



STRUCTURAL DESIGN

STANDARD PACKAGE

ENCLOSED BUILDING

**MAXIMUM 70'- 0" WIDE X 20'- 0" EAVE HEIGHT-
BOX EAVE FRAME**

16 December 2020

Revision 4

M&A Project No. 18076S/18168S/18254S/19174S/19339S

Prepared for:

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

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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

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



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

		<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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	<p>CHECKED BY: PDH</p>	<p>PROJECT MGR: VSM</p>	<p>DATE: 12-16-20</p>	<p>SCALE: NTS JOB NO: 18168S/18254S/ 19174S/19339S</p>
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			<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 12/16/20 License Number: 54715</p>
			<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 12/16/20 License Number: 54715</p>
	<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>6/8/22</u></p>	<p>WAYNE SHERIDAN MOORE</p>	

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<p>PROJECT MGR: VSM</p>	<p>DATE: 12-16-20</p>	<p>SCALE: NTS</p>	<p>JOB NO: 19174S/19339S</p>	<p>18168S/18254S/ REV: 4</p>
<p>CLIENT: CARPORT CENTRAL</p>	<p>SHT. 1A</p>	<p>DWG. NO: SK-3</p>	<p>REV: 4</p>	

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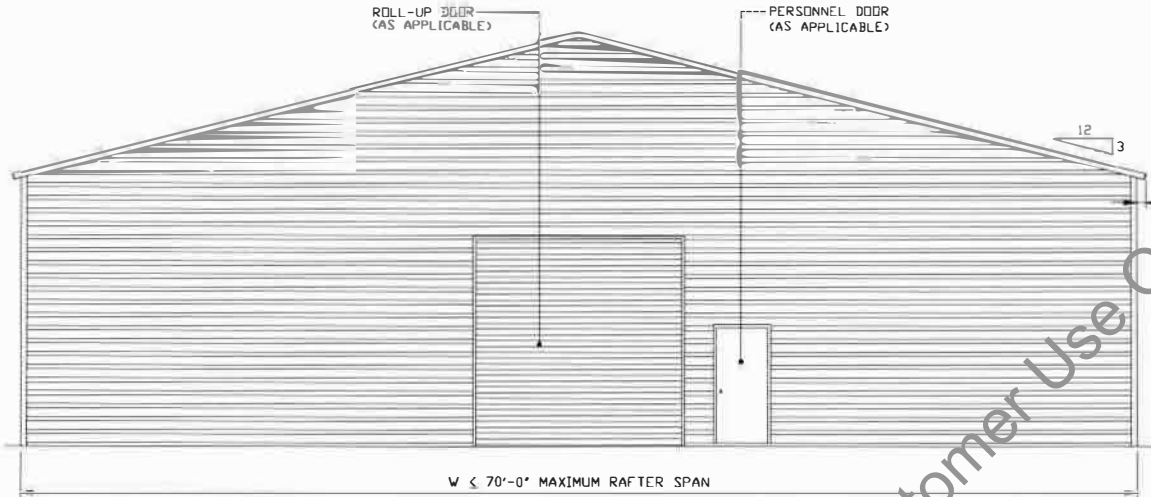
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	CLIENT: CARPORT CENTRAL	SHT. 2	DWG. NO: SK-3	REV. 4

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 70'-0" WIDE x 20'-0" EAVE HEIGHT STANDARD PACKAGE ENCLOSED STRUCTURES.
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 115 PSF
 - B) LIVE LOAD = 20 PSF
 - C) GROUND SNOW LOAD = 45 PSF
(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).
- 4 3-SECOND ULTIMATE WIND SPEED (V_{ULT}) = 115 TO 160 MPH (NOMINAL WIND SPEED = 89 TO 124 MPH)
5. MAXIMUM RAFTER/POST AND END POST SPACING = 4'-0" (UNLESS NOTED OTHERWISE)
6. END WALL COLUMN (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMN (POSTS) IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 RISK CATEGORY II.
- 8 WIND EXPOSURE CATEGORY B/C.
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4"x2 1/4"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE) WHERE TS 2 1/4" x 2 1/4" - 14 GAUGE IS SPECIFIED, TS 2 1/4" x 2 1/4" - 12 GAUGE MAY BE USED AS AN OPTION.
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8" O.C. (MAX.)
- 11 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 14:12 (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES.
13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II
 - R= 3.25 $I_E = 1.0$
 - $S_{DS} = 2.039 g$ $V = C_s W$
 - $S_{D1} = 1.258 g$
14. MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS

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	Edward Gainer Susie Circle			



TYPICAL END ELEVATION

SCALE: NTS

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70'-0"x20'-0" SP ENCLOSED STRUCTURE

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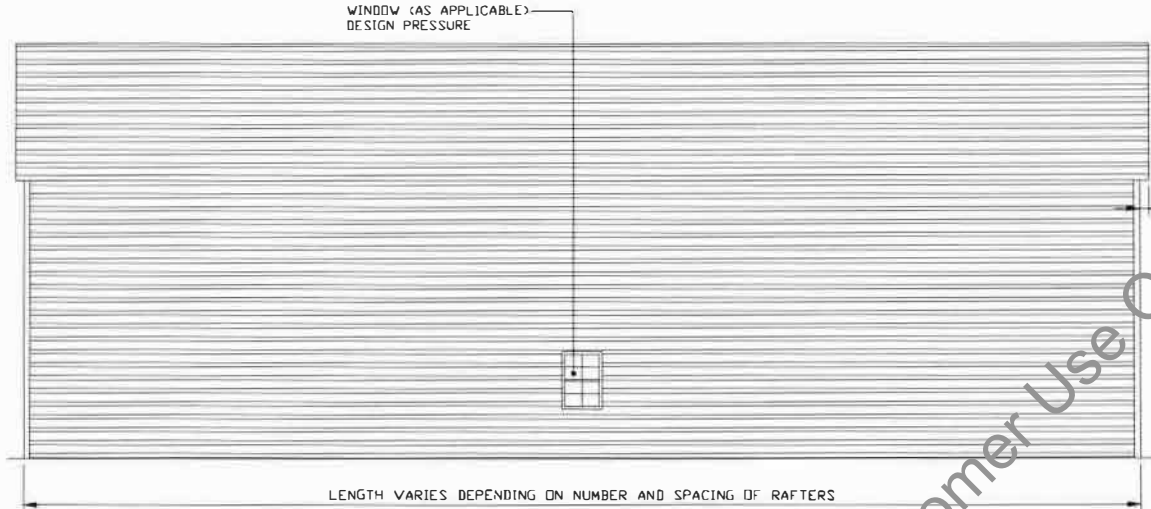
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TYPICAL SIDE ELEVATION

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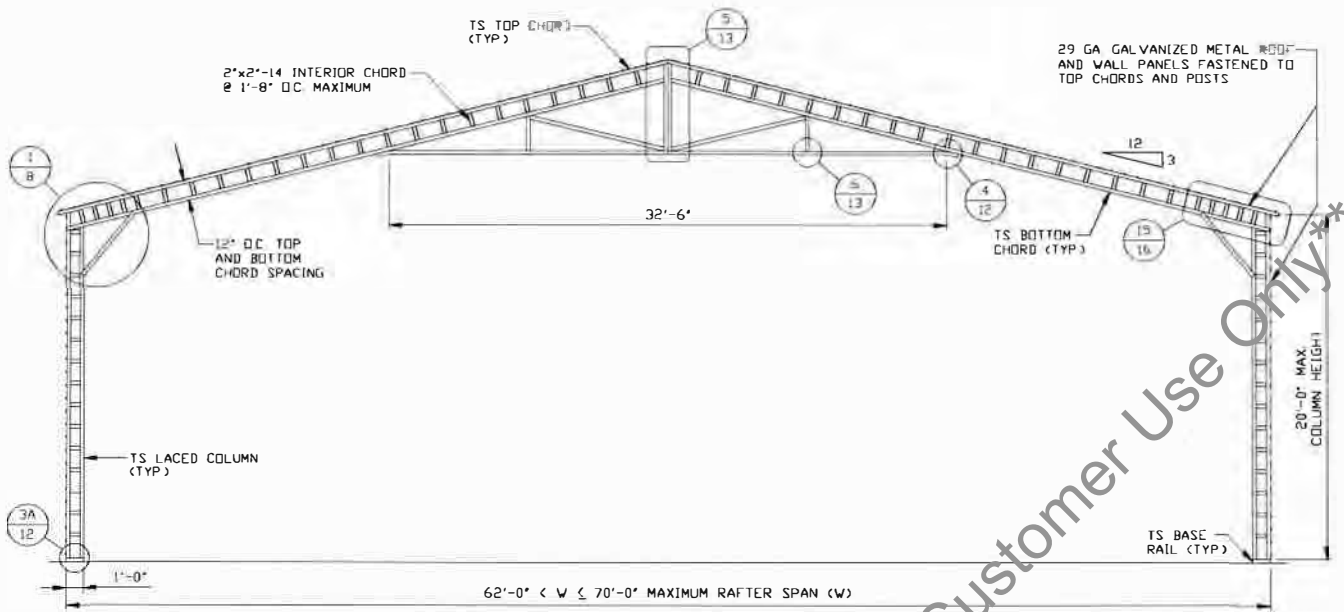
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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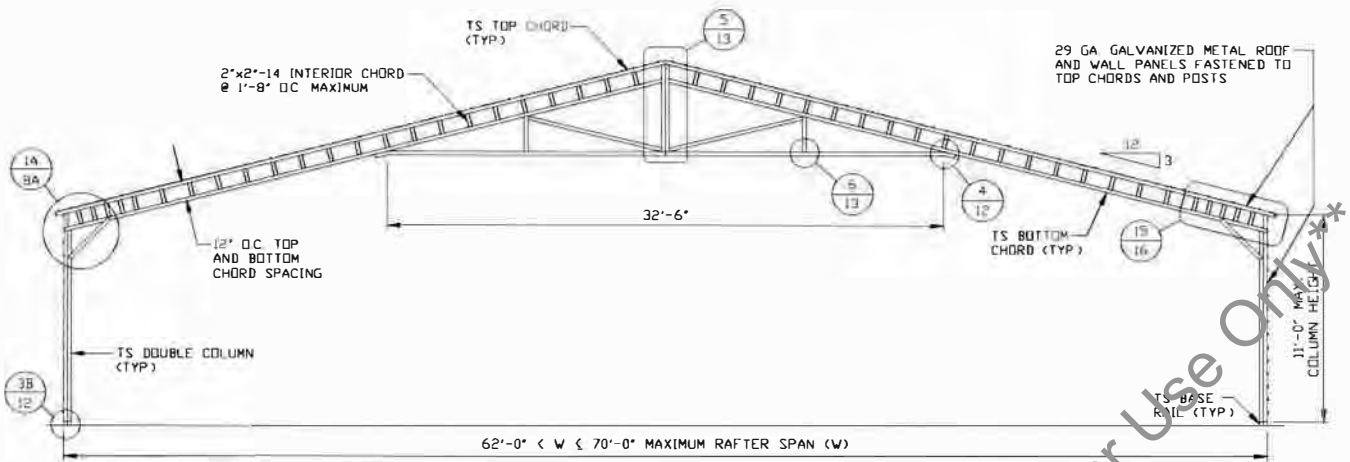
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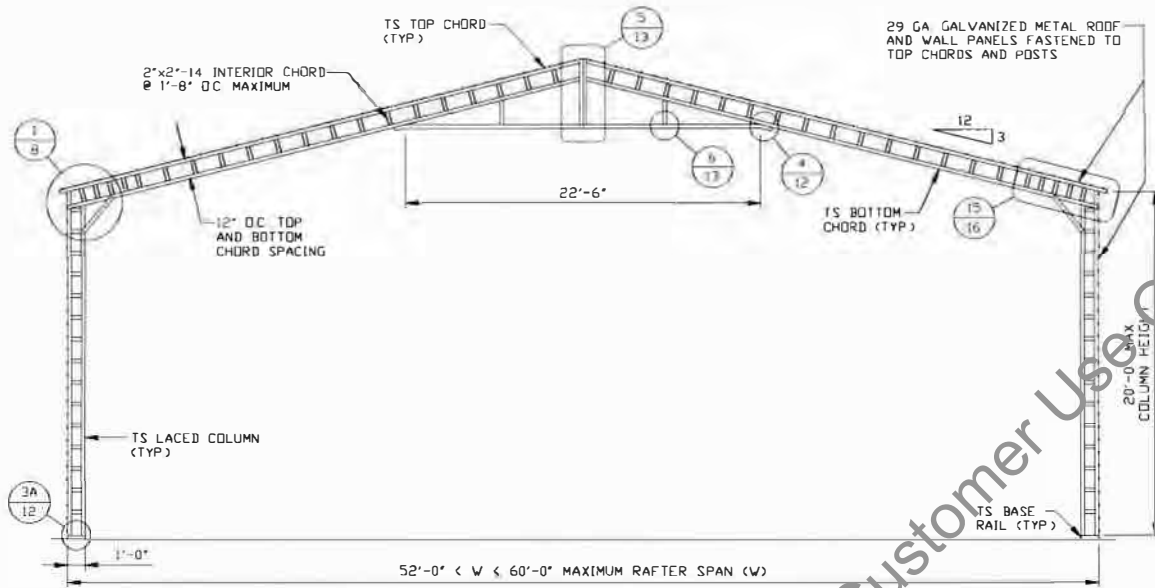
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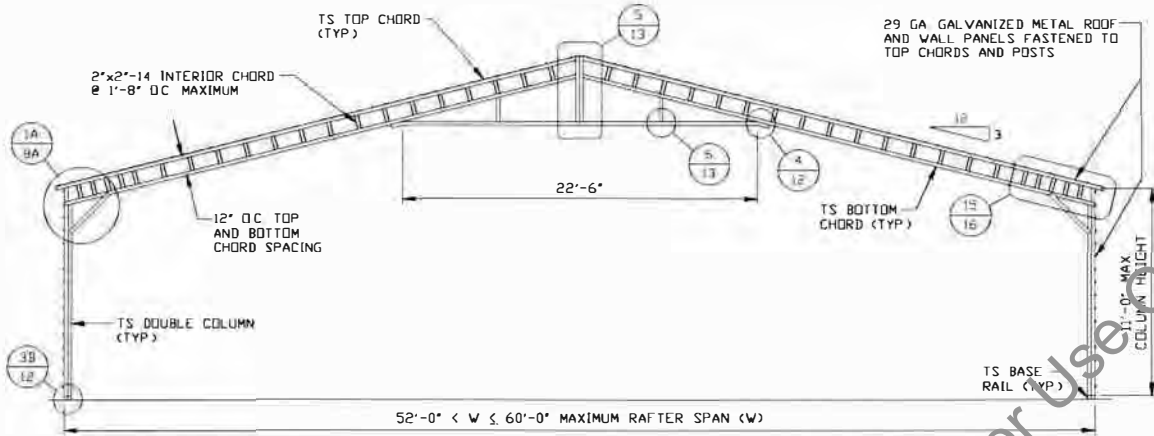
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70'-0" x 20'-0" S P ENCLOSED STRUCTURE

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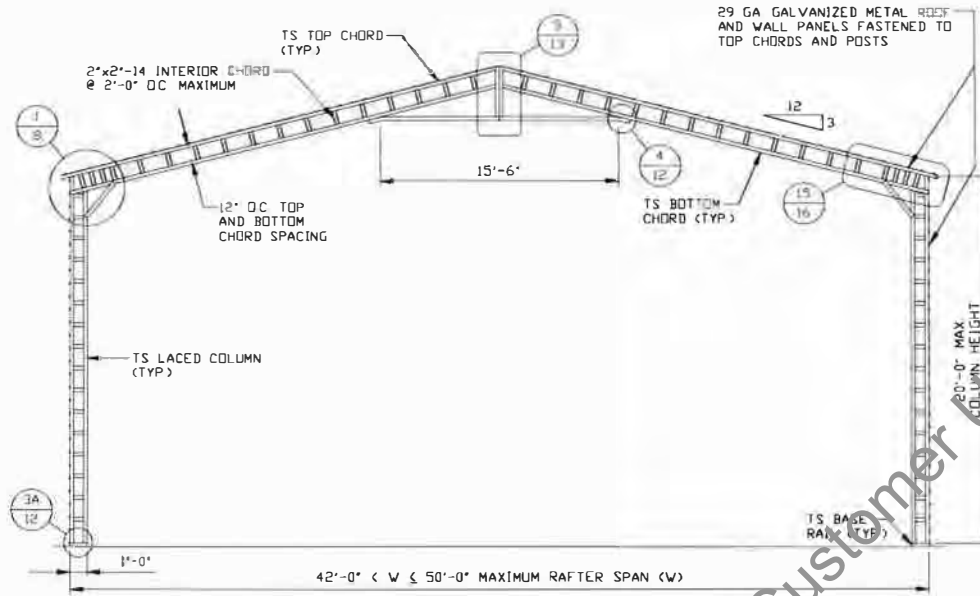
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70'-0"x2,040" SP ENCLOSED STRUCTURE

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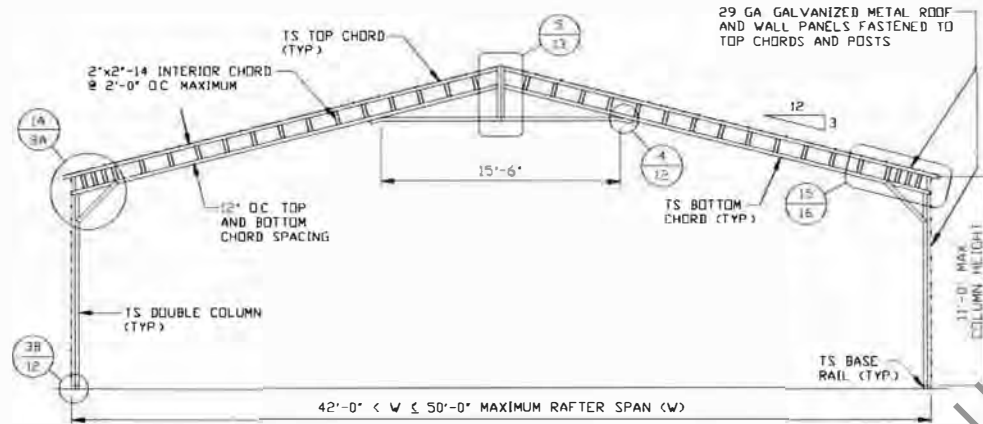
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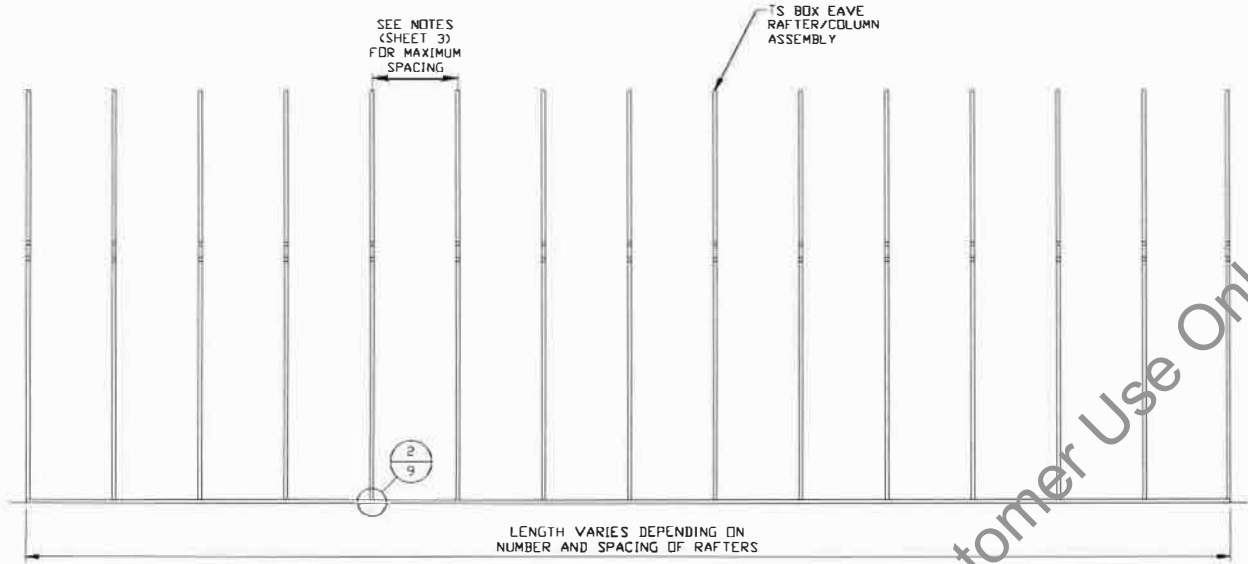
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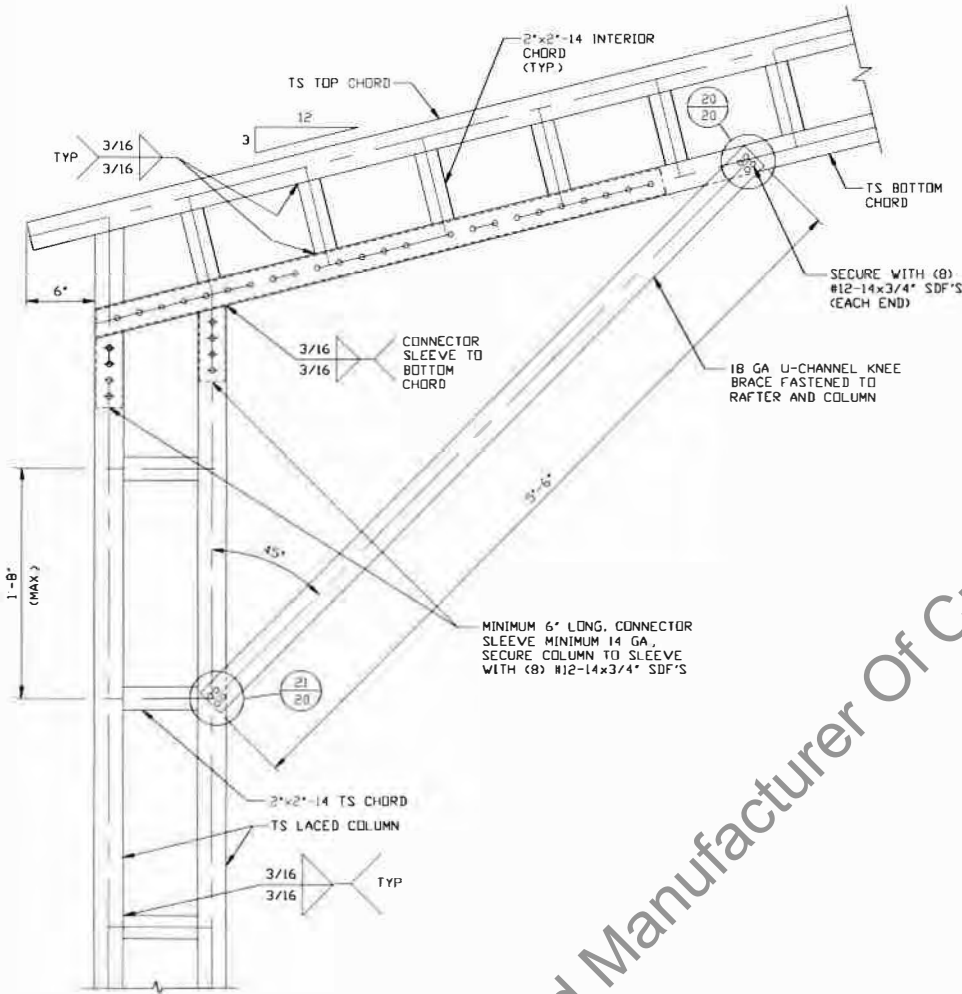
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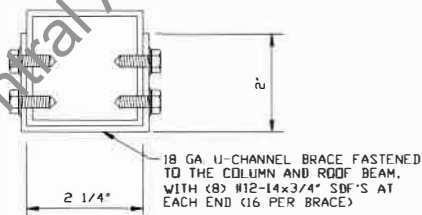
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COLUMN CONNECTION DETAILS



1 BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" TO ≤ 20'-0"
SCALE: NTS



BRACE SECTION
SCALE: NTS

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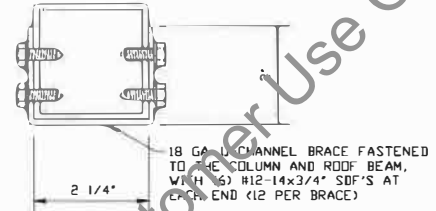
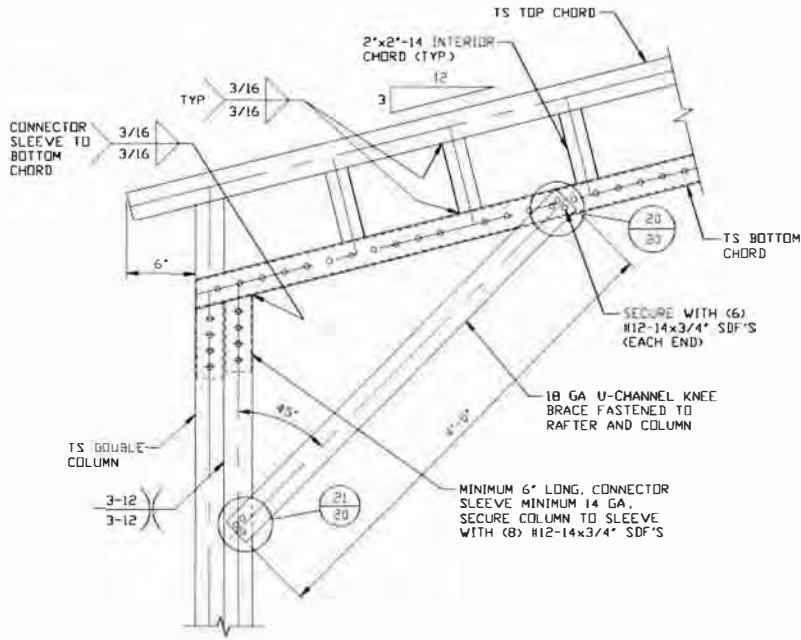
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COLUMN CONNECTION DETAILS



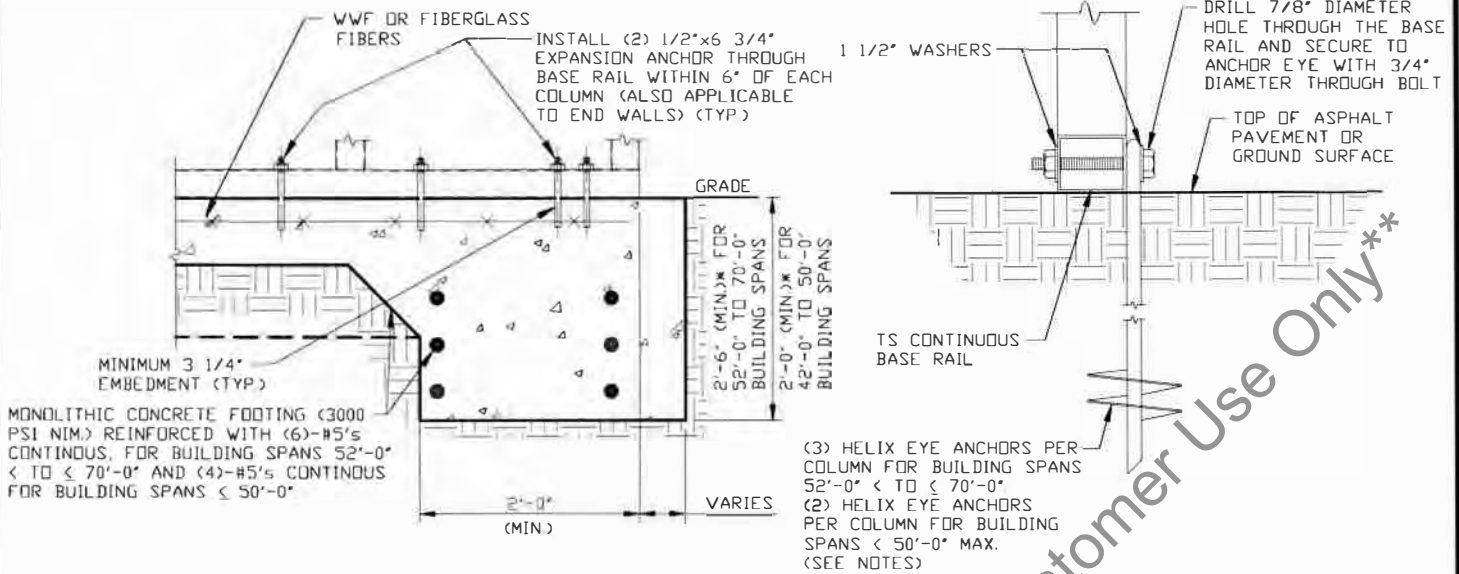
BRACE SECTION
SCALE: NTS

1A
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 11'-0"
SCALE: NTS

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	<p>Edward Gainer Susie Circle</p>			

BASE RAIL ANCHORAGE OPTIONS FOR 160 MPH



2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
SCALE: NTS
NOTE: MIN. ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL CODES/ORDINANCES

2B GROUND BASE HELIX ANCHORAGE
SCALE: NTS (CAN BE USED FOR ASPHALT)

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

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.

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, CALCICHE, 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) 5" HELICES WITH MINIMUM 50" EMBEDMENT.

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

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CHECKED BY: PDH

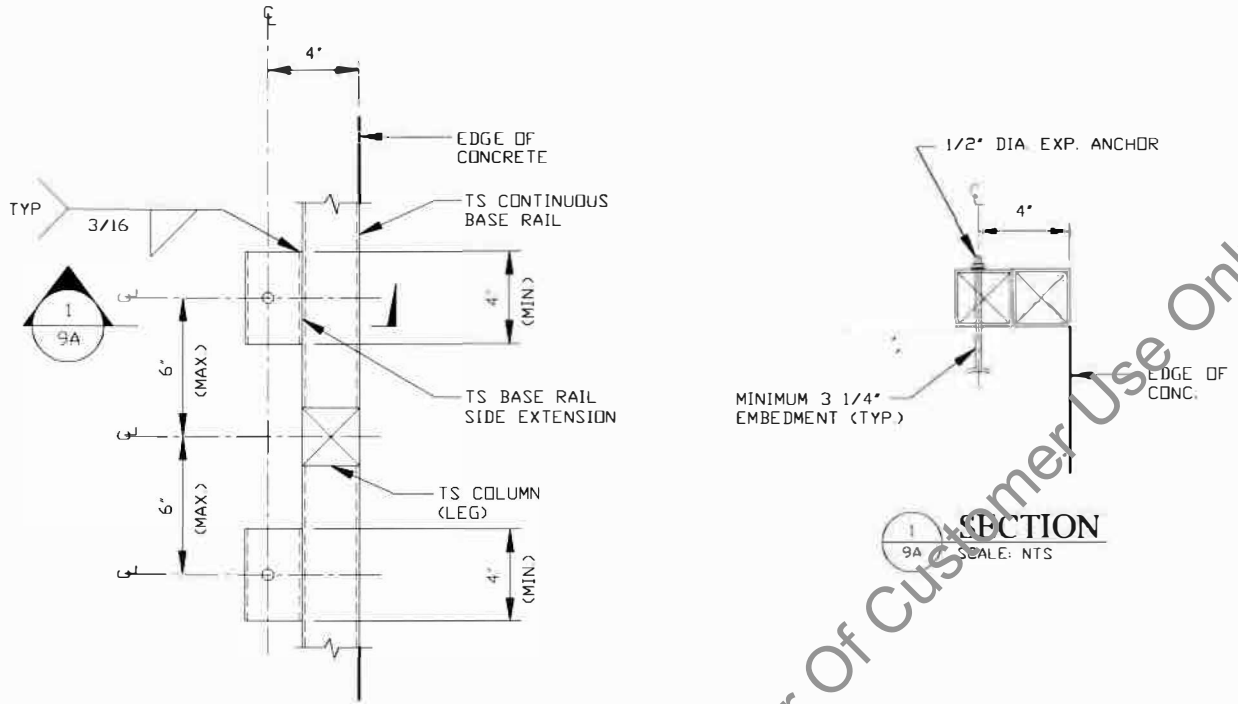
CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP E. KLO SED STRUCTURE

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PROJECT MGR: VSM
CLIENT: CARPORT CENTRAL

DATE: 12-16-20
SHT. 9
SCALE: NTS
DVG. NO: SK-3
JOB NO: 19174S/19339S
REV: 4

ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 160 MPH



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 9A

SCALE: NTS

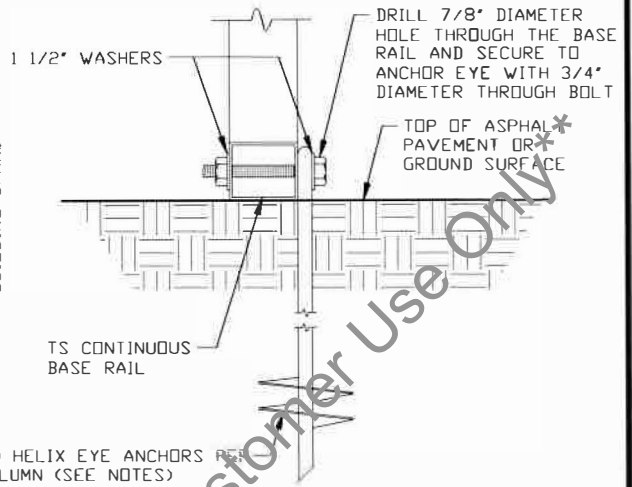
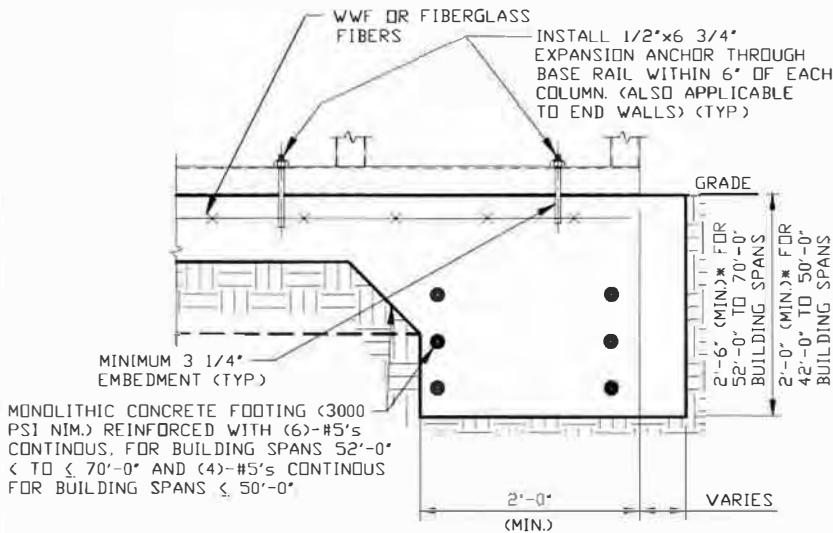
DWG. NO SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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BASE RAIL ANCHORAGE OPTIONS FOR 140 MPH



2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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

2B GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR ASPHALT)

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

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

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-TWO 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, CALCHE, 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.

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 9B

SCALE: NTS

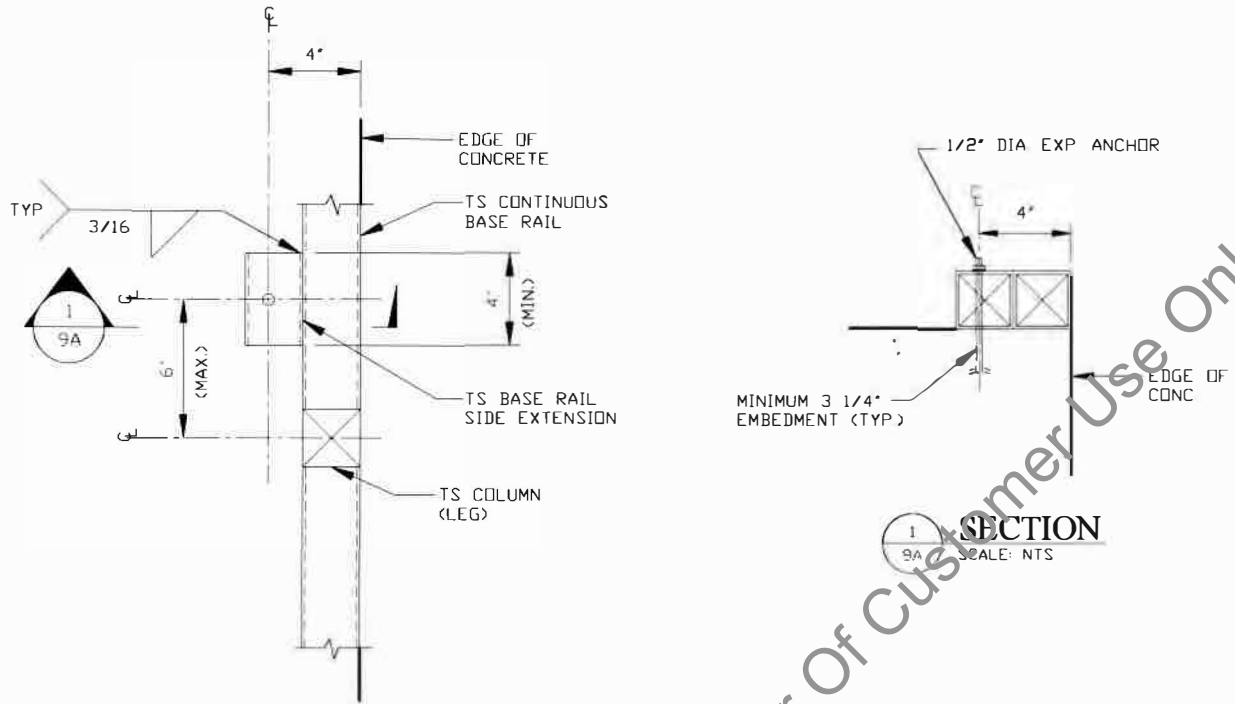
DWG. NO: SK-3

**18169S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 140 MPH

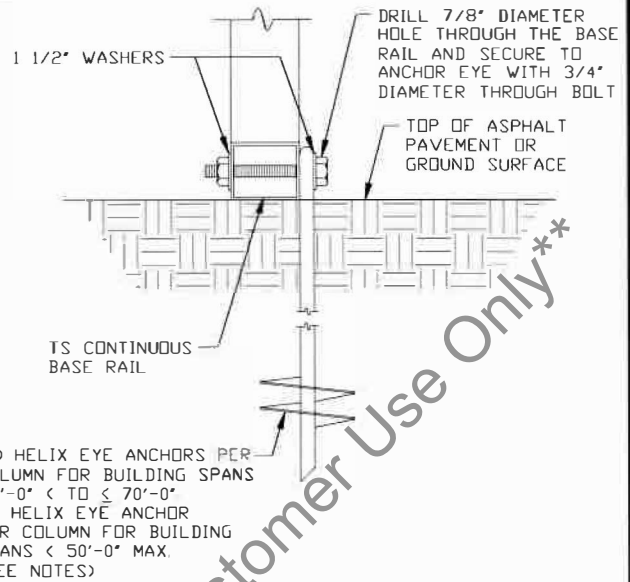
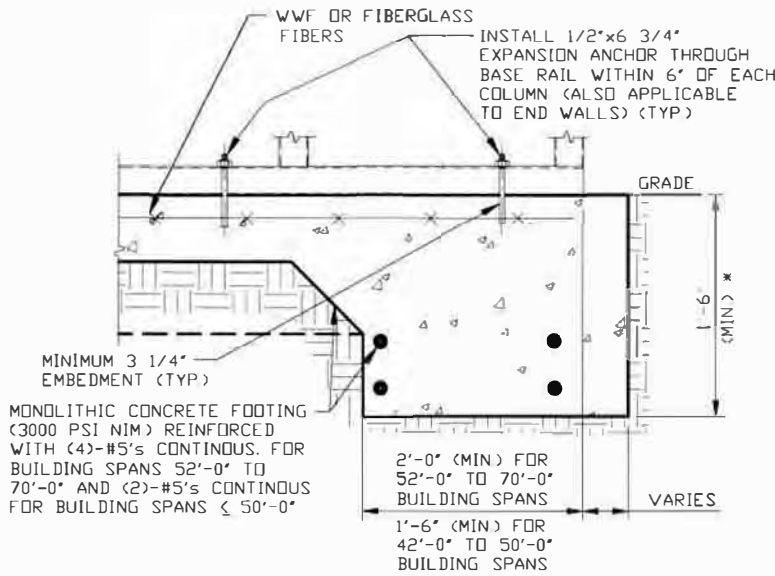


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE
SCALE: NTS

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	CLIENT: CARPORT CENTRAL	SHT. 9C	DWG. NO: SK-3	REV. 4

BASE RAIL ANCHORAGE OPTIONS FOR 115 MPH



2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
SCALE: NTS
NOTE: MIN. ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL CODES/ORDINANCES.

2B GROUND BASE HELIX ANCHORAGE
SCALE: NTS (CAN BE USED FOR ASPHALT)

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

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.

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:
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REINFORCING STEEL:

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

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HELIX ANCHOR NOTES:

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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.

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

DRAWN BY: JG

CHECKED BY: PDM

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 9D

SCALE: NTS

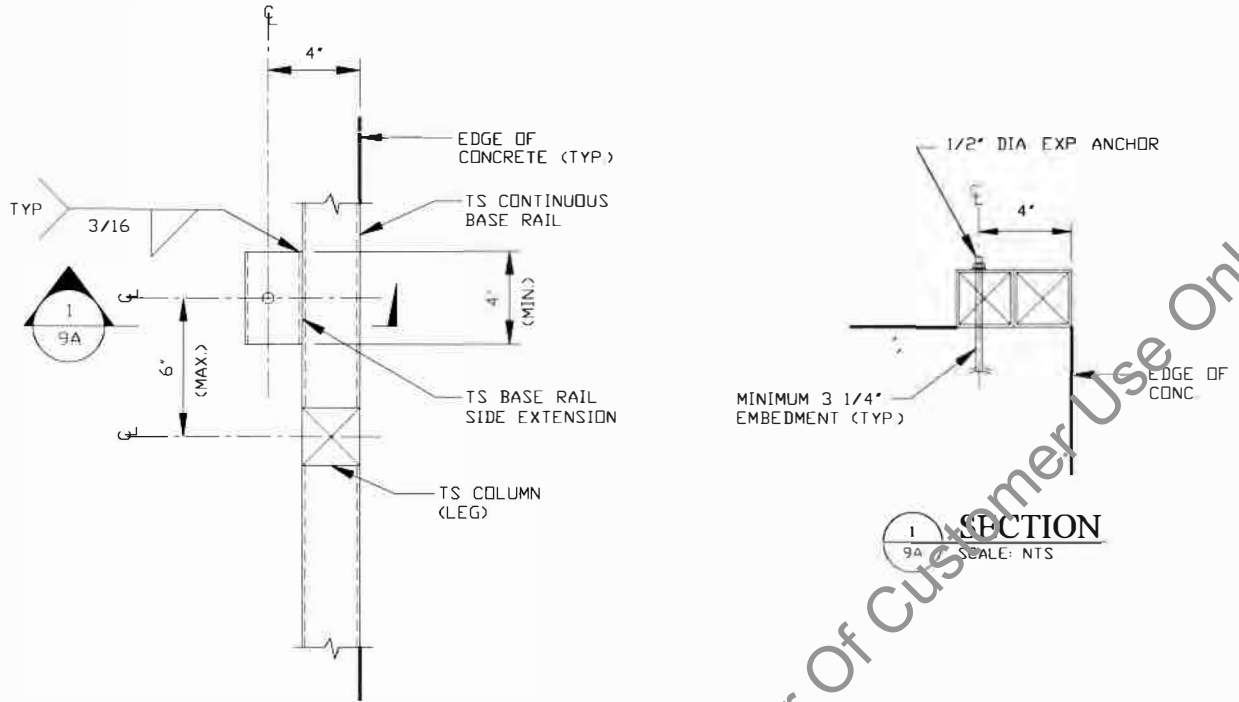
DWG. NO SK-3

18168S/18254S/
JOB NO: 19174S/19399S

REV: 4

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ADDITIONAL BASE RAIL ANCHORAGE OPTION FOR 115 MPH



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 9E

SCALE: NTS

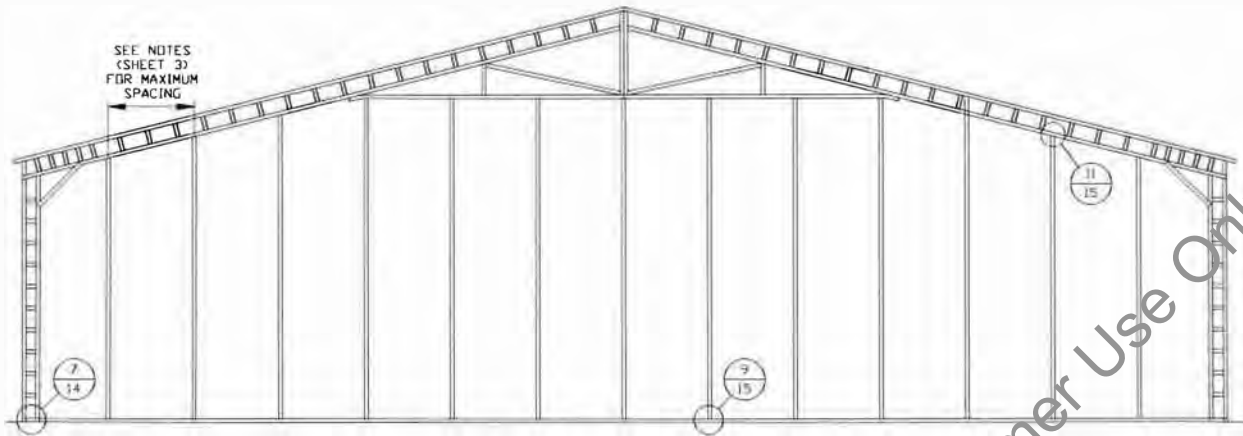
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**18168S/18254S/
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BOX EAVE RAFTER END WALL



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
SCALE: NTS

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737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SCALE: NTS

SHT. 10

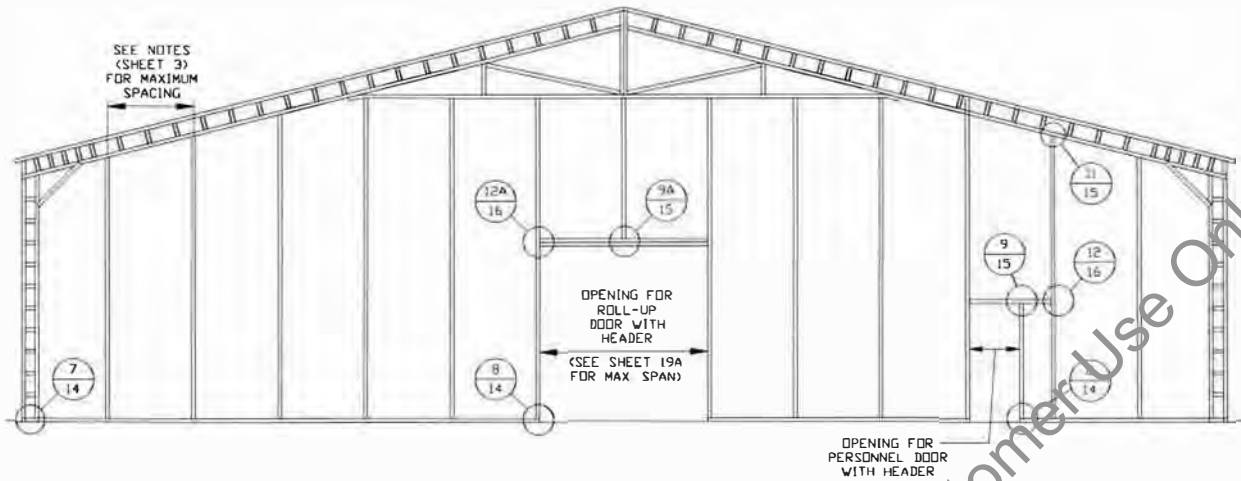
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BOX EAVE RAFTER END WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION

SCALE: NTS

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CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 10A

SCALE: NTS

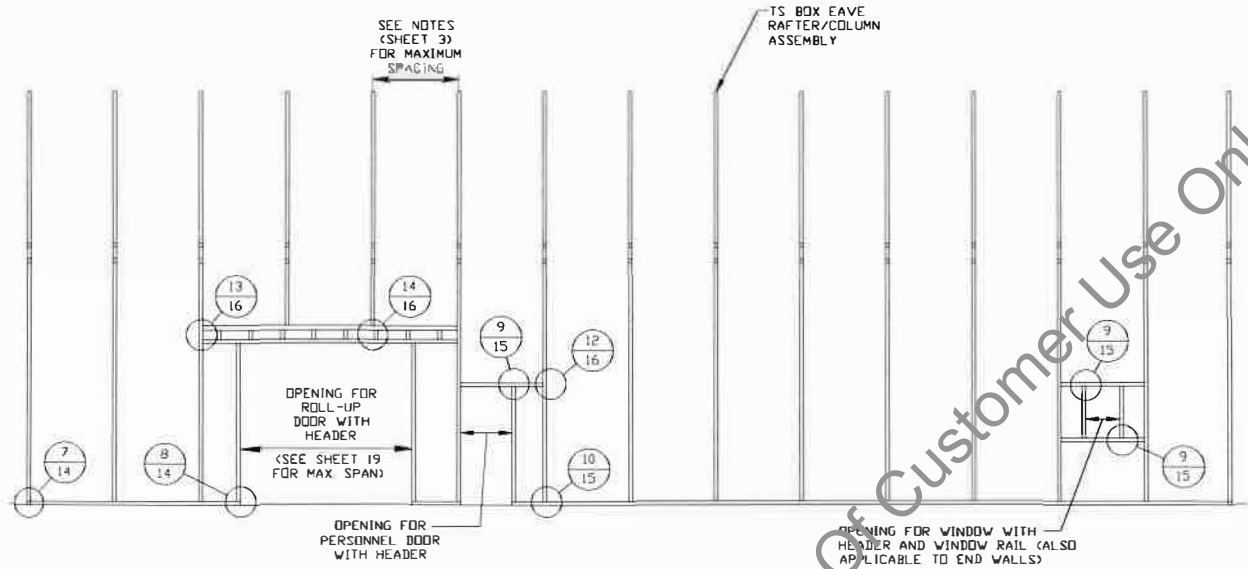
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JOB NO: 19174S/19339S

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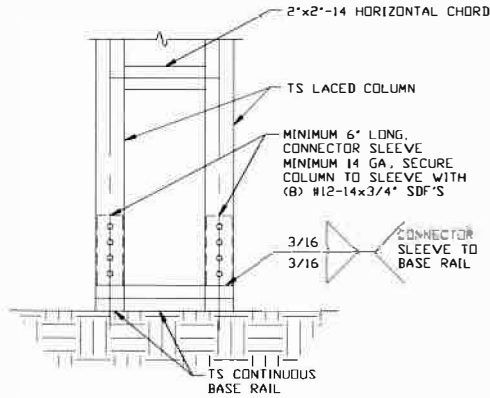
BOX EAVE RAFTER SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
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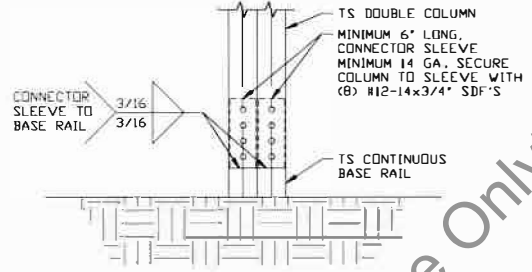
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG	CARPORT CENTRAL INC. 737 SOUTH MAIN STREET MOUNT AIRY, NC 27030		
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	CLIENT: CARPORT CENTRAL	SHT. 11	DWG. NO: SK-3	REV: 4
	Edward Gainer Susie Circle	Cameron, NC 28326	Edward Gainer Susie Circle	

CONNECTION DETAILS



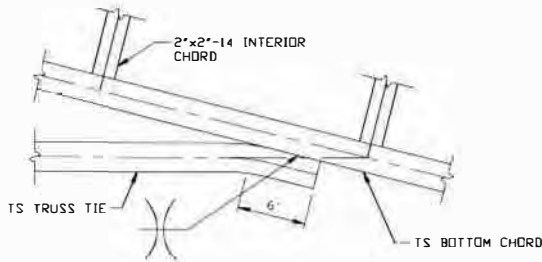
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



3B RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



4 TRUSS TIE CONNECTION DETAIL

SCALE: NTS

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**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"X20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SCALE: NTS

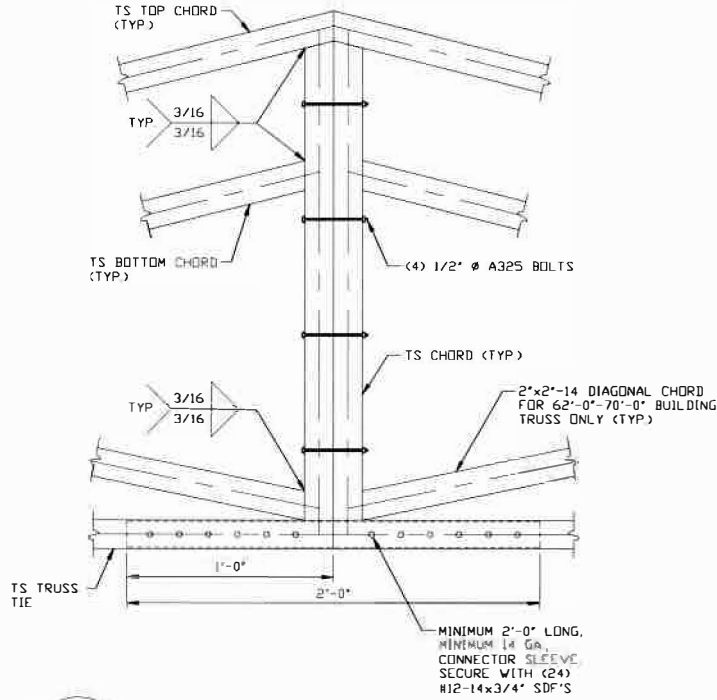
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**18168S/18254S/
JOB NO: 19174S/19339S**

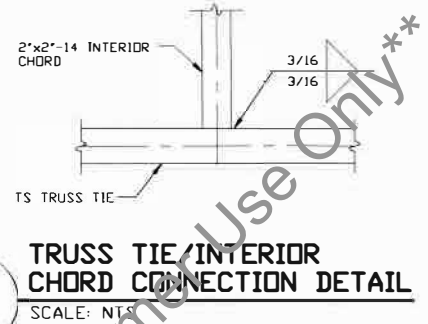
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CONNECTION DETAILS



5 TRUSS SPLICE CONNECTION DETAIL
SCALE: NTS

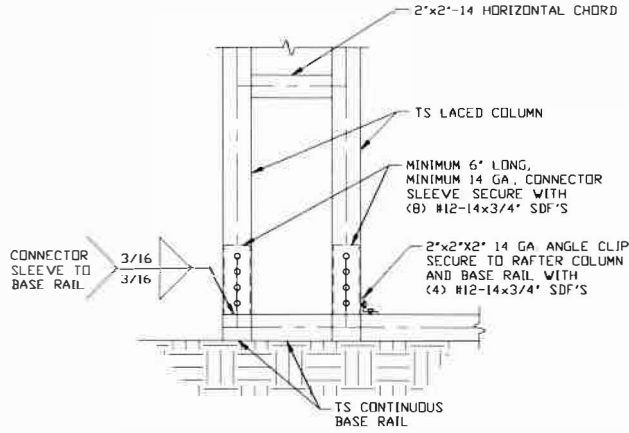


6 TRUSS TIE/INTERIOR CHORD CONNECTION DETAIL
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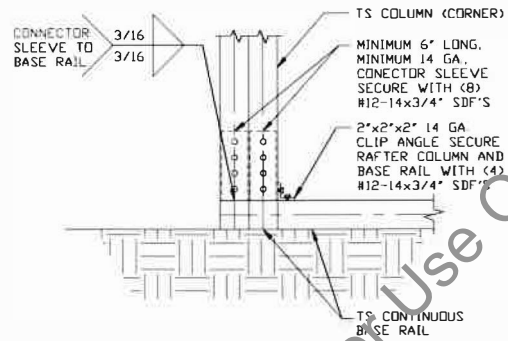
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	CLIENT: CARPORT CENTRAL	SHT. 13	DWG. NO: SK-3	REV: 4

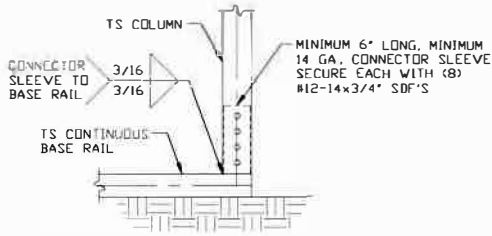
CONNECTION DETAILS



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



7A **END COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS



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

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737 SOUTH MAIN STREET
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70'-0"x20'-0" SP ENCLOSED STRUCTURE**

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SHT. 14

SCALE: NTS

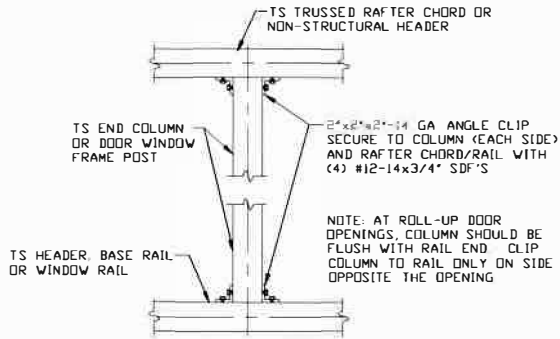
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**18169S/18254S/
JOB NO: 19174S/19339S**

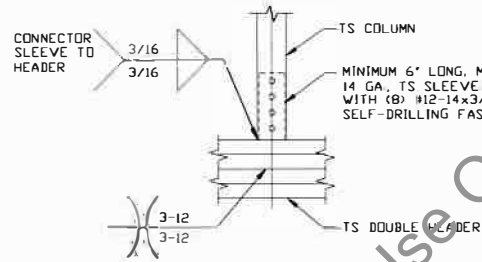
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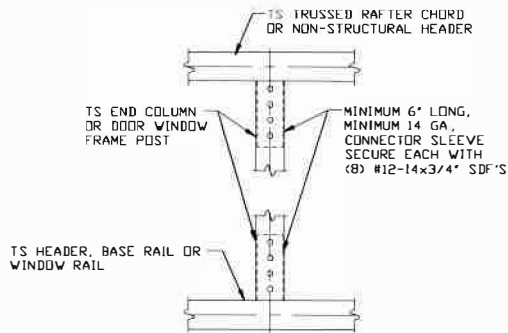
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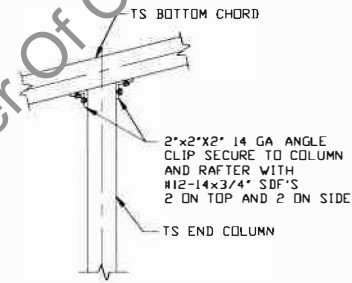
9 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



9A COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS



10 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 CHORD TO POST CONNECTION DETAIL
SCALE: NTS

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**MOORE AND ASSOCIATES
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DRAWN BY: JG

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PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

**CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20'-0" SP ENCLOSED STRUCTURE**

DATE: 12-16-20

SHT. 15

SCALE: NTS

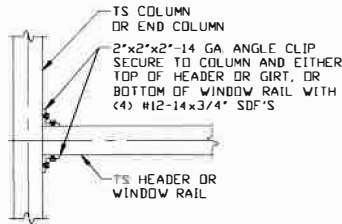
DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**

REV: 4

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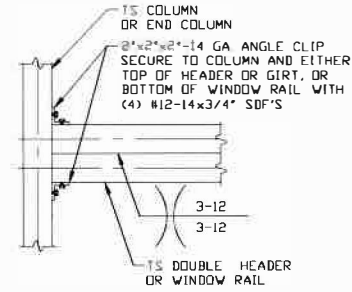
CONNECTION DETAILS



12

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

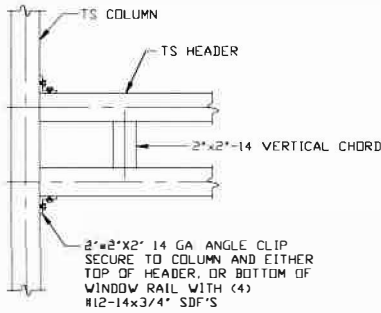
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12A

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

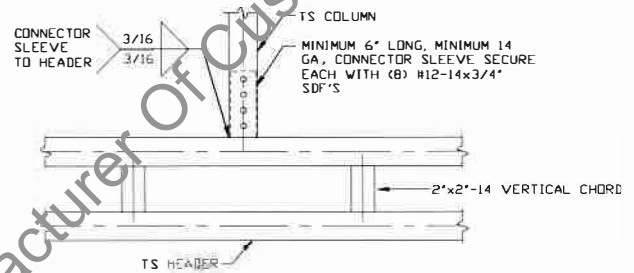
SCALE: NTS



13

HEADER TO COLUMN CONNECTION DETAIL

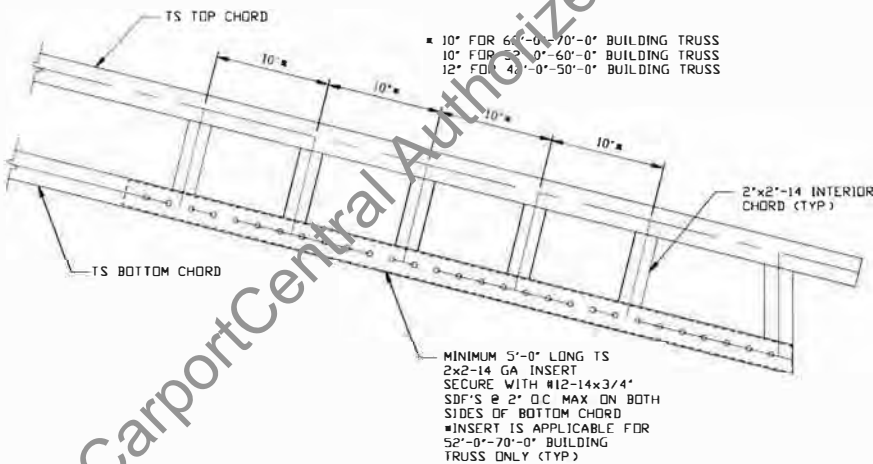
SCALE: NTS



14

COLUMN TO HEADER CONNECTION DETAIL

SCALE: NTS



15

BOTTOM CHORD TO INSERT CONNECTION DETAIL

SCALE: NTS

U-CHANNEL BRACE AND COLUMN ARE NOT SHOWN FOR CLARITY.

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

DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SCALE: NTS

DWG. NO: SK-3

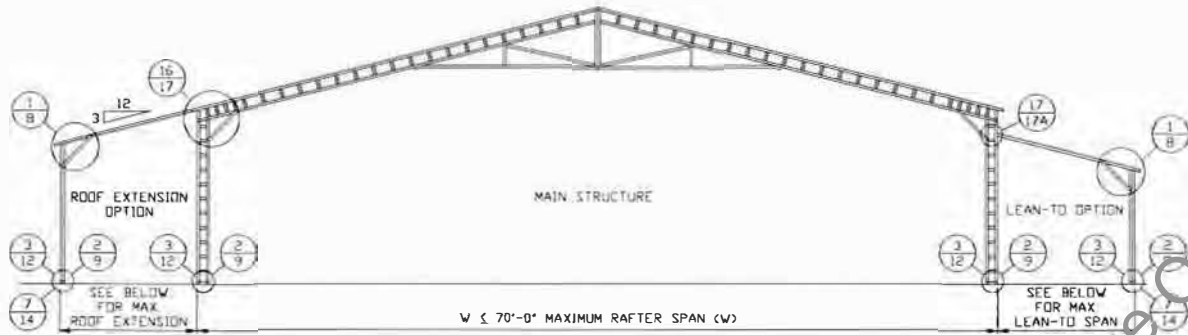
18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

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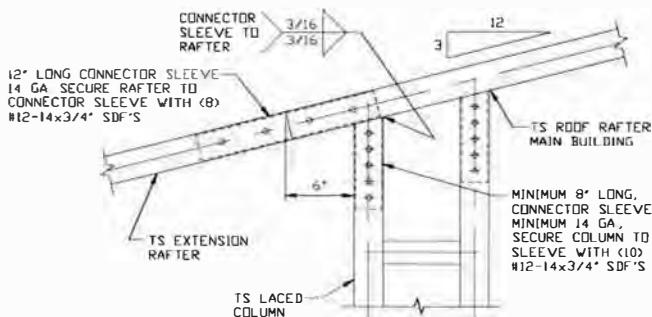
BOX EAVE RAFTER LEAN-TO OPTIONS

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN.
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



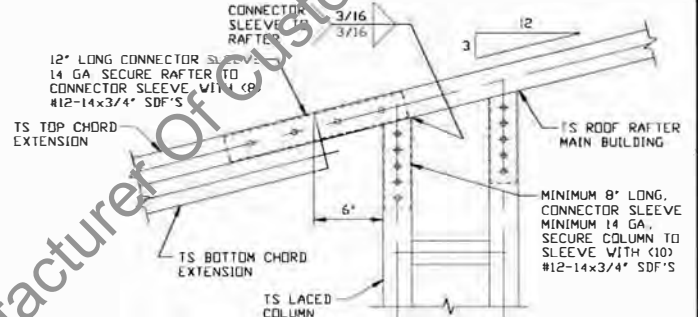
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS



**16A SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS ≤ 8'-0"**

SCALE: NTS



**16B SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPANS 8'-0" < TO ≤ 14'-0"**

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL SHT. 17

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SCALE: NTS

DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

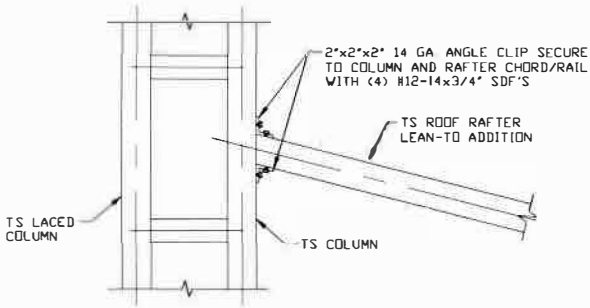
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BOX EAVE RAFTER LEAN-TO OPTIONS

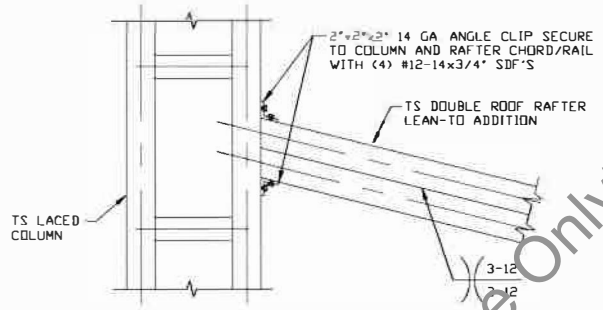
NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPANS \leq 8'-0"**

17A

SCALE: NTS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPANS 8'-0" < TO \leq 14'-0"**

17B

SCALE: NTS

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CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 17A

SCALE: NTS

DWG. NO: SK-3

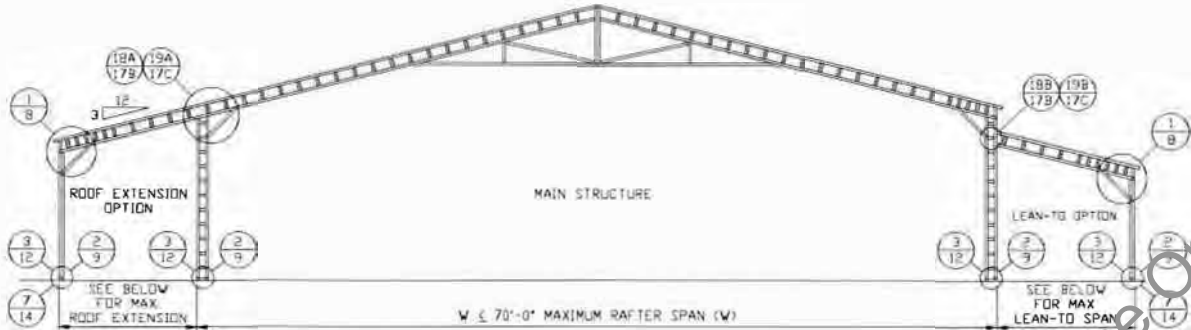
18168S/18254S/
JOB NO: 19174S/19339S

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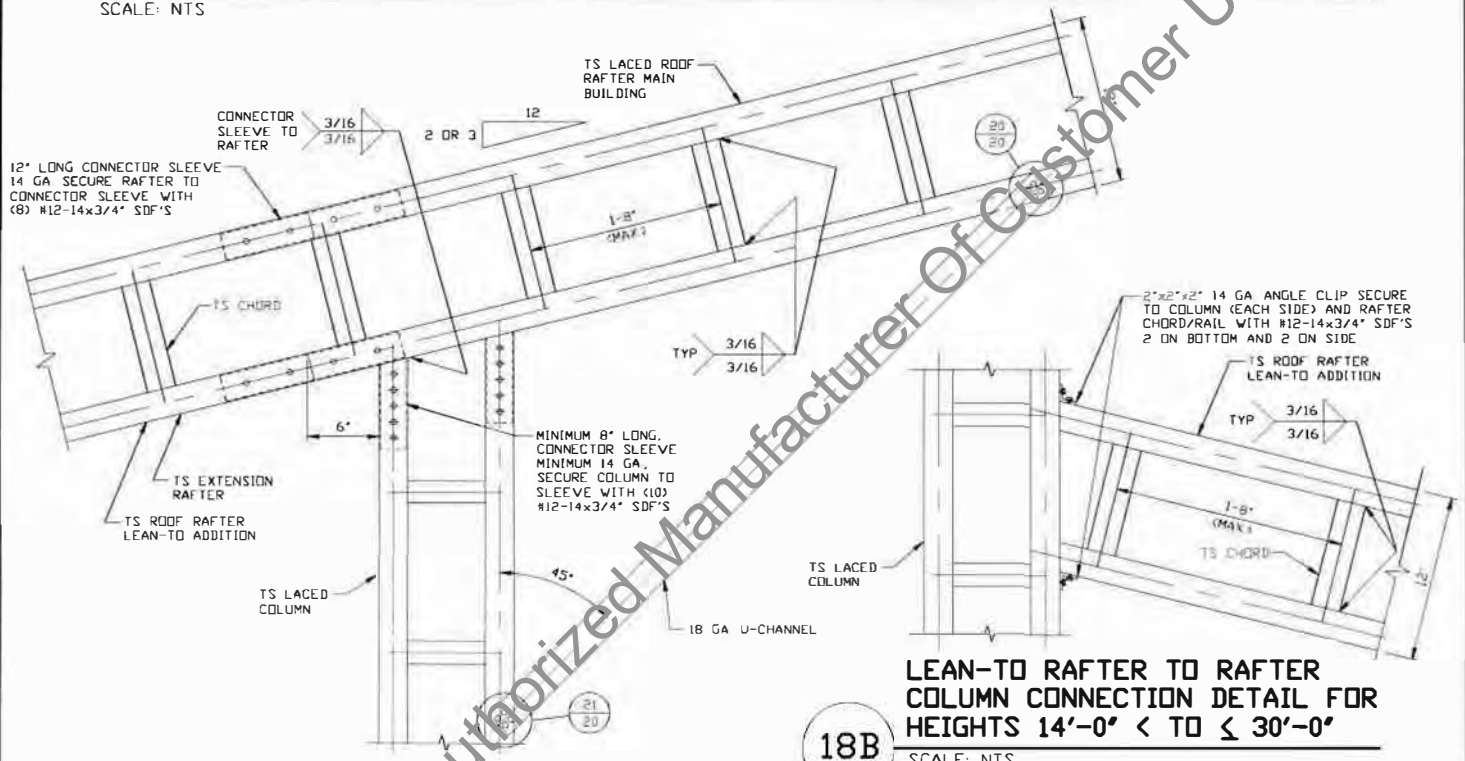
BOX EAVE RAFTER LEAN-TO OPTIONS

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



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

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 30'-0"

SCALE: NTS

SIDE EXTENSION RAFTER/COLUMN DETAIL FOR HEIGHTS 14'-0" < TO ≤ 30'-0"

SCALE: NTS

18A

18B

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CHECKED BY: PDH

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

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PROJECT MGR: VSM
CLIENT: CARPORT CENTRAL

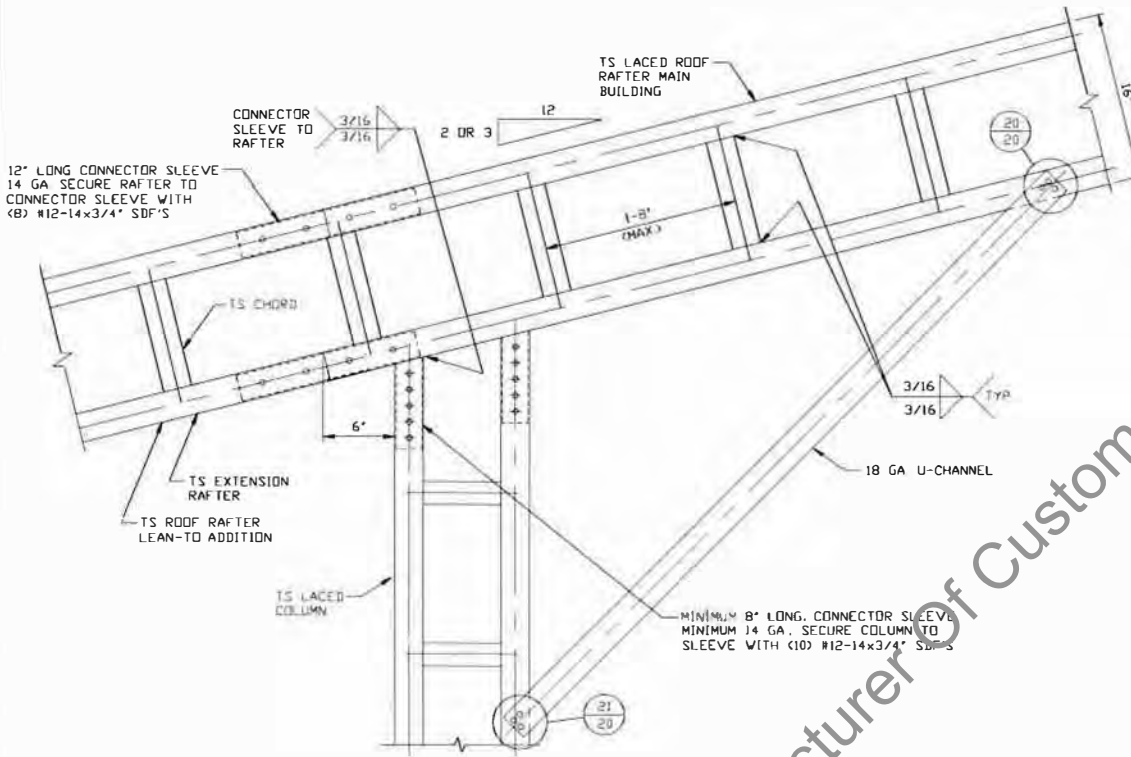
DATE: 12-16-20
SHT. 17B

SCALE: NTS
DWG. NO: SK-3

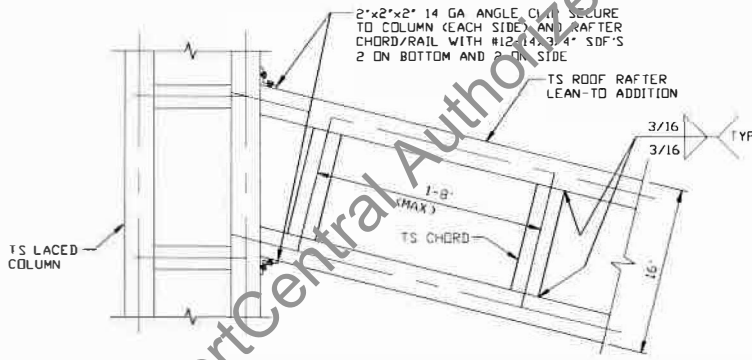
JOB NO: 19174S/19339S
REV: 4

BOX EAVE RAFTER LEAN-TO OPTIONS

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN.
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



19A SIDE EXTENSION RAFTER/COLUMN DETAIL FOR HEIGHTS 30'-0" < TO ≤ 35'-0"
SCALE: NTS



19B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 30'-0" < TO ≤ 35'-0"
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

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CARPORT CENTRAL INC.
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MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

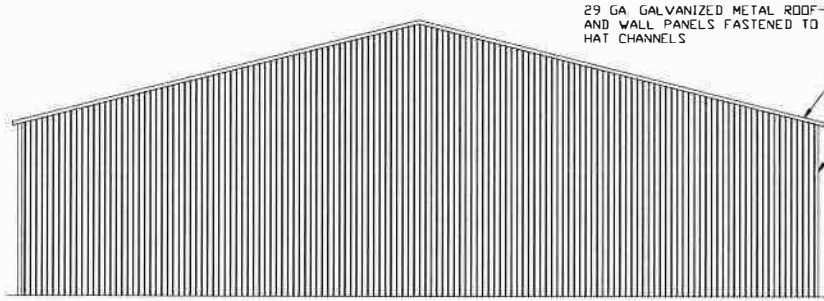
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PROJECT MGR: WSM
CLIENT: CARPORT CENTRAL

DATE: 12-16-20
SHT. 17C
SCALE: NTS
DWG. NO: SK-3
JOB NO: 19174S/19339S
REV: 4

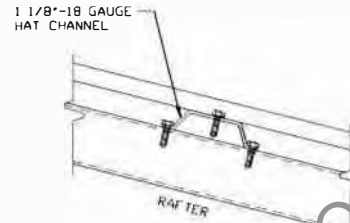
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION

NOTE: 62'-0"-70'-0" BUILDING TRUSS SHOWN
ACTUAL TRUSS VARIES WITH MAIN STRUCTURE WIDTH



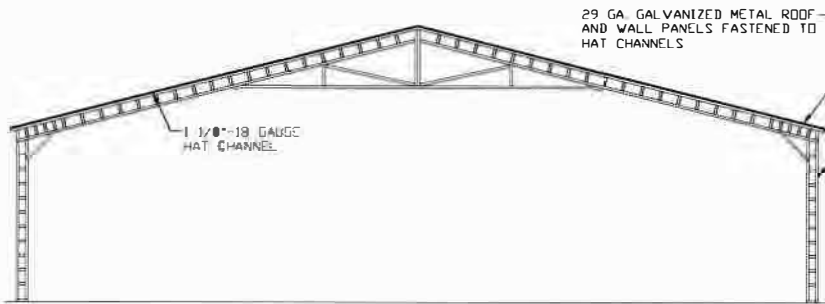
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



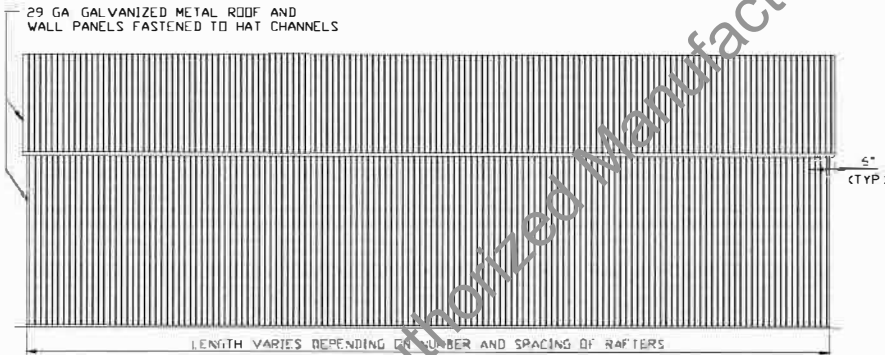
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

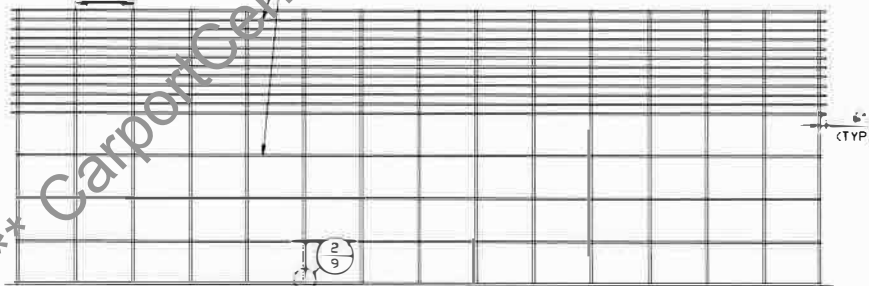
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

SEE NOTES (SHEET 3) FOR MAXIMUM SPACING
1 1/8"-18 GAUGE HAT CHANNEL SPACED AT 3'-6" (MAX) OC AND FASTENED TO EACH RAFTER WITH (2) #12-14x3/4" SDF'S



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

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CHECKED BY: PDH

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CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 18

SCALE: NTS

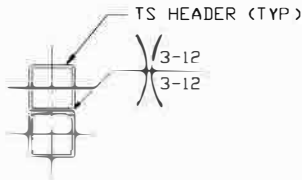
DWG. NO: SK-3

18168S/18234S/
JOB NO: 19174S/19339S

REV: 4

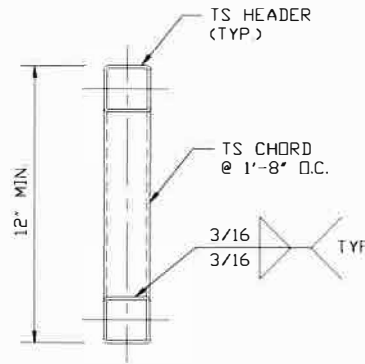
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SIDE WALL HEADER OPTIONS



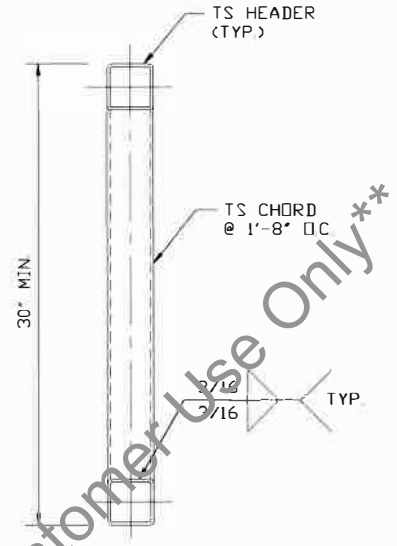
**HEADER DETAIL FOR SPANS
≤ 5'-0"**

SCALE: NTS



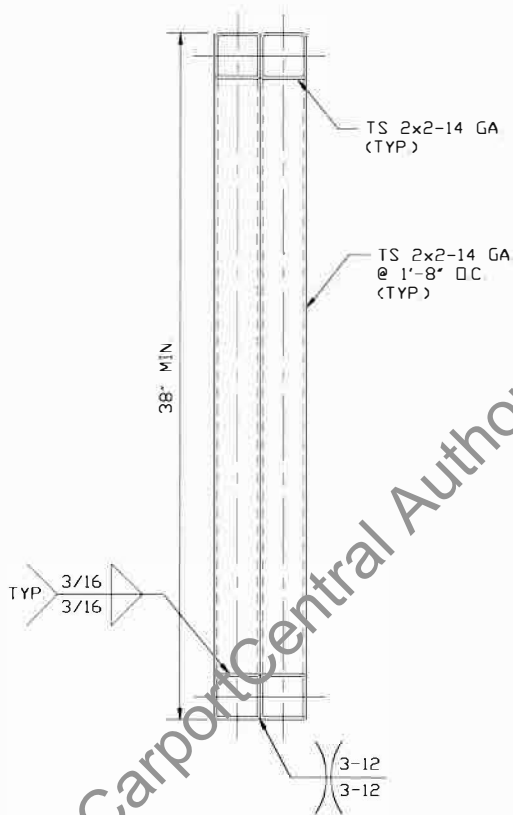
**HEADER DETAIL FOR SPANS
5'-0" < TO ≤ 10'-0"**

SCALE: NTS



**HEADER DETAIL FOR SPANS
10'-0" < TO ≤ 18'-0"**

SCALE: NTS



**** HEADER DETAIL FOR
SPANS 18'-0" < TO ≤ 30'-0"**

SCALE: NTS

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CLIENT: CARPORT CENTRAL
SHT. 19

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0" x 20' SP ENCLD ISD STRUCTUR E

DATE: 12-16-20

SCALE: NTS

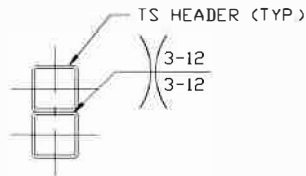
DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

REV: 4

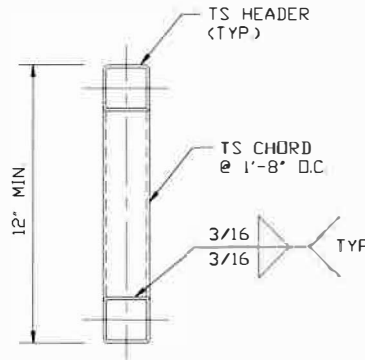
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END WALL HEADER OPTIONS



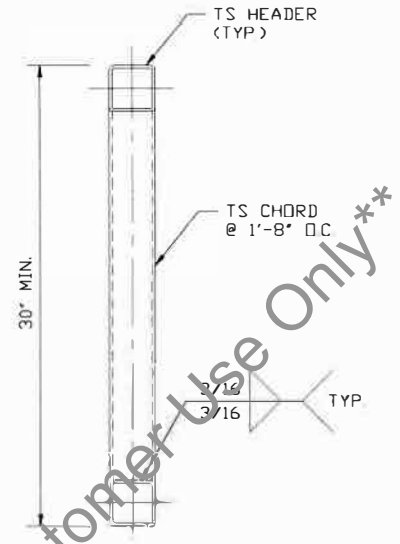
**HEADER DETAIL FOR SPANS
≤ 10'-0"**

SCALE: NTS



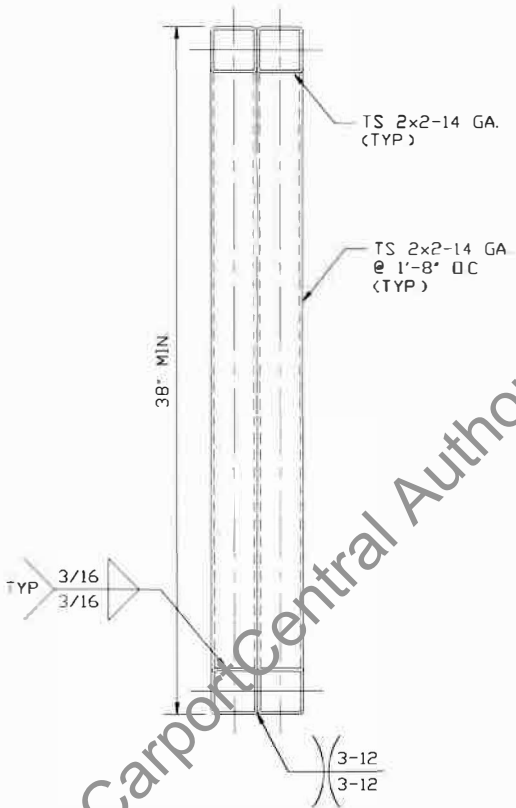
**HEADER DETAIL FOR SPANS
10'-0" < TO ≤ 18'-0"**

SCALE: NTS



**HEADER DETAIL FOR SPANS
18'-0" < TO ≤ 20'-0"**

SCALE: NTS



**** HEADER DETAIL FOR
SPANS 20'-0" < TO ≤ 30'-0"**

SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: JG

CHECKED BY: PJM

PROJECT MGR: WSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 19A

SCALE: NTS

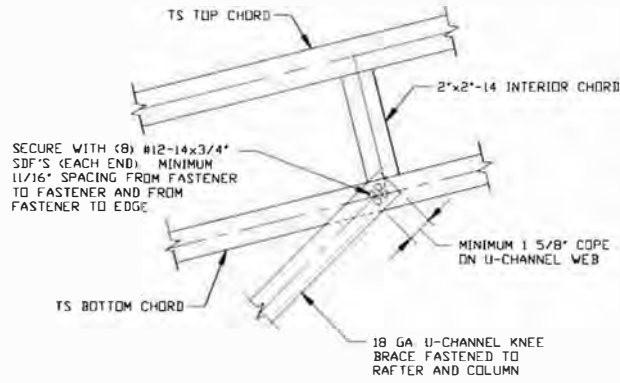
DWG. NO: SK-3

18168S/18254S/
JOB NO: 19174S/19339S

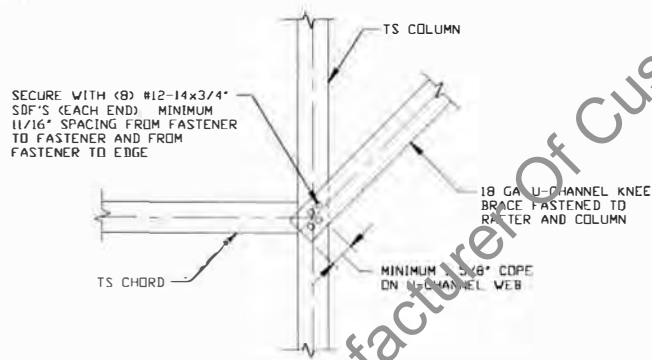
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U-CHANNEL CONNECTION DETAILS



20 U-CHANNEL TO RAFTER CONNECTION DETAIL
SCALE: NTS



21 U-CHANNEL TO COLUMN CONNECTION DETAIL
SCALE: NTS

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CARPOT CENTRAL INC.
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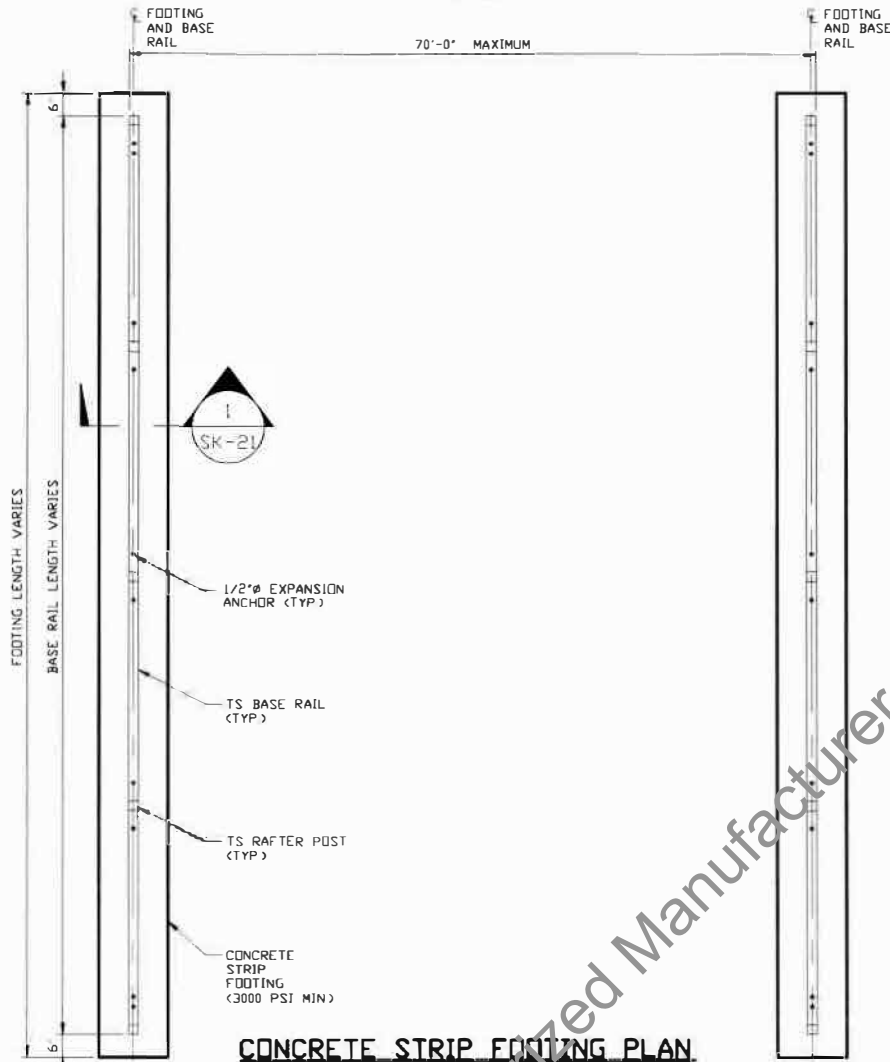
PROJECT MGR: VSM
CLIENT: CARPORT CENTRAL

DATE: 12-16-20
SHT. 20

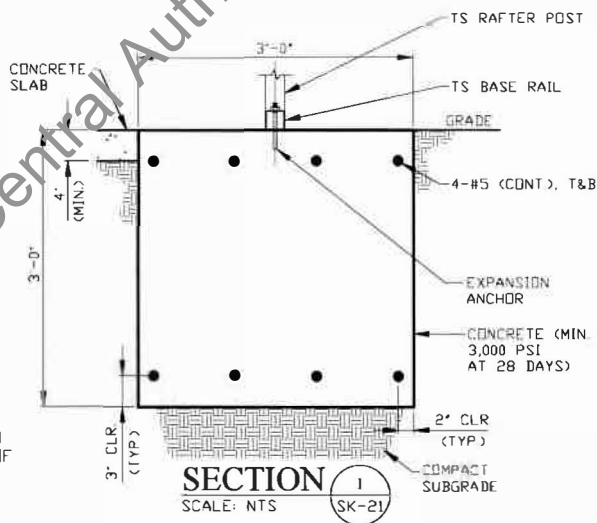
SCALE: NTS
DWG. NO: SK-3

**18168S/18254S/
JOB NO: 19174S/19339S**
REV: 4

OPTIONAL CONCRETE STRIP FOOTING FOR 70'-0" MAXIMUM WIDTH



CONCRETE STRIP FOOTING PLAN
SCALE: NTS



SECTION 1
SCALE: NTS

- NOTES:
1. COORDINATE WITH LOCAL CODES/ORD
 2. CONCRETE STRIP FOOTING DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF
 3. MINIMUM ANCHOR EDGE DISTANCE IS 4"

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DRAWN BY: JG

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: CARPORT CENTRAL

CARPORT CENTRAL INC.
737 SOUTH MAIN STREET
MOUNT AIRY, NC 27030
70'-0"x20'-0" SP ENCLOSED STRUCTURE

DATE: 12-16-20

SHT. 21

SCALE: NTS

DWG. NO: SK-3

**18160S/18254S/
JOB NO: 19174S/19339S**

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