



STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 24'- 0" WIDE X 17'- 0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

19 May 2022

Revision 1

M&A Project No. 19105S/21401S

Prepared for:

**Carport Central, Inc.
1018 Rockford Street
Mount Airy, NC 27030**

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

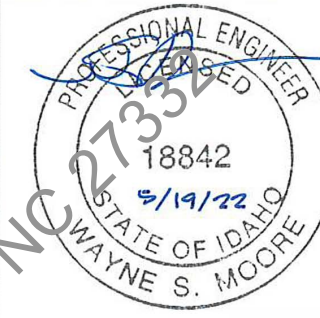
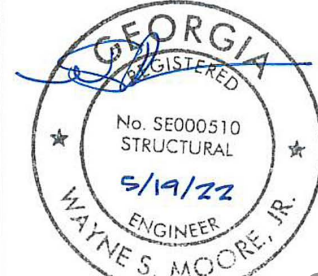
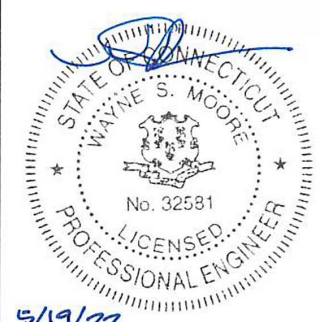
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ENGINEERING AND CONSULTING**

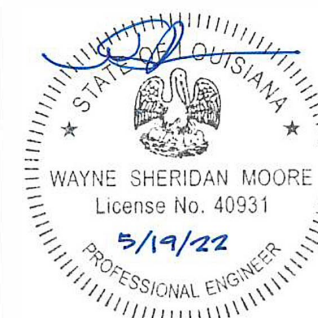
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I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Wayne S. Moore (signature) 5/19/22 (date)

Printed or typed name WAYNE SHERIDAN MOORE
 License number P25694
 My license renewal date is December 31, 2022
 Pages or sheets covered by this seal: 1-21



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 8/8/22

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.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: CC

CARPOT CENTRAL, INC.
 1018 ROCKFORD STREET
 MOUNT AIRY, NC 27030
 24'-0" x 17'-0" ENCLOSED STRUCTURE

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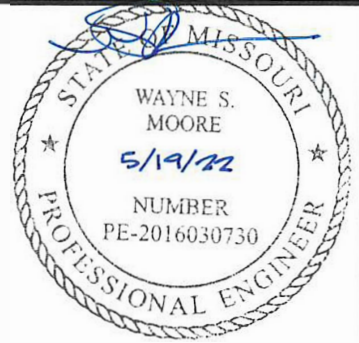
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JOB NO: 1910SS/2140IS
SHT: 1
DWG. NO: SK-3
REV: 1



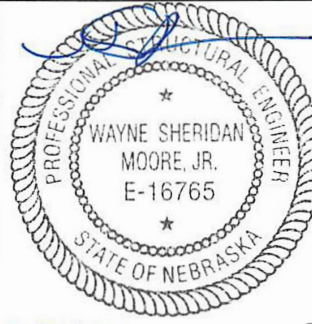
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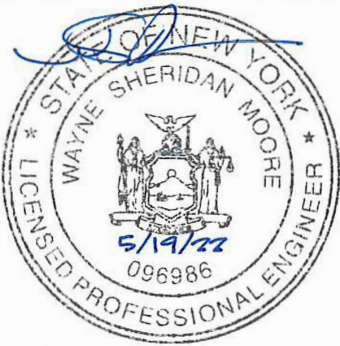
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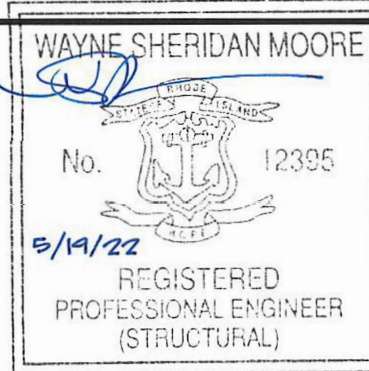
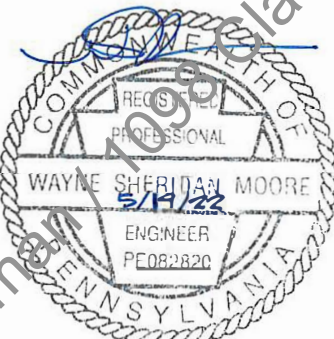
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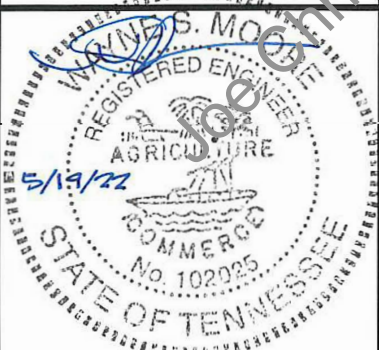
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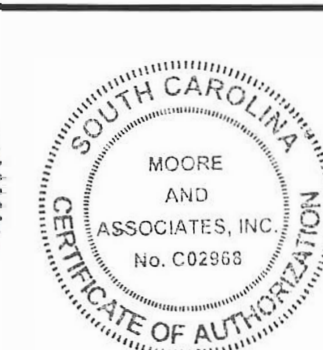
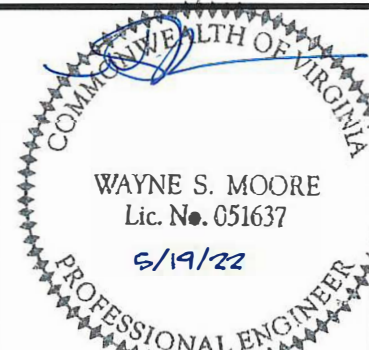
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MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 1A

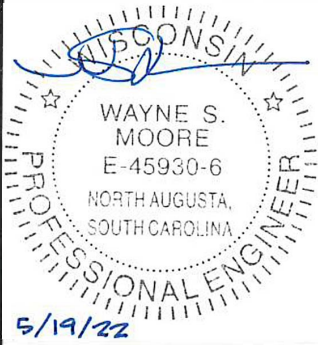
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Joe Christman / 1098 Claude White Rd Sanford NC 27332

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1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

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SHT. 1B

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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 24'-0" WIDE x 17'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) ROOF DEAD LOADS:
 - SELF-WEIGHT = 1.5 PSF
 - MEP = 0 PSF
 - COLLATERAL = 0 PSF
 - B) ROOF LIVE LOAD = 12 PSF
 - C) FLOOR LIVE LOAD = 100 PSF (4" CONCRETE SLAB/FOOTING)
 - D) GROUND SNOW LOAD = 37 PSF AT 5'-0" O.C. SPACING
 - = 41 PSF AT 4'-0" O.C. SPACING
 - = 30 PSF (WITH U-CHANNEL PEAK BRACE)

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.
4. ULTIMATE WIND SPEED 105 TO 127 MPH (NOMINAL WIND SPEED 82 TO 99 MPH).
MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET
5. ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 82 TO 108 MPH).
MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
6. END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL COLUMNS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
7. RISK CATEGORY I (NOT FOR HUMAN HABITATION).
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. CONNECTOR SLEEVES ARE MINIMUM 6" LONG, TS 2"x2"-14 GAUGE FOR 2 1/4"x2 1/4"-14 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
11. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 (WITH MINIMUM YIELD STRENGTH (F_y) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
12. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 9 INCHES.
13. FASTENERS CONSIST OF #12-14x3/4" (UNLESS OTHERWISE NOTED) SELF-DRILLING FASTENER (SD), 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.
14. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
15. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG. SOIL NAILS MAY BE USED FOR MAXIMUM WIND V = 145 MPH AND IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND V > 145 MPH AND/OR IN UNSUITABLE SOILS AS NOTED.
16. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
17. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R = 3.25
 - S_{DS} = 2.625 g I_E = 1.0
 - S_{D1} = 2.13 g V = C_sW
18. DOOR AND WINDOW PRESSURES APPLICABLE TO THE STATE OF FLORIDA.
19. IF MORE THAN 50% OF COLUMNS (LEGS) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
20. **THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTENDED FOR PLANT FABRICATION AND ERECTION AHEAD TO SHOP DRAWINGS. THE MASTER DESIGN IS NOT PRIMARILY INTENDED FOR CONSTRUCTION PERMIT. WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING OFFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR BUILDING PERMIT. ANY VARIATION FROM THE ANALYSIS/ DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.**

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

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PROJECT MGR: WSN

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0"x17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

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SCALE: NTS

DWG. NO: SK-3

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LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

2009 INTERNATIONAL BUILDING CODE (IBC 2009)

2006 INTERNATIONAL BUILDING CODE (IBC 2006)

BUILDING CODE 2021 OF ALABAMA
(ADOPTS THE IBC 2021 WITHOUT AMENDMENTS)
(IBC 2015, IBC 2018, IBC 2021 (DEPENDENT UPON LOCAL JURISDICTION))

ARKANSAS FIRE PREVENTION CODE, VOL. II BUILDING
(ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE 2021 OF COLORADO
(ADOPTS THE IBC 2021 WITH AMENDMENTS)
(IBC 2012, IBC 2015, IBC 2018, IBC 2021
(DEPENDENT UPON LOCAL JURISDICTION))

2015 IBC PORTION OF THE 2018 CT STATE BUILDING CODE
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

DELAWARE BUILDING CODE
(IBC 2012, IBC 2015, IBC 2018 (DEPENDENT
UPON LOCAL JURISDICTION))

2020 FLORIDA BUILDING CODE, 7TH EDITION
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF IDAHO
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

INDIANA BUILDING CODE, 2014 EDITION
(ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE 2015 OF IOWA
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF KANSAS
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 KENTUCKY BUILDING CODE
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF LOUISIANA
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF MARYLAND
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

MA STATE BUILDING CODE, 9TH ED, BASE VOLUME
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

2015 MICHIGAN BUILDING CODE
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF MISSISSIPPI
(ADOPTS THE IBC 2018 WITHOUT AMENDMENTS)
(IBC 2012, IBC 2015 AND IBC 2018
(DEPENDENT UPON LOCAL JURISDICTION))

BUILDING CODE 2018 OF MISSOURI
(ADOPTS THE IBC 2018 WITHOUT AMENDMENTS)
(IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018
(DEPENDENT UPON LOCAL JURISDICTION))

BUILDING CODE 2018 OF NEBRASKA
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF NEW JERSEY
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

2015 NEW MEXICO COMMERCIAL BUILDING CODE
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

2020 BUILDING CODE OF NEW YORK STATE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
NYC BUILDING CODE 2014
(ADOPTS THE IBC 2009 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

OHIO BUILDING CODE 2017
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF OKLAHOMA
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF PENNSYLVANIA
(ADOPTS THE IBC 2018 WITH AMENDMENTS)
PHILADELPHIA BUILDING CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

2022 RHODE ISLAND BUILDING CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 SOUTH CAROLINA BUILDING CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE
(ADOPTS THE IBC 2012 WITH AMENDMENTS)
BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON
COUNTY (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE OF THE TEXAS INDUSTRIALIZED
HOUSING AND BUILDINGS PROGRAM
(ADOPTS THE IBC 2015 WITH AMENDMENTS)
BUILDING CODE 2021 OF AUSTIN (ADOPTS THE IBC
2021 WITH AMENDMENTS)
DALLAS BUILDING CODE (ADOPTS THE IBC 2015
WITH AMENDMENTS)
IBC 2006, IBC 2009, IBC 2012, IBC 2015, IBC 2018,
IBC 2021 (DEPENDENT UPON LOCAL JURISDICTION))

2018 VIRGINIA CONSTRUCTION CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2015 OF WEST VIRGINIA
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF WISCONSIN
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

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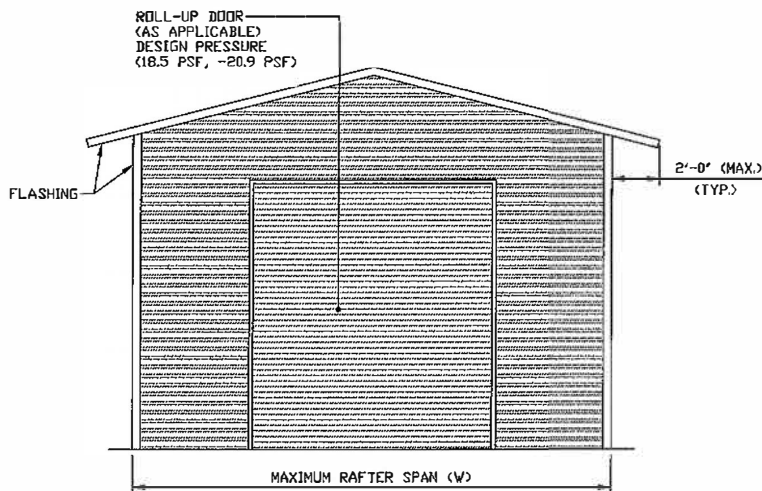
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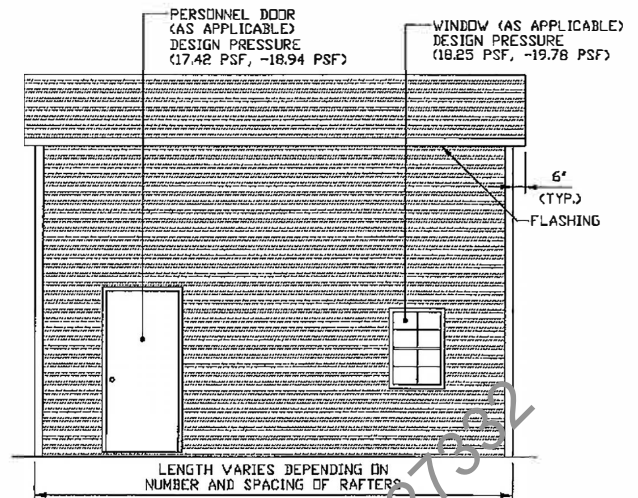
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION-HORIZONTAL ROOF

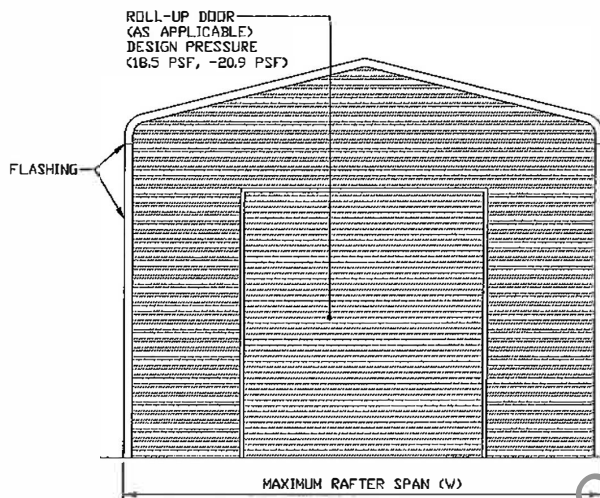
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TYPICAL SIDE ELEVATION-HORIZONTAL ROOF

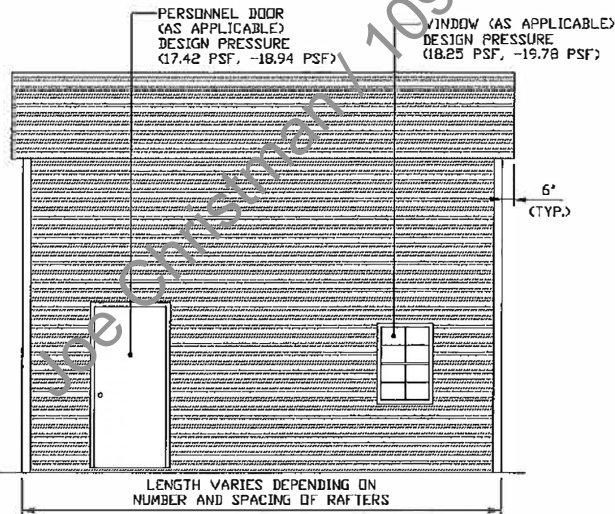
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BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

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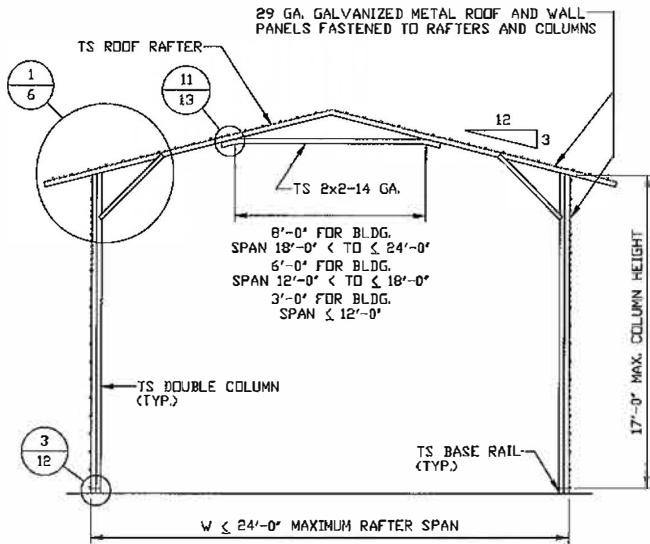
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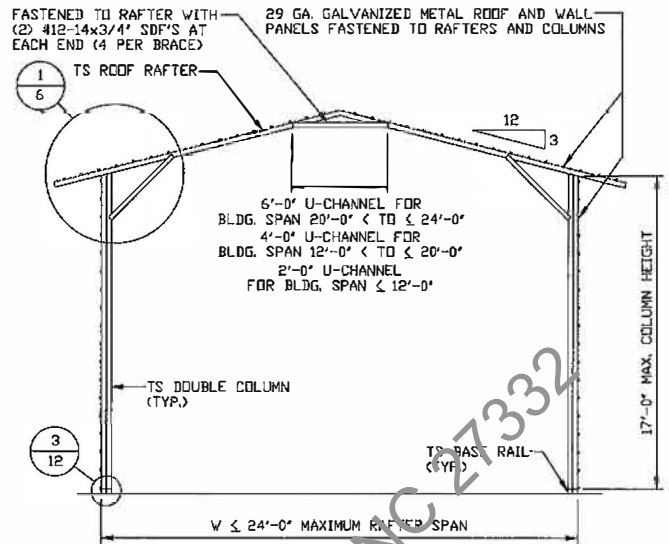
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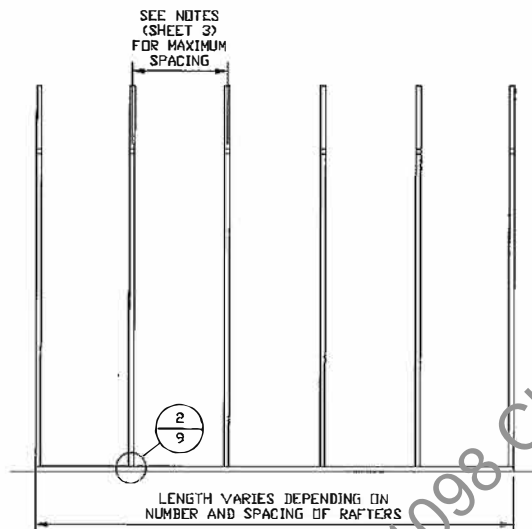
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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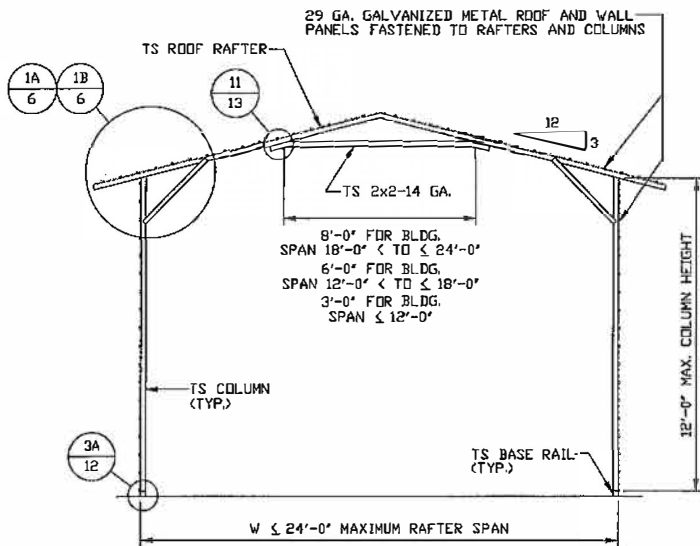
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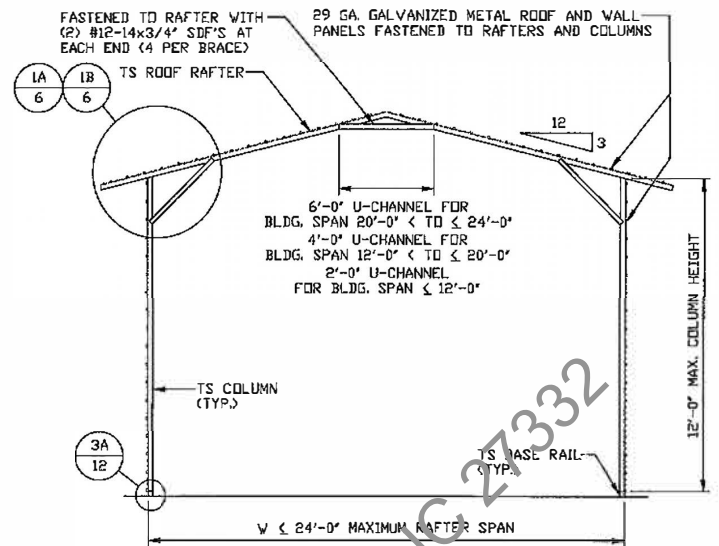
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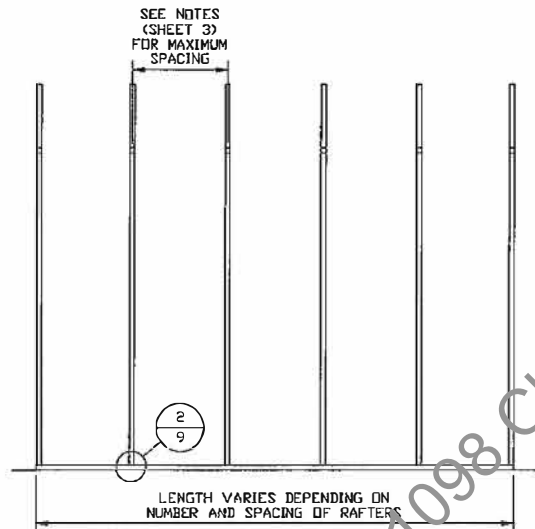
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TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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DATE: 5-19-22

SHT. 5A

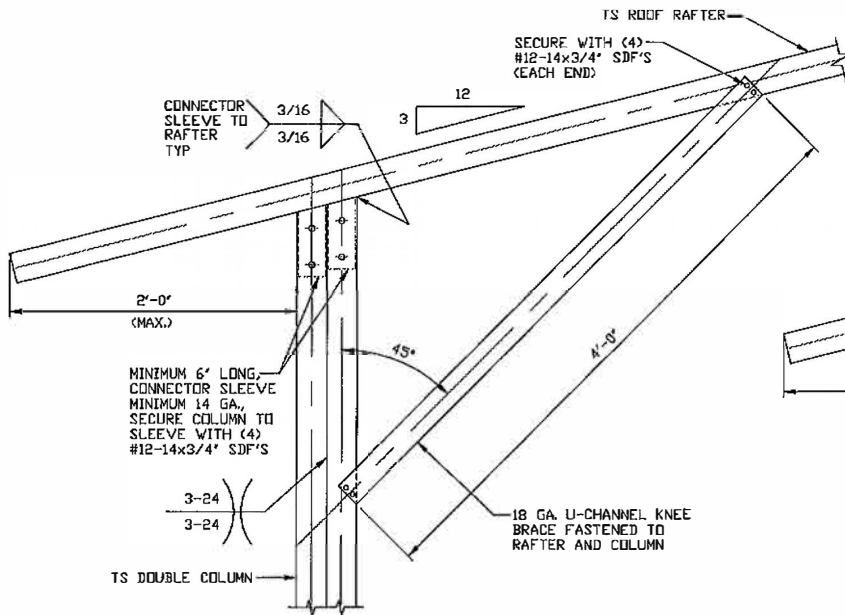
SCALE: NTS

DWG. NO: SK-3

JOB NO:
191055/21401S

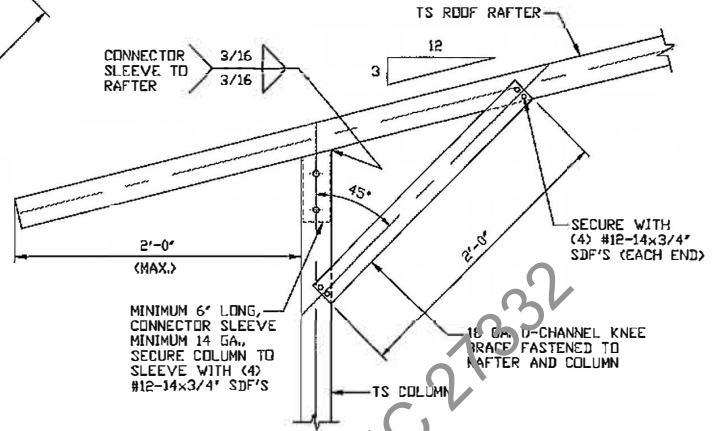
REV: 1

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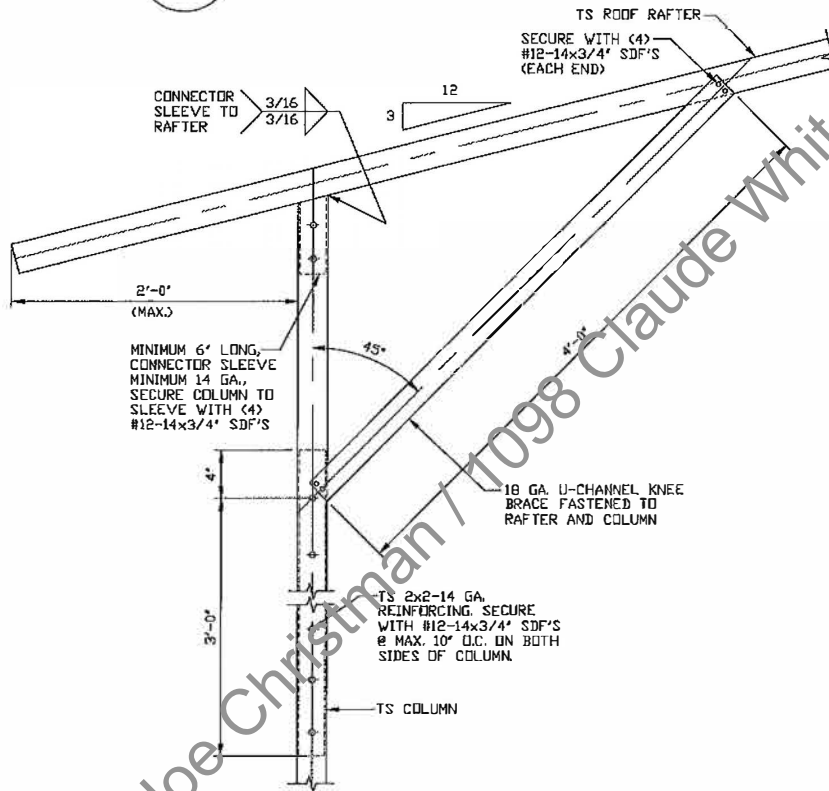
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 17'-0"
SCALE: NTS



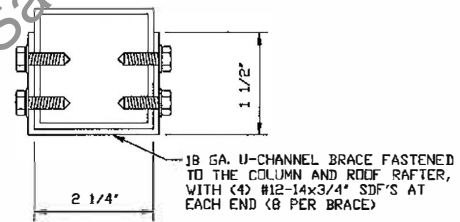
1B

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



1A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"
SCALE: NTS
NOTE: MAX. COLUMN HEIGHT IS 14'-0" FOR WIND SPEED 114 MPH @ 5'-0" O.C. SPACING.
NOTE: MAX. COLUMN HEIGHT IS 15'-0" FOR WIND SPEED 112 MPH @ 4'-0" O.C. SPACING.



BRACE SECTION
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

CARPORIT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 6

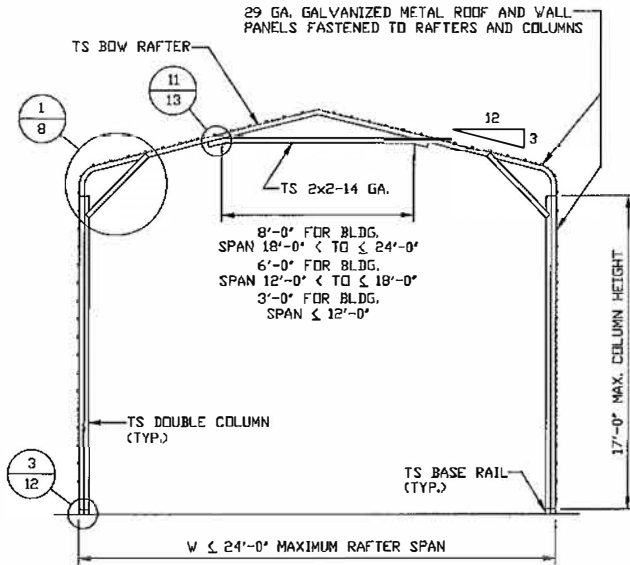
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DWG. NO: SK-3

JOB NO: 191055/214015

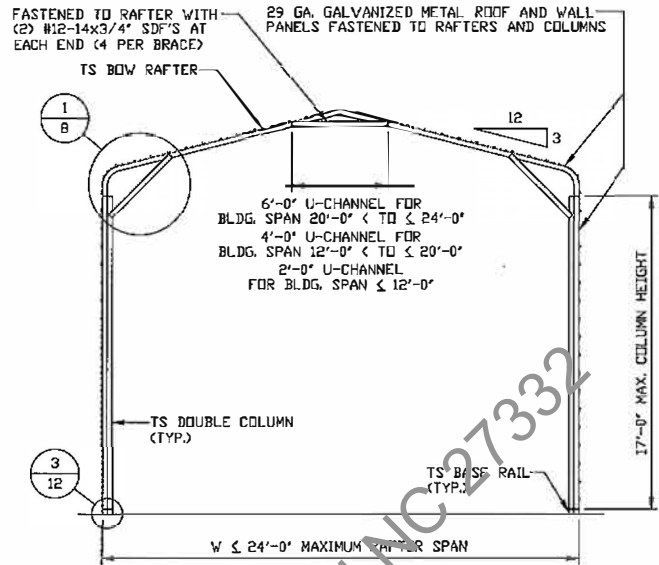
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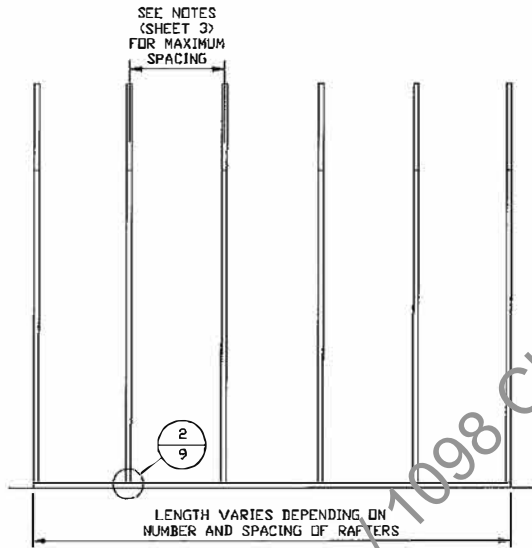
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PIH

PROJECT MGR: WSM

CLIENT: CC

**CARPOR CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE**

DATE: 5-19-22

SHT. 7

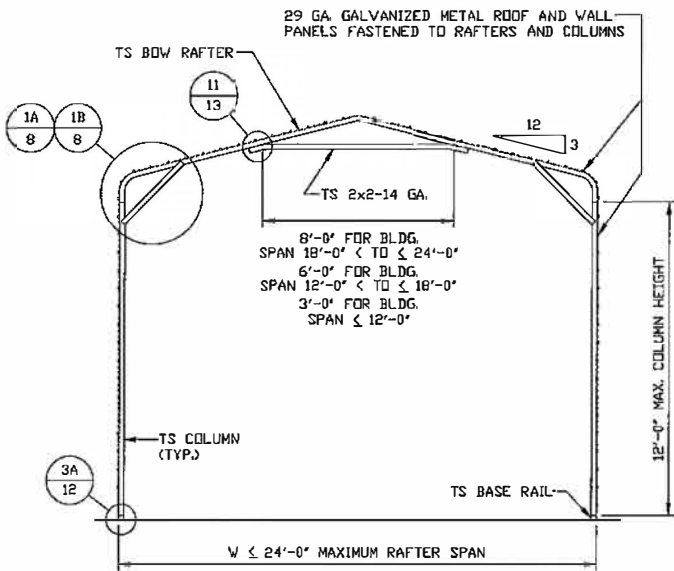
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DWG. NO: SK-3

**JOB NO:
1910SS/21401S**

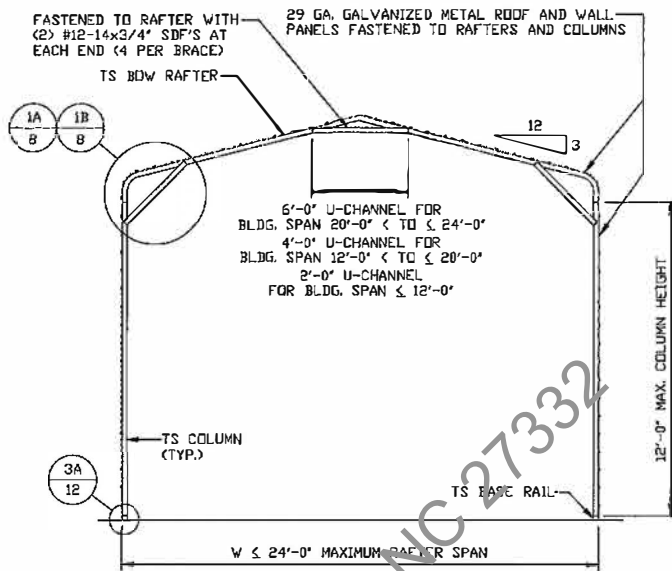
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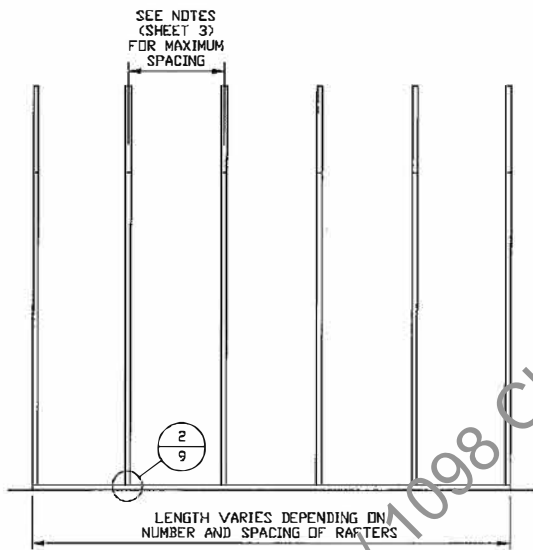
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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

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CHECKED BY: PDH

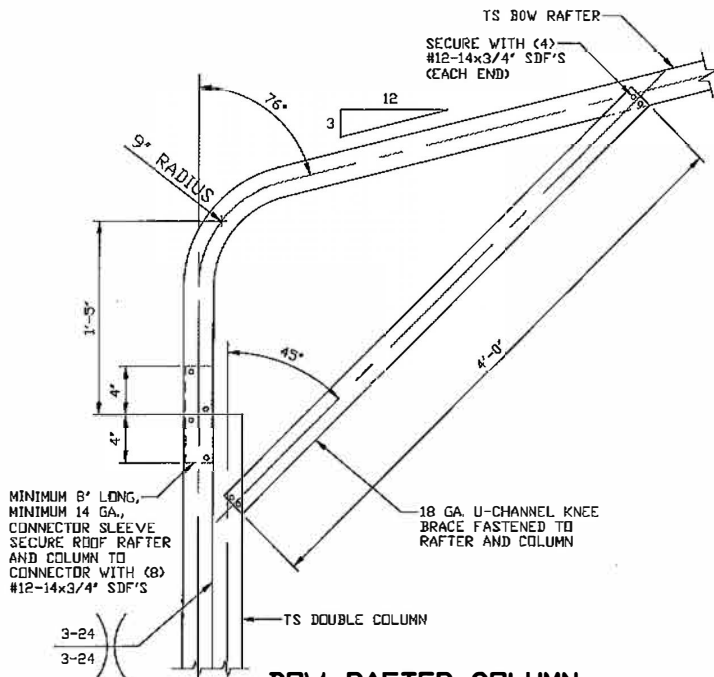
CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

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PROJECT MGR: WSM
CLIENT: CC

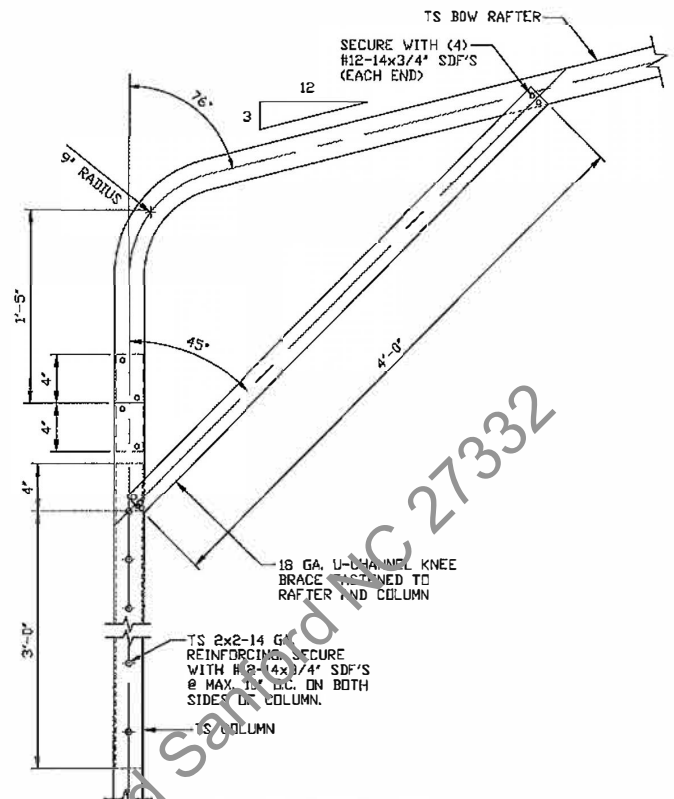
DATE: 5-19-22
SHT. 7A

SCALE: NTS
DWG. NO: SK-3
JOB NO: 191056/21401S
REV: 1



BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO <= 17'-0"

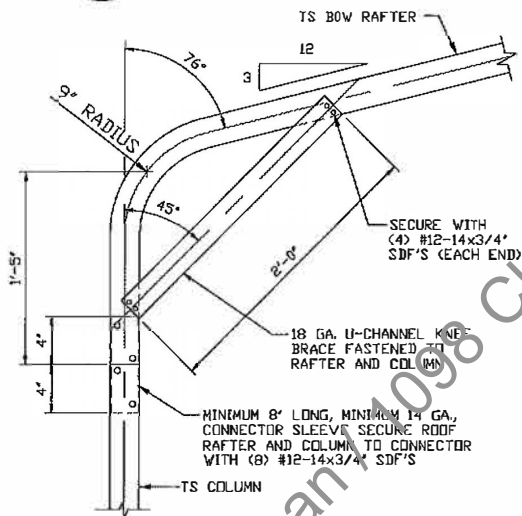
SCALE: NTS



BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO <= 12'-0"

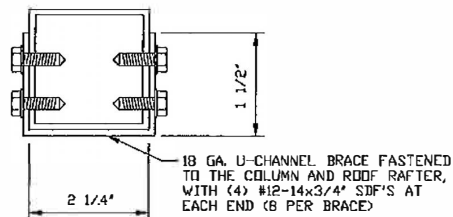
SCALE: NTS

NOTE: MAX. COLUMN HEIGHT IS 14'-0" FOR WIND SPEED 114 MPH @ 5'-0" O.C. SPACING.
NOTE: MAX. COLUMN HEIGHT IS 15'-0" FOR WIND SPEED 112 MPH @ 4'-0" O.C. SPACING.



BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS <= 10'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0"x17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 8

SCALE: NTS

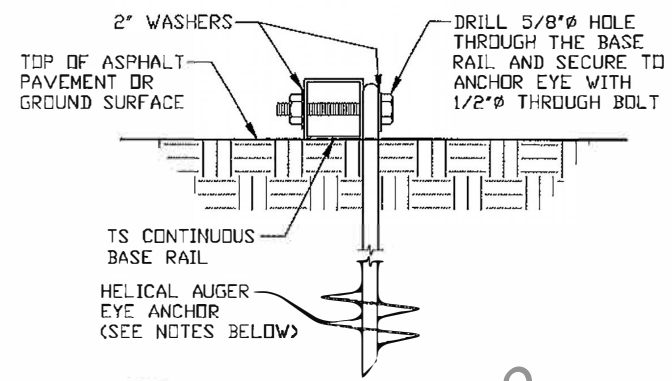
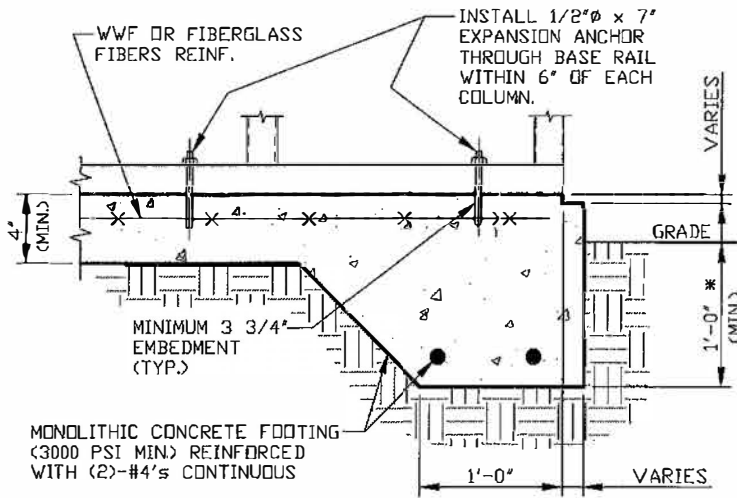
DWG. NO: SK-3

JOB NO: 1910SS/21401S

REV: 1

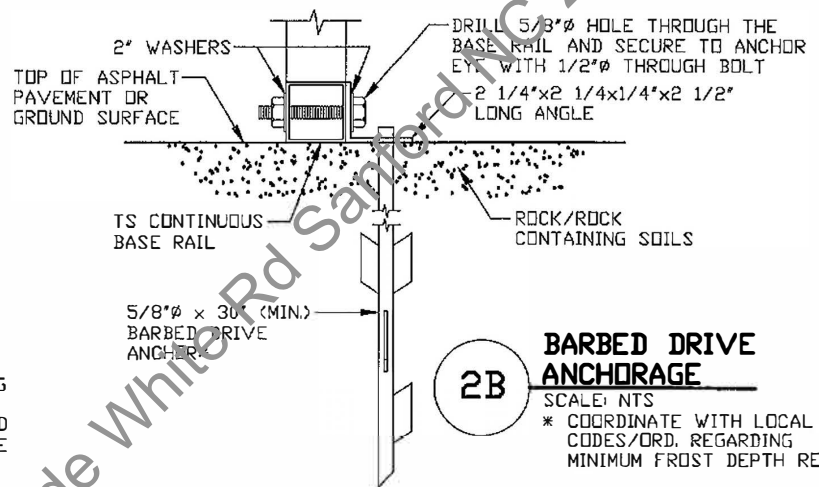
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BASE RAIL ANCHORAGE OPTIONS



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4".
 * COORDINATE WITH LOCAL CODES/ORD.

2A HELICAL AUGER ANCHORAGE
 SCALE: NTS (CAN BE USED FOR ASPHALT)



2B BARBED DRIVE ANCHORAGE
 SCALE: NTS
 * COORDINATE WITH LOCAL CODES/ORD. REGARDING MINIMUM FROST DEPTH REQ.

GENERAL NOTES

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

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318.

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

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

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

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

HELICAL AUGER ANCHOR NOTES:

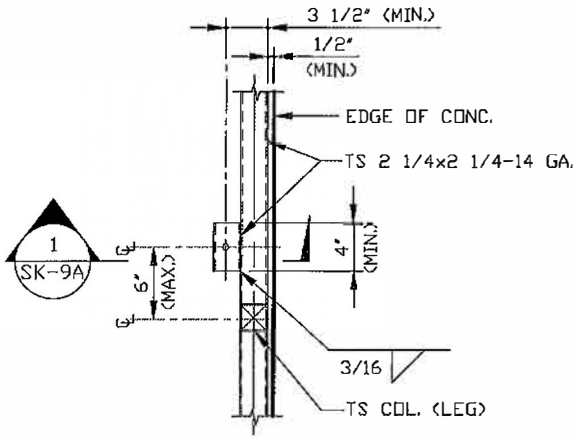
1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.

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

DRAWN BY: LT	CARPORT CENTRAL, INC. 1018 ROCKFORD STREET MOUNT AIRY, NC 27030		
CHECKED BY: PDH	24'-0" x 17'-0" ENCLOSED STRUCTURE		
PROJECT MGR: WSM	DATE: 5-19-22	SCALE: NTS	JOB NO: 1910SS/21401S
CLIENT: CC	SHT. 9	DWG. NO: SK-3	REV: 1

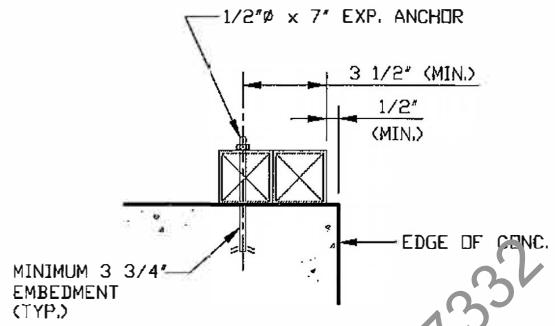
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BASE RAIL ANCHORAGE OPTIONS

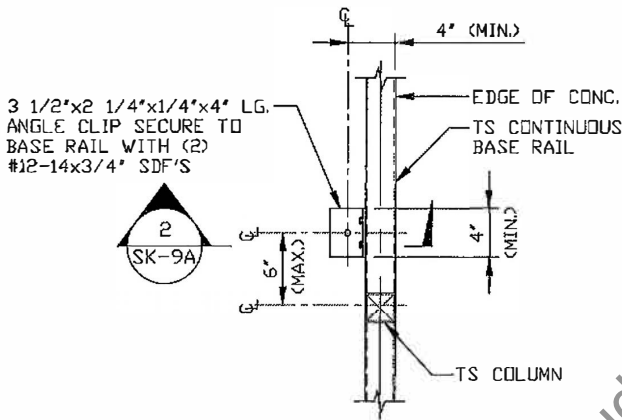


TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

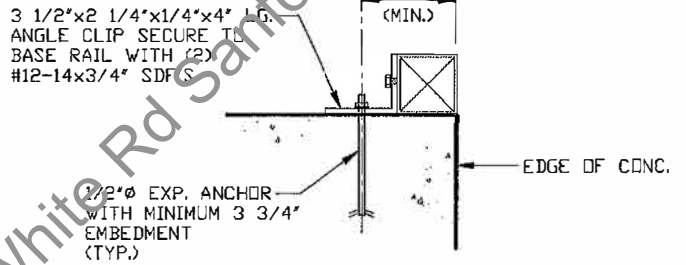


SECTION 1
SCALE: NTS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION 2
SCALE: NTS

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

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

**CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE**

DATE: 5-19-22

SHT. 9A

SCALE: NTS

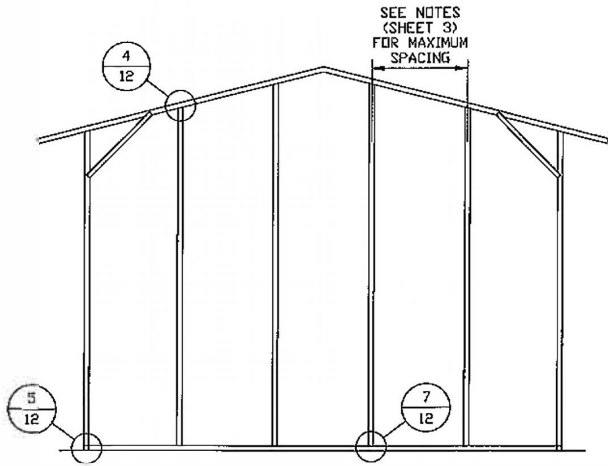
DWG. NO: SK-3

**JOB NO:
1910SS/21401S**

REV: 1

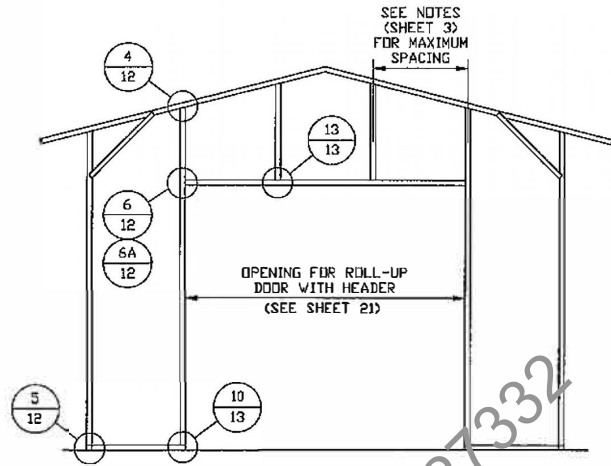
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



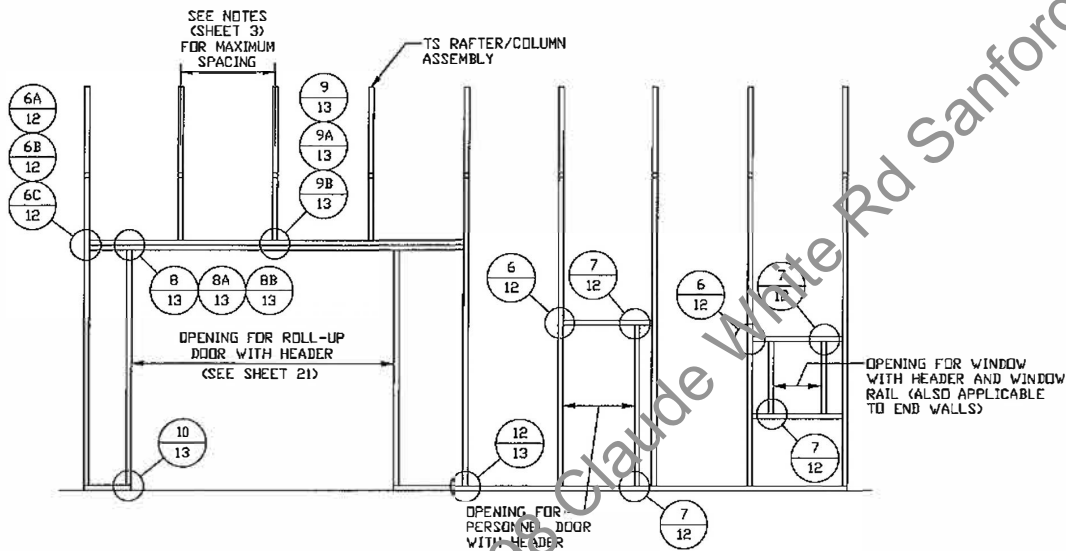
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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

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CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 10

SCALE: NTS

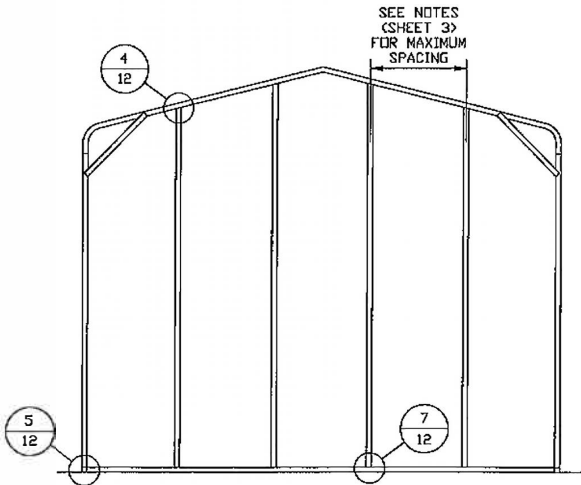
DWG. NO: SK-3

**JOB NO:
1910SS/21401S**

REV: 1

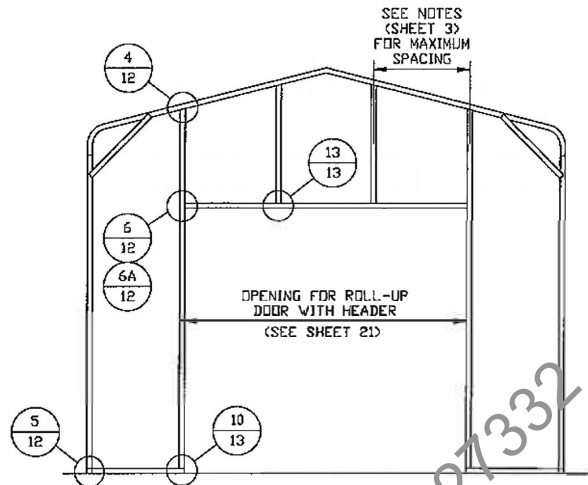
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



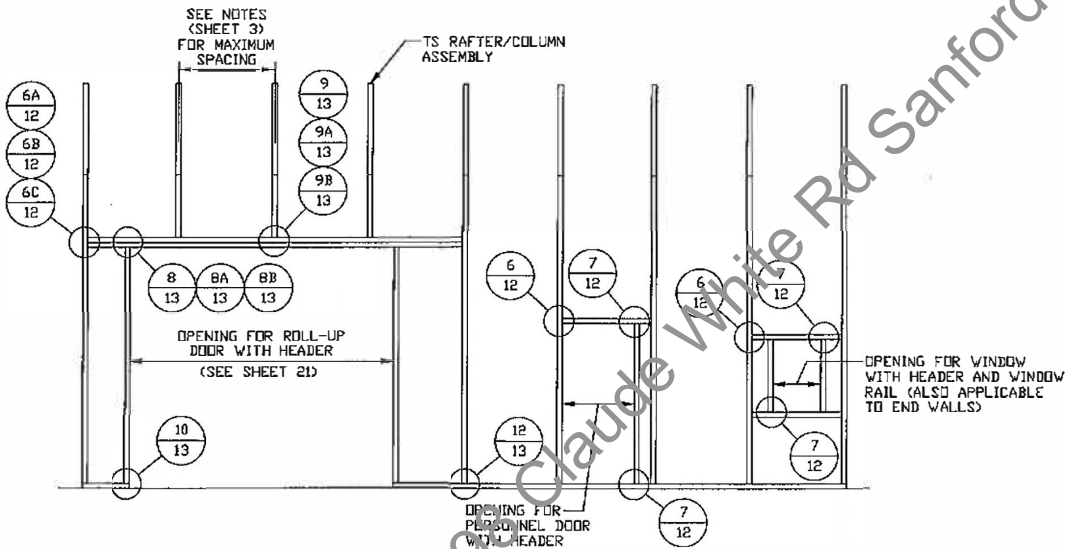
**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 11

SCALE: NTS

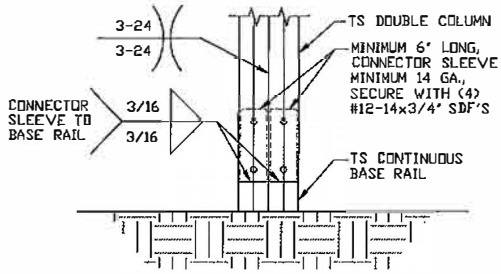
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**JOB NO:
19105S/E140IS**

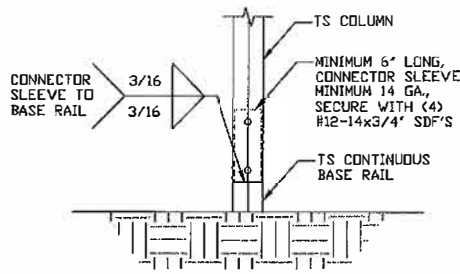
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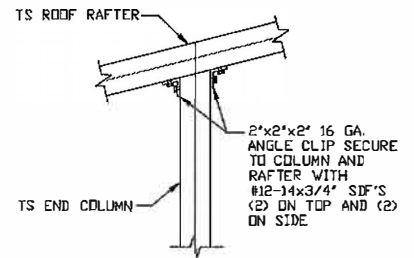
CONNECTION DETAILS



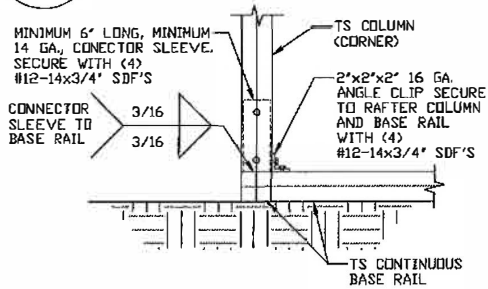
3 RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



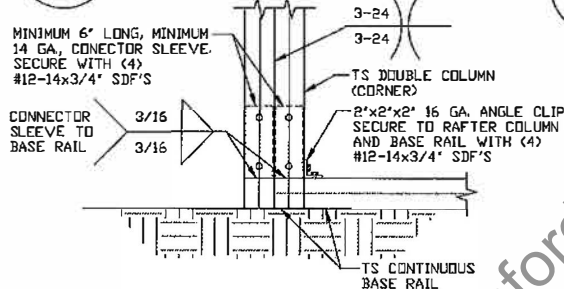
3A RAFTER COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



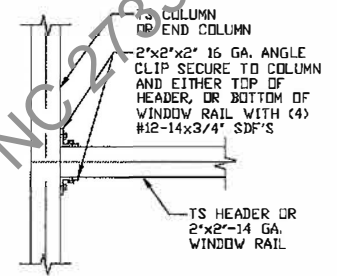
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



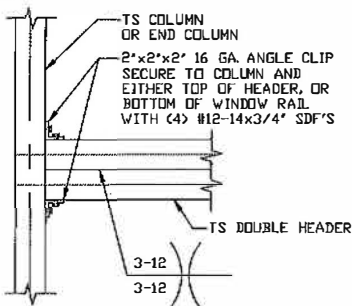
5 END COLUMN/BASE RAIL CONNECTION DETAIL
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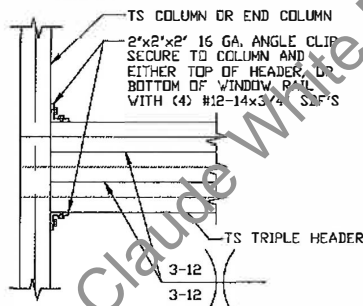
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



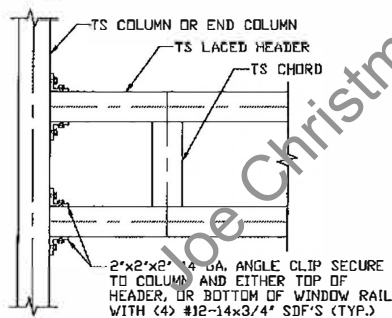
6 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



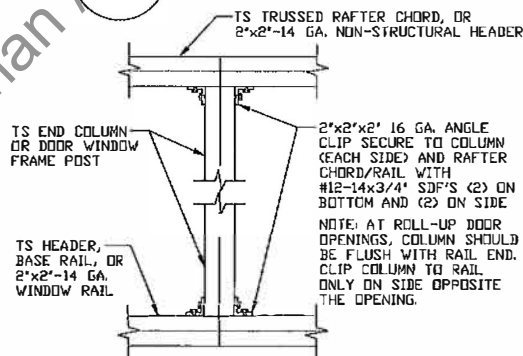
6A DOUBLE HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



6B TRIPLE HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



6C LACED HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



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

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSH

CLIENT: CC

CARPOT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 12

SCALE: NTS

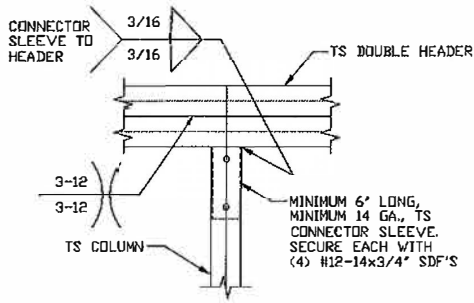
DWG. NO: SK-3

JOB NO: 1905S/21401S

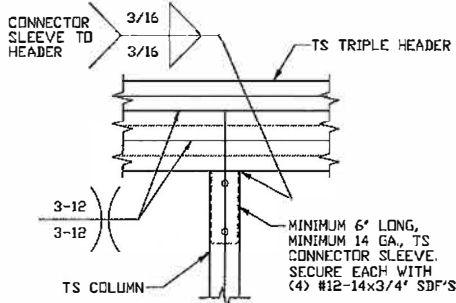
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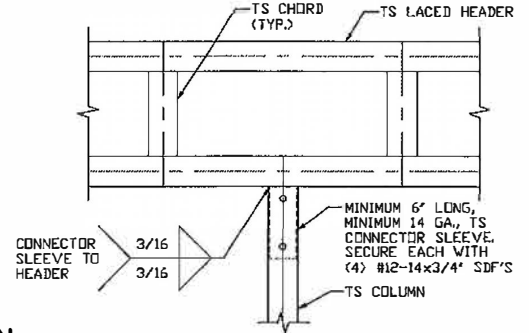
CONNECTION DETAILS



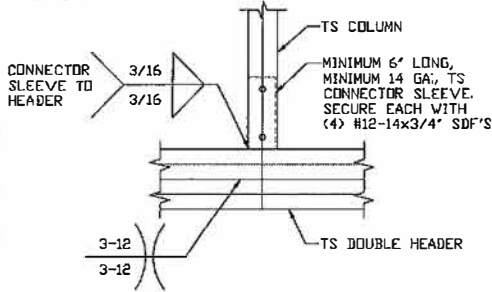
8 **DOUBLE HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



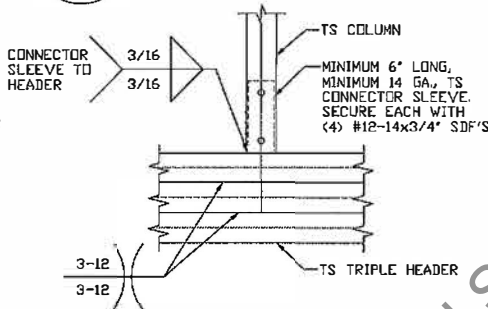
8A **TRIPLE HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



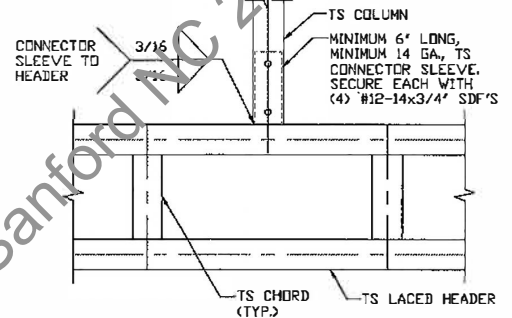
8B **LACED HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



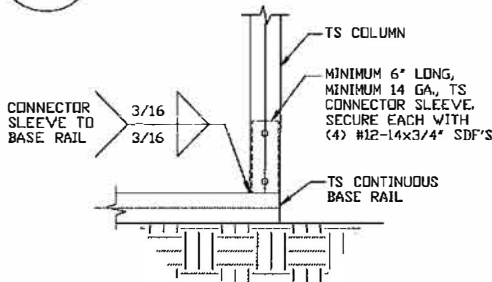
9 **COLUMN/DOUBLE HEADER CONNECTION DETAIL**
SCALE: NTS



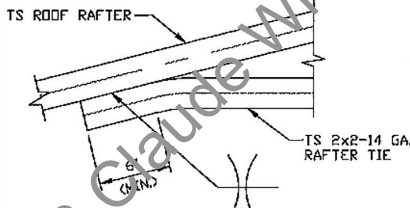
9A **COLUMN/TRIPLE HEADER CONNECTION DETAIL**
SCALE: NTS



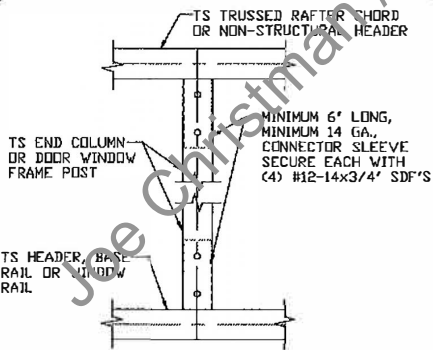
9B **COLUMN/LACED HEADER CONNECTION DETAIL**
SCALE: NTS



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



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



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

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

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 13

SCALE: NTS

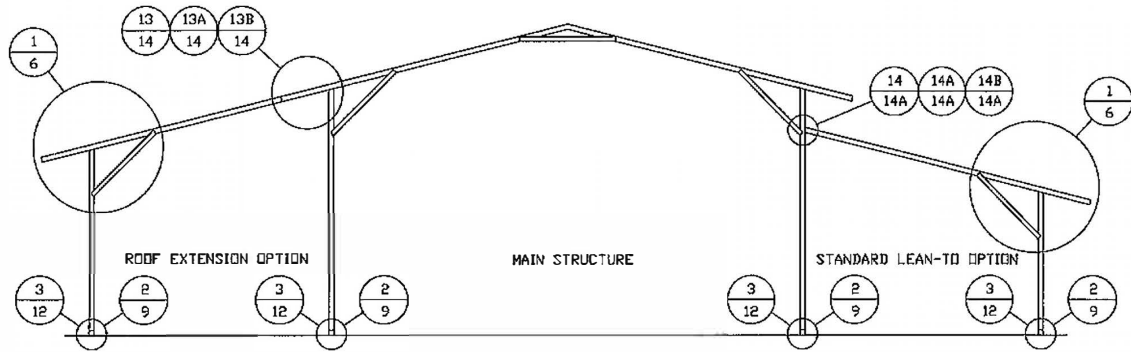
DWG. NO: SK-3

**JOB NO:
19105S/214DIS**

REV: 1

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BOX EAVE RAFTER LEAN-TO OPTIONS

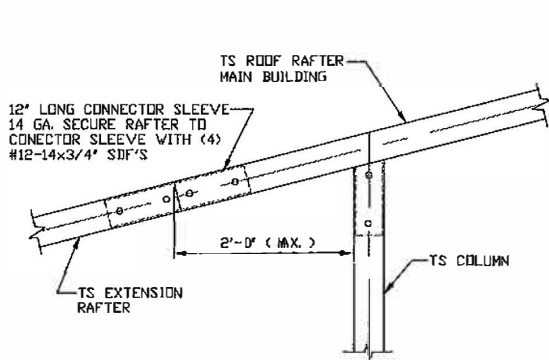


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

NOTE: REFER TO SHEET 6 FOR COLUMN HEIGHTS.

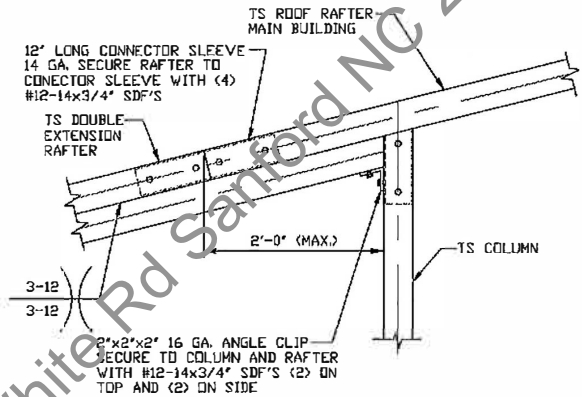
NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.



13 SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN $\le 10'-0''$

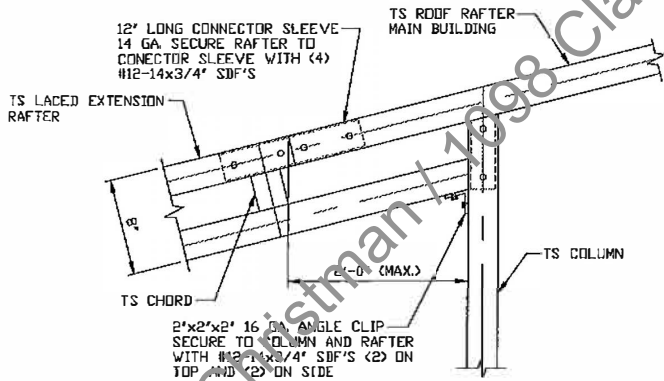
SCALE: NTS

NOTE: MAXIMUM SINGLE TUBE LEAN-TO SPAN IS 12'-0" FOR GROUND SNOW LOAD ≤ 17 PSF FOR 5'-0" O.C. AND ≤ 27 PSF FOR 4'-0" O.C..



13A SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN $10'-0'' < L \le 16'-0''$

SCALE: NTS



13B SIDE EXTENSION RAFTER/COLUMN DETAIL FOR SPAN $16'-0'' < L \le 25'-0''$

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: CC

**CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0"x17'-0" ENCLOSED STRUCTURE**

DATE: 5-19-22

SHT. 14

SCALE: NTS

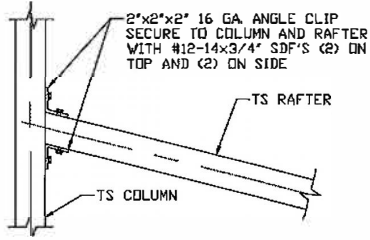
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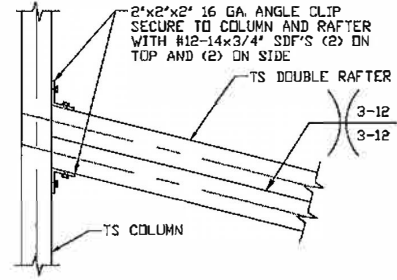
BOX EAVE RAFTER LEAN-TO OPTIONS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL
FOR SPAN $L \leq 10'-0''$**

14

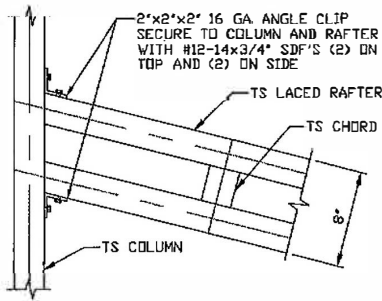
SCALE: NTS
NOTE: MAXIMUM SINGLE TUBE LEAN-TO SPAN IS 12'-0" FOR GROUND SNOW LOAD ≤ 17 PSF FOR 5'-0" O.C. AND ≤ 27 PSF FOR 4'-0" O.C..



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $10'-0'' < L \leq 16'-0''$**

14A

SCALE: NTS



**LEAN-TO RAFTER TO
RAFTER COLUMN
CONNECTION DETAIL FOR
SPAN $16'-0'' < L \leq 25'-0''$**

14B

SCALE: NTS

Joe Christman / 1098 Claude White Rd Sanford NC 27332

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CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 14A

SCALE: NTS

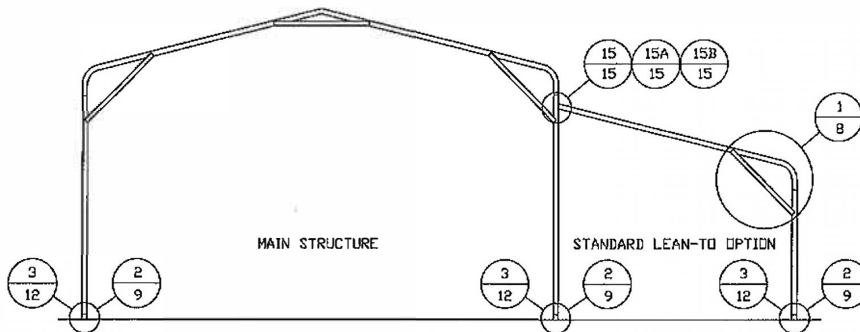
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JOB NO:
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BOW RAFTER LEAN-TO OPTION

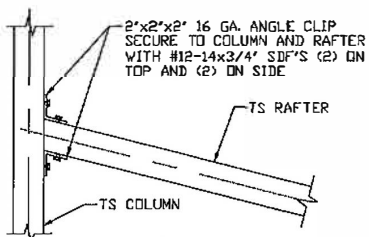


TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

NOTE: REFER TO SHEET 8 FOR COLUMN HEIGHTS.

NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.

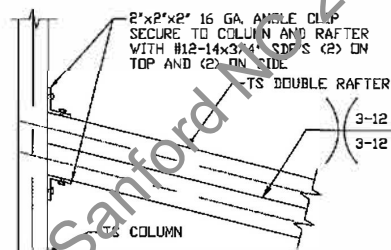


LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $\leq 10'-0''$

15

SCALE: NTS

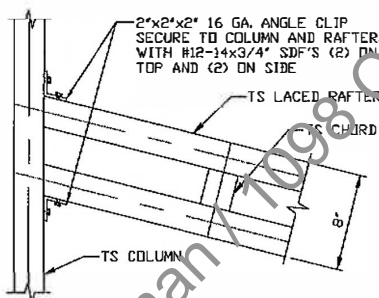
NOTE: MAXIMUM SINGLE TUBE LEAN-TO SPAN IS 12'-0" FOR GROUND SNOW LOAD ≤ 17 PSF FOR 5'-0" O.C. AND ≤ 27 PSF FOR 4'-0" O.C.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $10'-0'' < L \leq 16'-0''$

15A

SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $16'-0'' < L \leq 25'-0''$

15B

SCALE: NTS

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PROJECT MGR: VSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0"x17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 15

SCALE: NTS

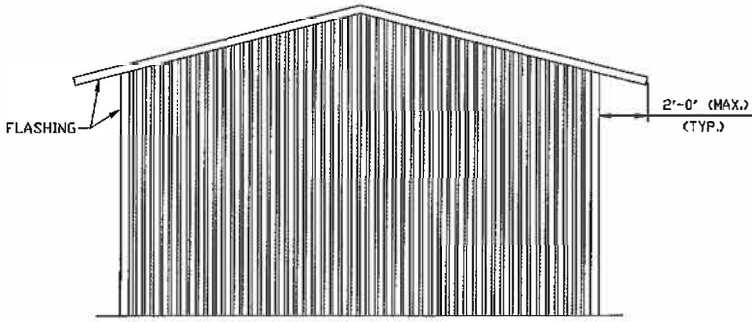
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JOB NO:
191055/21401S

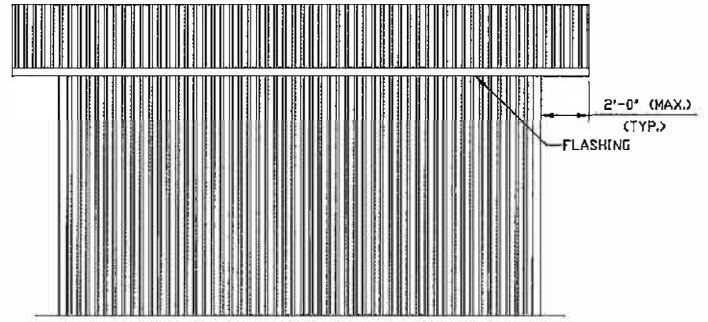
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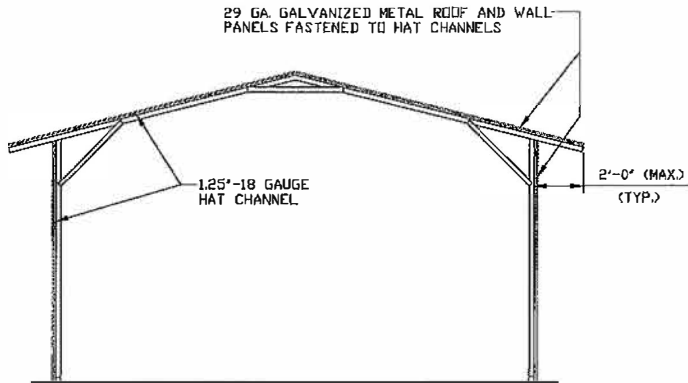
BOX EAVE RAFTER VERTICAL PANEL OPTION



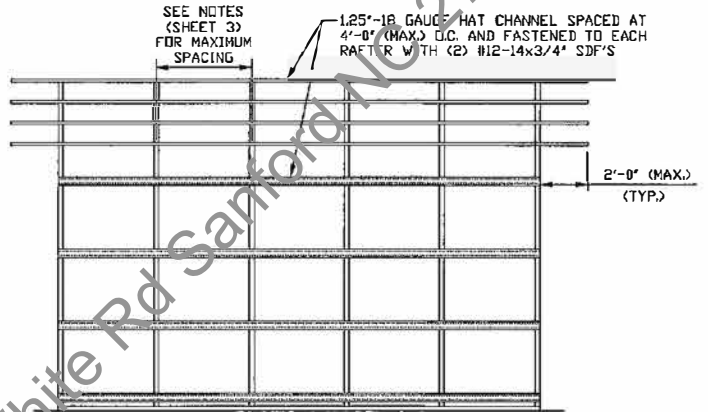
**TYPICAL END ELEVATION
VERTICAL ROOF**
SCALE: NTS



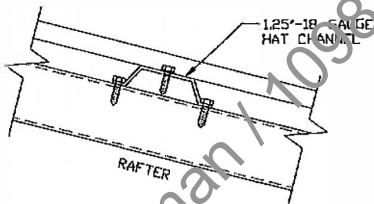
**TYPICAL SIDE ELEVATION
VERTICAL ROOF**
SCALE: NTS



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



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



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

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CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT: 16

SCALE: NTS

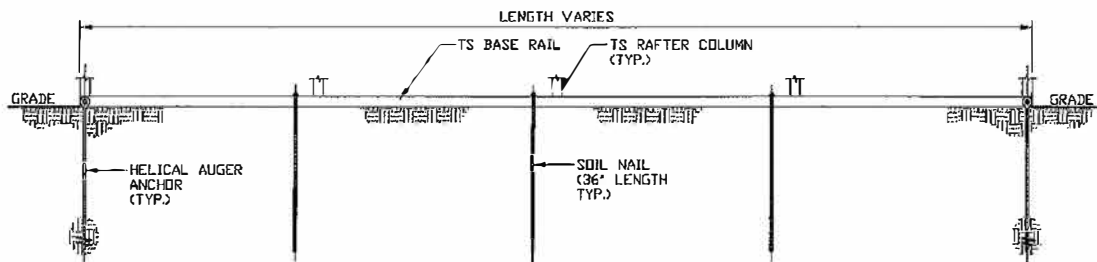
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**JOB NO:
191055/21401S**

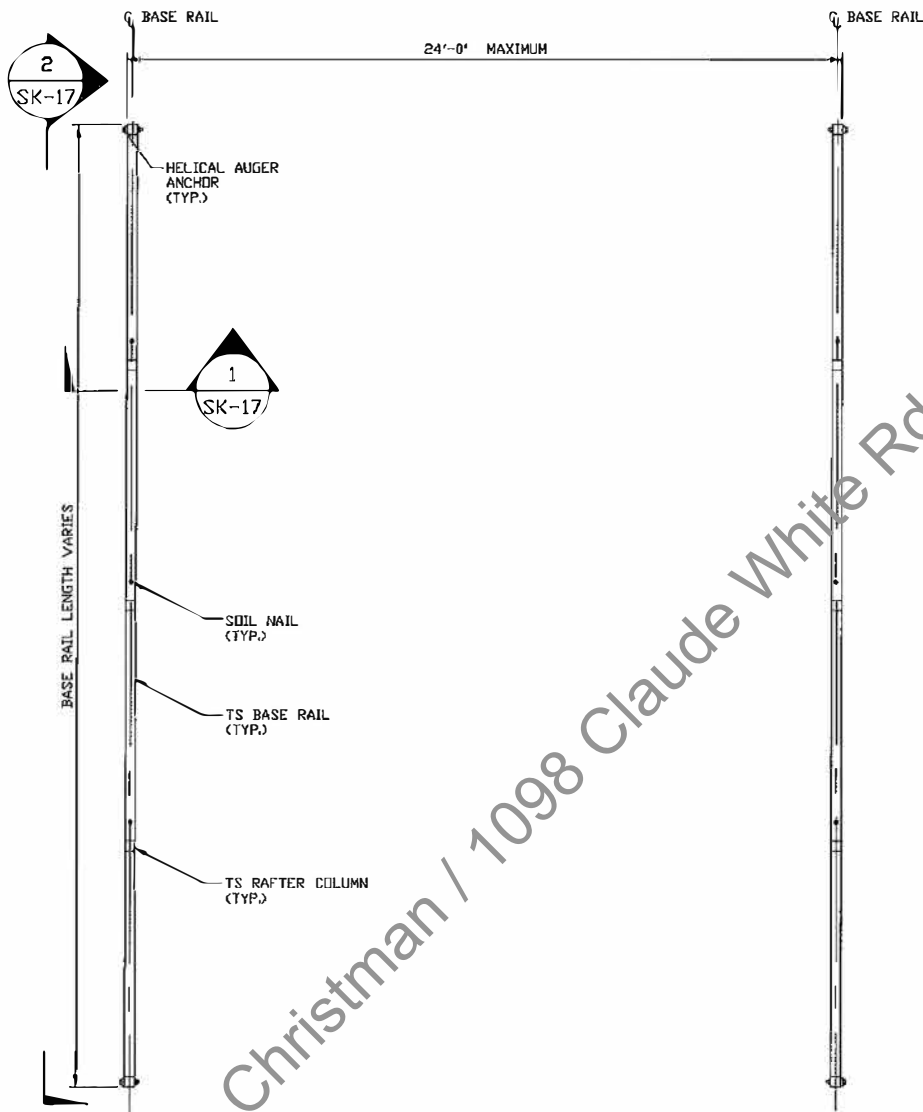
REV: 1

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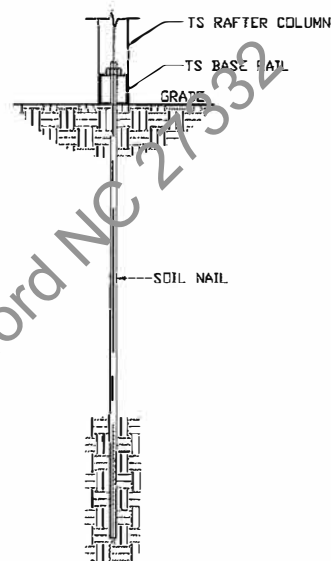
OPTIONAL BASE RAIL ON GRADE APPLICATION



SECTION 2
SCALE: NTS (SK-17)



BASE RAIL PLAN
SCALE: NTS



SECTION 1
SCALE: NTS (SK-17)

Joe Christman / 1098 Claude White Rd Sanford NC 27332

HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	EVERY 3RD COLUMN

NOTES:
1. INSTALLATION OF ANCHORS ALSO APPLY TO END WALLS.

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PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 17

SCALE: NTS

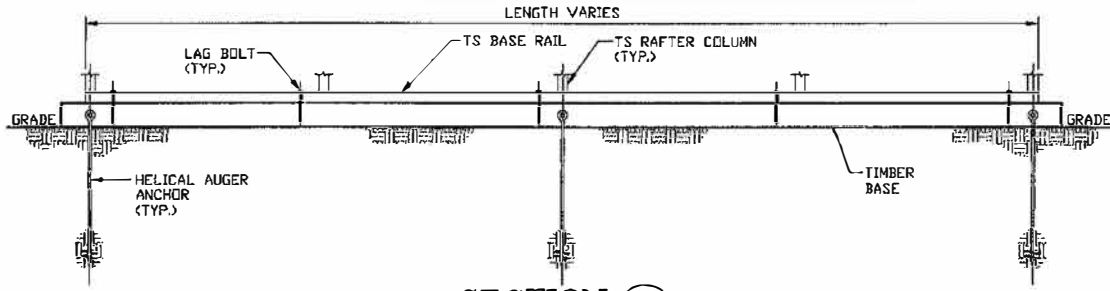
DWG. NO: SK-3

JOB NO: 1910SS/21401S

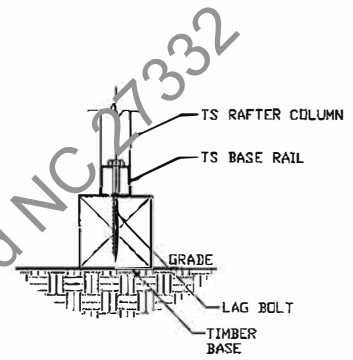
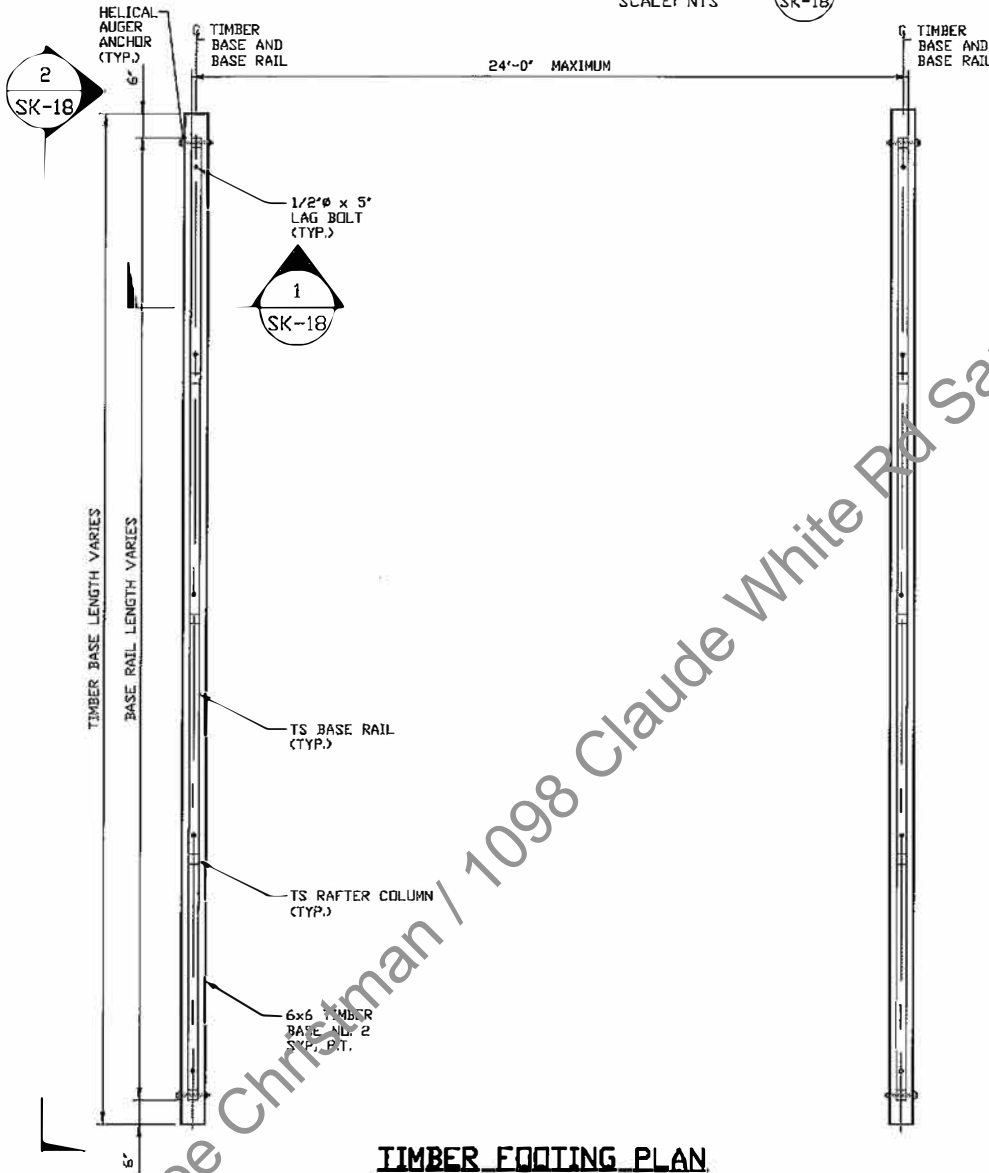
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OPTIONAL BASE RAIL ON TIMBER BEAM



SECTION 2
SCALE: NTS
SK-18



SECTION 1
SCALE: NTS
SK-18

TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	EVERY OTHER COLUMN

NOTES:
1. INSTALLATION OF ANCHORS ALSO APPLY TO END WALLS.

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CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
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DATE: 5-19-22

SHT. 18

SCALE: NTS

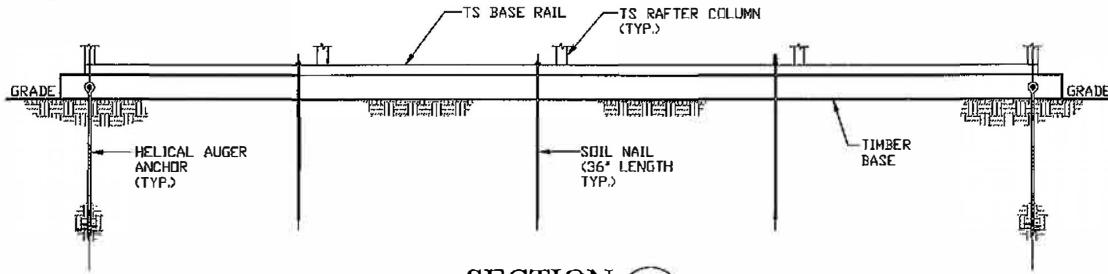
DWG. NO: SK-3

**JOB NO:
1910SS/21401S**

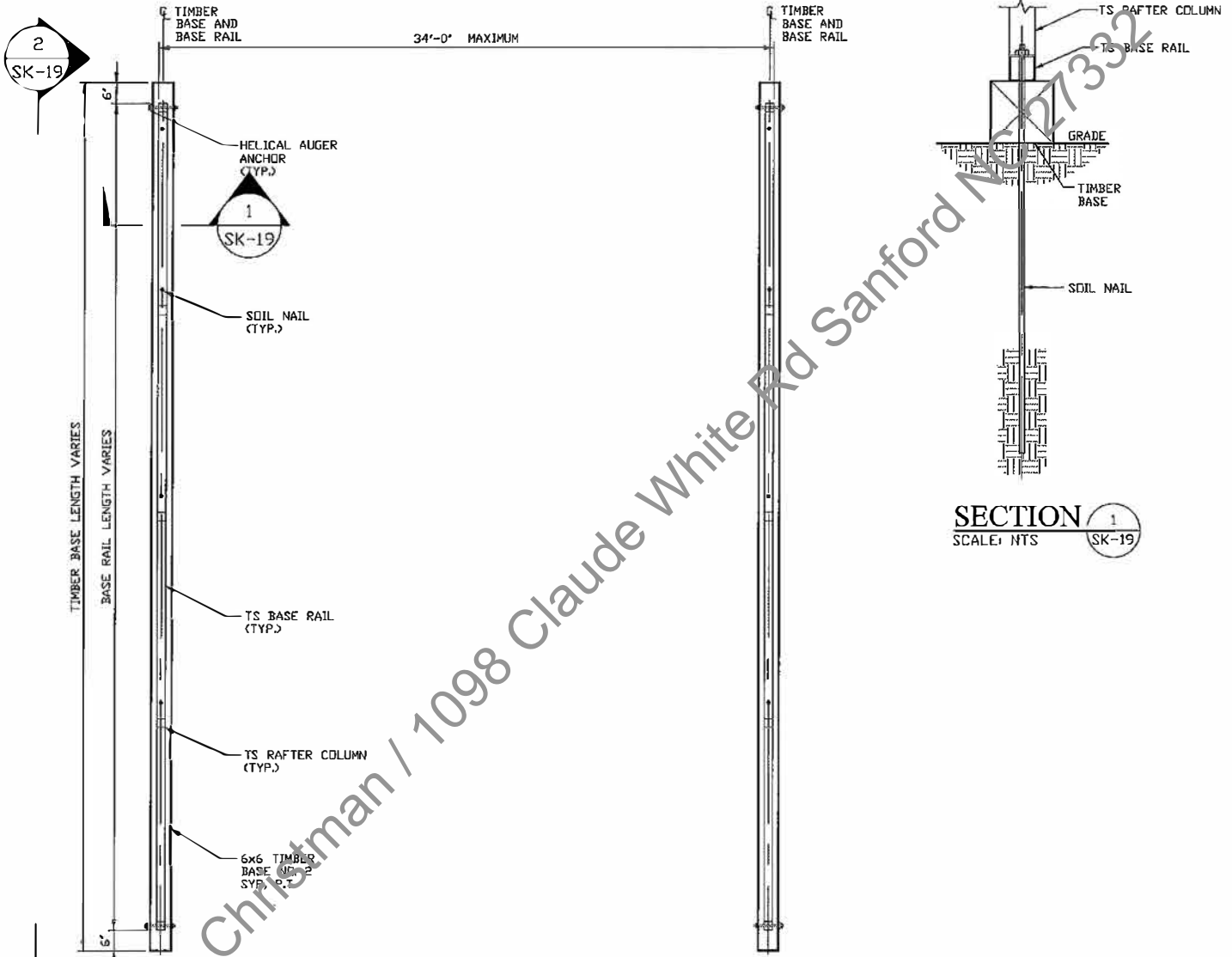
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OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 2
SCALE: NTS (SK-19)



SECTION 1
SCALE: NTS (SK-19)

TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	SPACING
VARIES	EVERY 3RD COLUMN

NOTES:
1. INSTALLATION OF ANCHORS ALSO APPLY TO END WALLS.

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

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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: CC

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1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 19

SCALE: NTS

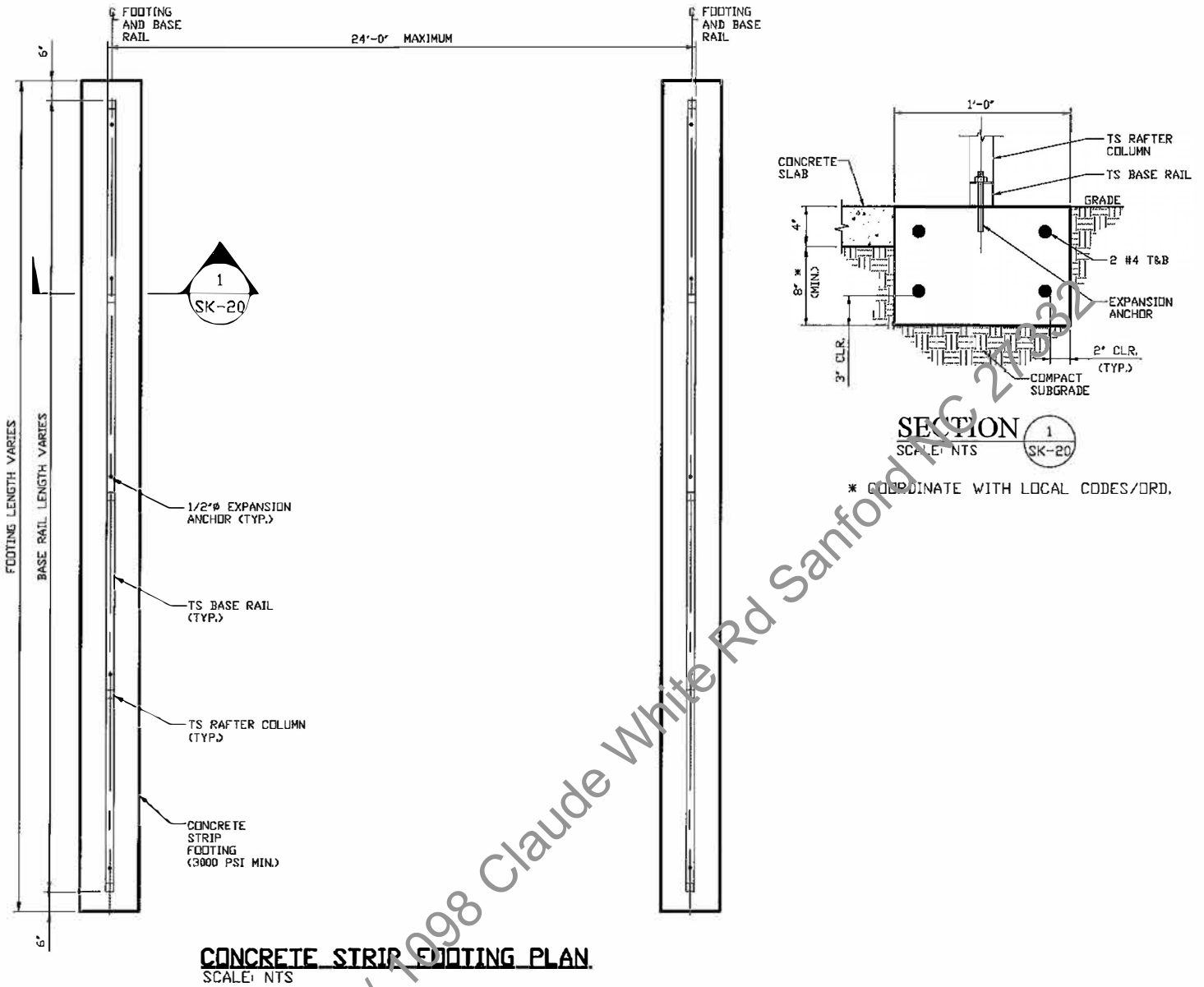
DWG. NO: SK-3

**JOB NO:
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OPTIONAL CONCRETE STRIP FOOTING

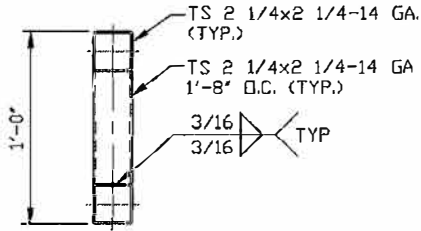


Joe Christman / 1998 Claude White Rd Sanford NC 27703

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	CARPORT CENTRAL, INC. 1018 ROCKFORD STREET MOUNT AIRY, NC 27030 24'-0" x 17'-0" ENCLOSED STRUCTURE		
	CHECKED BY: PDH			
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	CLIENT: CC	SHT. 20	DWG. NO: SK-3	REV: 1

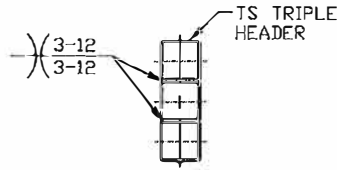
SIDE WALL HEADER OPTIONS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



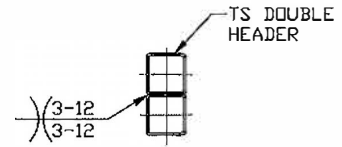
**HEADER DETAIL FOR
DOOR OPENINGS
16'-0" < LENGTH ≤ 20'-0"**

SCALE: NTS



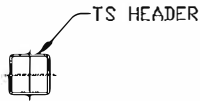
**HEADER DETAIL FOR
DOOR OPENINGS
11'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR
DOOR OPENINGS
7'-0" < LENGTH ≤ 11'-0"**

SCALE: NTS

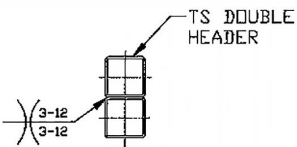


**HEADER DETAIL FOR
DOOR OPENINGS ≤ 7'-0"**

SCALE: NTS

NOTE: MAXIMUM SINGLE TUBE HEADER SPAN
IS 6'-0" FOR 4'-0" O.C. SPACING.

END WALL HEADER OPTIONS



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

SCALE: NTS



**HEADER DETAIL FOR
DOOR OPENINGS ≤ 12'-0"**

SCALE: NTS

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PROJECT MGR: WSM

CLIENT: CC

CARPORT CENTRAL, INC.
1018 ROCKFORD STREET
MOUNT AIRY, NC 27030
24'-0" x 17'-0" ENCLOSED STRUCTURE

DATE: 5-19-22

SHT. 21

SCALE: NTS

DWG. NO: SK-3

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