



Louis Popielarcheck
9093 Highway 210 South
Bunn Level NC 28323

STRUCTURAL DESIGN

ENCLOSED BUILDING

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

12 April 2019

Revision 0

M&A Project No. 18378S

Prepared for:

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



		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.	

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT	Louis Popielarcheck 9093 Highway 210 South Bunn Level NC 28323		
CHECKED BY: PDH	PROJECT MGR: WSH	DATE: 4-12-19	SCALE: NTS
CLIENT: CC	SHT: 1	DWG NO: SK-3	JOB NO: 18378S
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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 8/8/20</p>		

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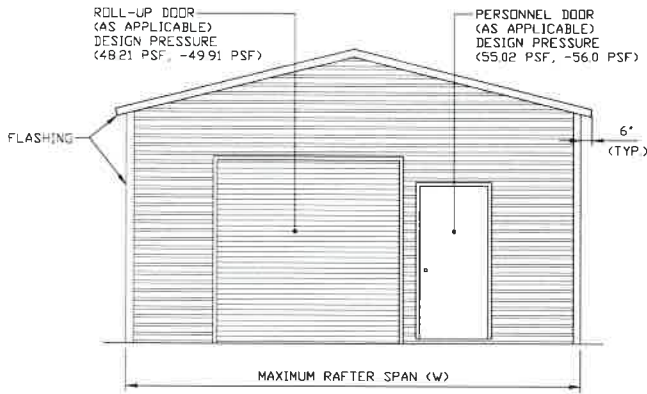
INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2018 INTERNATIONAL BUILDING CODE (IBC), 2006 IBC, 2009 IBC, 2012 IBC, 2015 IBC, AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 33 PSF AT 5'-0" O.C. SPACING.
 = 42 PSF AT 4'-0" O.C. SPACING.
 30 PSF (WITH U-CHANNEL PEAK BRACE) W ≤ 26'-0"
 (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED.)
4. ULTIMATE WIND SPEED 105 TO 143 MPH (NOMINAL WIND SPEED 82 TO 110 MPH).
 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET
5. ULTIMATE WIND SPEED 144 TO 155 MPH (NOMINAL WIND SPEED 111 TO 120 MPH).
 MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 4.0 FEET
6. END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
7. LOW HAZARD RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
11. FASTENERS CONSIST OF #12-14x3/4" (UNLESS OTHERWISE NOTED) SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12) PITCH OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG. 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.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 SOIL SITE CLASS = D
 RISK CATEGORY I/II/III
 R= 3.25 I_E= 1.0
 S_{DS}= 2.039 g V= C_SW
 S_{DI}= 1.258 g
15. DOOR AND WINDOW PRESSURES APPLICABLE TO THE STATE OF FLORIDA.

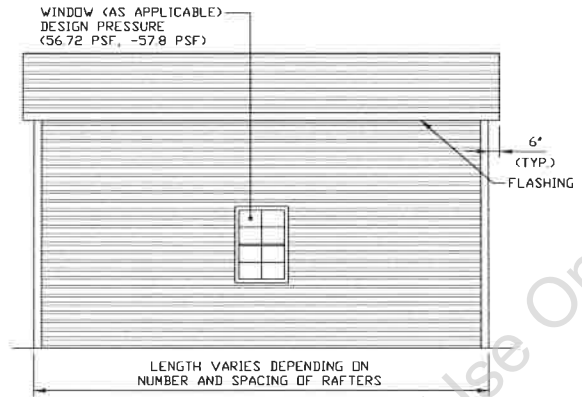
CarpportCentral Authorized Manufacturer Only

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	CLIENT: CC	SHT. 3	DWG. NO: SK-3	REV.: 0

BOX EAVE RAFTER STRUCTURE

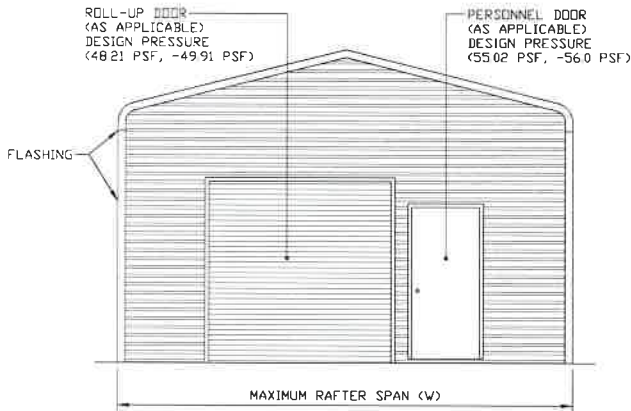


TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

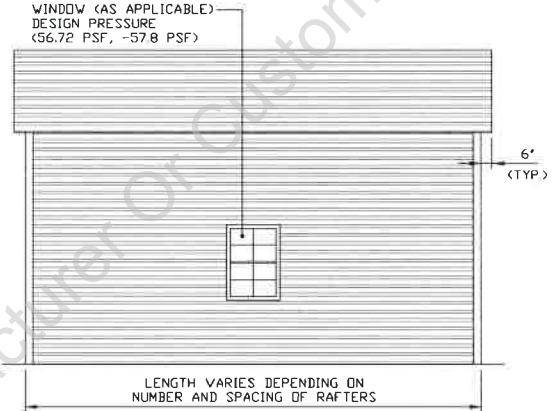


TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL END ELEVATION
SCALE: NTS

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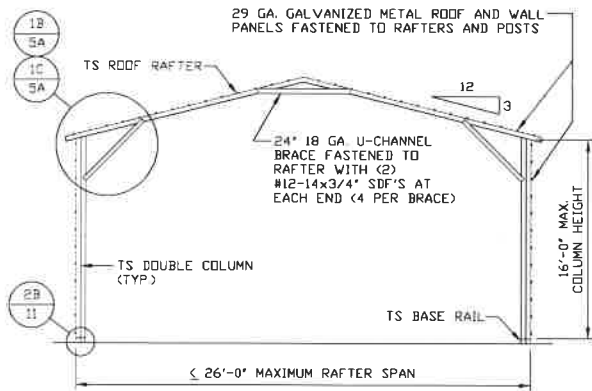
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SHT. 3A

DWG. NO: SK-3

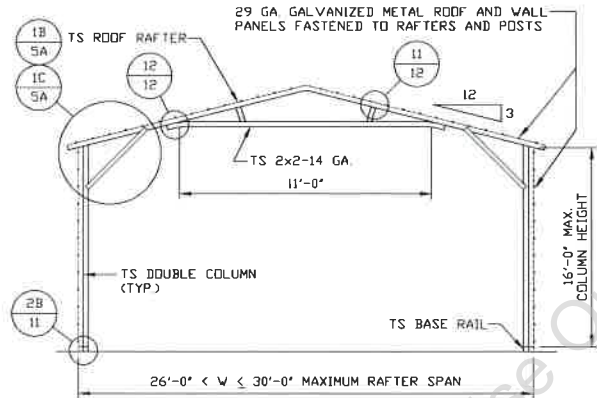
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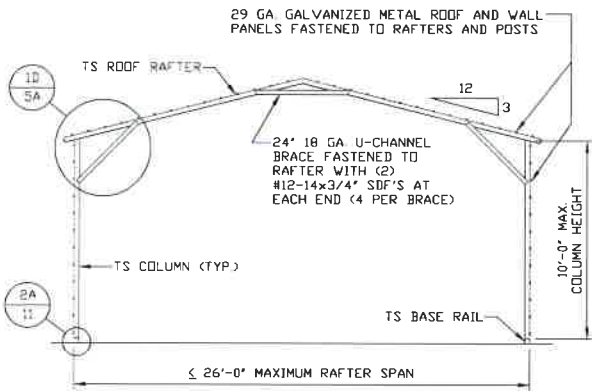
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



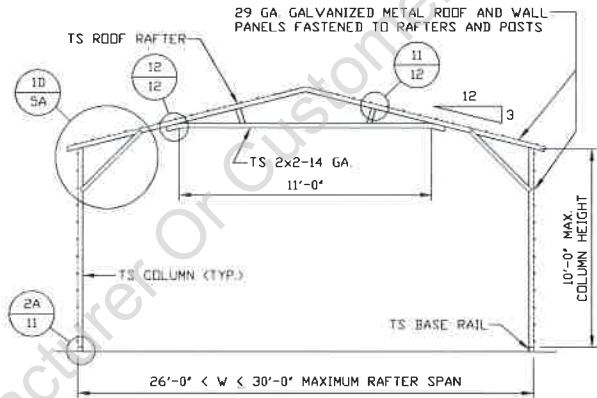
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



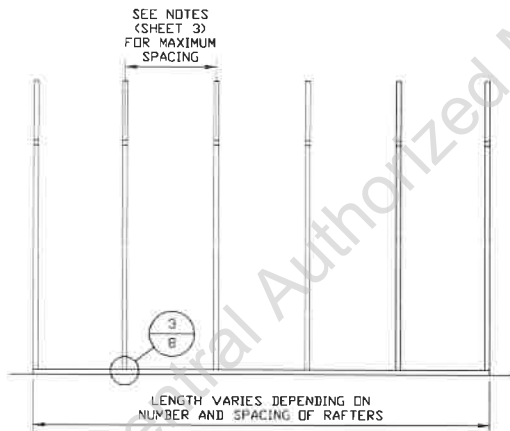
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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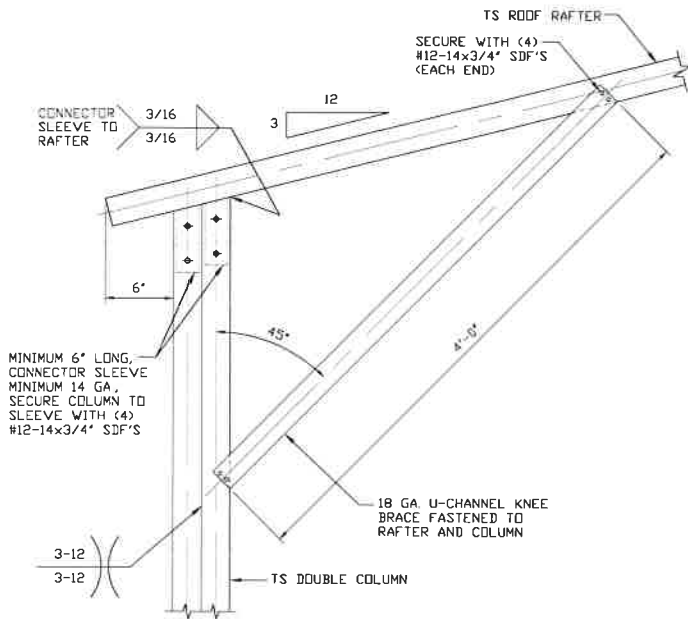
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SHT. 4A

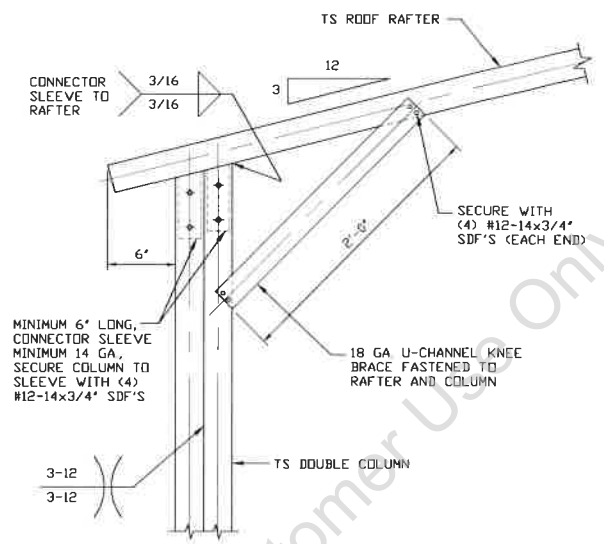
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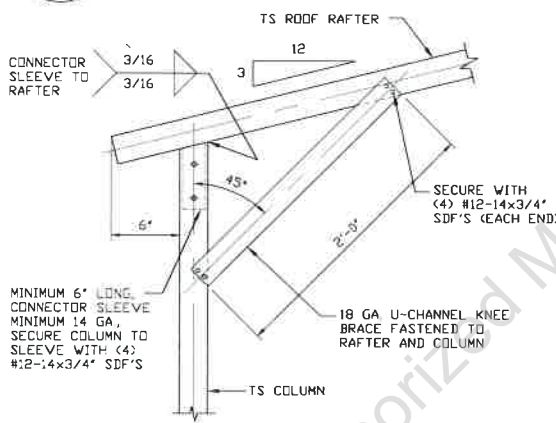
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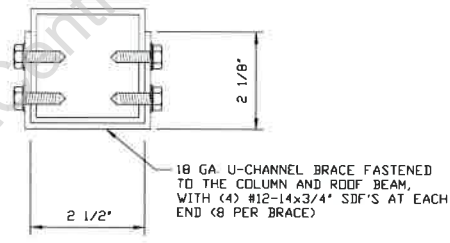
1B
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO ≤ 16'-0"
 SCALE: NTS



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



1D
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"
 SCALE: NTS



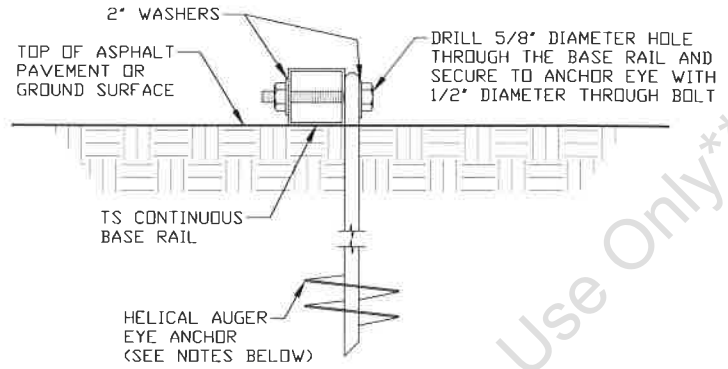
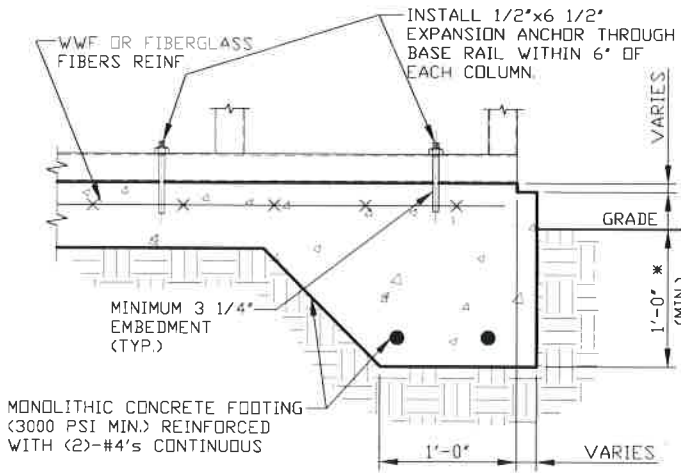
BRACE SECTION
 SCALE: NTS

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BASE RAIL ANCHORAGE OPTIONS



3A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 MINIMUM ANCHOR EDGE DISTANCE IS 4\"/>

3B HELICAL AUGER 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.

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:

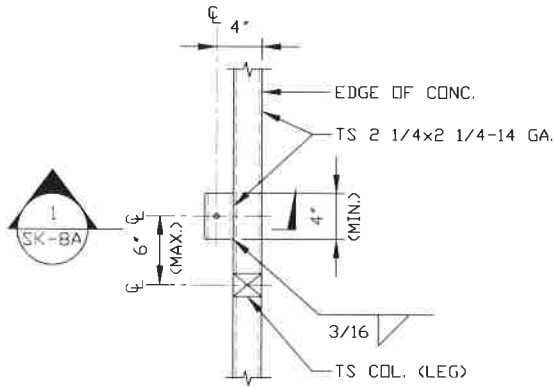
- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM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

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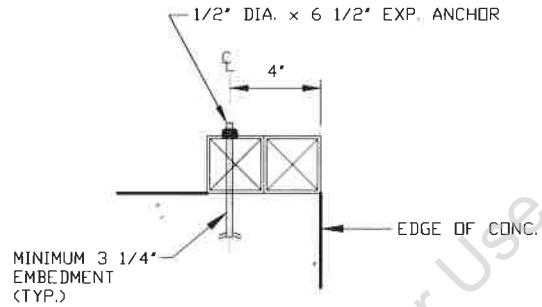
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BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION 1 SK-BA
SCALE: NTS

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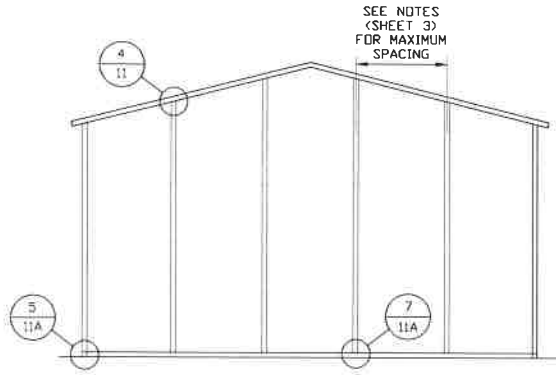
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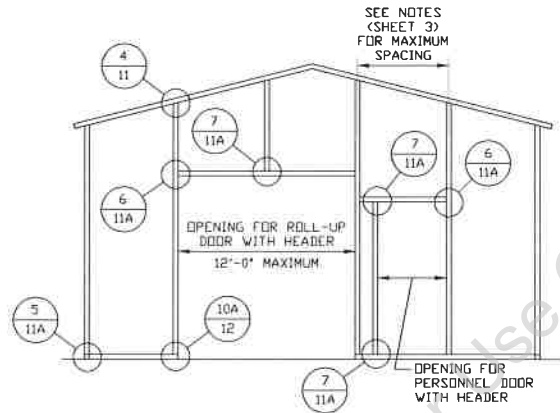
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



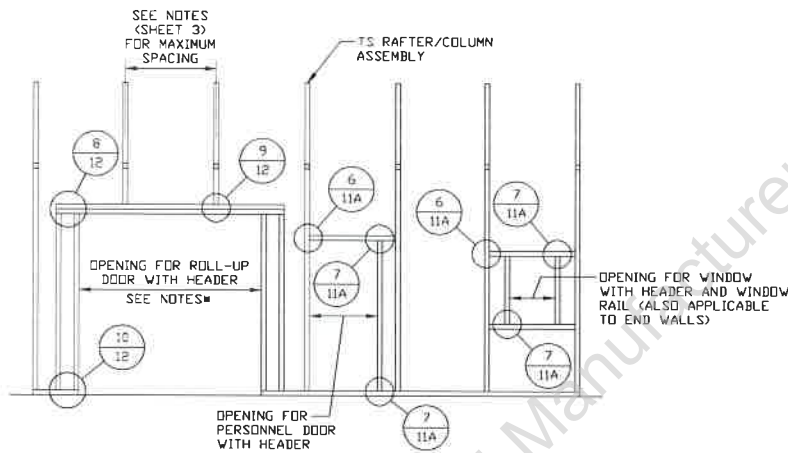
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

NOTES:

- * 10'-0" MAX. FOR 5'-0" O.C. RAFTER/COLUMN SPACING.
- * 9'-0" MAX. FOR 4'-0" O.C. RAFTER/COLUMN SPACING.

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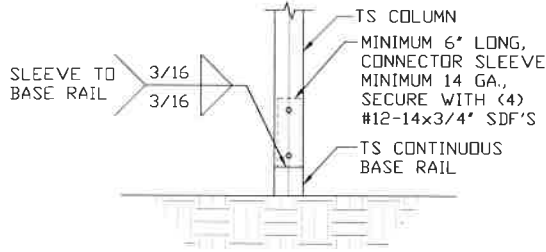
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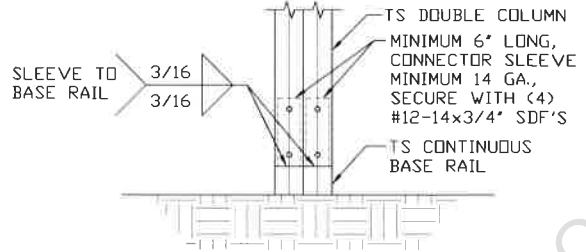
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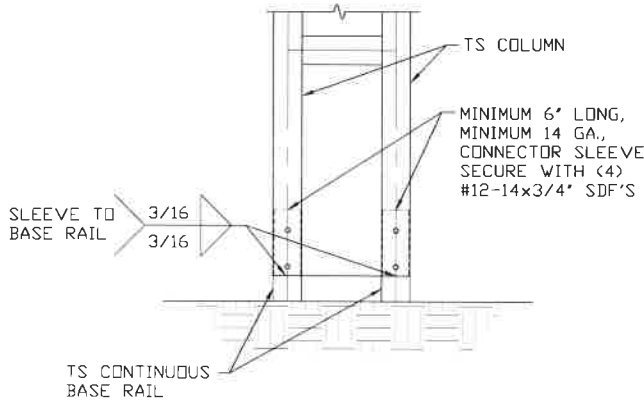
CONNECTION DETAILS



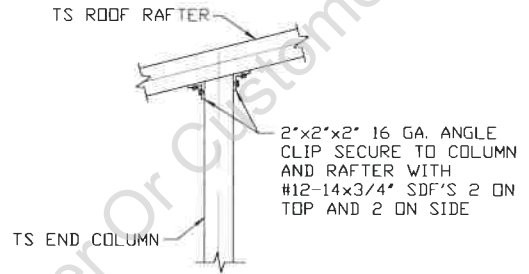
2A **RAFTER COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS



2B **RAFTER COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS



2C **RAFTER COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS



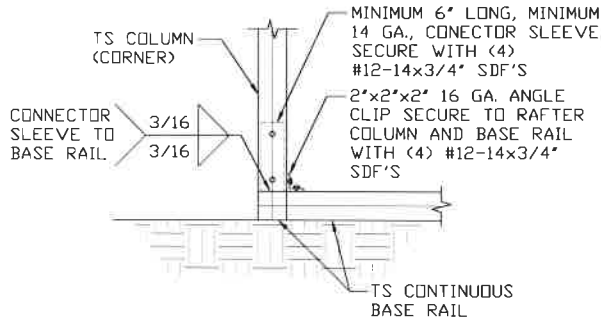
4 **END COLUMN/RAFTER CONNECTION DETAIL**
SCALE: NTS

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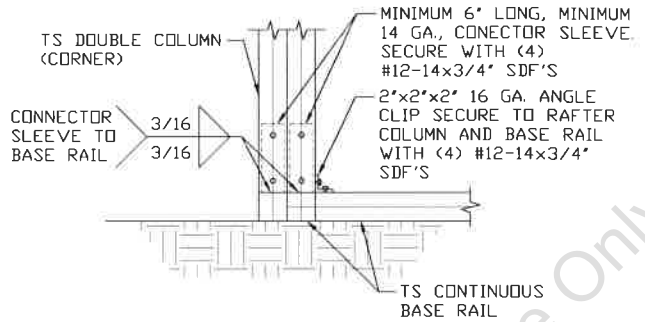
CONNECTION DETAILS



5

END COLUMN/BASE RAIL CONNECTION DETAIL

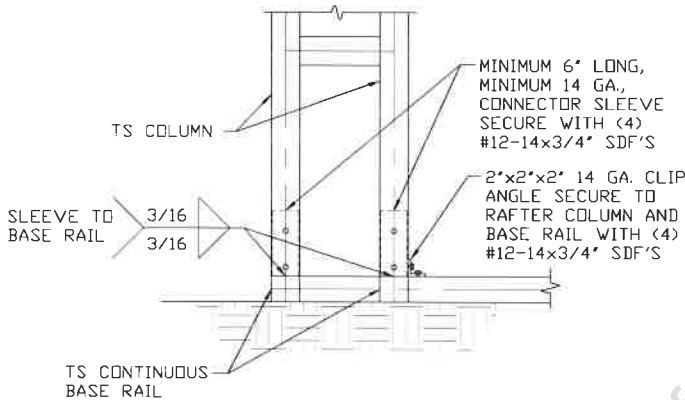
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END COLUMN/BASE RAIL CONNECTION DETAIL

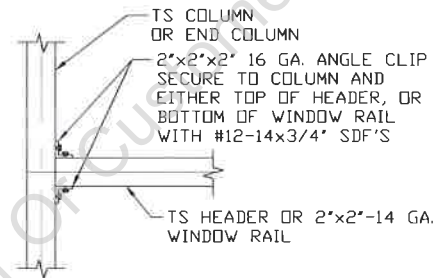
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END COLUMN/BASE RAIL CONNECTION DETAIL

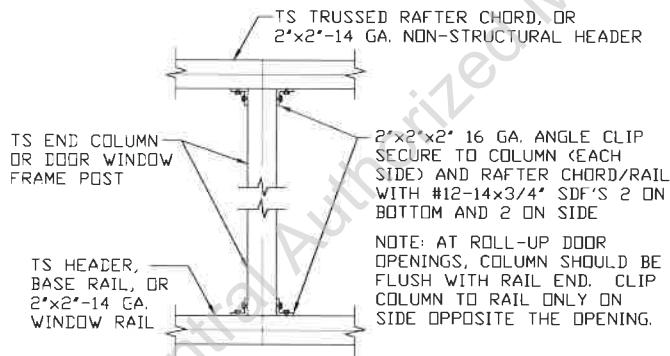
SCALE: NTS



6

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS



7

COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

SCALE: NTS

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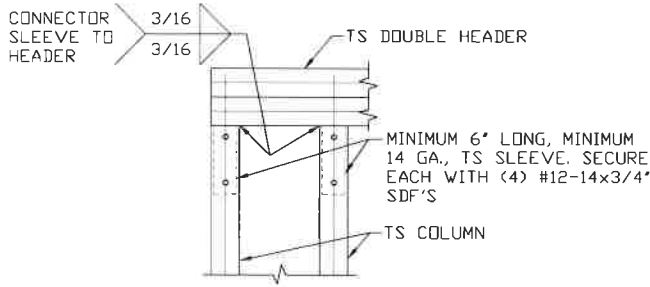
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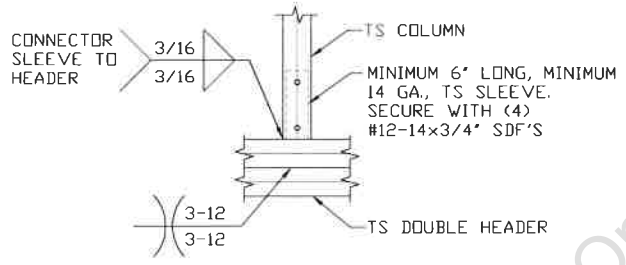
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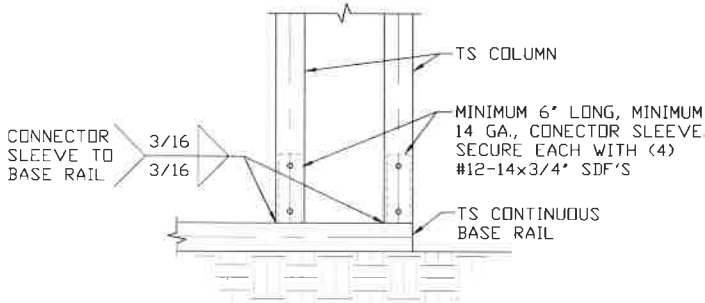
CONNECTION DETAILS



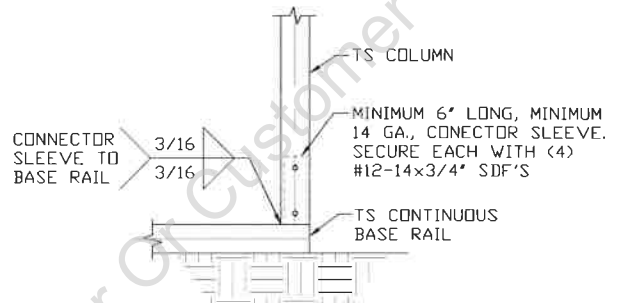
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



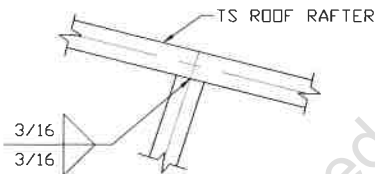
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



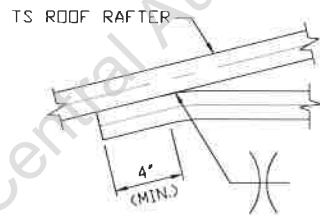
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



10A COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



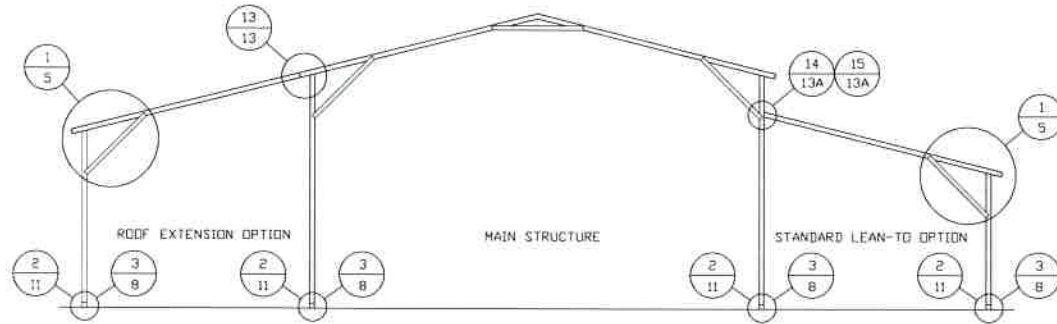
12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT	Louis Popielarcheck 9093 Highway 210 South Bunn Level NC 28323		
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 4-12-19	SCALE: NTS	JOB NO: 16378S
CLIENT: CC	SHT. 12	DWG. NO: SK-3	REV: 0

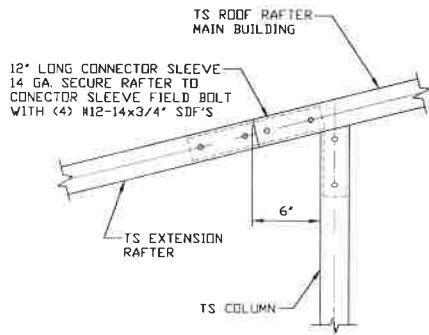
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

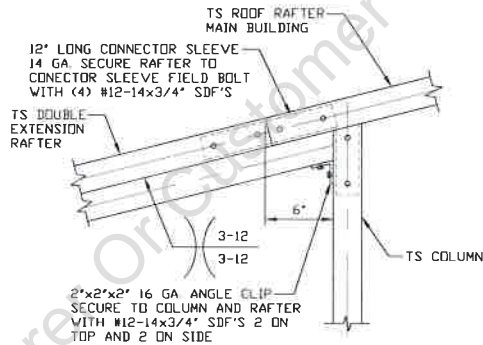
SCALE: NTS



13

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPAN < 12'-0"**

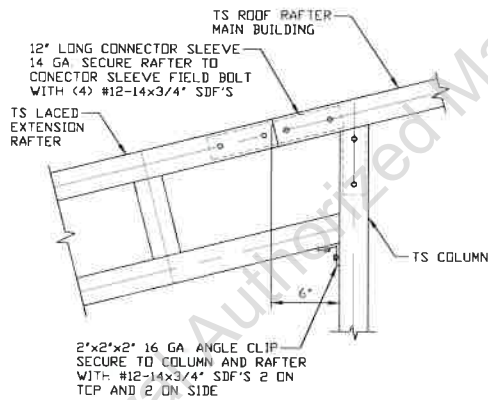
SCALE: NTS



13A

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPAN 12'-0" < L < 16'-0"**

SCALE: NTS



13B

**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR SPAN 16'-0" < L < 20'-0"**

SCALE: NTS

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

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Louis Popielarcheck
9093 Highway 210 South
Bunn Level NC 28323

CHECKED BY: PDH

PROJECT MGR: VSM

DATE: 4-12-19

SCALE: NTS

JOB NO: 18378S

CLIENT: CC

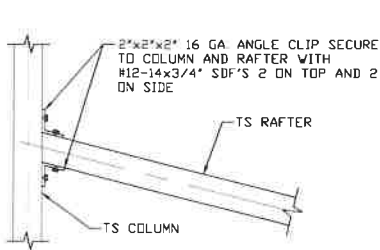
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DWG. NO: SK-3

REV. 0

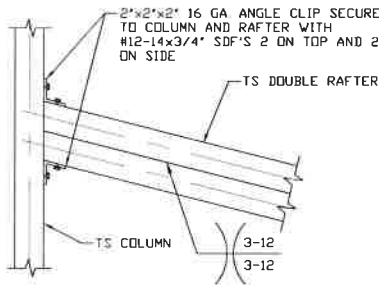
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LEAN-TO OPTIONS



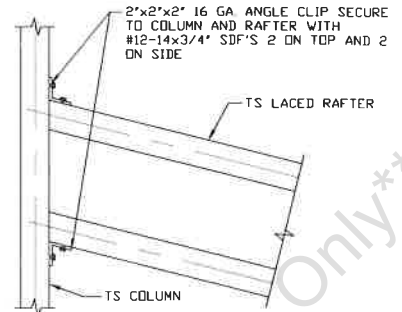
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $\leq 12'-0''$
SCALE: NTS

14



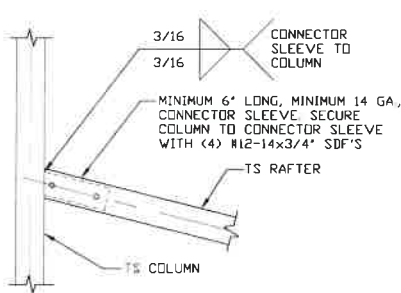
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $12'-0'' < L \leq 16'-0''$
SCALE: NTS

14A



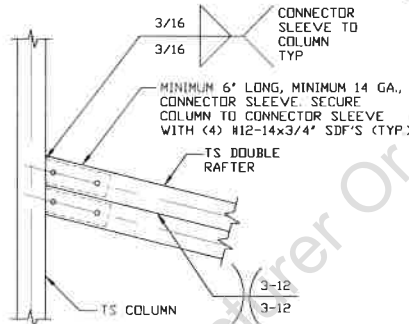
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $16'-0'' < L \leq 20'-0''$
SCALE: NTS

14B



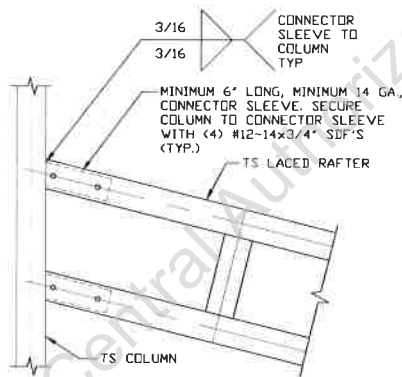
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $\leq 12'-0''$
SCALE: NTS

15



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $12'-0'' < L \leq 16'-0''$
SCALE: NTS

15A



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR SPAN $16'-0'' < L \leq 20'-0''$
SCALE: NTS

15B

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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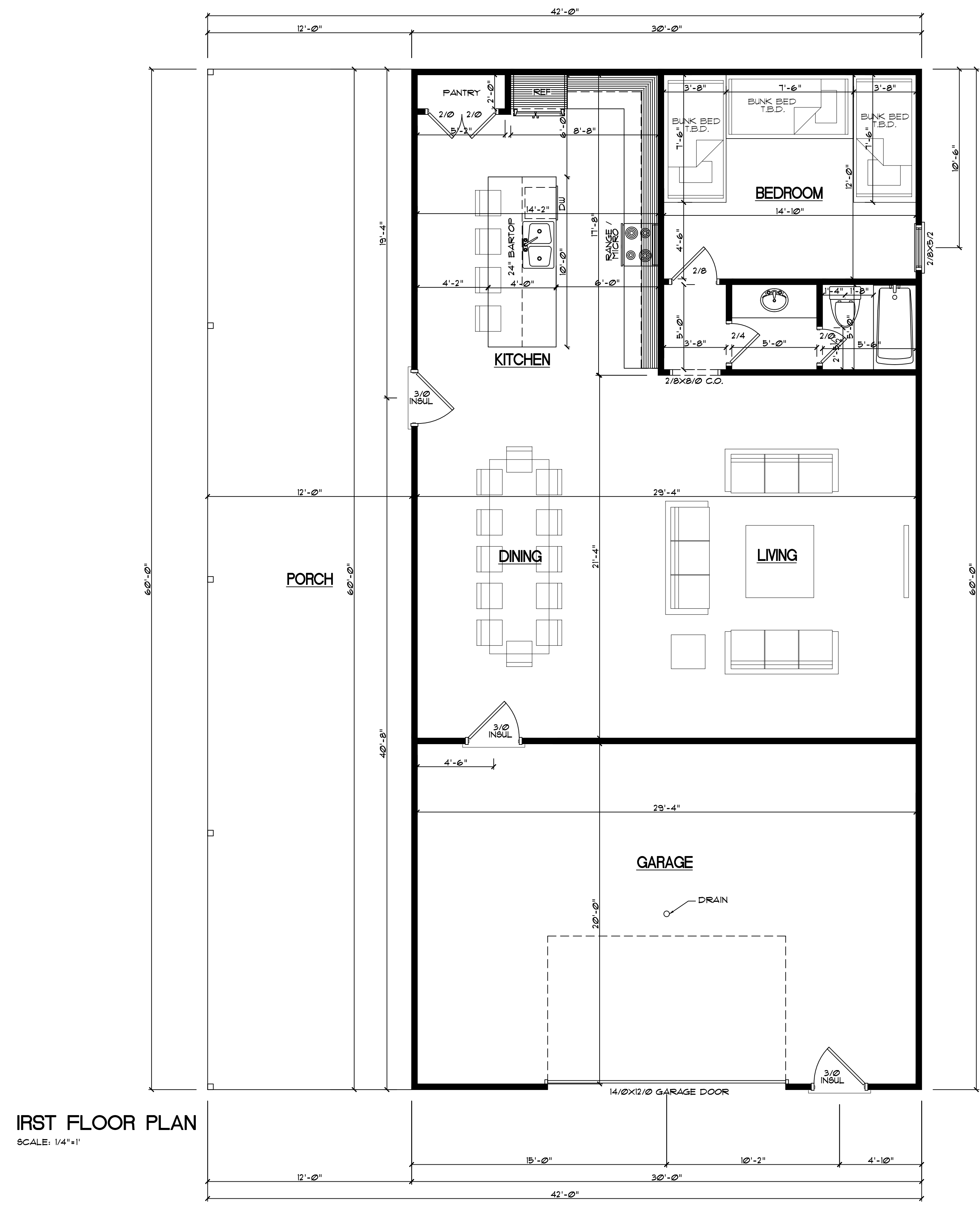
CLIENT: CC

SHT. 13A

DWG. NO: SK-3

REV: 0

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FIRST FLOOR PLAN
SCALE: 1/4" = 1'

PLANS ARE DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION

GENERAL NOTES

WALLS:
ALL WALLS ARE DRAIN 4" THICK UNO.
ANGLED WALL ARE DRAIN #48" UNO.

SMOKE DETECTORS:
LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC.

EGRESS:
ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO R-310 OF THE NC BLDG CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFACTURERS VARY.

ATTIC ACCESS:
MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT:
WALL AND CEILING HEIGHT NOTES ARE BASED ON NOMINAL WALL SIZE.
KNEE WALL HEIGHT LABELS FOR WALLS UNDER RAFTERS ASSUME AN EXTRA 2" FOR FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL HEIGHT REFERS TO THE HGT. FROM THE FLOOR DECKING TO THE BOTTOM OF THE FURRING.

DIMENSIONS MAY VARY TO FIT IN PREFABRICATED METAL BUILDING. CONTRACTOR TO CONFIRM EXTERIOR WALL DIMENSIONS BEFORE CONSTRUCTION

Design Meister
P.O. Box 447 Holly Springs, NC 27540 • 919-263-4047 • plans@thedesignmeister.com

WSP FARM LLC
CLUB HOUSE

Drawn by: KM
Date: 04/23/2020
Revision:
FIRST FLOOR
Sheet: A1