



STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 32'-0" WIDE X 16'-0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

**1 October 2021
Revision 0
M&A Project No. 21048S**

Prepared for:

**SteelCraft Structures
1841 Amity Hill Rd.
Statesville, NC 28677**






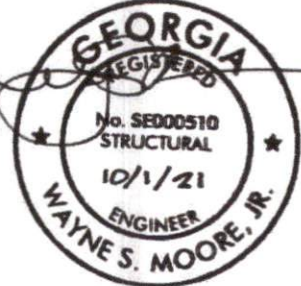
Prepared by:

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

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



**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING**

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ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT
CHECKED BY: PSH
PROJECT MGR: VSM
CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES
 1841 AMITY HILL RD.
 STATESVILLE, NC 28677
 32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21 **SCALE:** NTS **JOB NO:** 21048S
SHT. 1 **DWG. NO:** SK-3 **REV.:** 0

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INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 32'-0" WIDE x 16'-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) DEAD LOAD = 1.5 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 20 PSF

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ult}) = \leq 140 MPH (NOMINAL WIND SPEED = \leq 108 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. ENDWALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). 2 1/4" x 2 1/4" - 12 GAUGE TS MAY BE USED AS OPTIONAL FRAMING MEMBERS.
10. AVERAGE PANEL SPACING ON-CENTERS = 10 INCHES.
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 16 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT.
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EVERY COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG AND MAY ONLY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - R = 3.25 $I_c = 10$
 - $S_{DS} = 2.039 g$ $V = C_s W$
 - $S_{M1} = 1.258 g$
15. 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.

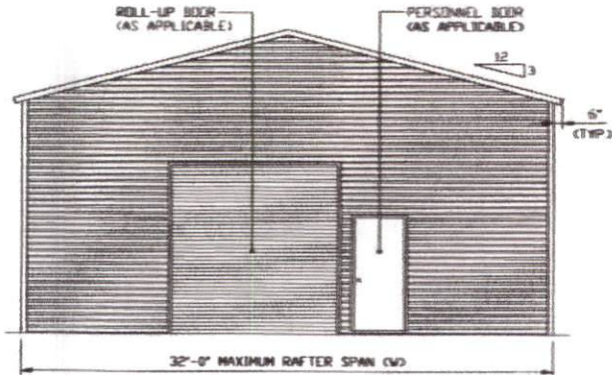
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LIST OF APPLICABLE BUILDING CODES

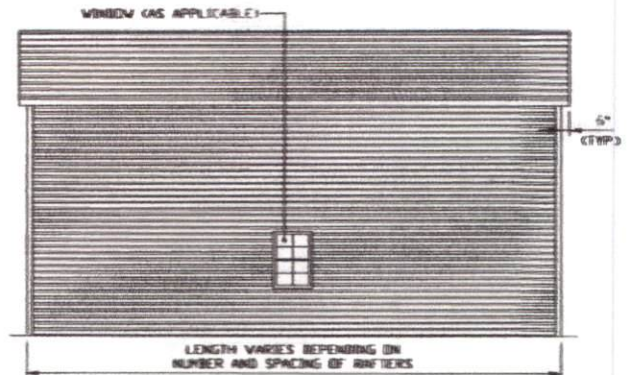
2018 INTERNATIONAL BUILDING CODE (IBC 2018)
 2015 INTERNATIONAL BUILDING CODE (IBC 2015)
 2012 INTERNATIONAL BUILDING CODE (IBC 2012)
 GEORGIA STATE MINIMUM STANDARD BUILDING CODE
 (ADOPTS THE IBC 2018 WITH AMENDMENTS)
 2018 NORTH CAROLINA BUILDING CODE
 (ADOPTS THE IBC 2015 WITH AMENDMENTS)
 2018 SOUTH CAROLINA BUILDING CODE
 (ADOPTS THE IBC 2018 WITH AMENDMENTS)
 BUILDING CODE 2012 OF TENNESSEE
 (ADOPTS THE IBC 2012 WITH AMENDMENTS)

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BOX EAVE FRAME RAFTER STRUCTURE

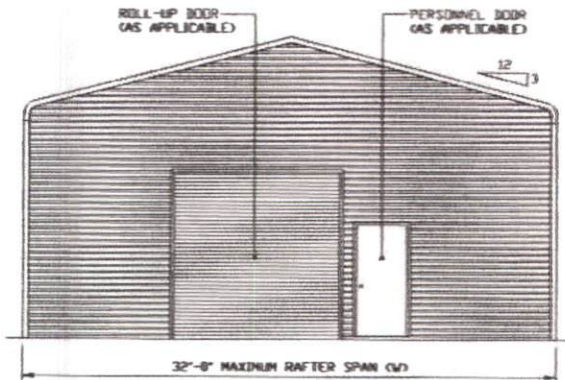


TYPICAL END ELEVATION
SCALE: NTS

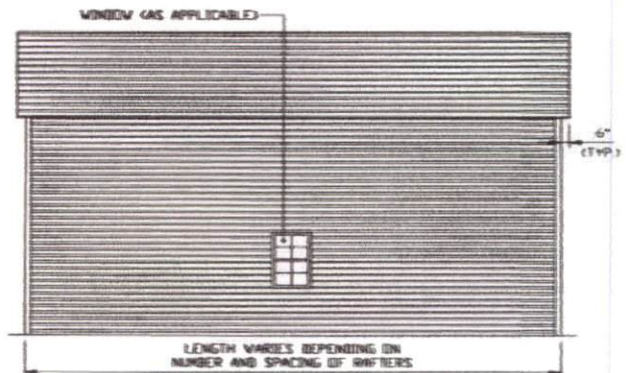


TYPICAL SIDE ELEVATION
SCALE: NTS

BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

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STATESVILLE, NC 28677

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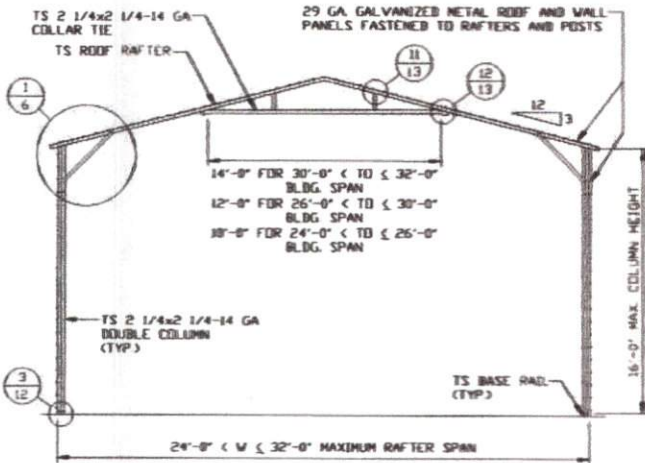
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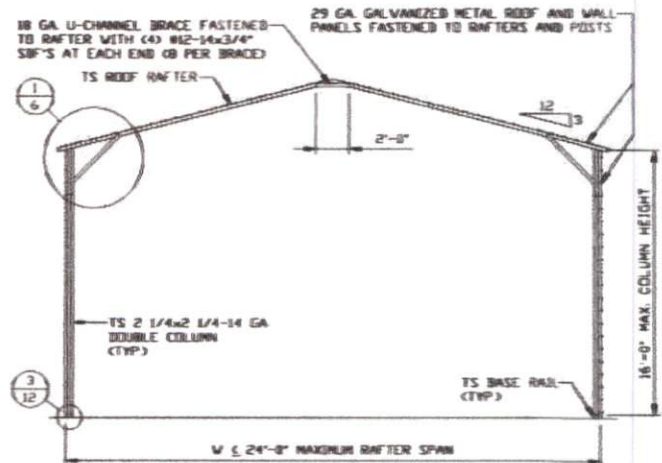
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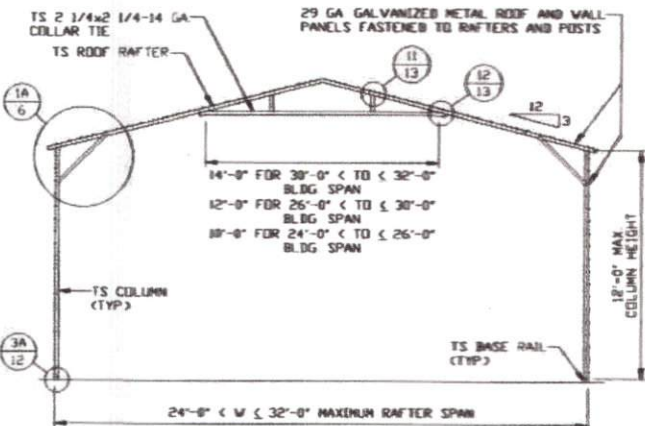
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



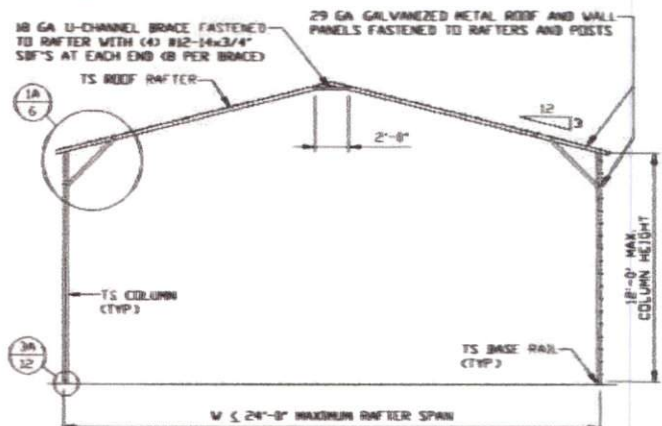
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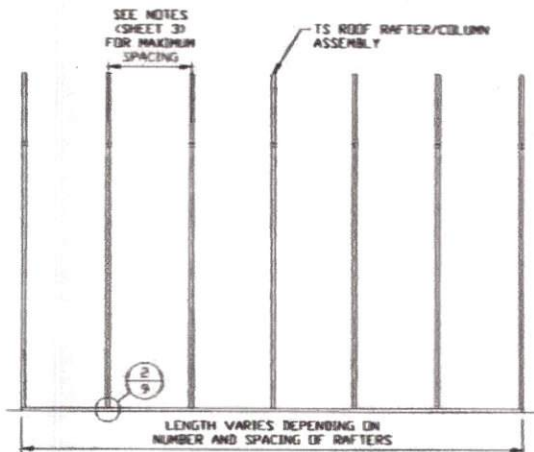
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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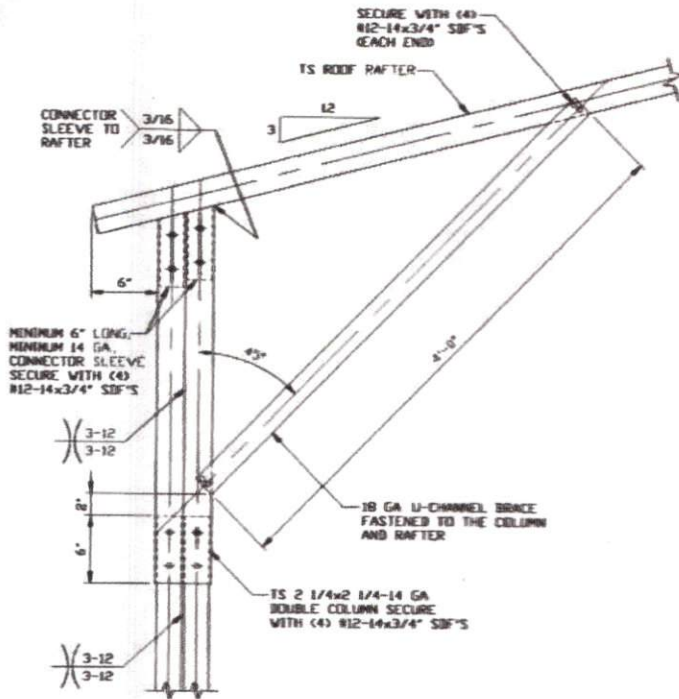
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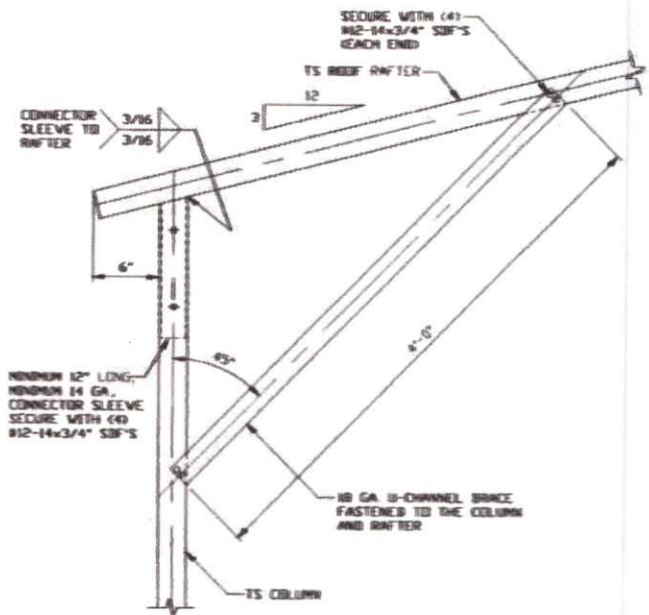
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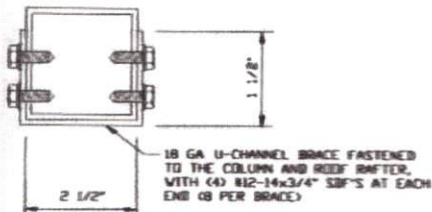
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1 BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 16'-0" SCALE: NTS



1A BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0" SCALE: NTS



BRACE SECTION SCALE: NTS

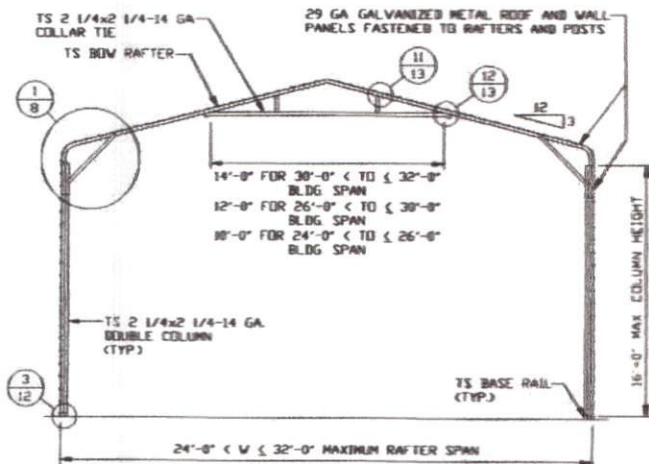
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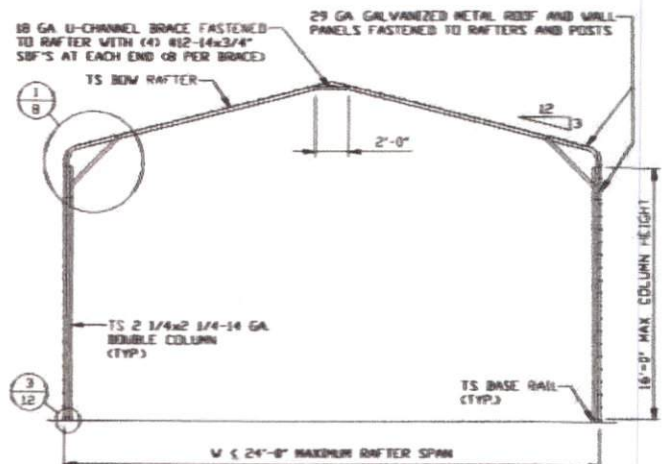
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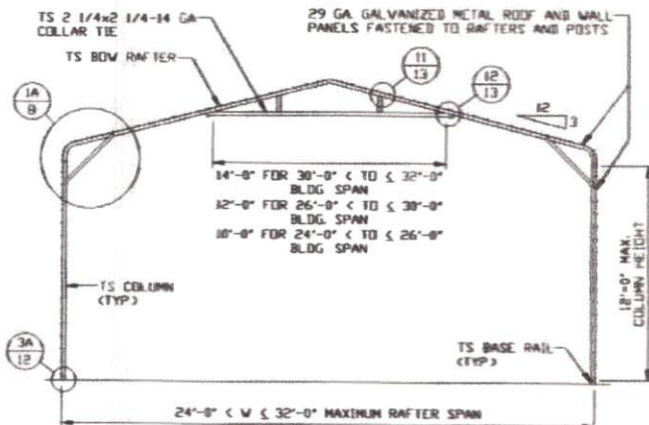
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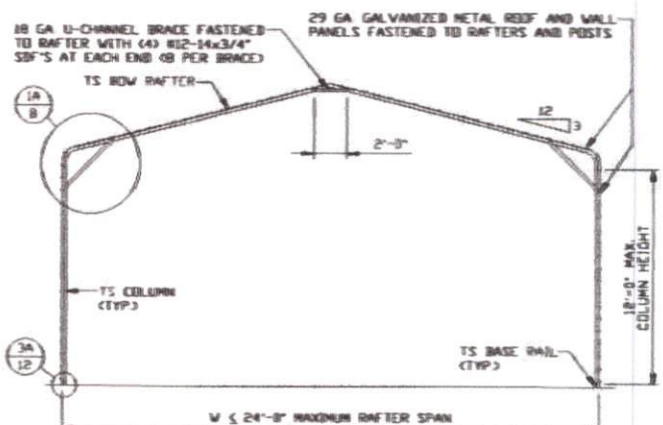
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



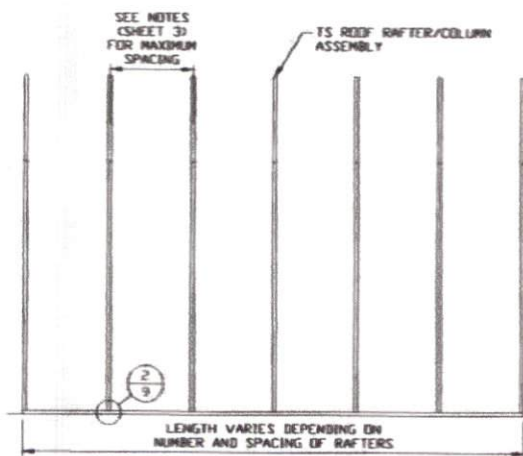
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
SCALE: NTS

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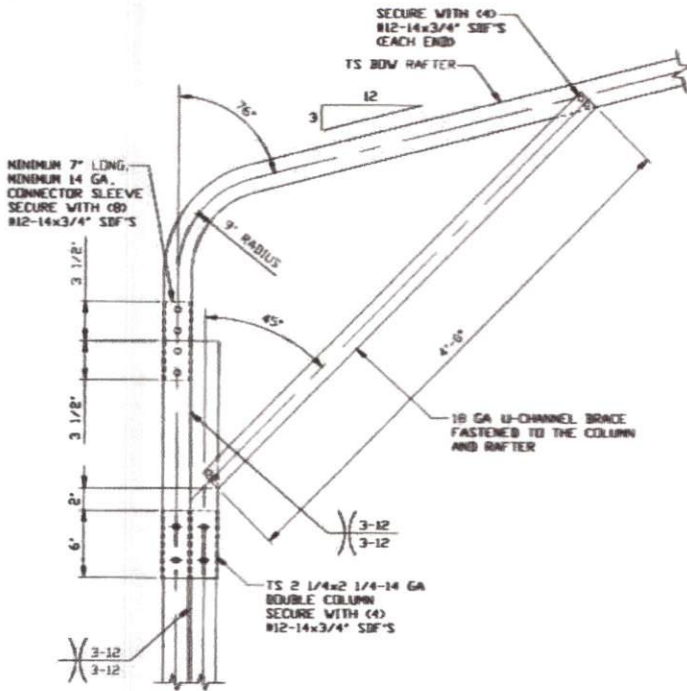
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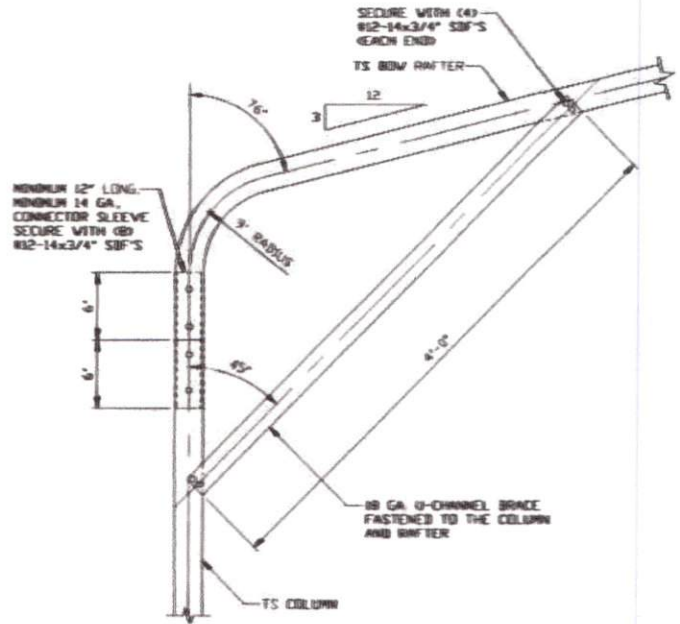
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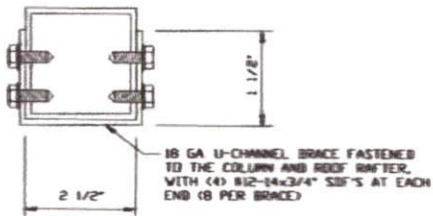
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1 **BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 16'-0"**
SCALE: NTS



1A **BOX EAVE RAFTER/CORNER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0"**
SCALE: NTS



BRACE SECTION
SCALE: NTS

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STEELCRAFT STRUCTURES
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SCALE: NTS

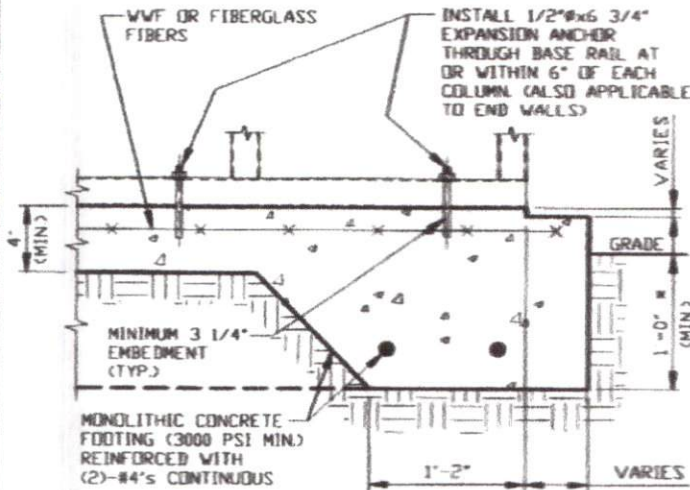
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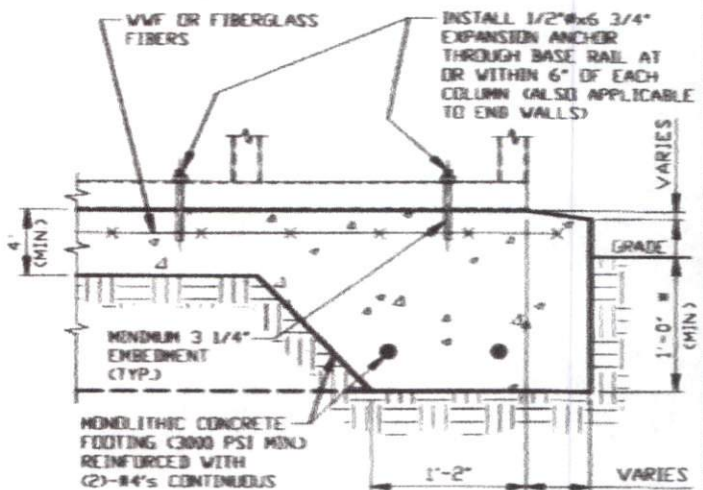
BASE RAIL ANCHORAGE OPTIONS



2

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.



2A

CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* 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:

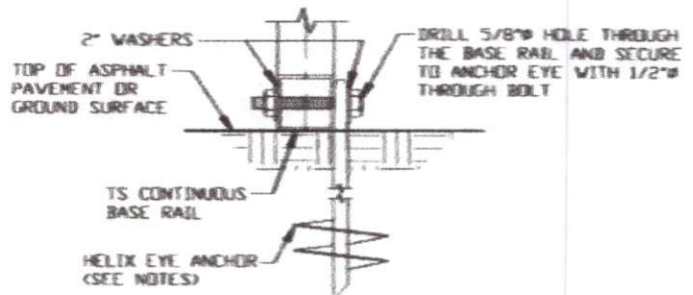
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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

HELIX ANCHOR NOTES:

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



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)
* COORDINATE WITH LOCAL CODES/ORD.
REGARDING MINIMUM FROST DEPTH REQ.

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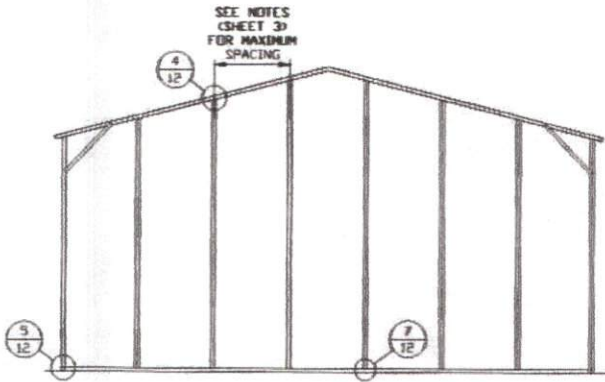
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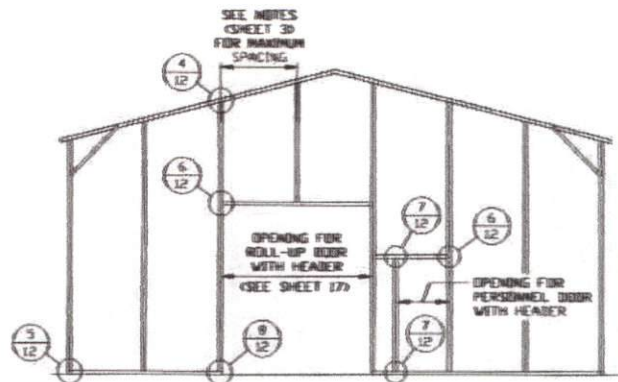
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



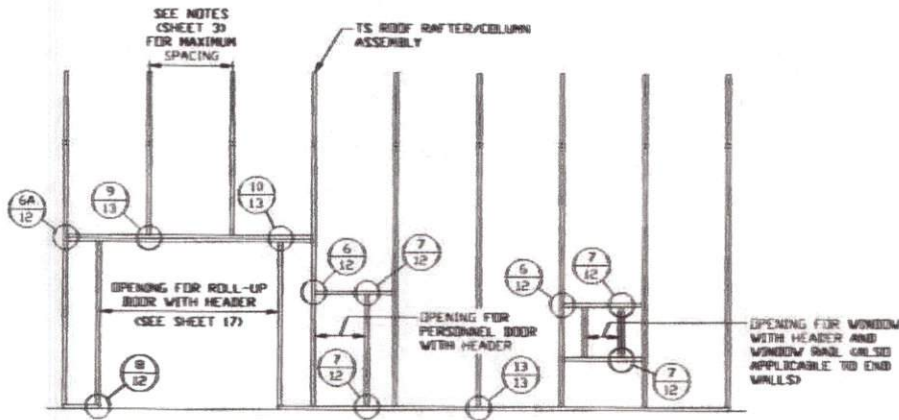
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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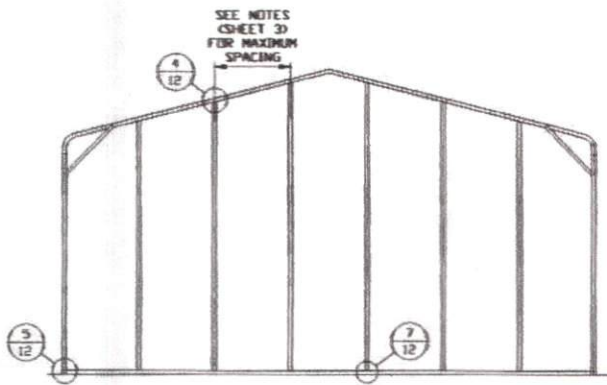
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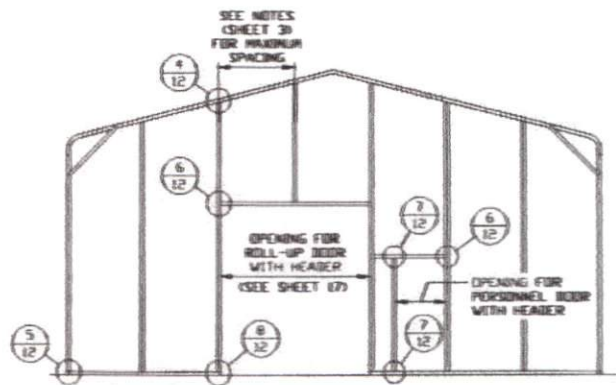
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BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



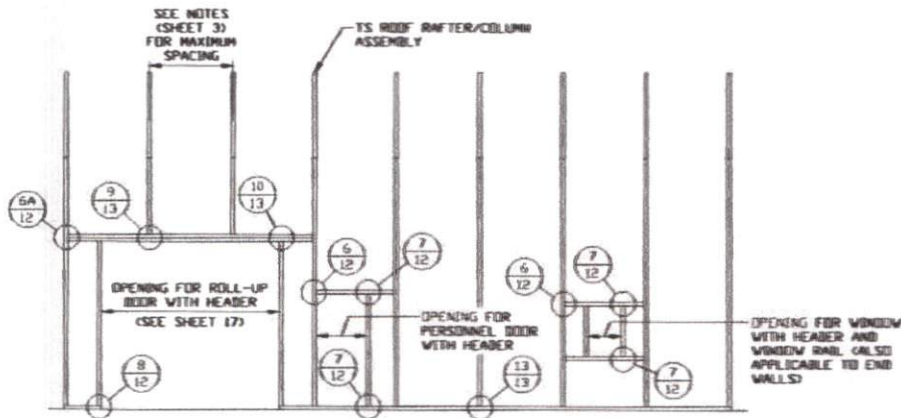
**TYPICAL BOW EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PMH

PROJECT NO: VSN

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES
1841 AMITY HILL RD.
STATESVILLE, NC 28677
32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SHT. 11

SCALE: NTS

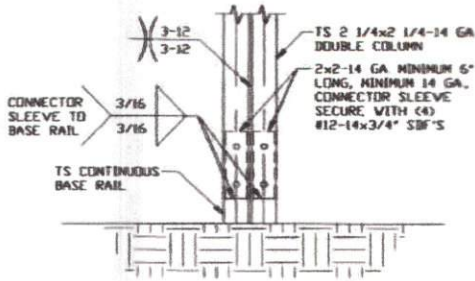
DWG. NO: SK-3

JOB NO: 210485

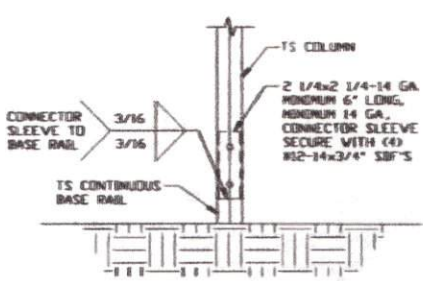
REV: 0

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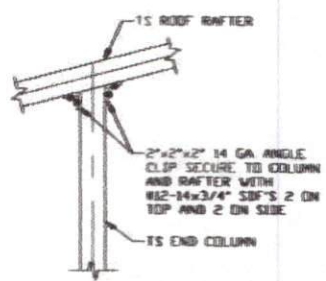
CONNECTION DETAILS



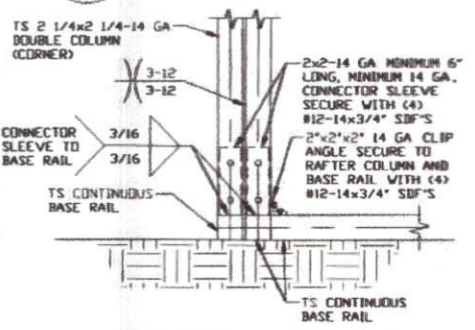
3 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



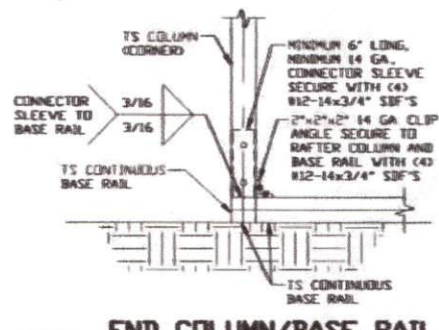
3A COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



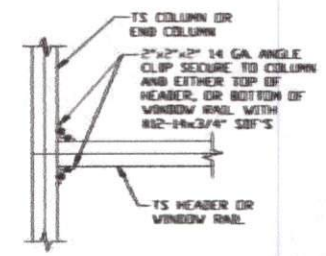
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



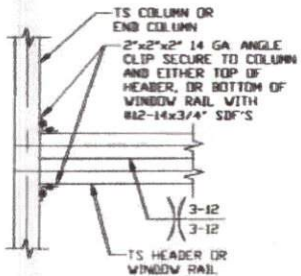
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



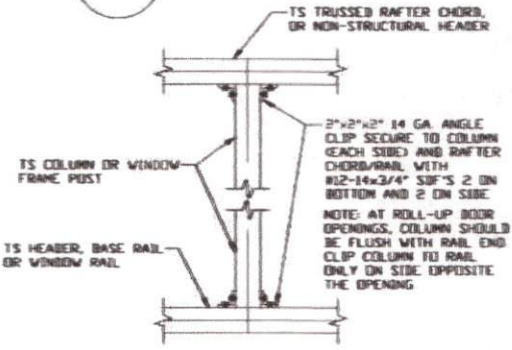
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



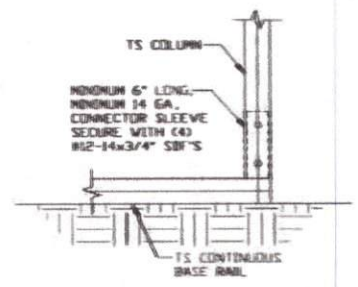
6 COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL
SCALE: NTS



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



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



8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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

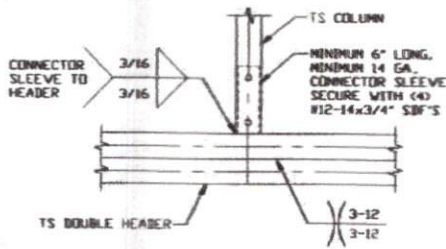
DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: VSM
CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES
1841 AMITY HILL RD.
STATESVILLE, NC 28677
32'-0" x 16'-0" ENCLOSED STRUCTURE

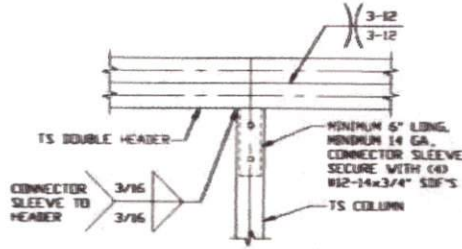
DATE: 10-1-21
SCALE: NTS
DWG. NO.: SK-3
SHT.: 12
JOB NO.: 21046S
REV.: 0

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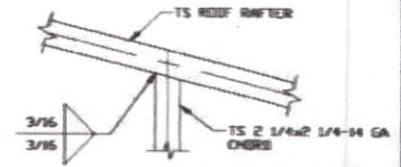
CONNECTION DETAILS



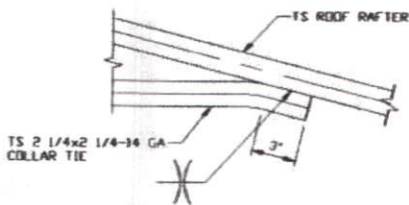
9 COLUMN/DOUBLE HEADER CONNECTION DETAIL
SCALE: NTS



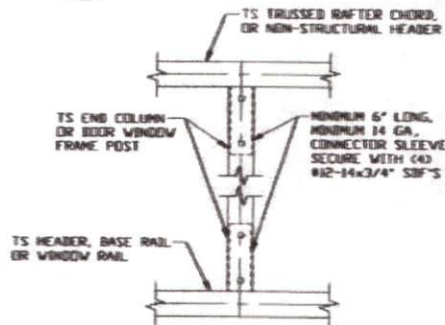
10 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL
SCALE: NTS



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

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

DRAWN BY: LT

CHECKED BY: PMH

PROJECT NO: VSM

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES
1841 AMITY HILL RD.
STATESVILLE, NC 28677
32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SHT. 13

SCALE: NTS

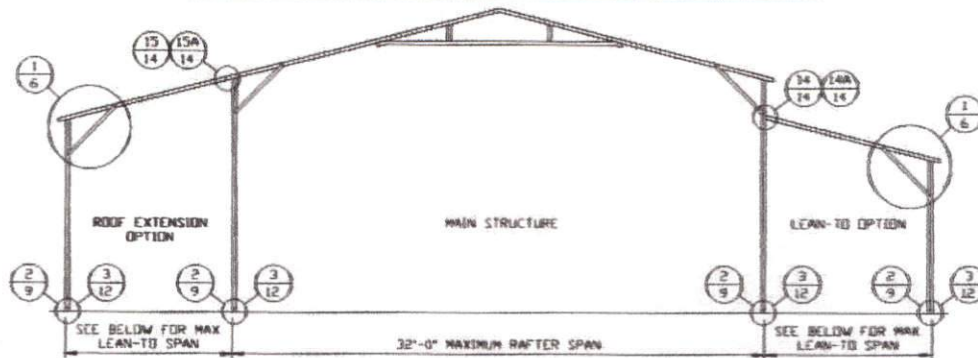
DWG. NO: SK-3

JOB NO: 21048S

REV: 0

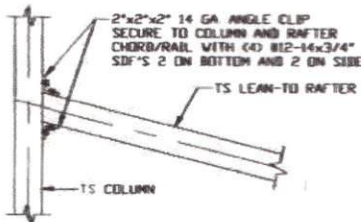
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BOX EAVE RAFTER LEAN-TO OPTIONS



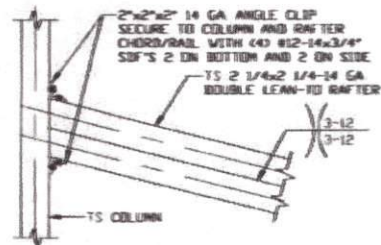
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS
 MAXIMUM WIDTH OF SINGLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0"
 MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0"
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 12'-0" < TO < 16'-0"
 MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMN FOR EAVE HEIGHTS < 12'-0".



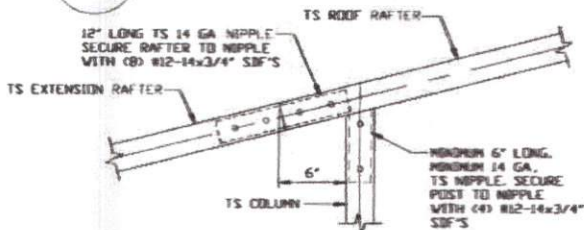
14 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



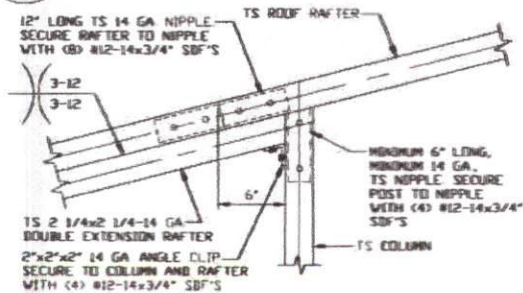
14A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0" < TO <= 16'-0"

SCALE: NTS



15 SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS $\leq 12'-0"$

SCALE: NTS



15A SIDE EXTENSION RAFTER COLUMN DETAIL FOR SPANS 12'-0" < TO <= 16'-0"

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PJM

PROJECT MGR: WSM

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES
 1841 AMITY HILL RD.
 STATESVILLE, NC 28677
 32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SHT. 14

SCALE: NTS

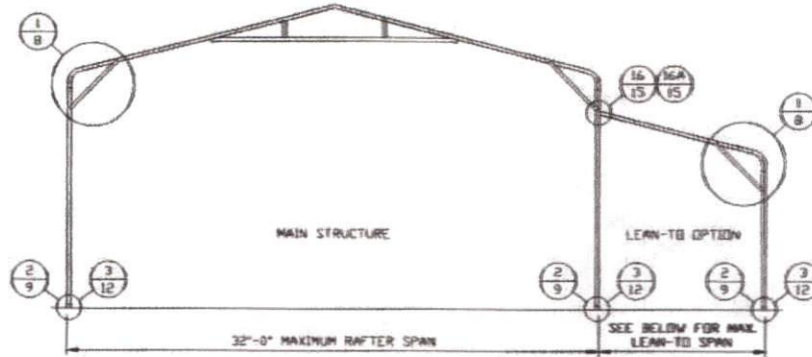
DWG. NO SK-3

JOB NO: 21048S

REV: 0

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BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

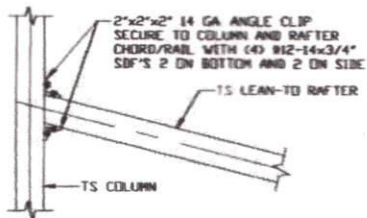
SCALE: NTS

MAXIMUM WIDTH OF SINGLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 12'-0".

MAXIMUM WIDTH OF DOUBLE MEMBER RAFTER ROOF EXTENSION AND LEAN-TO IS 16'-0".

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 12'-0" < TO ≤ 16'-0".

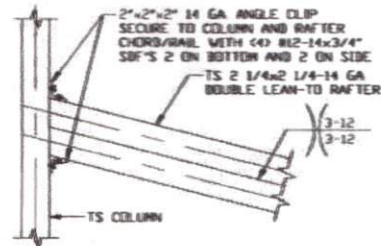
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMN FOR EAVE HEIGHTS ≤ 12'-0".



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS ≤ 12'-0"**

16

SCALE: NTS



**LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL FOR
RAFTER SPANS 12'-0" < TO ≤ 16'-0"**

16A

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: FBH

PROJECT MGR: WSH

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES

1841 AMITY HILL RD.

STATESVILLE, NC 28677

32'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SHT. 15

SCALE: NTS

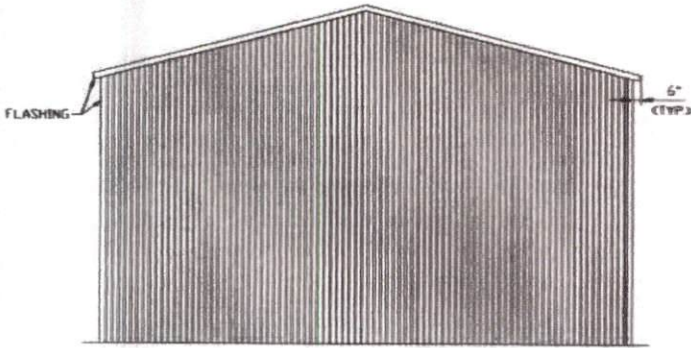
DWG. NO: SK-3

JOB NO: 210405

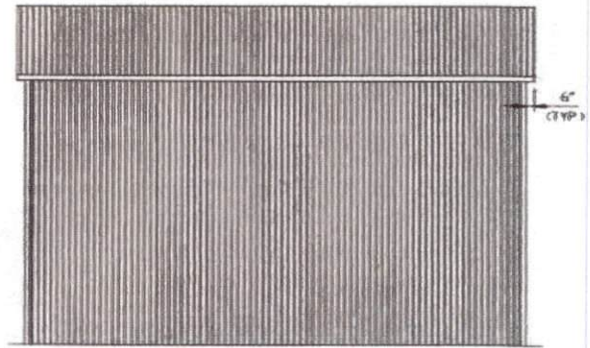
REV: 0

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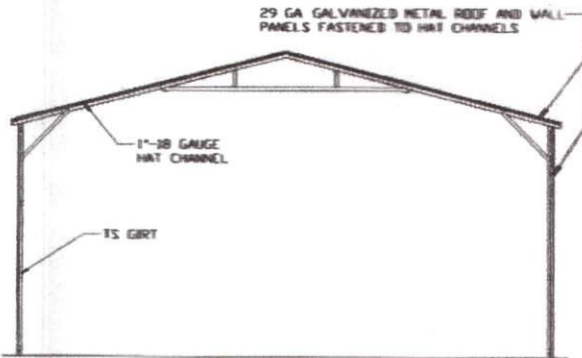
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



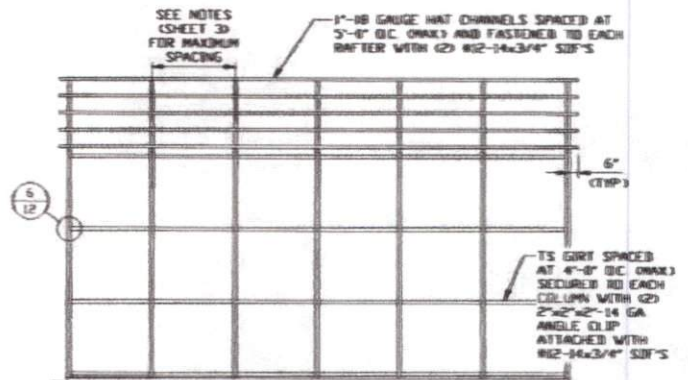
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



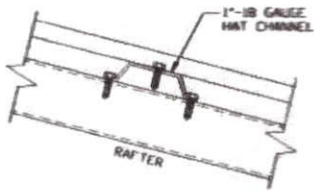
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**
SCALE: NTS



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



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



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

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

DRAWN BY: LT

CHECKED BY: PBN

PROJECT MGR: VSN

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES

1841 AMITY HILL RD.

STATESVILLE, NC 28677

32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SCALE: NTS

JOB NO: 210405

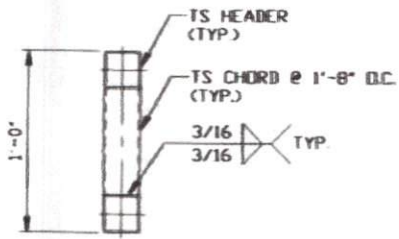
SHT. 16

DWG. NO: SK-3

REV: 0

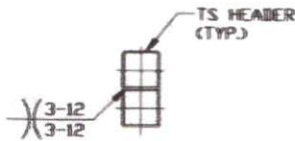
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SIDE WALL HEADER OPTIONS



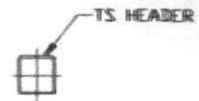
**HEADER DETAIL FOR
SIDE WALL DOOR OPENINGS
14'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR
SIDE WALL DOOR OPENINGS
8'-0" < LENGTH ≤ 14'-0"**

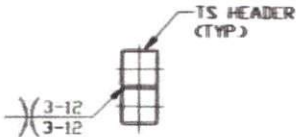
SCALE: NTS



**HEADER DETAIL FOR
SIDE WALL
DOOR OPENINGS ≤ 8'-0"**

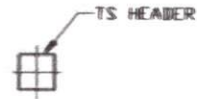
SCALE: NTS

END WALL HEADER OPTIONS



**HEADER DETAIL FOR SIDE WALL
DOOR OPENINGS
13'-0" < LENGTH ≤ 16'-0"**

SCALE: NTS



**HEADER DETAIL FOR END WALL
DOOR OPENINGS ≤ 13'-0"**

SCALE: NTS

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

DRAWN BY: LT

CHECKED BY: PBH

PROJECT MGR: VSH

CLIENT: STEELCRAFT

STEELCRAFT STRUCTURES

1841 AMITY HILL RD.

STATESVILLE, NC 28677

32'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 10-1-21

SHT. 17

SCALE: NTS

DWG. NO: SK-3

JOB NO: 210405

REV: 0

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