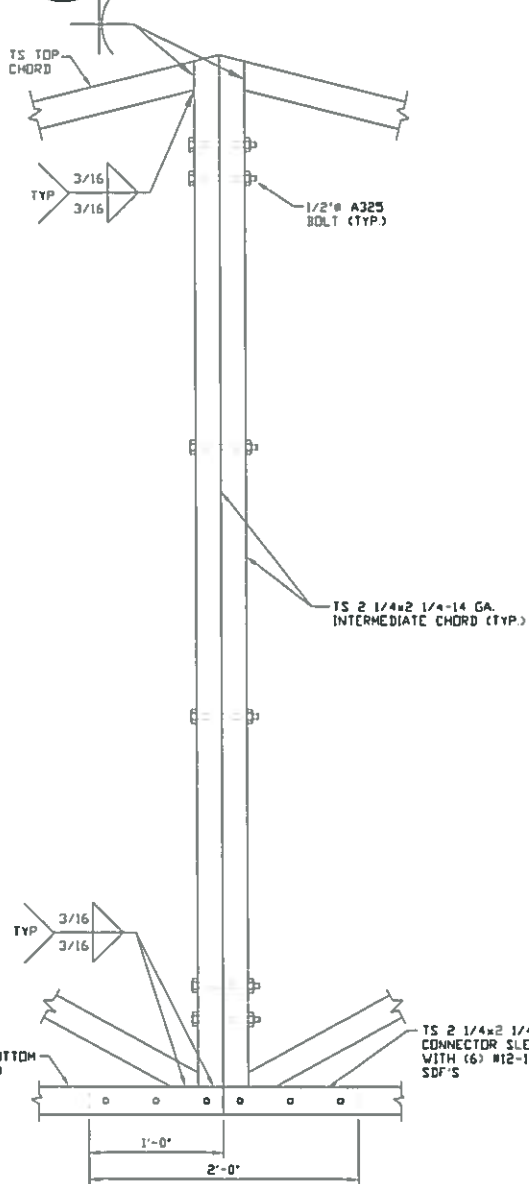
BOX EAVE RAFTER WALL OPENING DETAILS



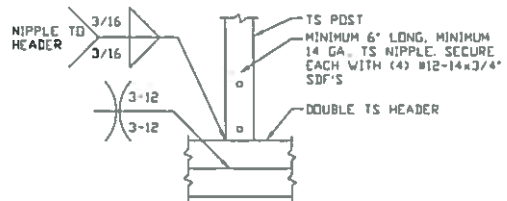
8 DOUBLE HEADER/POST CONNECTION DETAIL
SCALE: NTS



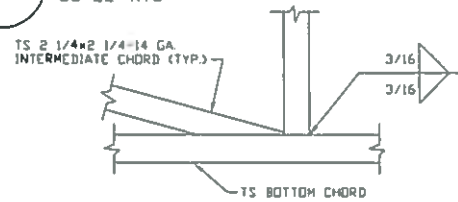
9 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



12 TRUSS SPLICE DETAIL
SCALE: NTS



10 POST/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



11 INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL
SCALE: NTS

**MOORE AND ASSOCIATES
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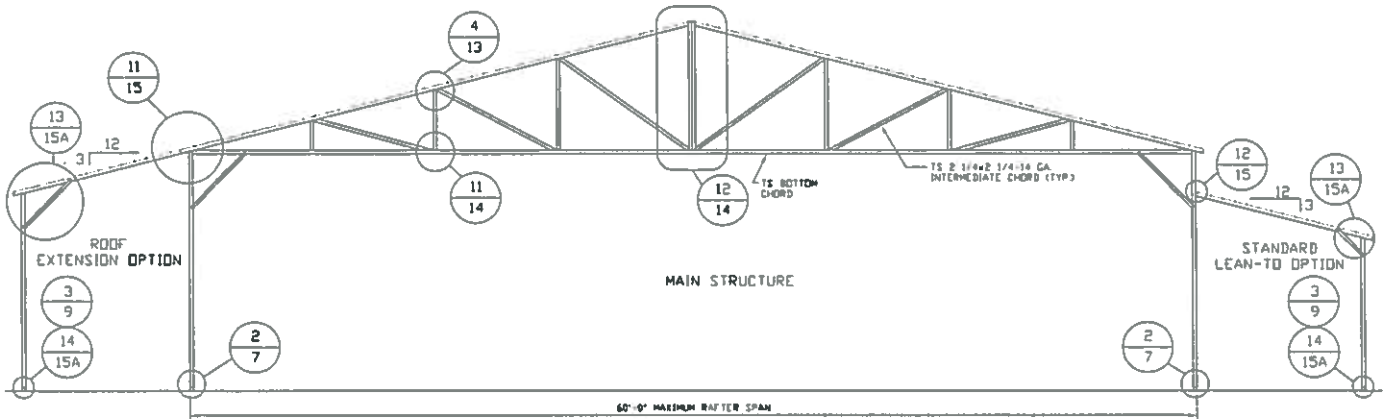
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CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18 **SCALE:** NTS **JOB NO.:** 16138S/18112S
SHT.: 14 **DWG. NO.:** SK-3 **REV.:** 1

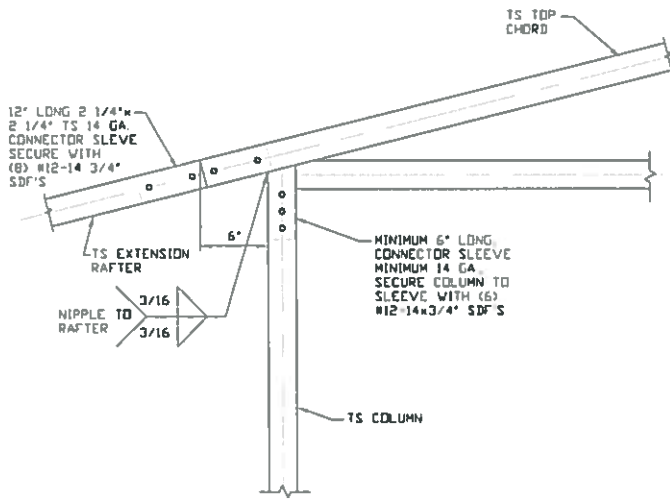
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BOX EAVE RAFTER LEAN-TO OPTIONS

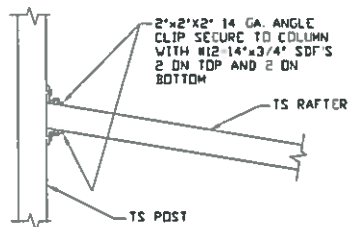


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

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



11 SIDE EXTENSION RAFTER/
 CORNER POST DETAIL
 SCALE: NTS



12 LEAN-TO RAFTER TO RAFTER
 POST CONNECTION DETAIL
 SCALE: NTS

**MOORE AND ASSOCIATES
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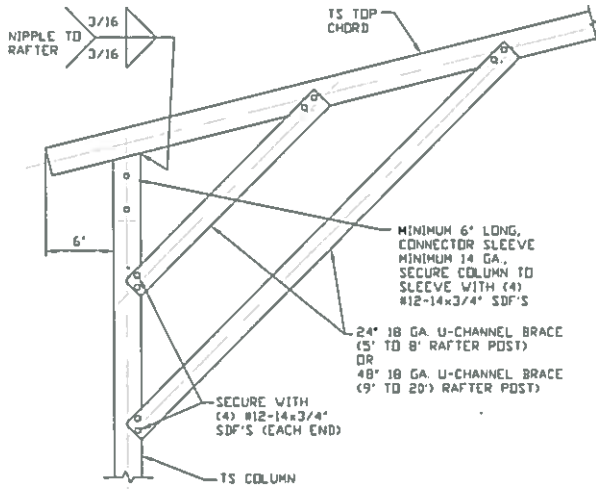
DRAWN BY: AST
 CHECKED BY: PDH

CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE

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PROJECT MGR: WSM	DATE: 5-14-18	SCALE: NTS	JOB: NO. 16138S/18112S
CLIENT: CCI	SHT. 15	DWG. NO: SK-3	REV: 1

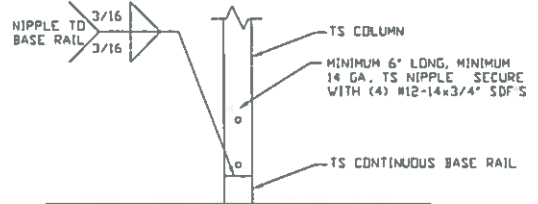
BOX EAVE RAFTER LEAN-TO OPTIONS



13

**LEAN-TO RAFTER/
CORNER POST DETAIL**

SCALE: NTS



14

**LEAN-TO POST
CONNECTION DETAIL**

SCALE: NTS

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

DRAWN BY: AST

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PROJECT MGR: WSM

CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 15A

SCALE: NTS

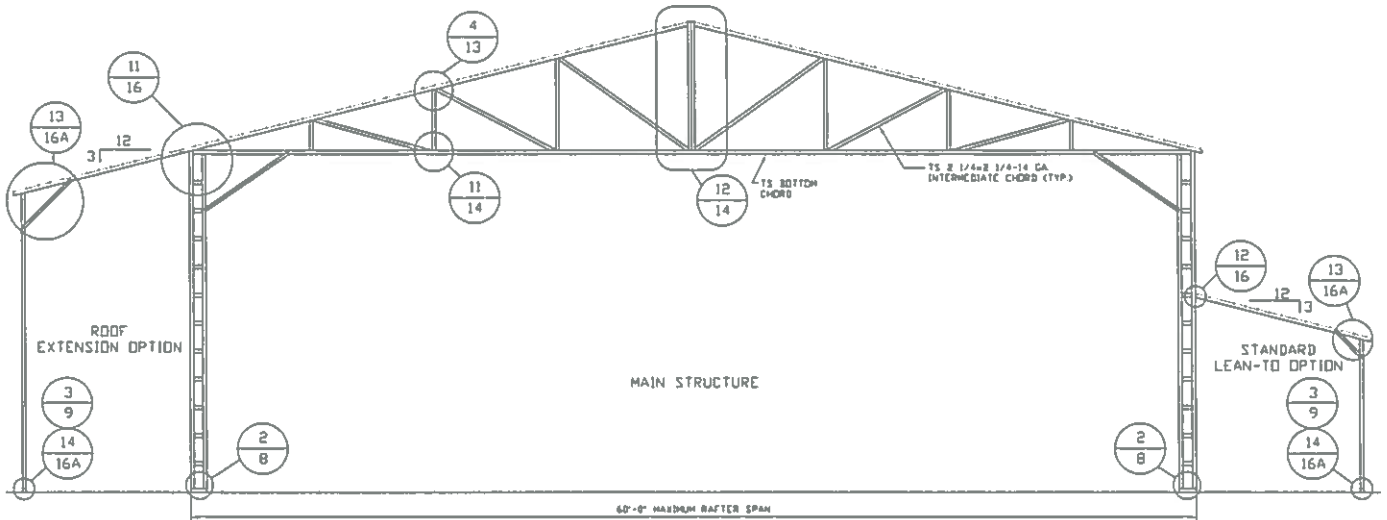
DWG. NO: SK-3

JOB: NO. 161385/181125

REV: 1

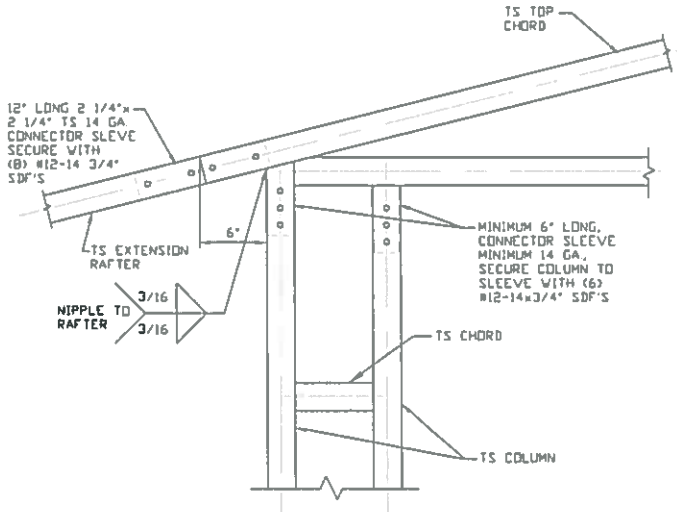
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BOX EAVE RAFTER LEAN-TO OPTIONS

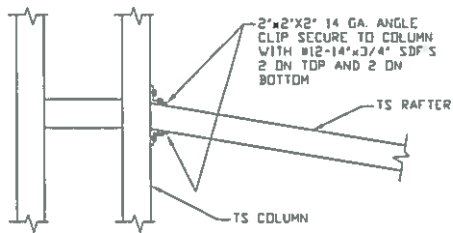


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

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



**11 SIDE EXTENSION RAFTER/
 CORNER POST DETAIL**
 SCALE: NTS



**12 LEAN-TO RAFTER TO RAFTER
 POST CONNECTION DETAIL**
 SCALE: NTS

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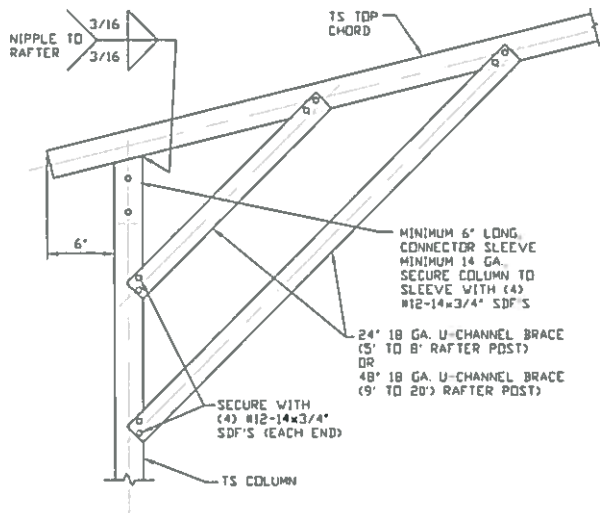
DRAWN BY: AST
CHECKED BY: PDH

CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE

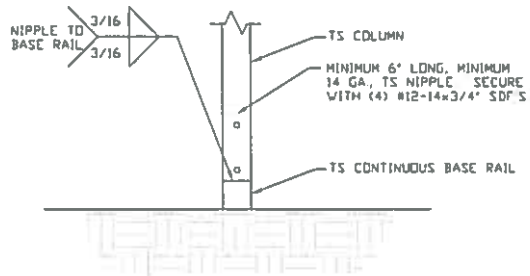
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PROJECT MGR: WSH	DATE: 5-14-18	SCALE: NTS	JOB: NO. 16138S/18112S
CLIENT: CCI	SHT. 16	DWG. NO: SK-3	REV: 1

BOX EAVE RAFTER LEAN-TO OPTIONS



13
**LEAN-TO RAFTER/
 CORNER POST DETAIL**
 SCALE: NTS



14
**LEAN-TO POST
 CONNECTION DETAIL**
 SCALE: NTS

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 ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CCI

**CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 16A

SCALE: NTS

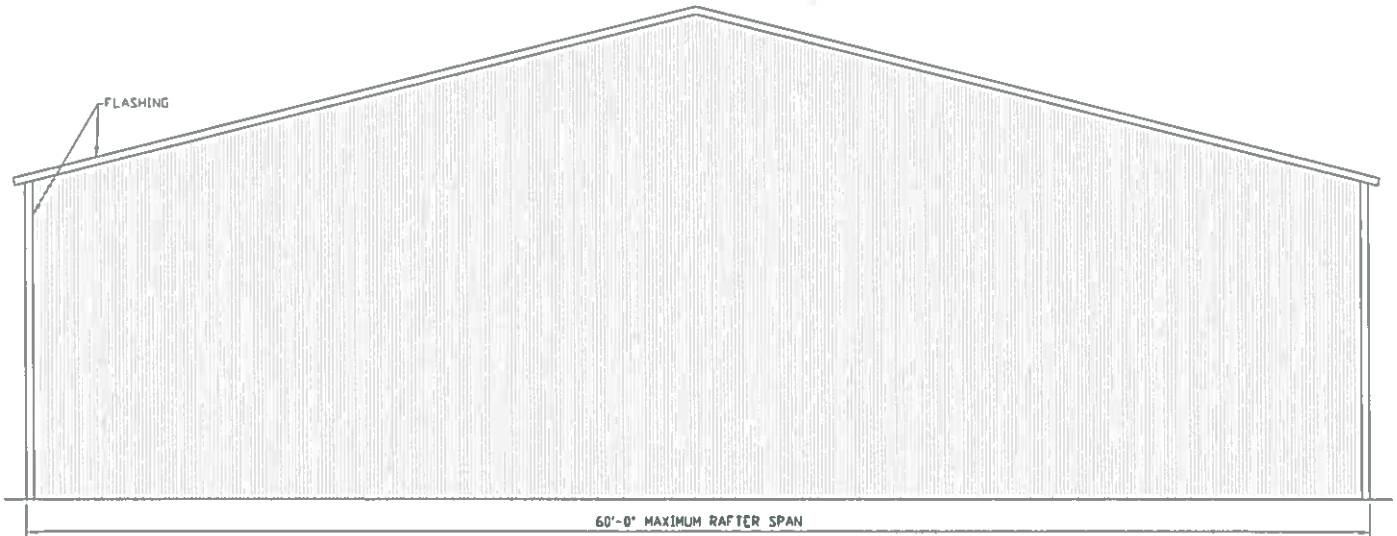
DWG. NO: SK-3

JOB: NO. 161385/181125

REV: 1

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CCI

**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 17

SCALE: NTS

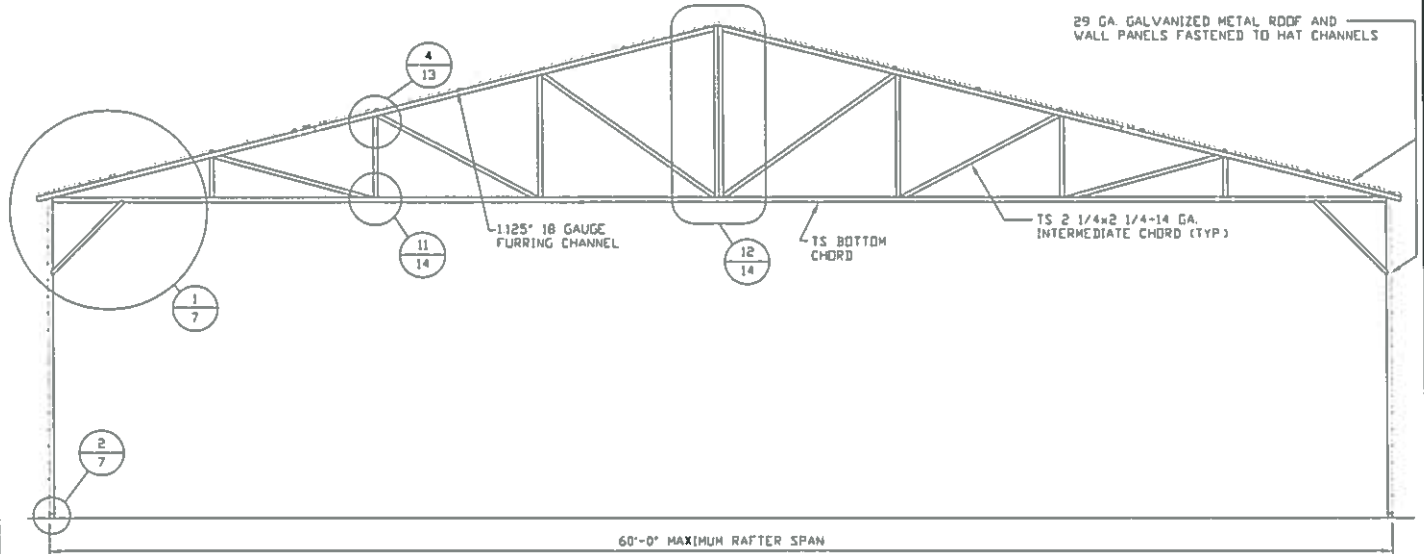
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JOB: NO. 161385/181125

REV: 1

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CCI

**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 17A

SCALE: NTS

DWG. NO: SK-3

JOB: NO. 161385/181125

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



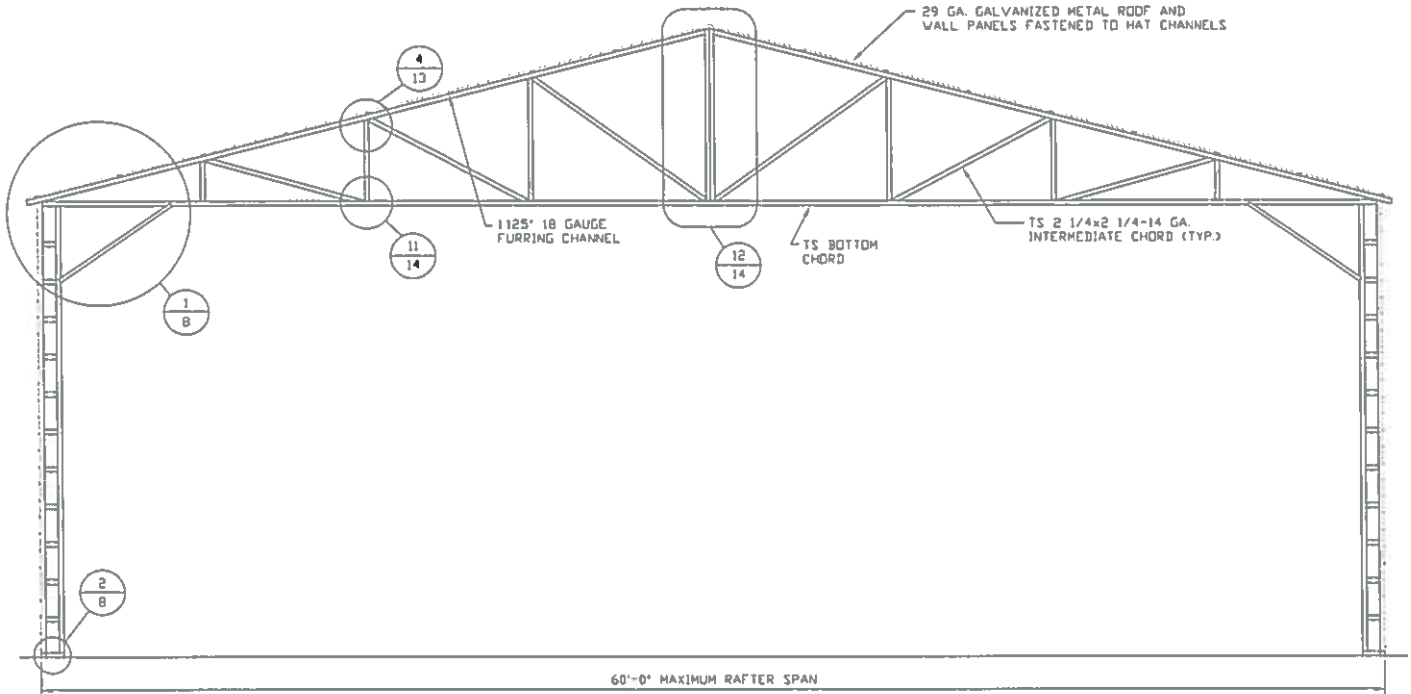
TYPICAL END ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS

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CHECKED BY: PDM			
PROJECT MGR: WSM	DATE: 5-14-18	SCALE: NTS	JOB: NO. 161385/181125
CLIENT: CCI	SHT. 18	DWG. NO: SK-3	REV: 1

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

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CLIENT: CCI

**CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0"X20'-0" ENCLOSED STRUCTURE**

DATE: 5-14-18

SHT. 18A

SCALE: NTS

DWG. NO: SK-3

JOB: NO. 161385/181125

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS

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CLIENT: CCI

CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 19

SCALE: NTS

DWG. NO: SK-3

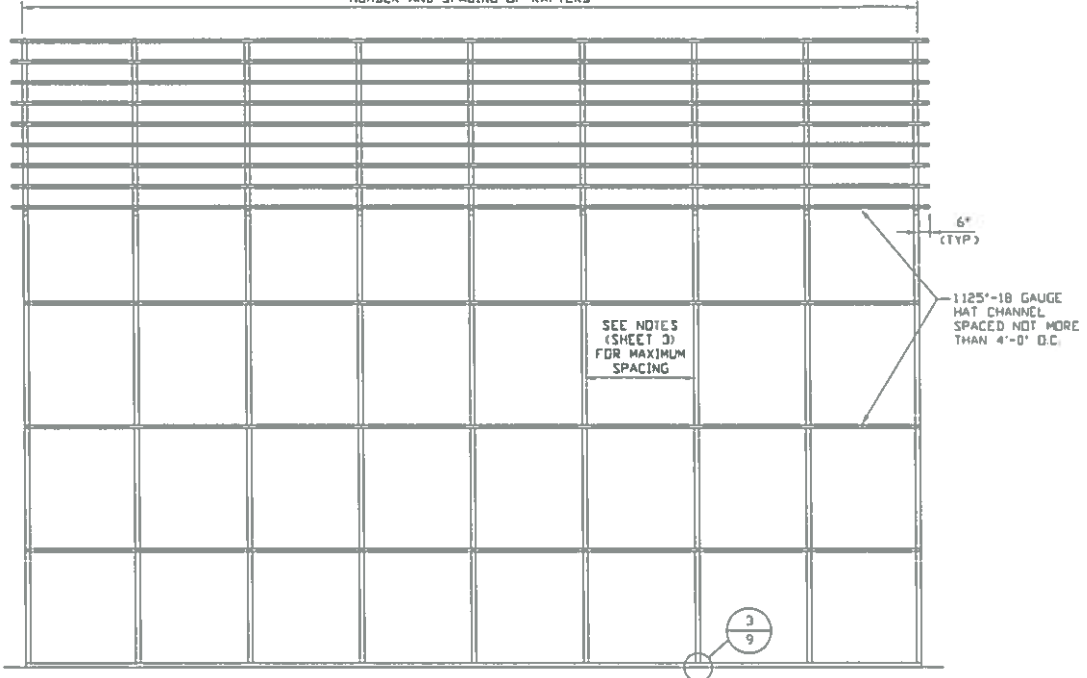
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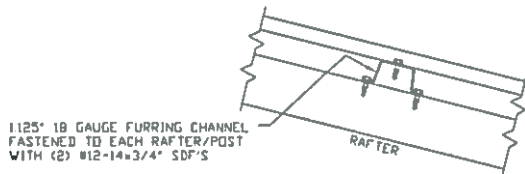
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

LENGTH VARIES DEPENDING ON
NUMBER AND SPACING OF RAFTERS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION
SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

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ENGINEERING AND CONSULTING, INC.

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CLIENT: CCI

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187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 19A

SCALE: NTS

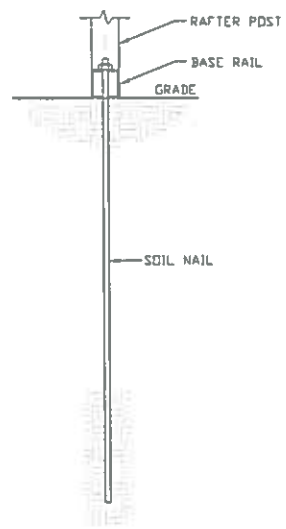
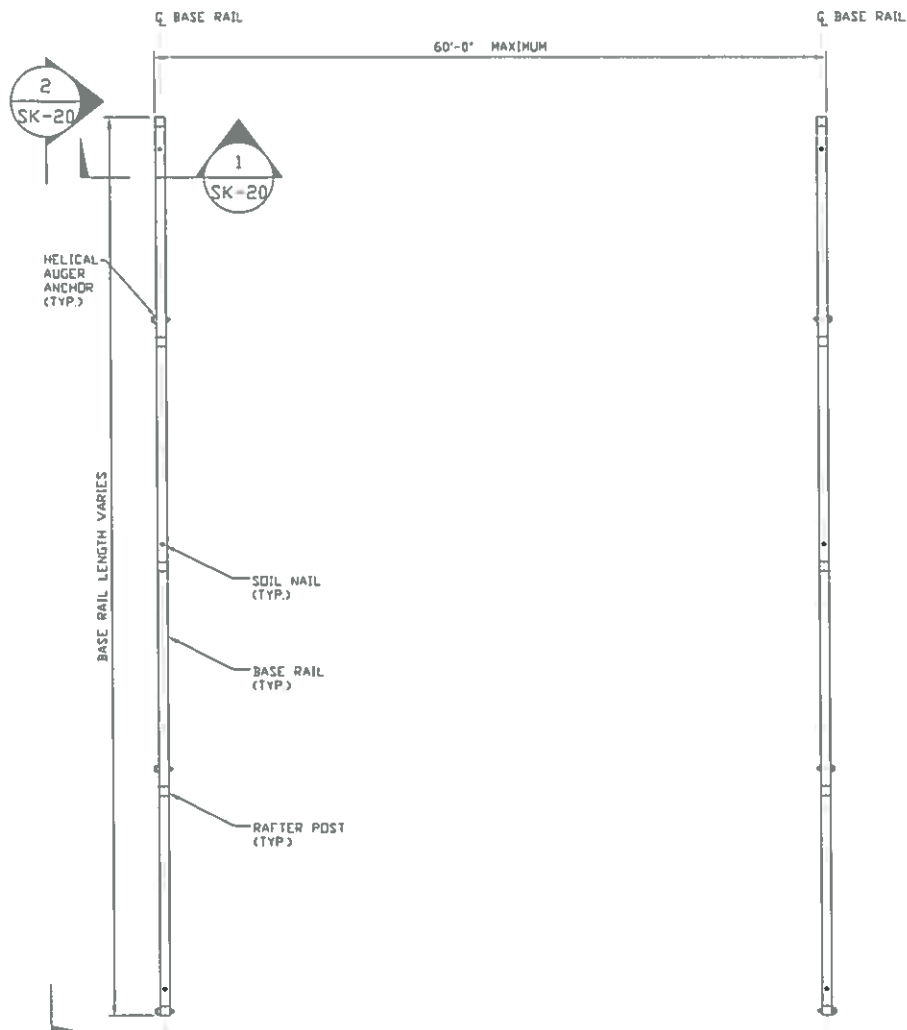
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JOB: NO. 16138S/18112S

REV: 1

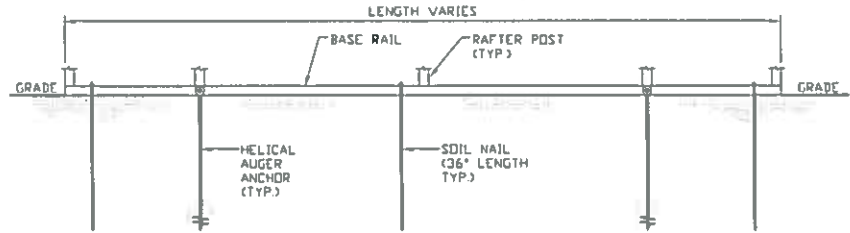
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BASE RAIL ON GRADE APPLICATION



SECTION 1
SCALE: NTS

BASE RAIL PLAN
SCALE: NTS



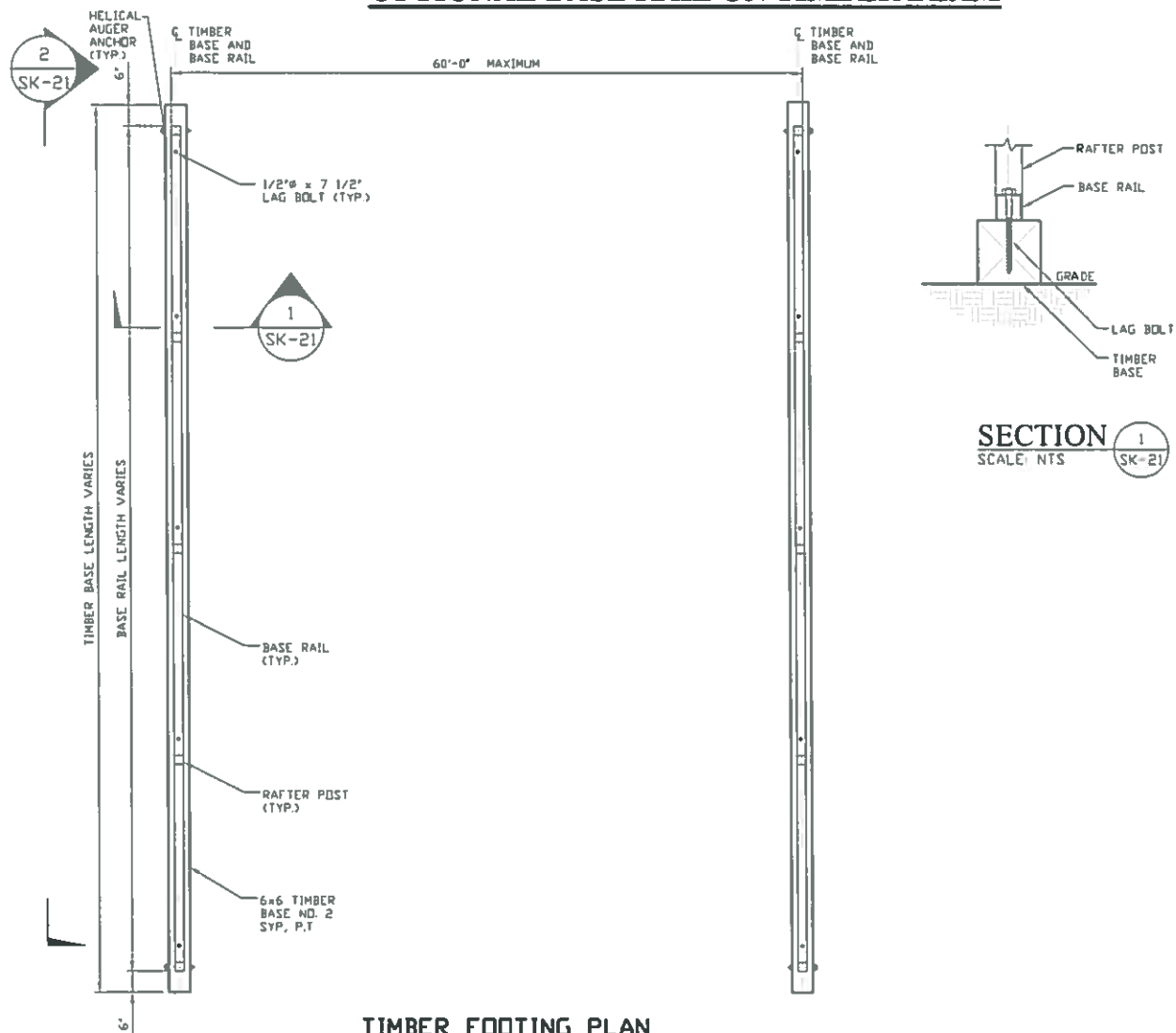
SECTION 2
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0" NOTE 2
30'-0"	15'-0" (EVERY OTHER POST)

- NOTES:
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS.
 2. FOR EXPOSURE C USE 15'-0" SPACING (EVERY OTHER POST)
 3. SOIL NAILS TO BE USED FOR LOW WIND SPEED ONLY.

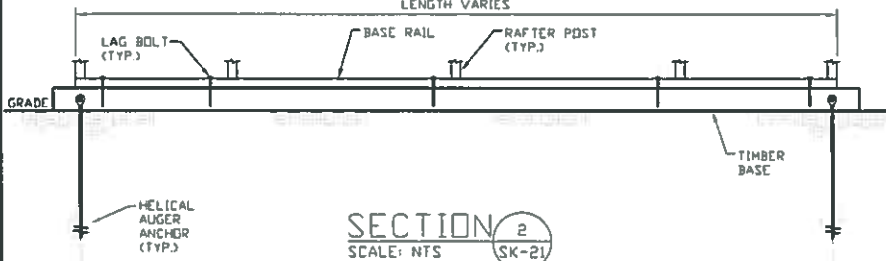
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	CHECKED BY: PDM	PROJECT MGR: WSM	DATE: 5-14-18	SCALE: NTS
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				REV: 1

OPTIONAL BASE RAIL ON TIMBER BEAM



TIMBER FOOTING PLAN

SCALE: NTS
LENGTH VARIES



HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0" NOTE 2
30'-0"	15'-0" (EVERY OTHER POST)

NOTES:

1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS.
2. FOR EXPOSURE C USE 15'-0" SPACING (EVERY OTHER POST)

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187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 21

SCALE: NTS

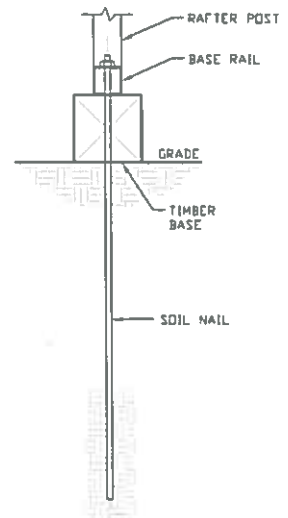
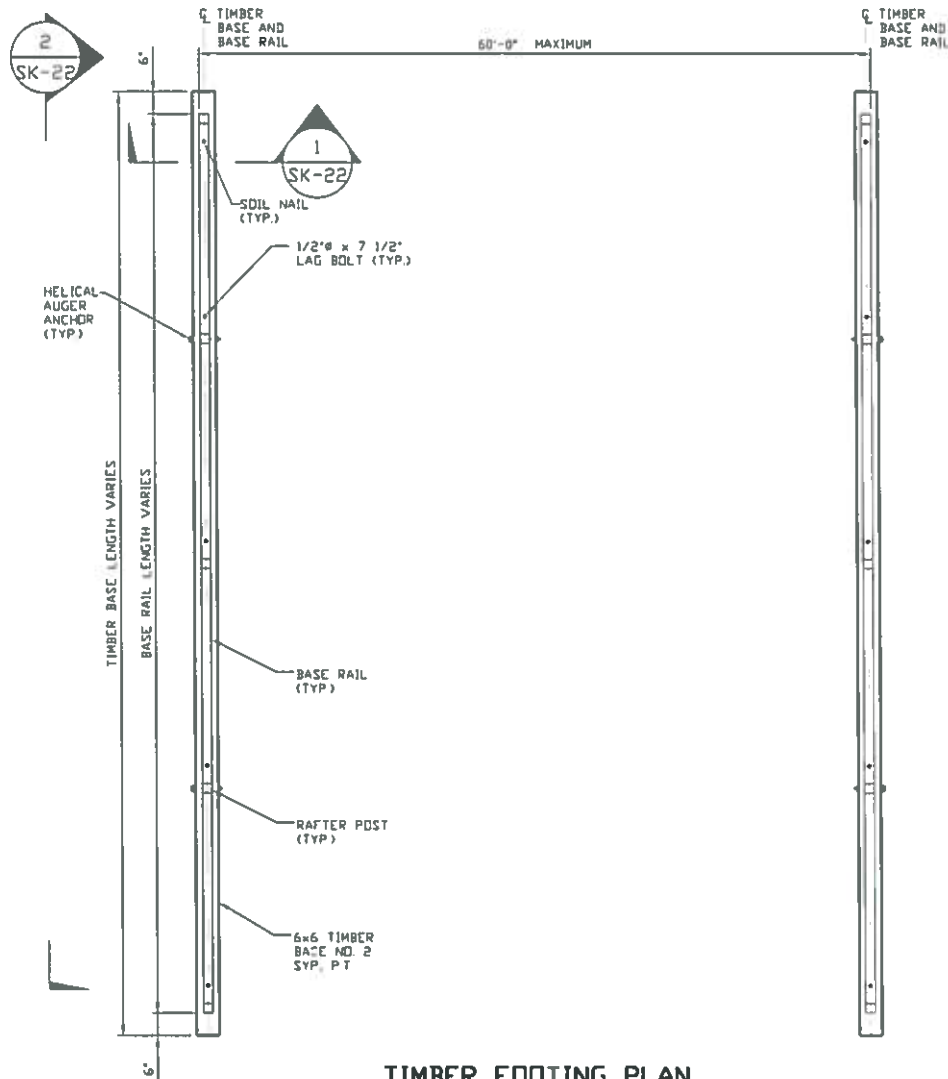
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JOB NO. 16138S/18112S

REV: 1

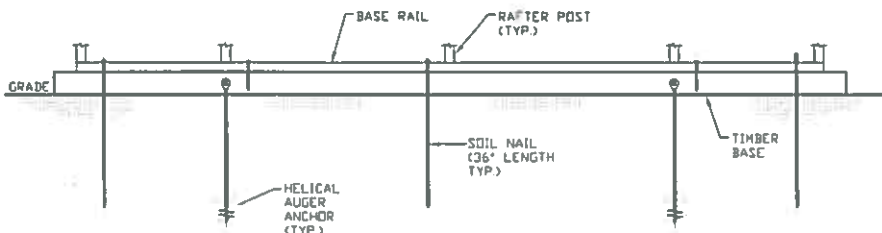
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OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 1
SCALE: NTS SK-22

TIMBER FOOTING PLAN
SCALE: NTS



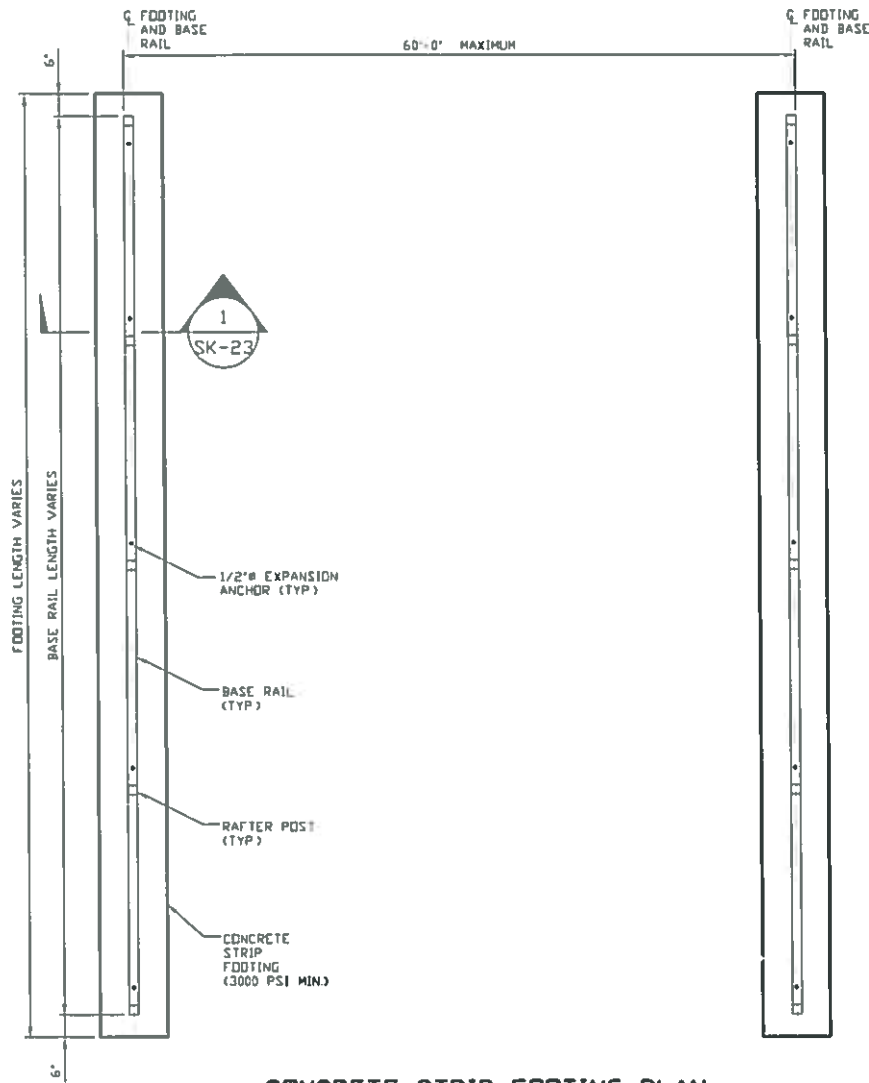
SECTION 2
SCALE: NTS SK-22

HELIX ANCHOR	
SIDE LENGTH	SPACING
20'-0"	20'-0"
25'-0"	25'-0" NOTE 2
30'-0"	15'-0" (EVERY OTHER POST)

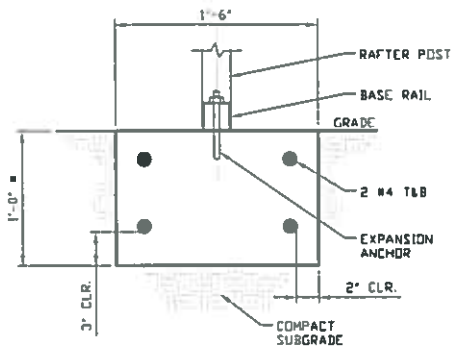
- NOTES:
1. INSTALLATION OF SOIL NAILS OR EXPANSION ANCHORS ALSO APPLY TO END WALLS.
 2. FOR EXPOSURE C USE 15'-0" SPACING. (EVERY OTHER POST)
 3. SOIL NAILS TO BE USED FOR LOW WIND SPEED ONLY.

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	CLIENT: CCI			

OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN
SCALE: NTS



SECTION 1
SCALE: NTS
SK-23

■ COORDINATE WITH LOCAL CODES/ORDINANCES

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187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 23

SCALE: NTS

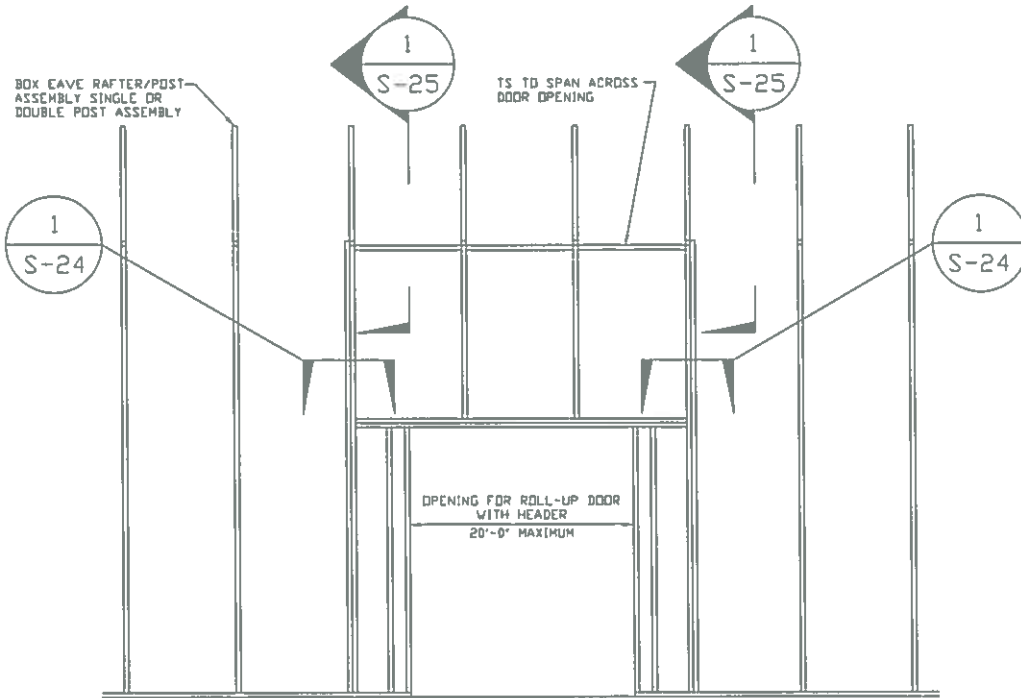
DWG. NO: SK-3

JOB: NO. 16138S/18112S

REV: 1

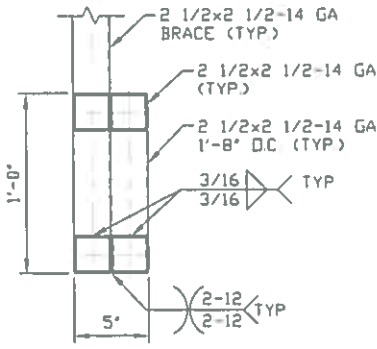
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OPTIONAL DOOR HEADER AND SIDEWALL HEADER SUPPORT BRACING



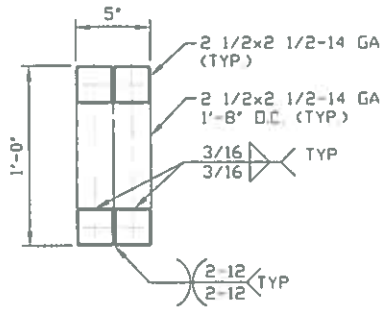
BOX EAVE RAFTER SIDE WALL OPENING WITH HEADER SUPPORT BRACING

SCALE: NTS



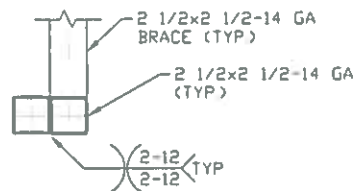
HEADER SUPPORT BRACING LACED LEG

SCALE: NTS



**HEADER DETAIL FOR DOOR OPENINGS
12'-0" < LENGTH < 20'-0"**

SCALE: NTS



HEADER SUPPORT BRACING SINGLE LEG

SCALE: NTS

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CAROLINA CARPORTS, INC.
187 CARDINAL RIDGE TRAIL
DOBSON, NC 27017
60'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 24

SCALE: NTS

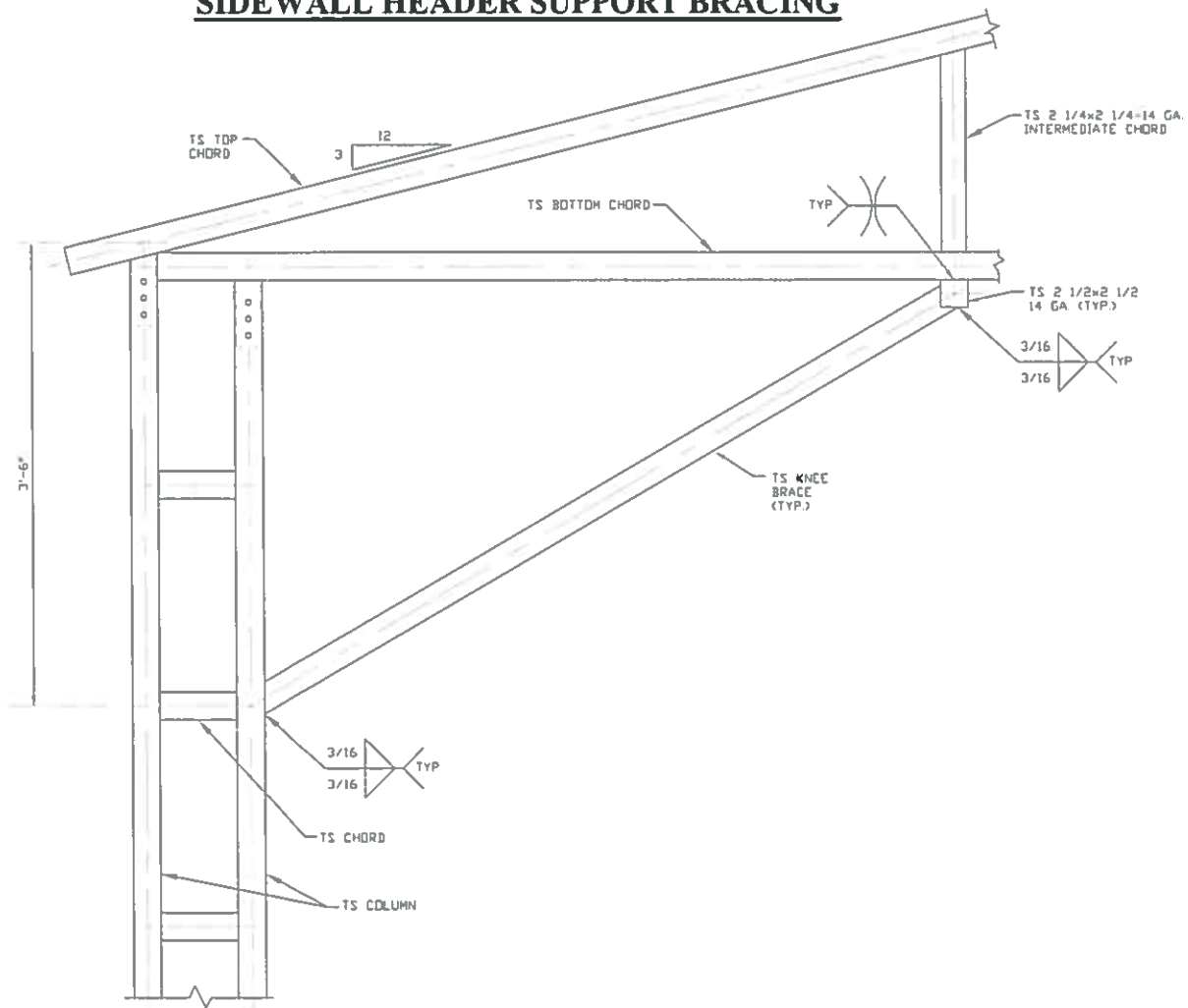
DWG. NO: SK-3

JOB: NO. 16138S/18112S

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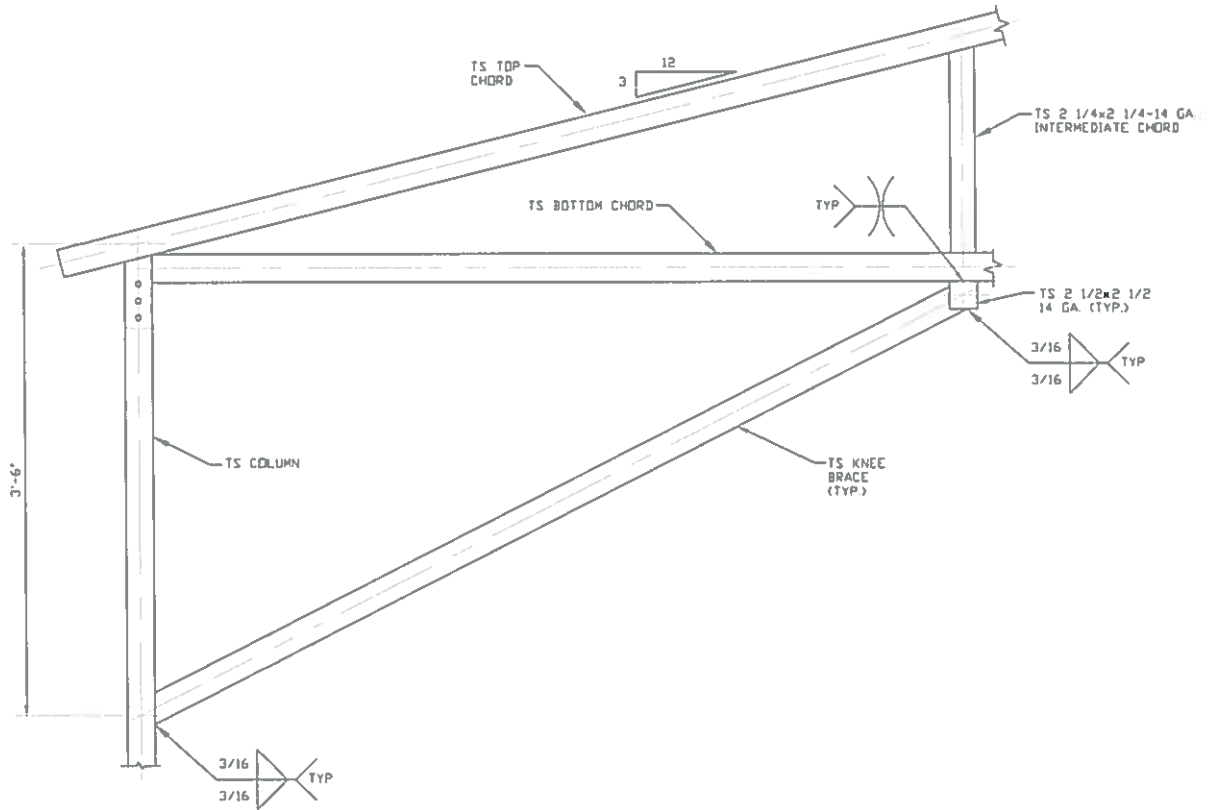
SIDEWALL HEADER SUPPORT BRACING



1A
HEADER SUPPORT BRACING LACED LEG
 SCALE: NTS

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SIDEWALL HEADER SUPPORT BRACING



1B
HEADER SUPPORT BRACING SINGLE LEG
 SCALE: NTS

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CLIENT: CCI

CAROLINA CARPORTS, INC.
 187 CARDINAL RIDGE TRAIL
 DOBSON, NC 27017
 60'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 5-14-18

SHT. 25A

SCALE: NTS

DWG. NO: SK-3

JOB: NO. 16138S/18112S

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