



STRUCTURAL DESIGN **ENCLOSED BUILDING**

**MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME**

Prepared for:

1st Choice Metal Buildings and Carports
2524 South Street
Nacogdoches, TX 75964

Prepared by:

Moore and Associates Engineering
and Consulting, Inc.

1009 East Avenue
North Augusta, SC 29841

401 S. Main St., Suite 200
Mt. Airy, NC 27030

Validity Notice

Plans Expiration Date: **29 August 2025**



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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JG | 1st CHOICE METAL BUILDINGS AND CARPORTS 2524 SOUTH STREET NACOGDOCHES, TX 75964 30'-0" x 16'-0" ENCLOSED STRUCTURE | | |
| | CHECKED BY: JRP | | | |
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| | CLIENT: 1st CHOICE METAL BUILDINGS | SHT. 2 | DWG. NO: SK-3 | REV: 0 |

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-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) 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-ON-GRADE)
 - D) GROUND SNOW LOAD = 35 PSF
 - = 20 PSF WITH U-CHANNEL RAFTER TIE AND $W \leq 16'-0"$

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFT/SLIDING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED. DROP-DOWN LEAN-TO'S (THOSE CAUSING A HEIGHT DIFFERENTIAL FROM THE MAIN STRUCTURE) SHALL ONLY BE USED FOR GROUND SNOW LOADS ≤ 20 PSF.
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = ≤ 170 MPH (NOMINAL WIND SPEED = ≤ 125 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I (NOT FOR HUMAN OCCUPANCY).
8. WIND EXPOSURE CATEGORY B.
9. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (F_y) OF 38 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
10. SPECIFICATIONS APPLICABLE TO 26 GAUGE (OR 29 GAUGE WITH MAXIMUM RAFTER/COLUMN SPACING $\leq 4'-0"$) METAL PANELS FASTENED DIRECTLY TO 2 1/2"x2 1/2"-14 GAUGE TS FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2"x2 1/2"-14 GAUGE IS SPECIFIED, TS 2 1/4"x2 1/4"-12 GAUGE MAY BE USED AS AN OPTION.
11. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4"x2 1/4"-14 GAUGE FOR 2 1/2"x2 1/2"-14 GAUGE AND TS 2"x2"-14 GAUGE FOR 2 1/4"x2 1/4"-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
12. AVERAGE FASTENER SPACING ON-CENTERS = 10 INCHES.
13. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
14. GROUND 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 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
16. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I
 - $R = 3.25$
 - $S_{DS} = 2.625 g$
 - $S_{D1} = 2.13 g$
 - $I_E = 1.0$
 - $V = C_s W$
17. 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.
18. 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.
19. THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTENDED FOR PLANT FABRICATION AND ERECTION Akin 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.

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**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 8-29-24

SHT. 3

SCALE: NTS

DWG. NO: SK-3

JOB NO: 231425

REV: 0

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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)

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

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

KANSAS BUILDING CODE 2018
 (ADOPTS THE IBC 2018 WITH AMENDMENTS)
 WICHITA-SEDGWICK BUILDING CODE 2018
 (ADOPTS THE IBC 2018 WITH AMENDMENTS)
 (IBC 2006, IBC 2018
 (DEPENDENT UPON LOCAL JURISDICTION))

LOUISIANA BUILDING CODE 2021
 (ADOPTS THE IBC 2021 WITH AMENDMENTS)

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

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

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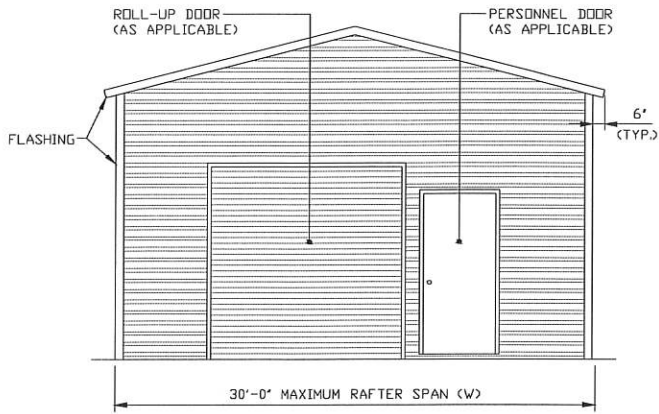
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DWG. NO: SK-3

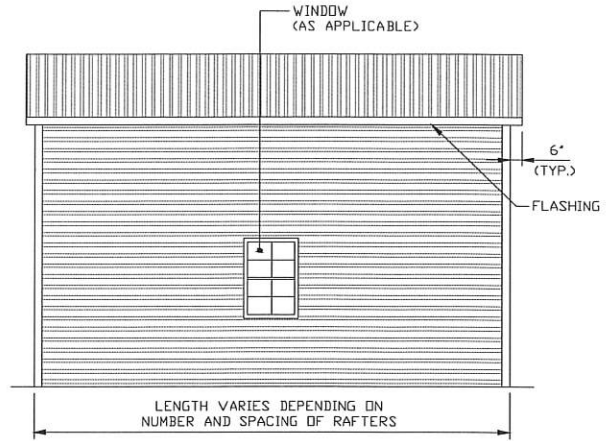
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BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

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SHT. 4

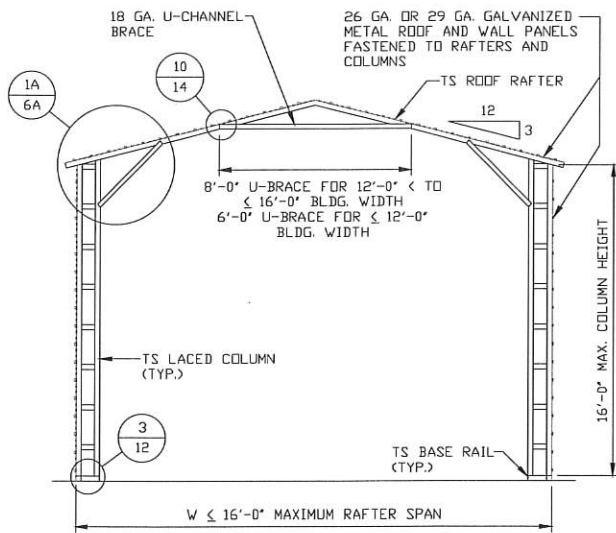
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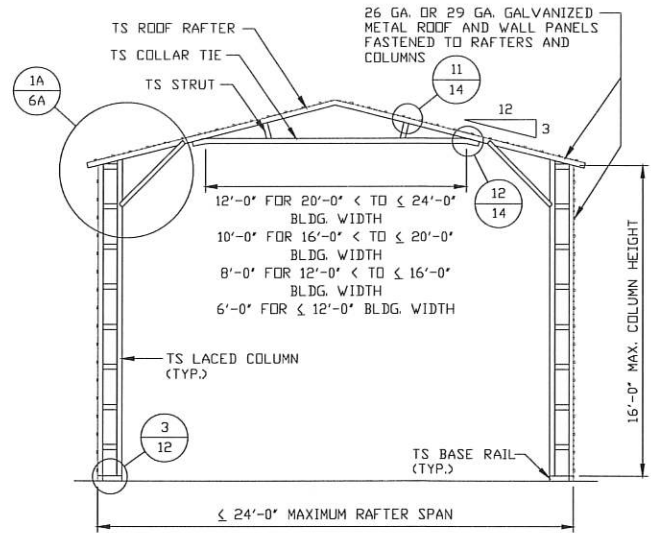
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

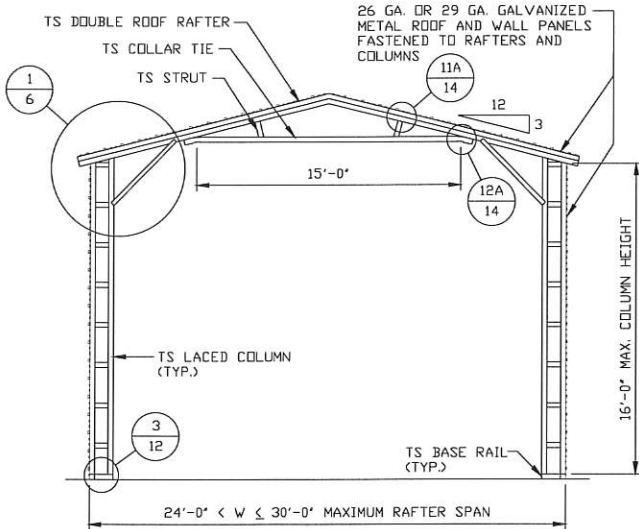
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

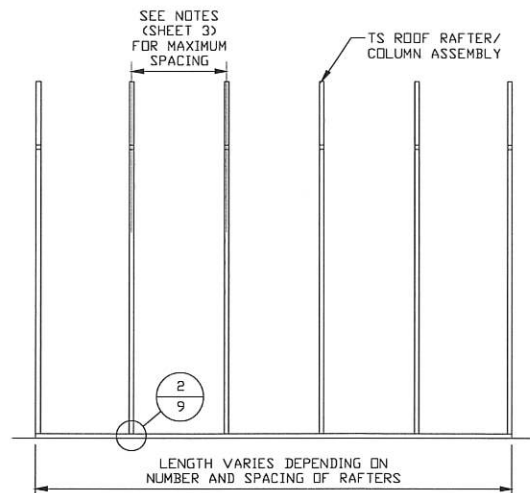
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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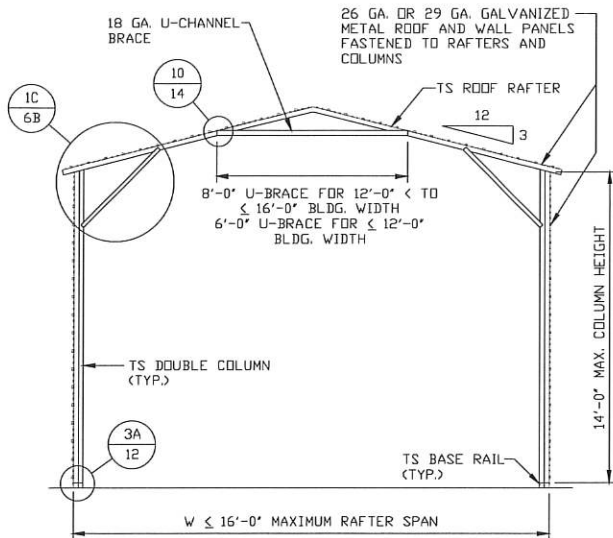
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SHT. 5

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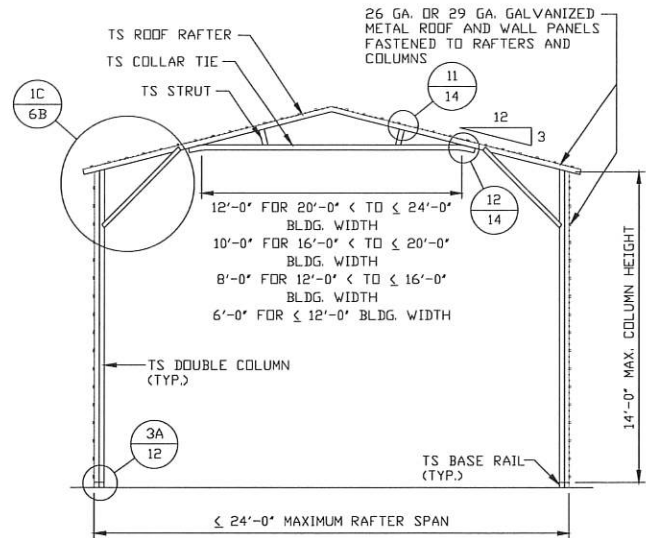
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

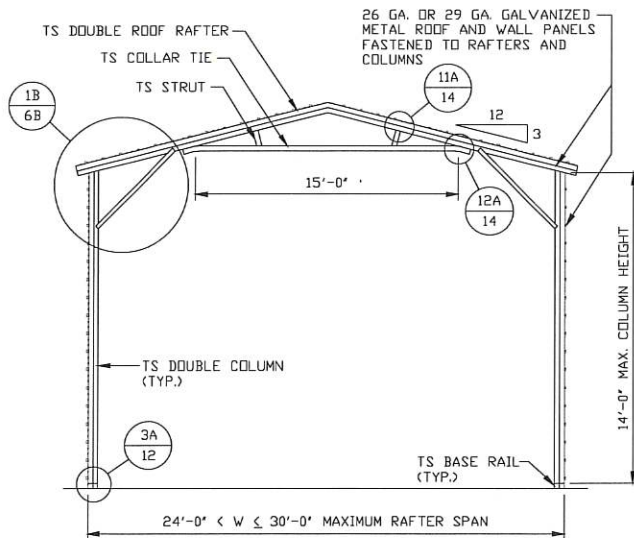
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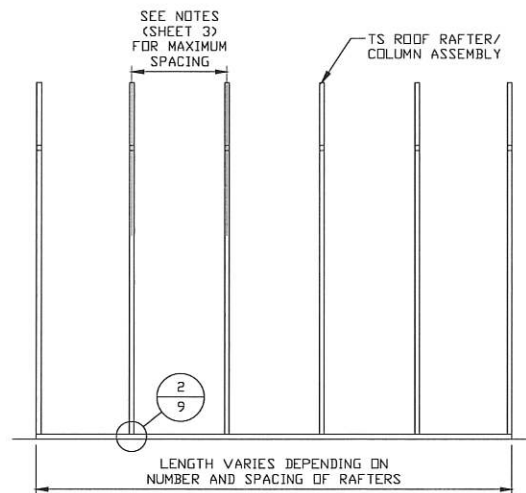
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS $\leq 20'-0''$



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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SHT. 5A

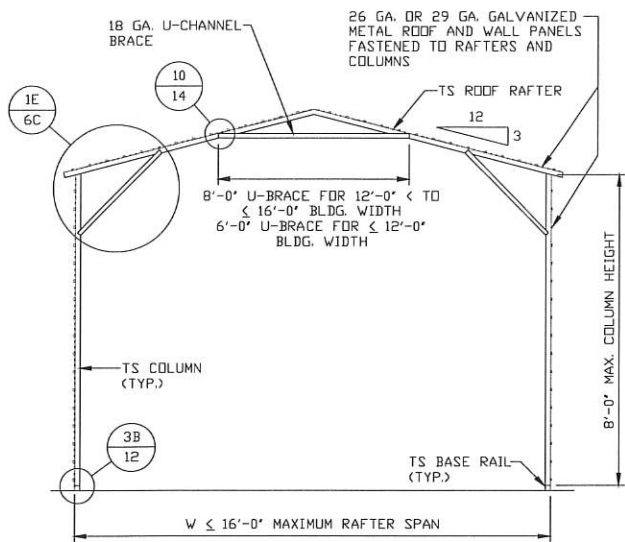
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JOB NO: 23142S

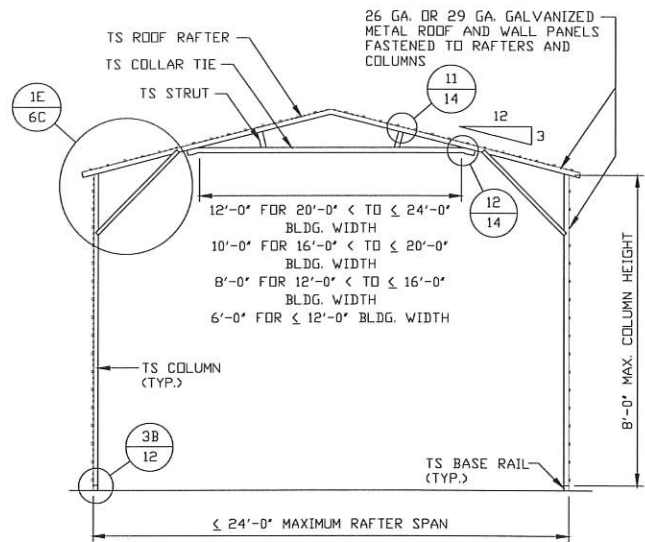
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

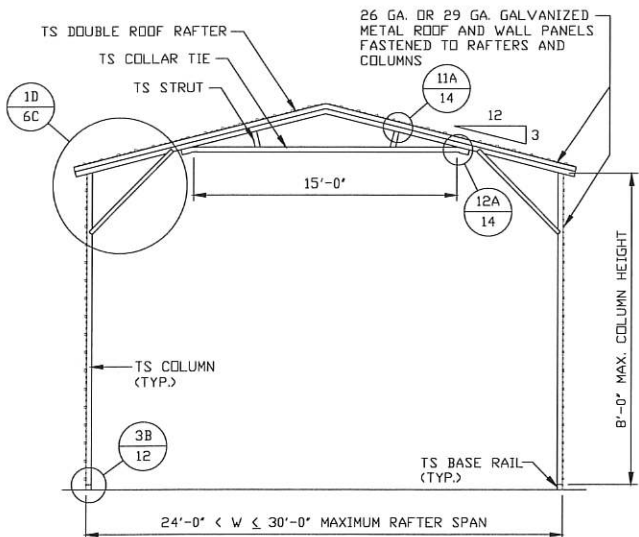
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COLUMN FRAME SECTION**

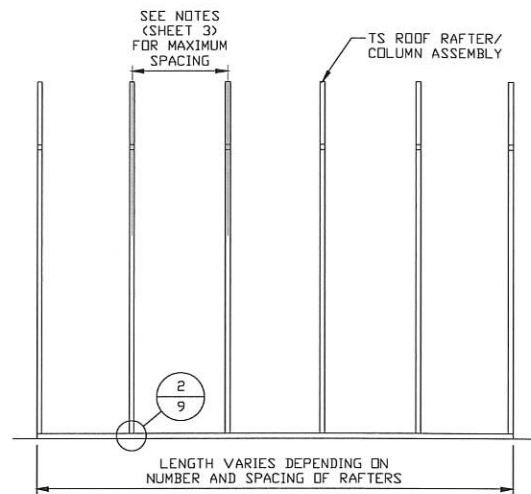
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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SHT. 5B

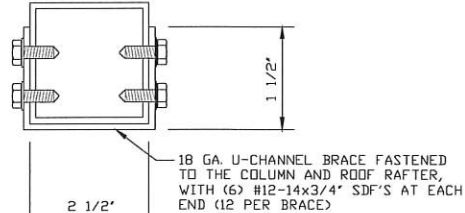
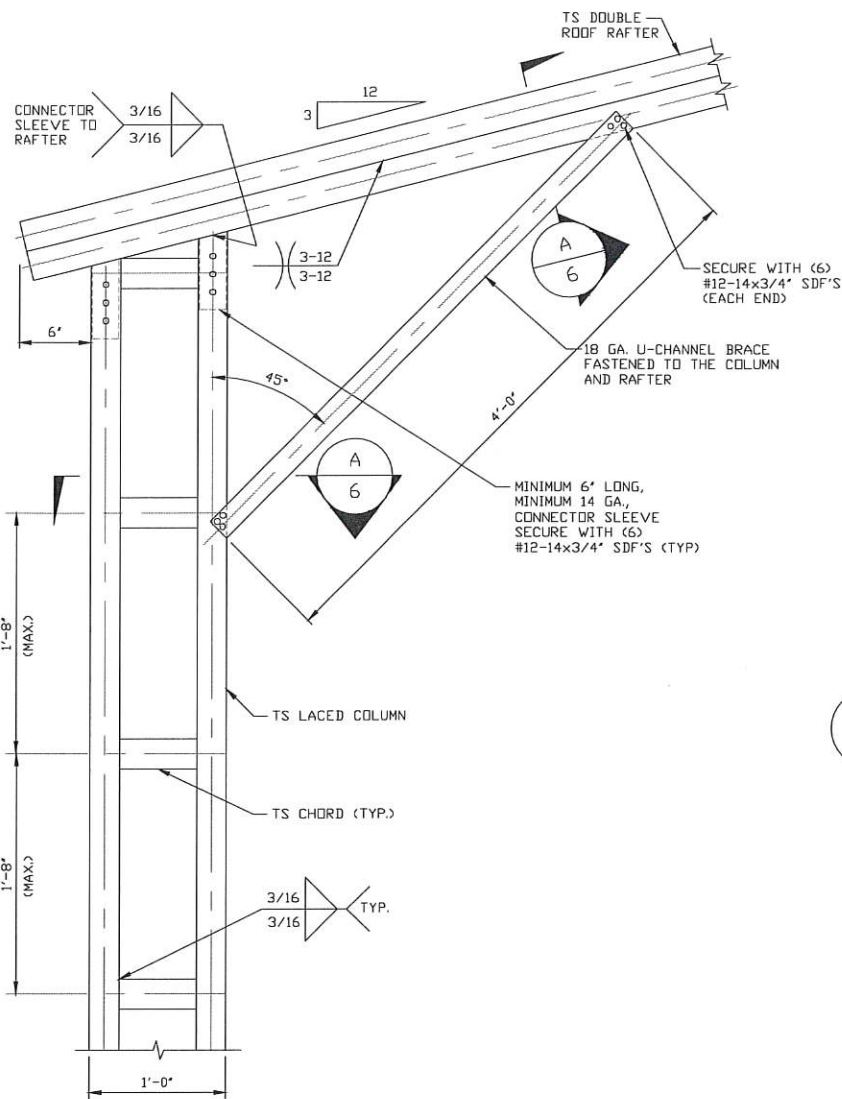
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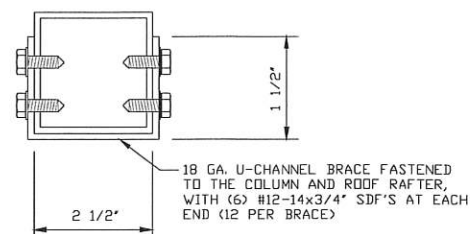
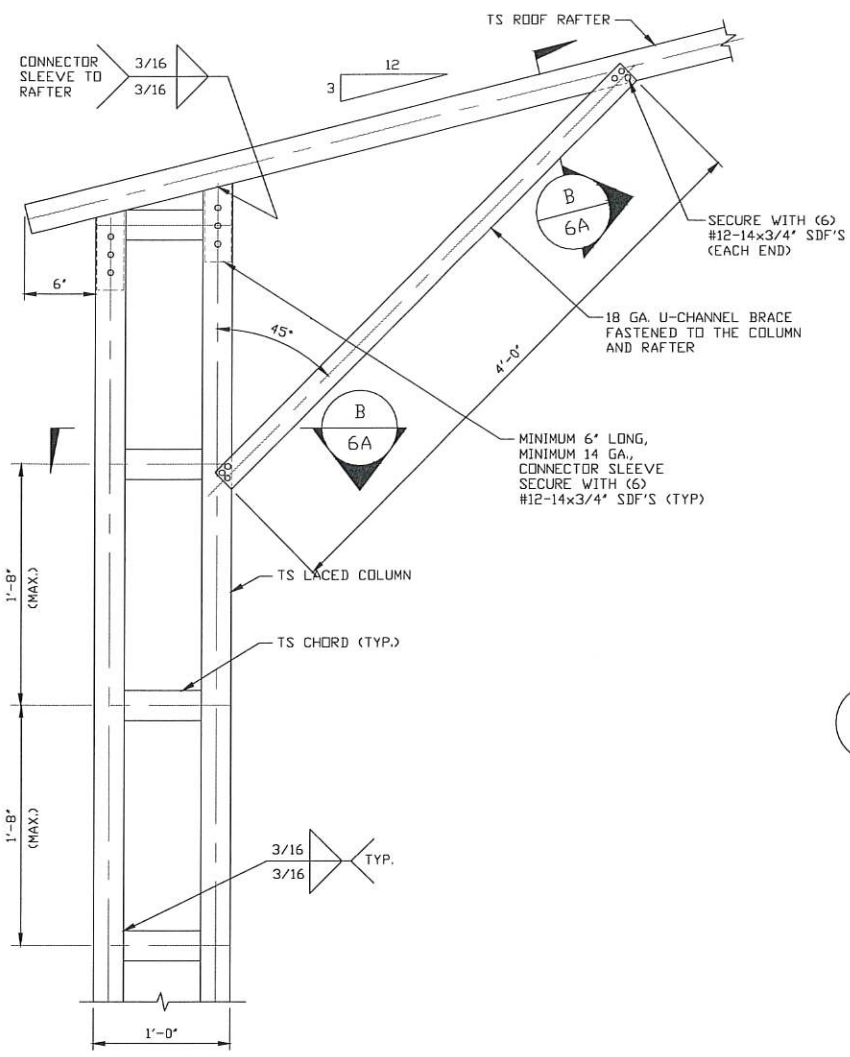
A BRACE SECTION
 SCALE: NTS
 NOTE: DOUBLE ROOF RAFTER AND LACED COLUMN NOT SHOWN FOR CLARITY.

1 BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"
 SCALE: NTS

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| | CHECKED BY: JRP | | | |
| PROJECT MGR: JRP | DATE: 8-29-23 | SCALE: NTS | JOB NO: 23142S | |
| CLIENT: 1st CHOICE METAL BUILDINGS | SHT. 6 | DWG. NO: SK-3 | REV: 0 | |

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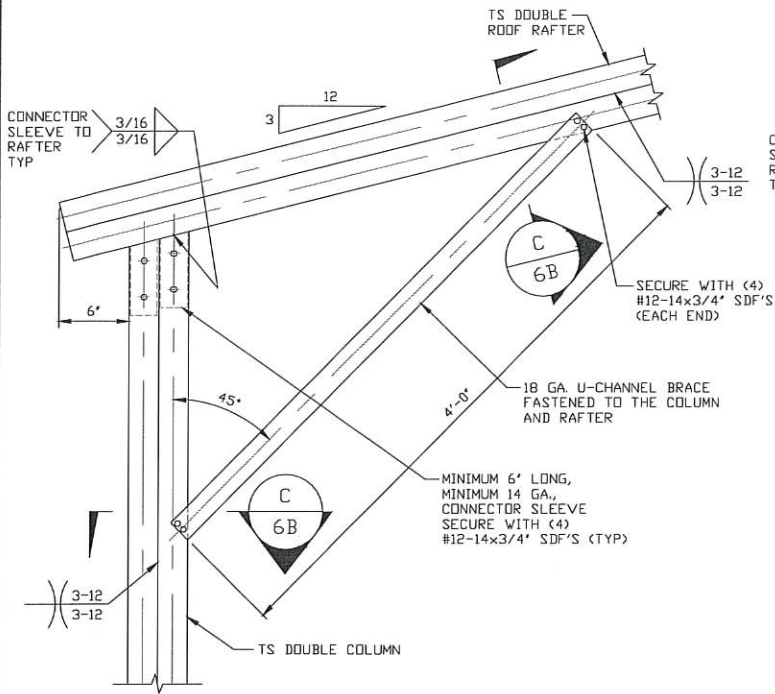
B **BRACE SECTION**
 SCALE: NTS
 NOTE: LACED COLUMN NOT SHOWN FOR CLARITY.

1A **BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL**
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"
 SCALE: NTS

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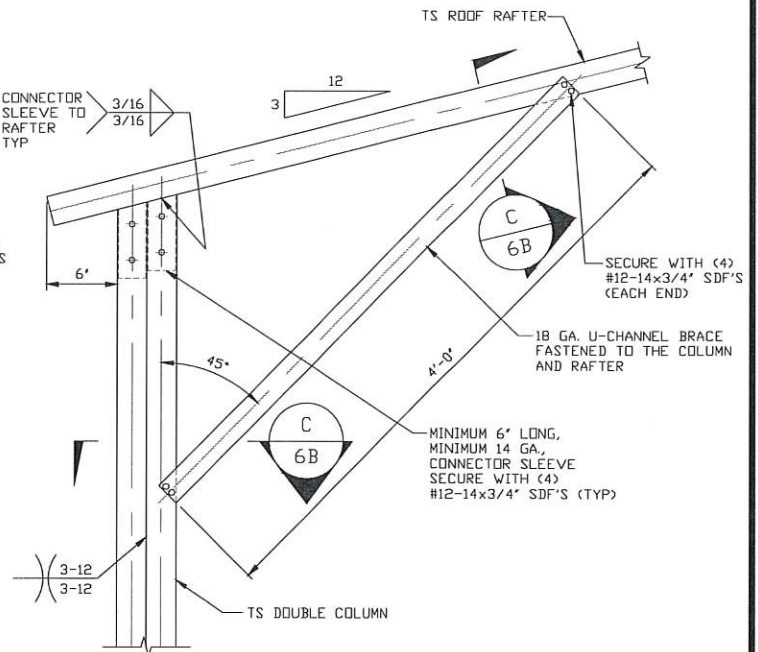
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BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"

1B

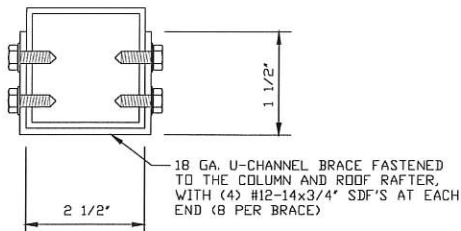
SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"

1C

SCALE: NTS



C

BRACE SECTION

SCALE: NTS

NOTE: DOUBLE ROOF RAFTER AND DOUBLE COLUMN NOT SHOWN FOR CLARITY.

Validity Notice

Plans Expiration Date:

29 August 2024

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

CLIENT: 1st CHOICE METAL BUILDINGS

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

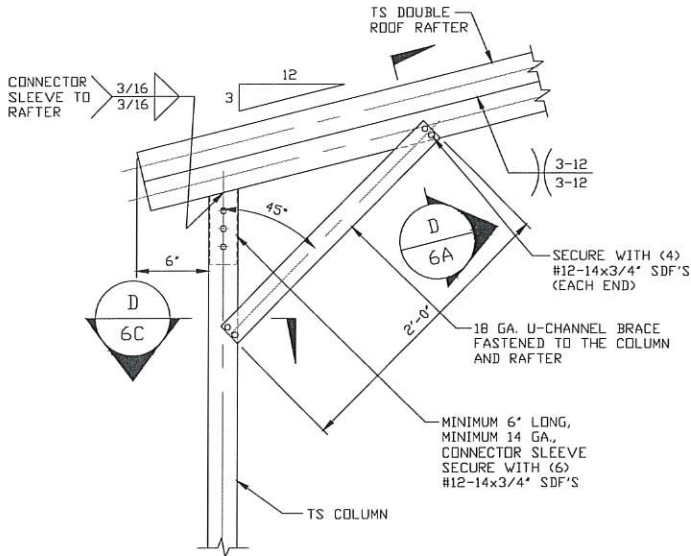
JOB NO: 23142S

SHT. 6B

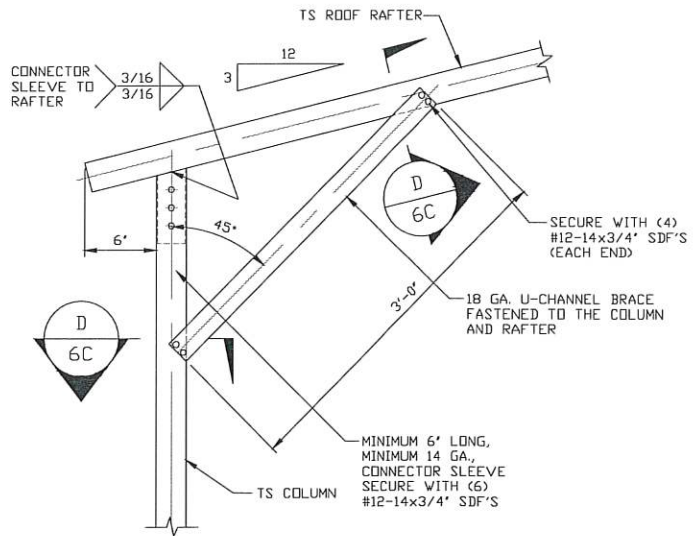
DWG. NO: SK-3

REV: 0

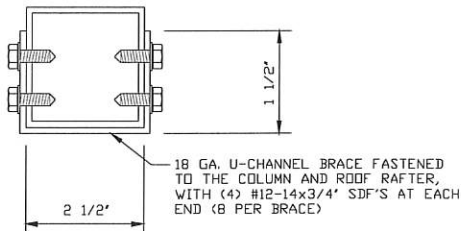
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1D BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 8'-0"$
SCALE: NTS



1E BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 8'-0"$
SCALE: NTS
NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS $\leq 22'-0"$.



D BRACE SECTION
SCALE: NTS
NOTE: DOUBLE ROOF RAFTER NOT SHOWN FOR CLARITY.

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0"x16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

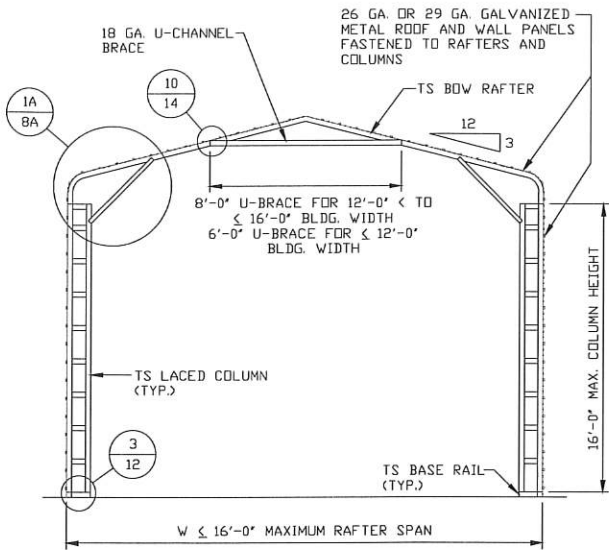
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SHT. 6C

DWG. NO: SK-3

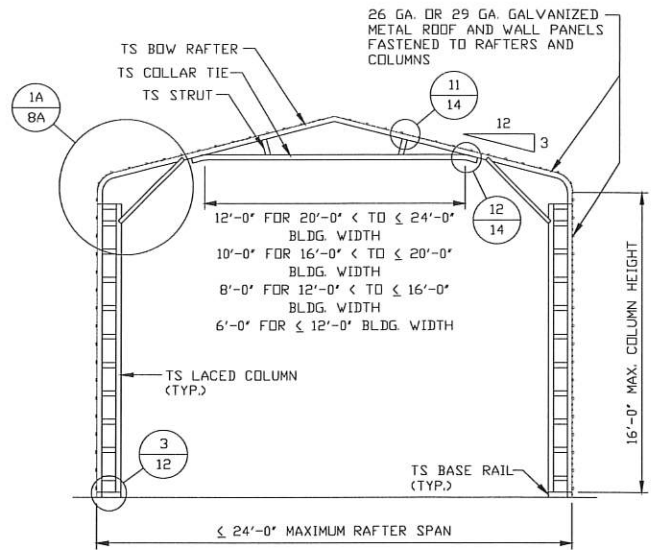
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

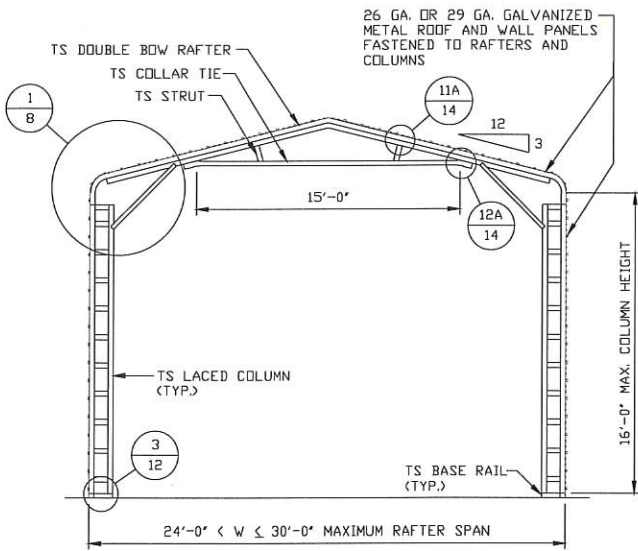
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

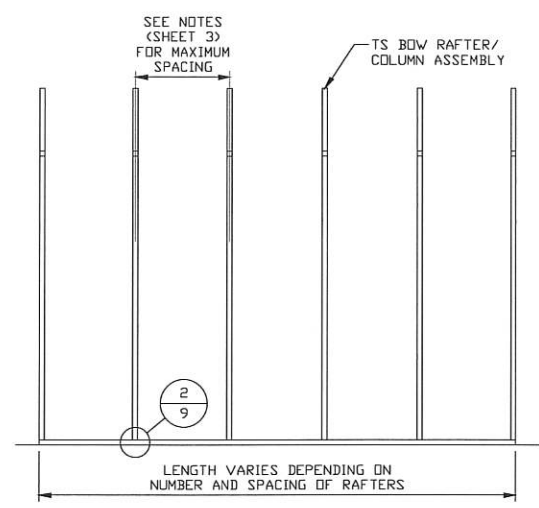
SCALE: NTS

NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG
CHECKED BY: JRP

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0"x16'-0" ENCLOSED STRUCTURE

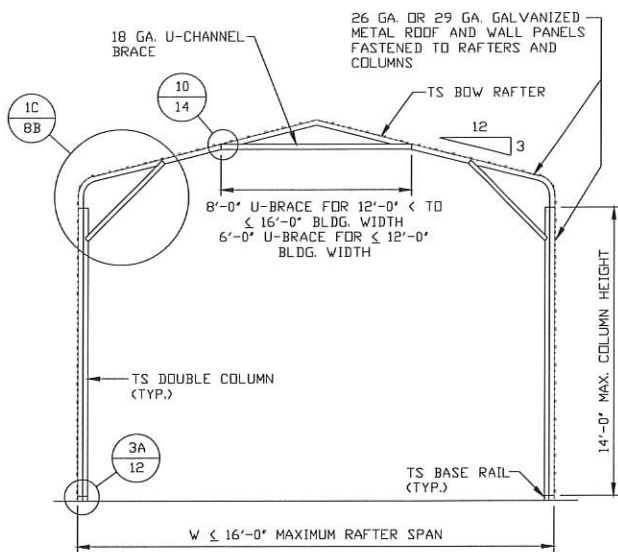
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PROJECT MGR: JRP
CLIENT: 1st CHOICE METAL BUILDINGS

DATE: 8-29-23
SHT. 7

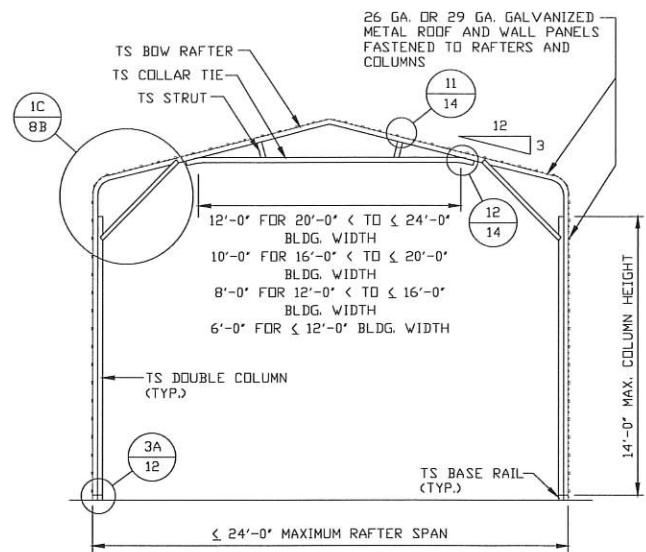
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DWG. NO: SK-3

JOB NO: 23142S
REV: 0



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

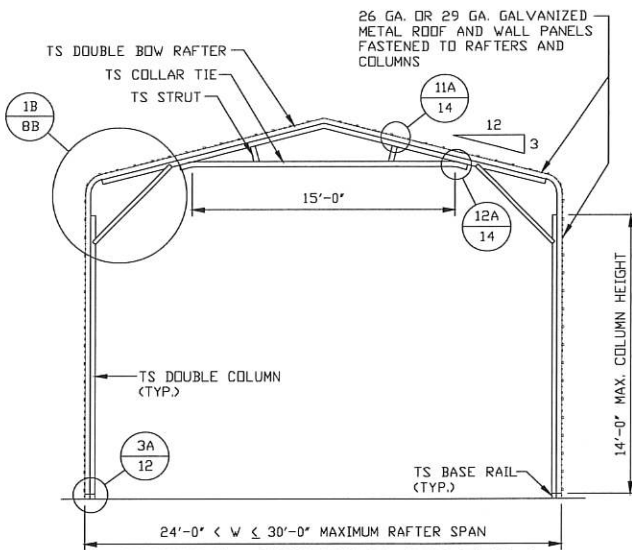
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

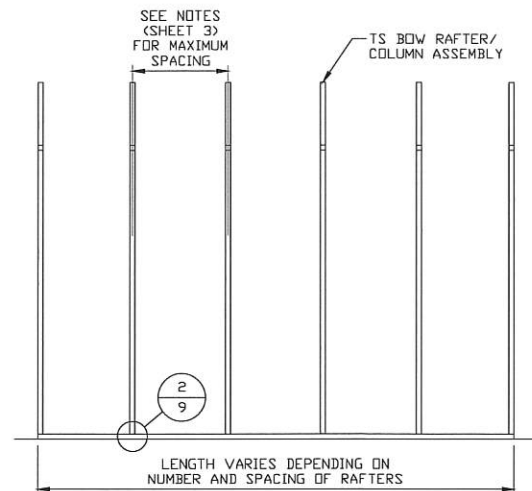
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 7A

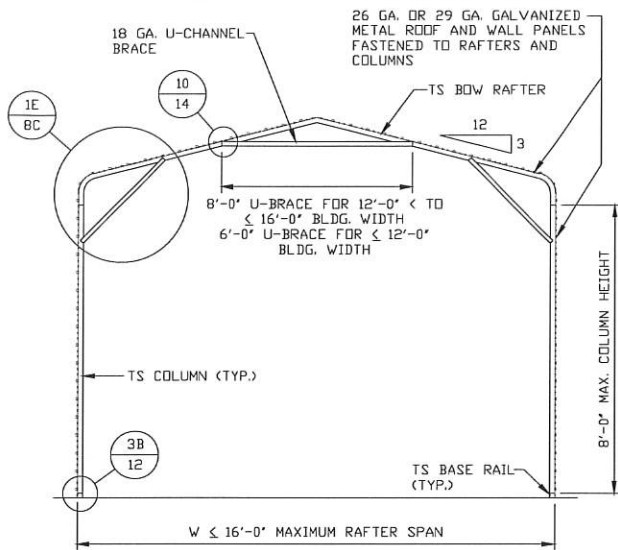
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JOB NO: 23142S

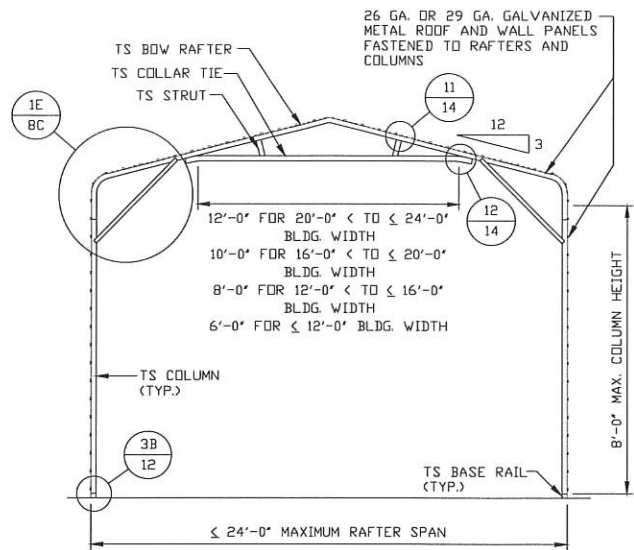
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

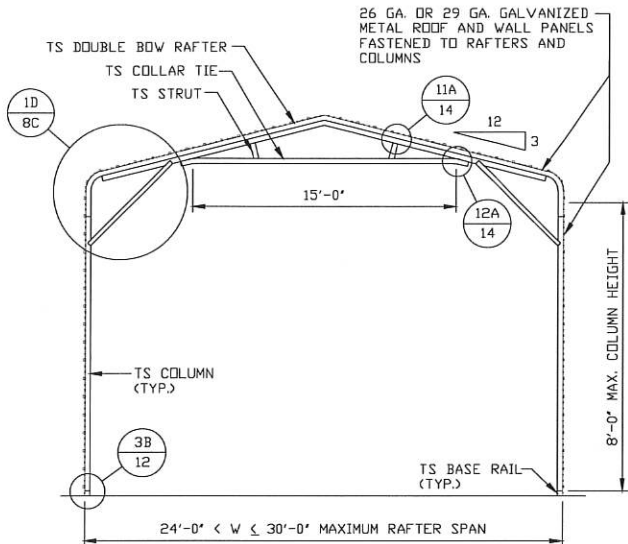
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**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

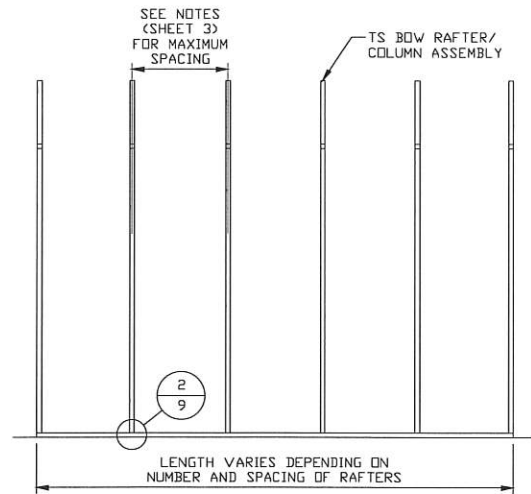
SCALE: NTS

NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/
COLUMN FRAME SECTION**

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 7B

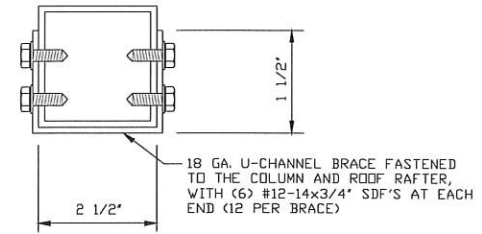
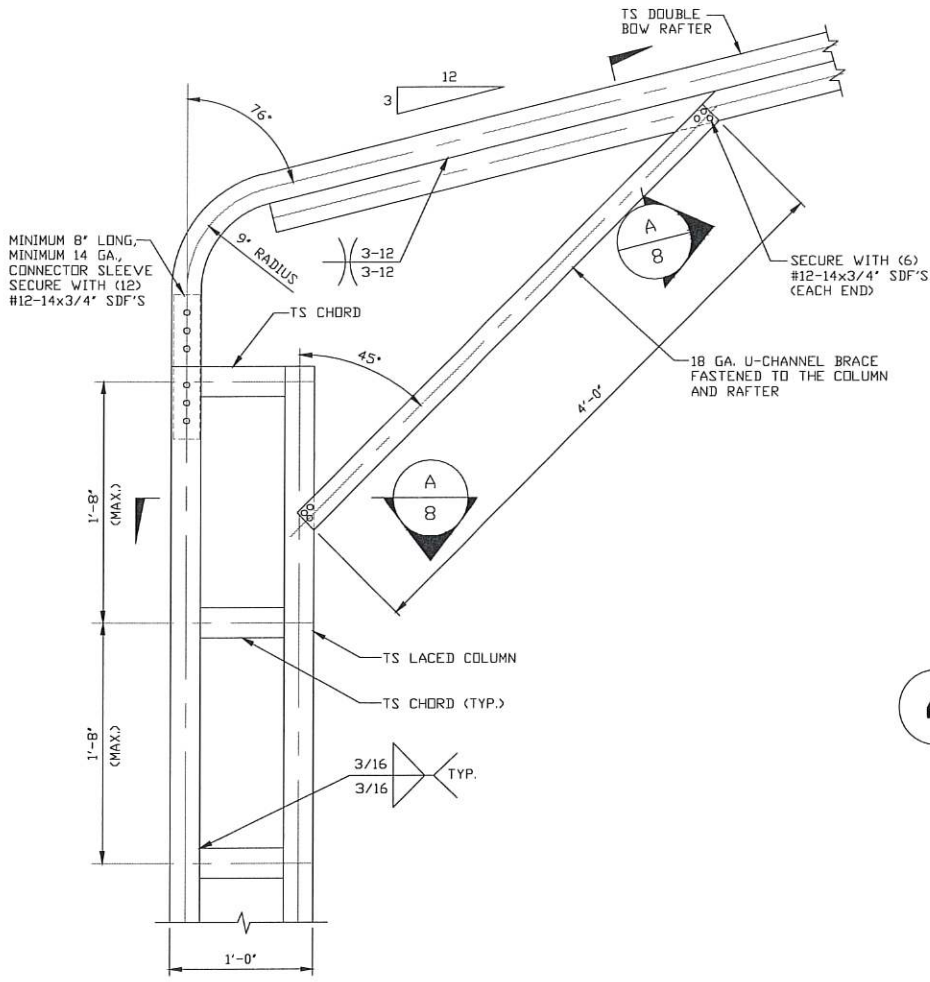
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DWG. NO: SK-3

JOB NO: 23142S

REV: 0

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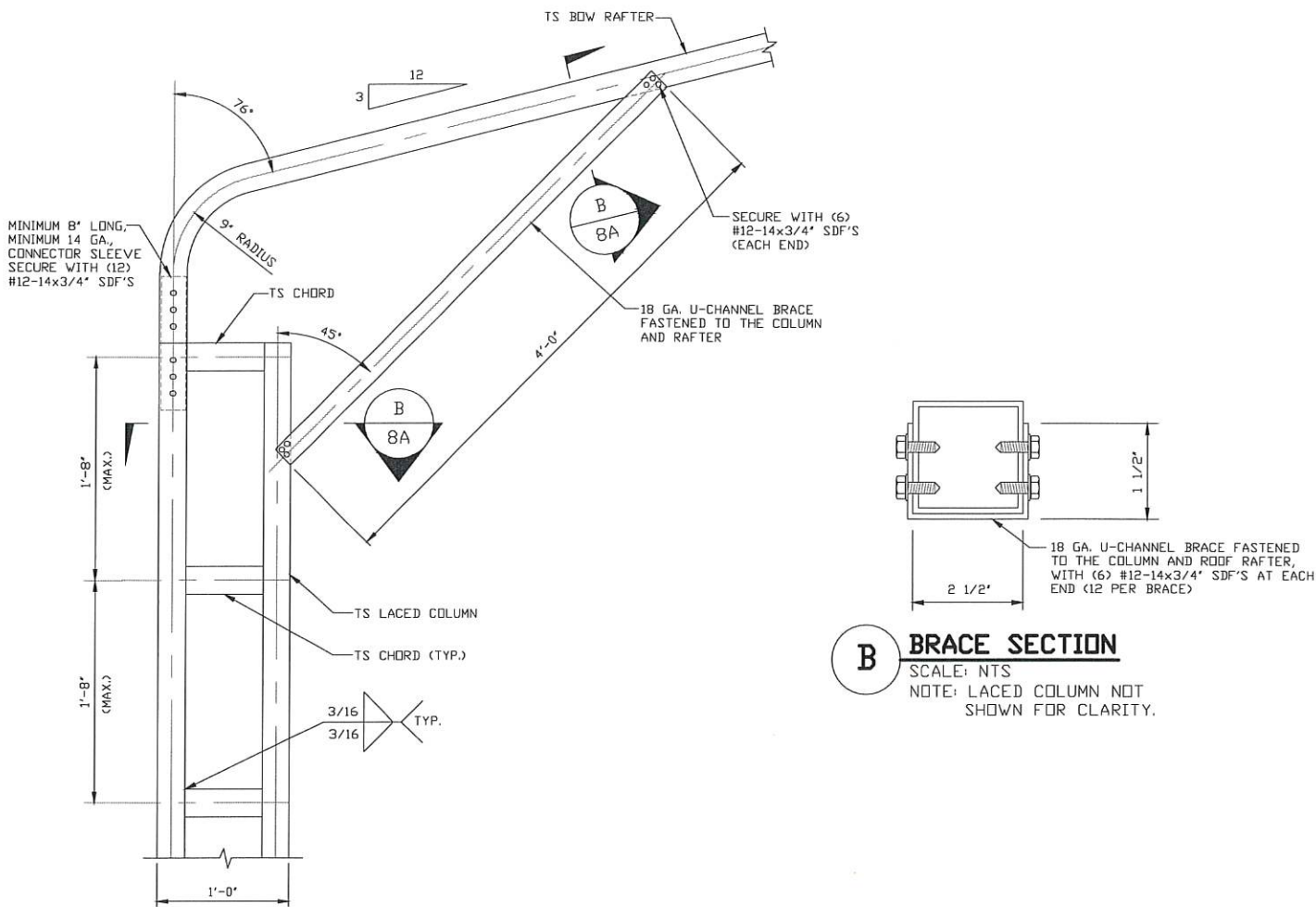


A BRACE SECTION
 SCALE: NTS
 NOTE: DOUBLE BOW RAFTER AND LACED COLUMN NOT SHOWN FOR CLARITY.

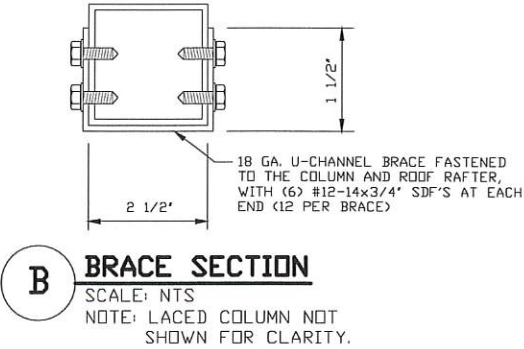
1
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 14'-0" < TO ≤ 16'-0"
 SCALE: NTS

Validity Notice
 Plans Expiration Date:
29 August 2024

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JG | 1st CHOICE METAL BUILDINGS AND CARPORTS 2524 SOUTH STREET NACOGDOCHES, TX 75964 30'-0" x 16'-0" ENCLOSED STRUCTURE | | |
| | CHECKED BY: JRP | | | |
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| | CLIENT: 1st CHOICE METAL BUILDINGS | SHT. 8 | DWG. NO: SK-3 | REV: 0 |



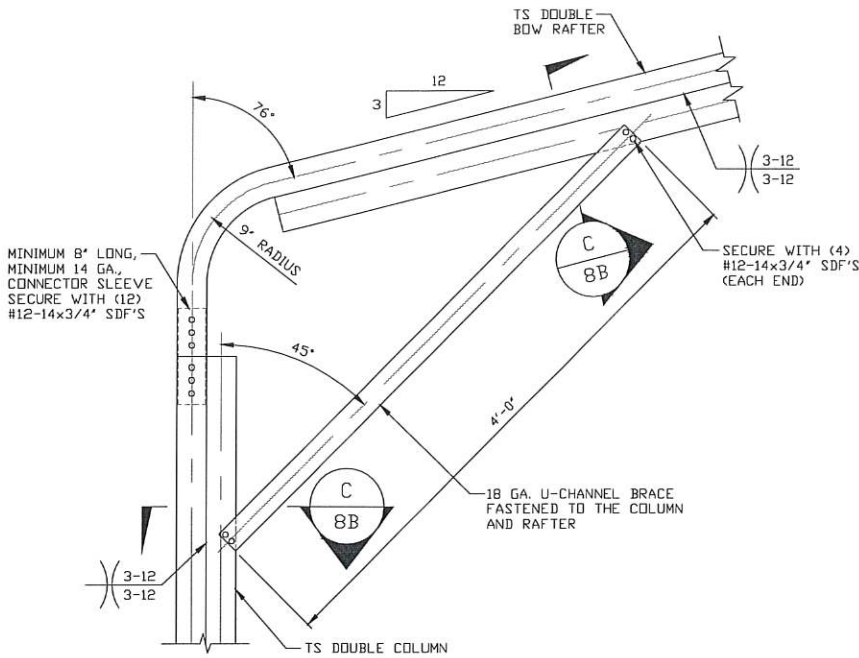
1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 16'-0" SCALE: NTS



B BRACE SECTION SCALE: NTS NOTE: LACED COLUMN NOT SHOWN FOR CLARITY.

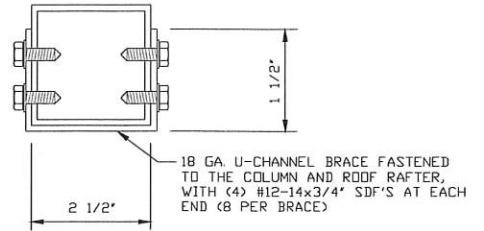
Validity Notice
 Plans Expiration Date:
29 August 2024

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC. | DRAWN BY: JG | 1st CHOICE METAL BUILDINGS AND CARPORTS 2524 SOUTH STREET NACOGDOCHES, TX 75964 30'-0" x 16'-0" ENCLOSED STRUCTURE | | |
| | CHECKED BY: JRP | | | |
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| | CLIENT: 1st CHOICE METAL BUILDINGS | SHT. 8A | DWG. NO: SK-3 | REV: 0 |



1B BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"

SCALE: NTS



C BRACE SECTION

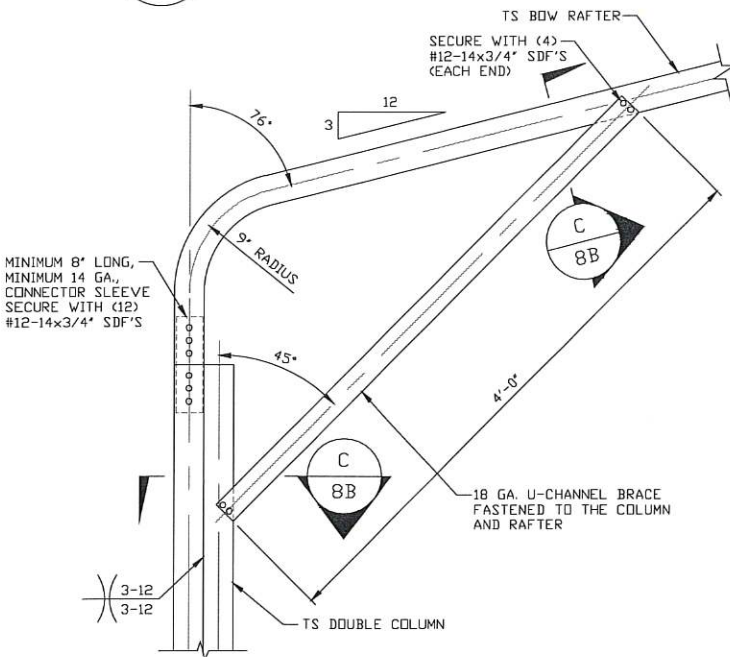
SCALE: NTS

NOTE: DOUBLE BOW RAFTER DOUBLE COLUMN NOT SHOWN FOR CLARITY.

Validity Notice

Plans Expiration Date:

29 August 2024



1C BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"

SCALE: NTS

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 8B

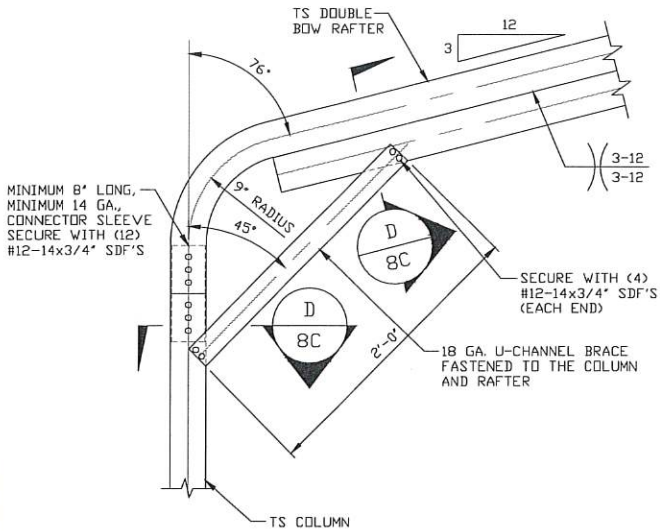
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DWG. NO: SK-3

JOB NO: 23142S

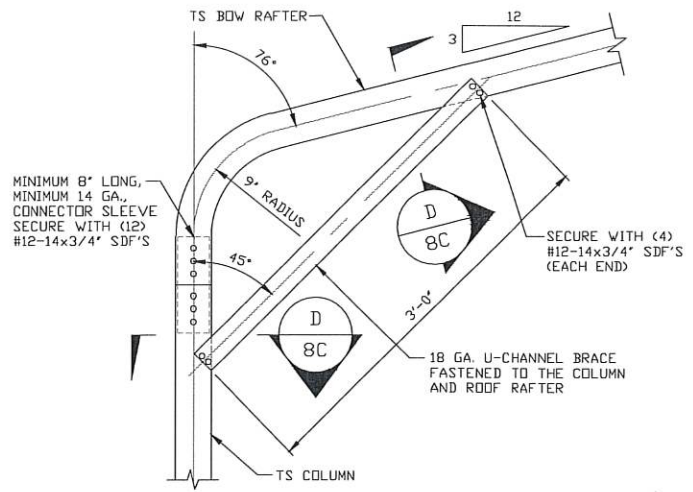
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1D BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 8'-0"$

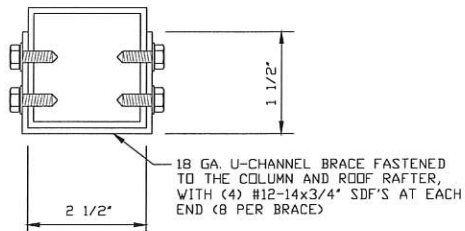
SCALE: NTS



1E BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS $\leq 8'-0"$

SCALE: NTS

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS $\leq 22'-0"$.



D BRACE SECTION

SCALE: NTS

NOTE: DOUBLE BOW RAFTER NOT SHOWN FOR CLARITY.

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 8C

SCALE: NTS

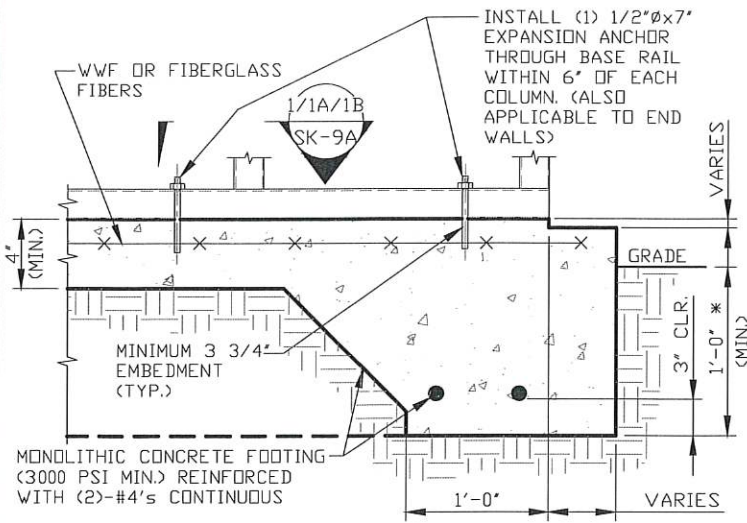
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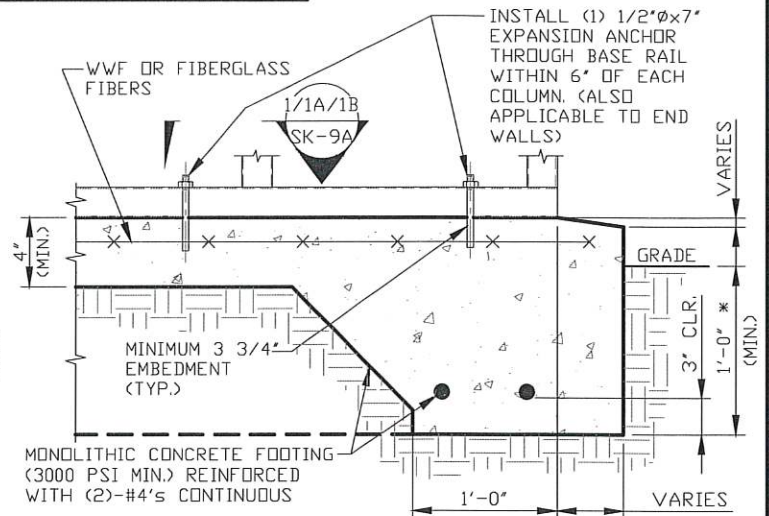
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BASE RAIL ANCHORAGE OPTIONS



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



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

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.

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 9

SCALE: NTS

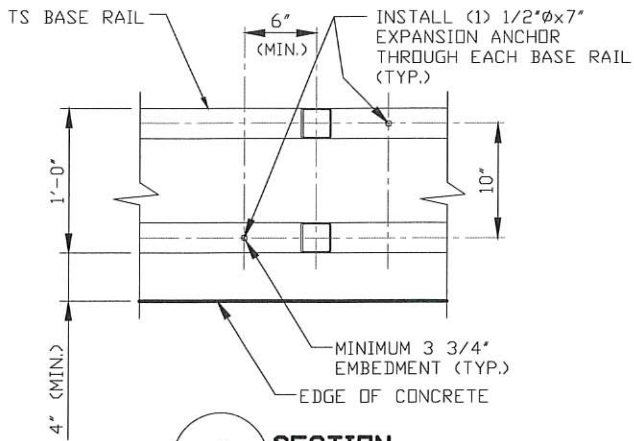
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JOB NO: 23142S

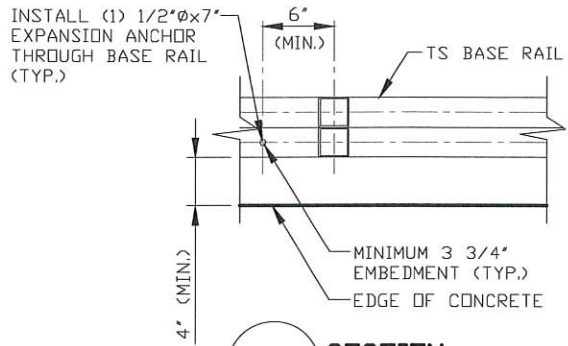
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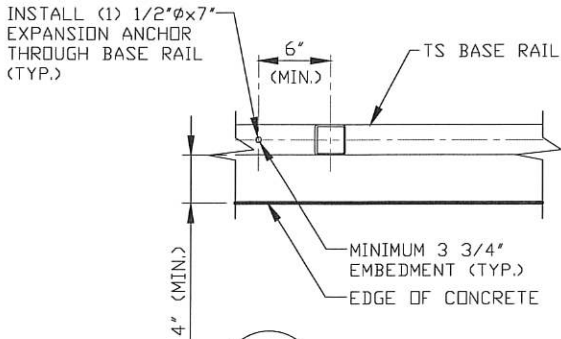
BASE RAIL ANCHORAGE OPTIONS



1 SECTION
SCALE: NTS



1A SECTION
SCALE: NTS



1B SECTION
SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

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**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

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JOB NO: 23142S

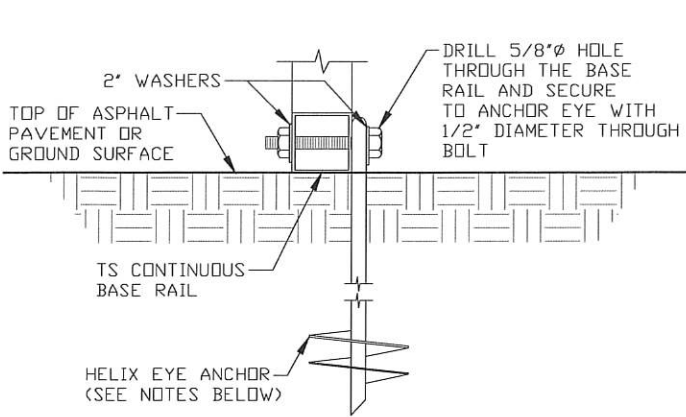
SHT. 9A

DWG. NO: SK-3

REV: 0

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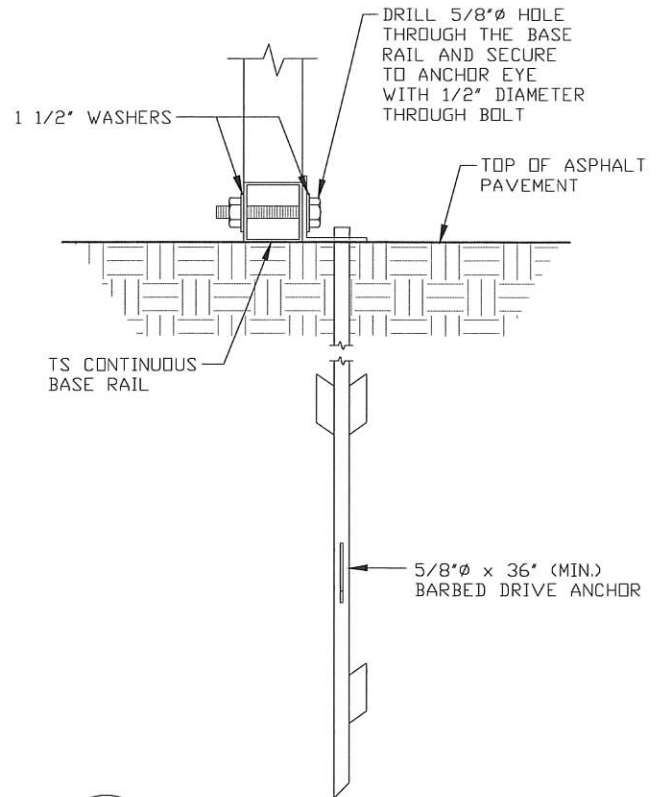
ADDITIONAL BASE RAIL ANCHORAGE OPTION



2B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)
* COORDINATE WITH LOCAL CODES/ORD. REGARDING REQUIRED ANCHOR LENGTH.



2C

BARBED DRIVE ANCHORAGE

SCALE: NTS
* COORDINATE WITH LOCAL CODES/ORD. REGARDING REQUIRED ANCHOR LENGTH.

GENERAL NOTES

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.

Validity Notice

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29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

**1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE**

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

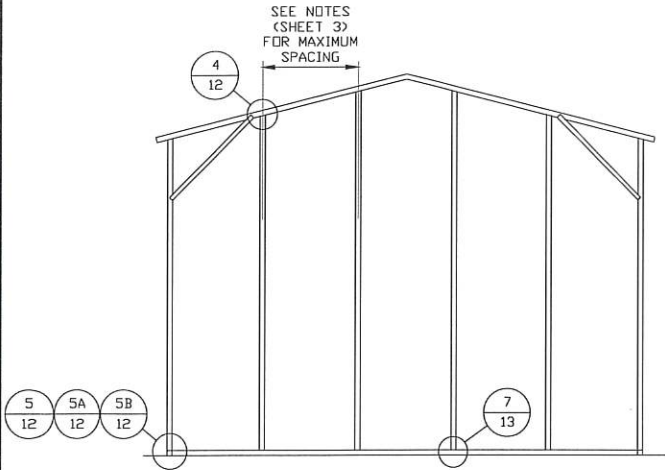
SHT. 9B

DWG. NO: SK-3

REV: 0

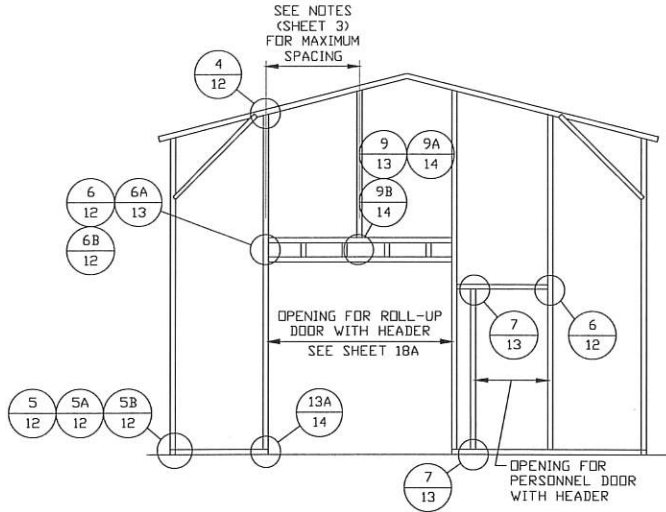
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



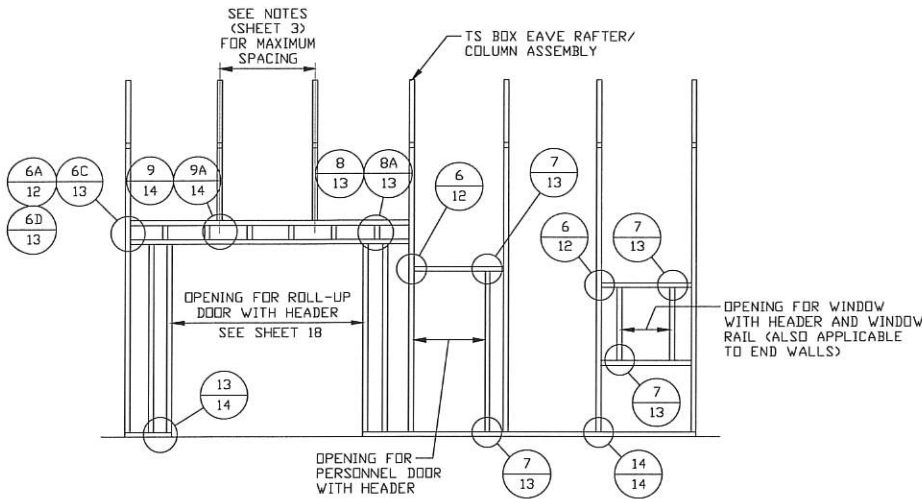
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

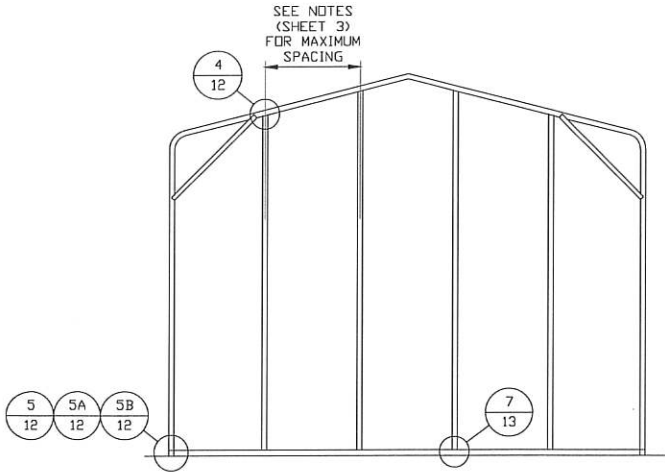
SHT. 10

DWG. NO: SK-3

REV: 0

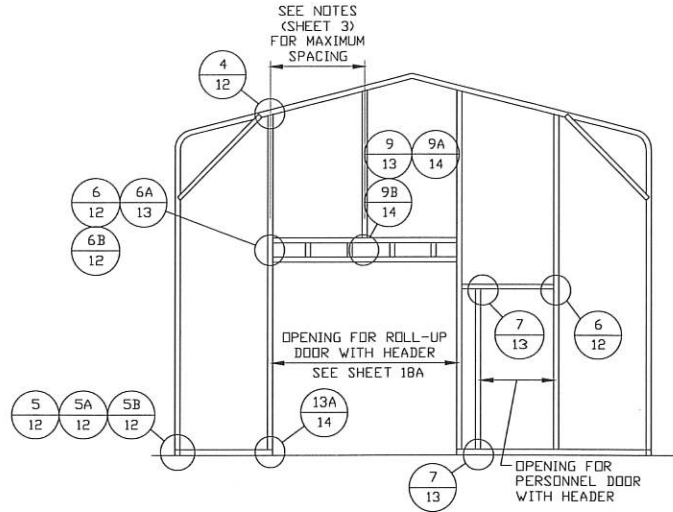
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



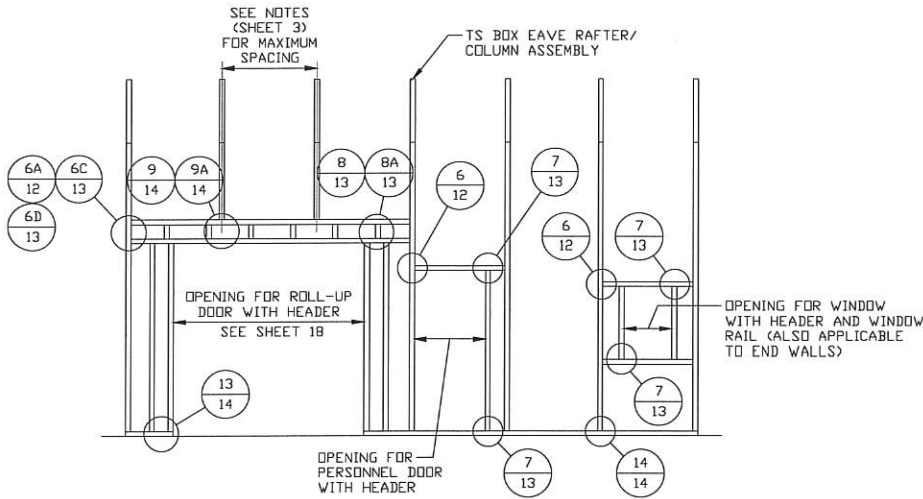
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



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

SCALE: NTS



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

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

**MOORE AND ASSOCIATES
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DRAWN BY: JG

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METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

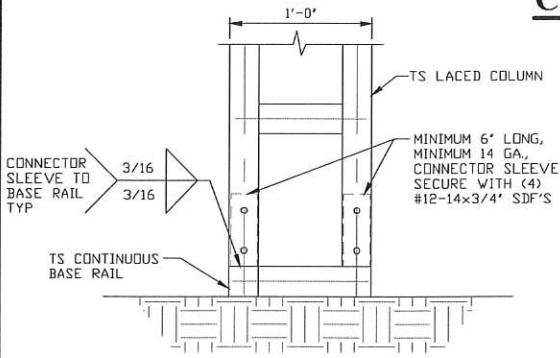
SHT. 11

DWG. NO: SK-3

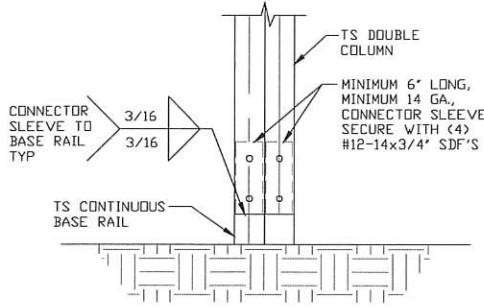
REV: 0

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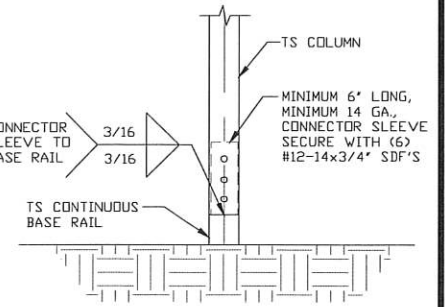
CONNECTION DETAILS



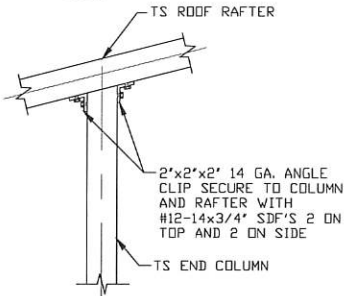
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



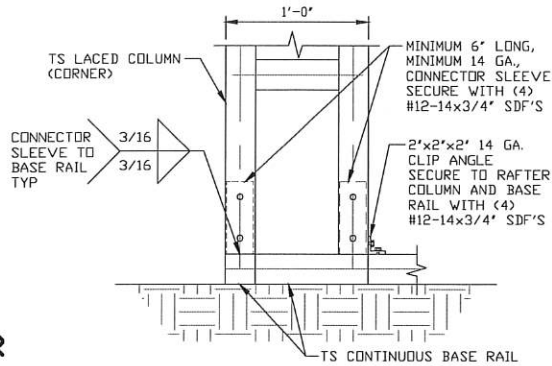
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



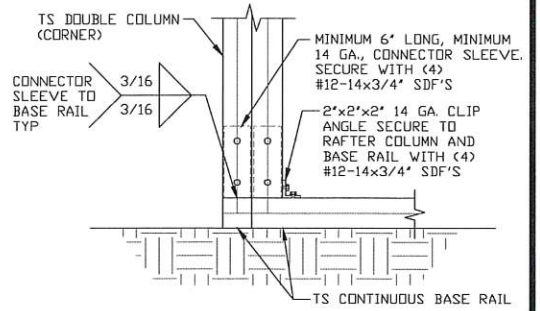
3B POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



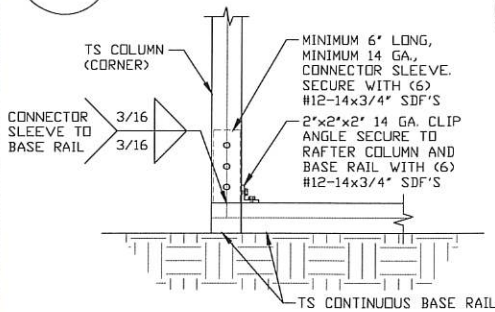
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



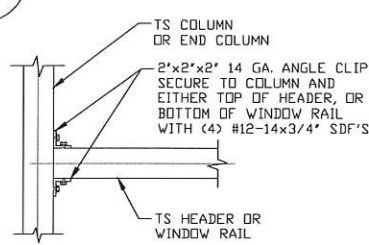
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



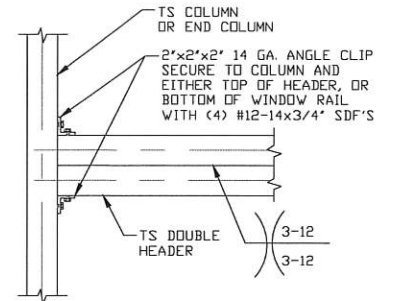
5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



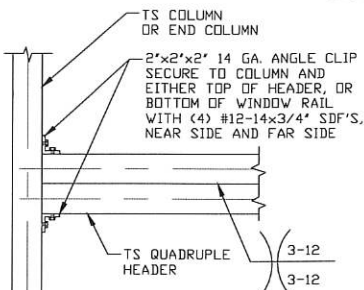
5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



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



6A DOUBLE HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



6B QUADRUPLE HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS

Validity Notice
Plans Expiration Date:
29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 12

SCALE: NTS

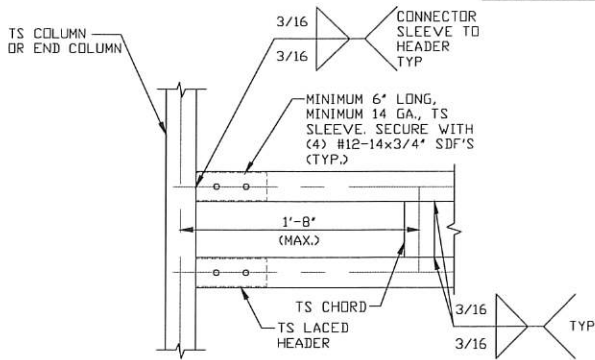
DWG. NO: SK-3

JOB NO: 23142S

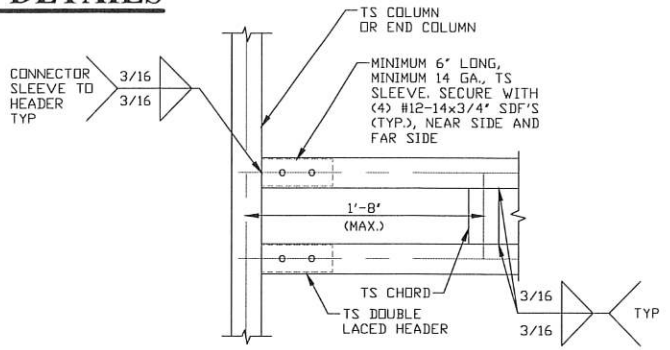
REV: 0

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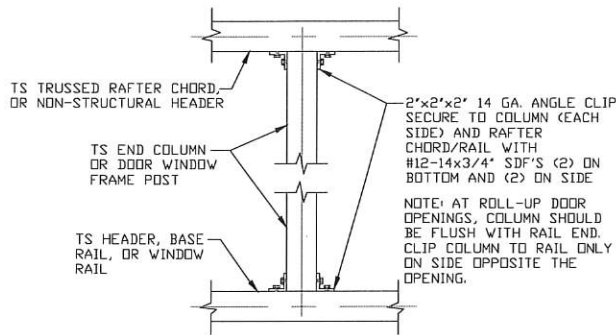
CONNECTION DETAILS



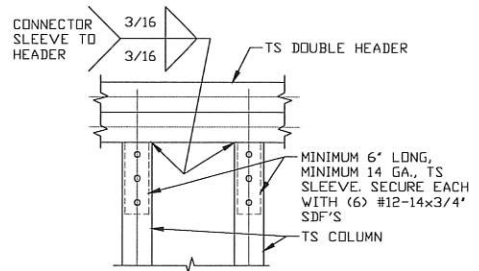
6C
LACED HEADER TO COLUMN CONNECTION DETAIL
 SCALE: NTS



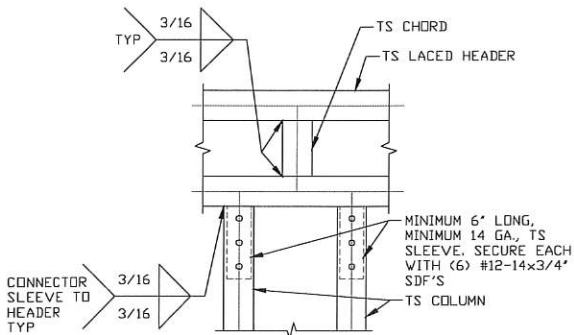
6D
DOUBLE LACED HEADER TO COLUMN CONNECTION DETAIL
 SCALE: NTS



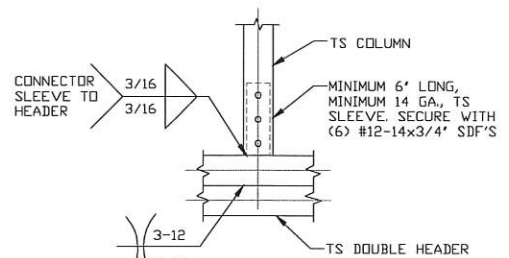
7
COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL
 SCALE: NTS



8
DOUBLE HEADER/COLUMN CONNECTION DETAIL
 SCALE: NTS



8A
LACED HEADER/COLUMN CONNECTION DETAIL
 SCALE: NTS



9
COLUMN/DOUBLE HEADER CONNECTION DETAIL
 SCALE: NTS

Validity Notice
Plans Expiration Date:
29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

CLIENT: 1st CHOICE METAL BUILDINGS

1st CHOICE METAL BUILDINGS AND CARPORTS
 2524 SOUTH STREET
 NACOGDOCHES, TX 75964
 30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

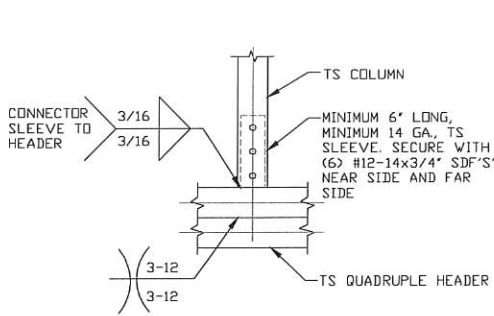
SHT. 13

DWG. NO: SK-3

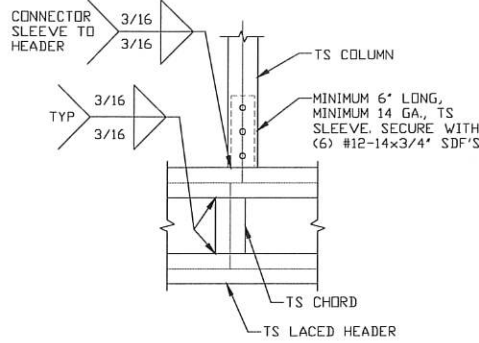
REV: 0

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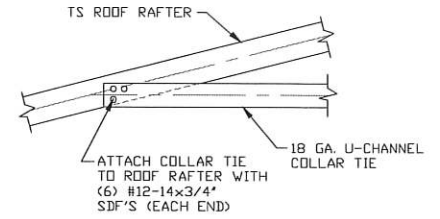
CONNECTION DETAILS



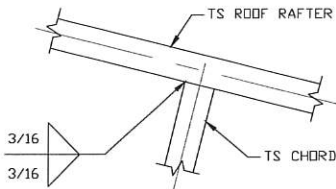
9A
**COLUMN/QUADRUPLE
 HEADER
 CONNECTION DETAIL**
 SCALE: NTS



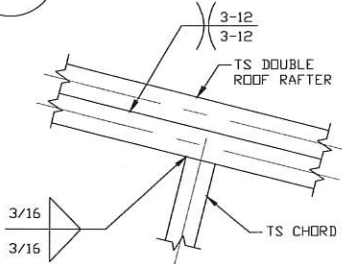
9B
**COLUMN/LACED HEADER
 CONNECTION DETAIL**
 SCALE: NTS



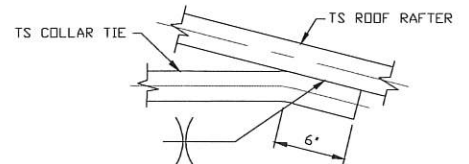
10
**COLLAR TIE
 CONNECTION DETAIL**
 SCALE: NTS



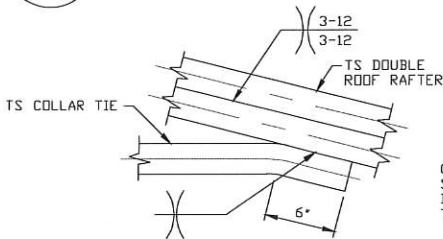
11
**RAFTER TO CHORD
 CONNECTION DETAIL**
 SCALE: NTS



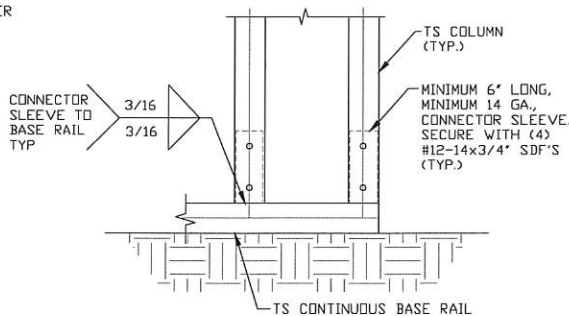
11A
**RAFTER TO CHORD
 CONNECTION DETAIL**
 SCALE: NTS



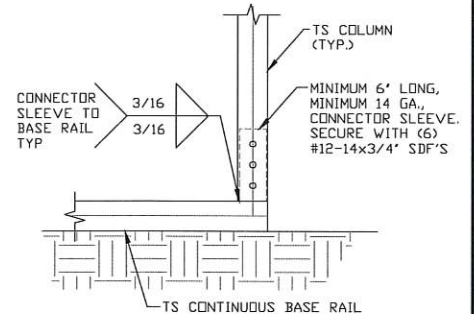
12
**COLLAR TIE
 CONNECTION DETAIL**
 SCALE: NTS



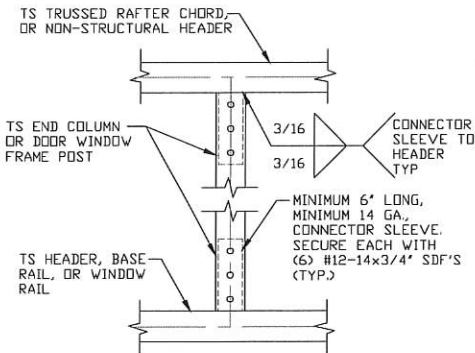
12A
**COLLAR TIE
 CONNECTION DETAIL**
 SCALE: NTS



13
**COLUMN/BASE RAIL
 CONNECTION DETAIL**
 SCALE: NTS



13A
**COLUMN/BASE RAIL
 CONNECTION DETAIL**
 SCALE: NTS



14
**COLUMN TO HEADER
 OR BASE RAIL
 CONNECTION DETAIL**
 SCALE: NTS

Validity Notice
Plans Expiration Date:
29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
 METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
 2524 SOUTH STREET
 NACOGDOCHES, TX 75964
 30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 14

SCALE: NTS

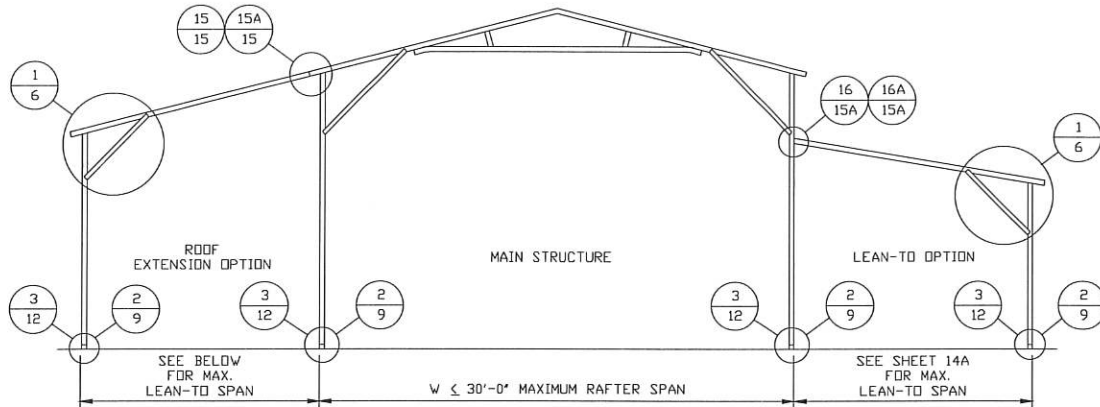
DWG. NO: SK-3

JOB NO: 23142S

REV: 0

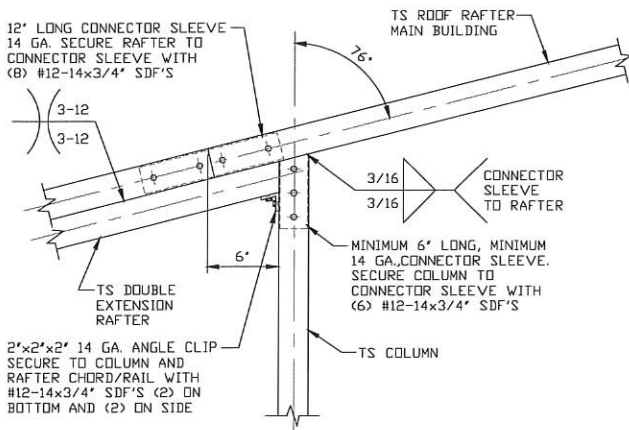
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

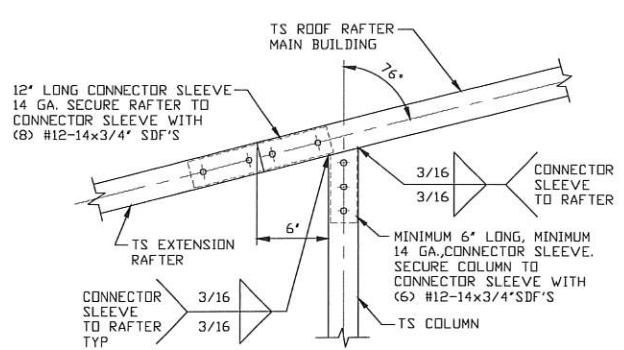
SCALE: NTS
 MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 10'-0".
 MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 12'-0".
 MAXIMUM LACED COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 14'-0" < TO ≤ 16'-0".
 MAXIMUM DOUBLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0" < TO ≤ 14'-0".
 MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS ≤ 8'-0".
 FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 10'-0" < TO ≤ 12'-0"

15

SCALE: NTS



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 10'-0"

15A

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SHT. 15

SCALE: NTS

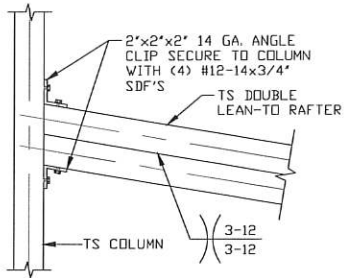
DWG. NO: SK-3

JOB NO: 23142S

REV: 0

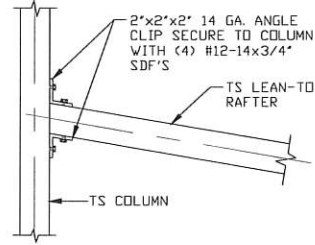
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BOX EAVE RAFTER LEAN-TO OPTIONS



**LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS
10'-0" < TO ≤ 12'-0"**
SCALE: NTS

16



**LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS ≤ 10'-0"**
SCALE: NTS

16A

Validity Notice

Plans Expiration Date:

29 August 2024

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PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

**1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE**

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

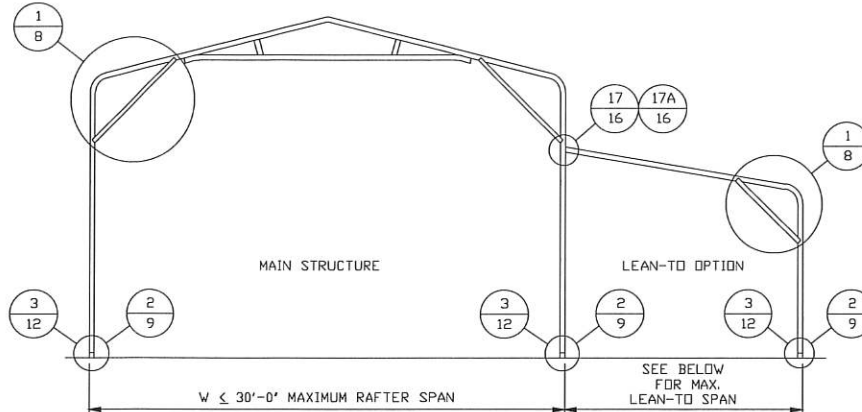
SHT. 15A

DWG. NO: SK-3

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 TS ROOF EXTENSION LEAN-TO IS 10'-0".

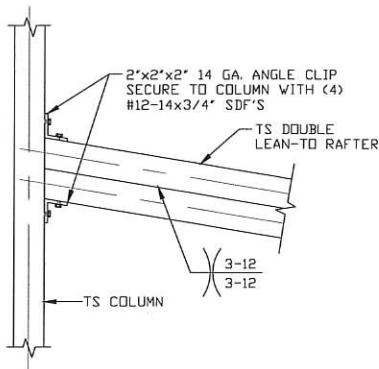
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 12'-0".

MAXIMUM LACED COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 14'-0" < TO <= 16'-0".

MAXIMUM DOUBLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0" < TO <= 14'-0".

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS <= 8'-0".

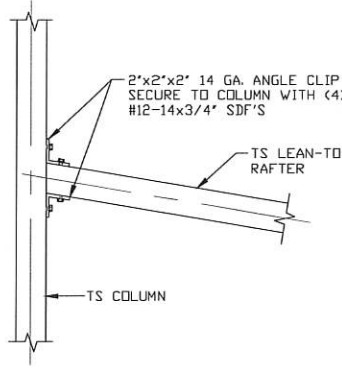
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 10'-0" < TO <= 12'-0"

17

SCALE: NTS



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS <= 10'-0"

17A

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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

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CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

**1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE**

DATE: 8-29-23

SHT. 16

SCALE: NTS

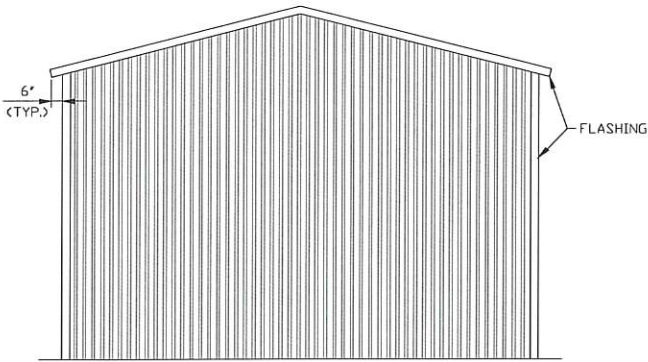
DWG. NO: SK-3

JOB NO: 23142S

REV: 0

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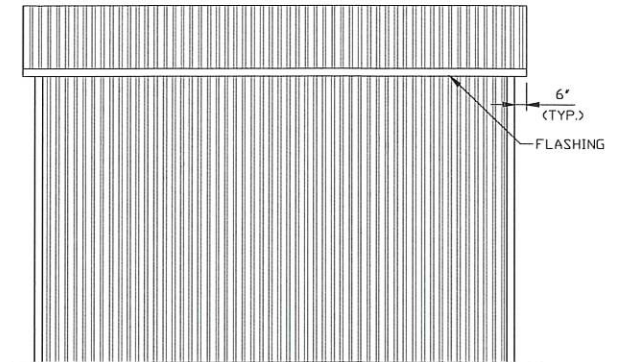
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS

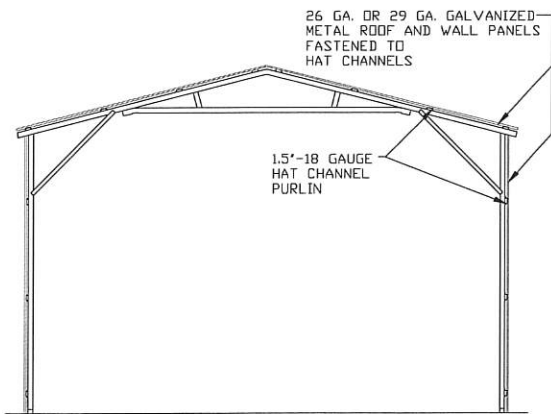
NOTE: HORIZONTAL WALL PANELING CAN BE USED AS AN ALTERNATIVE.



**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

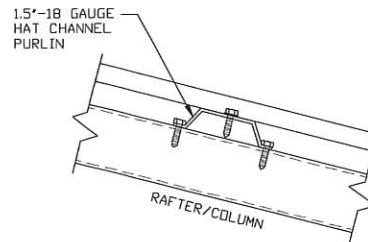
SCALE: NTS

NOTE: HORIZONTAL WALL PANELING CAN BE USED AS AN ALTERNATIVE.



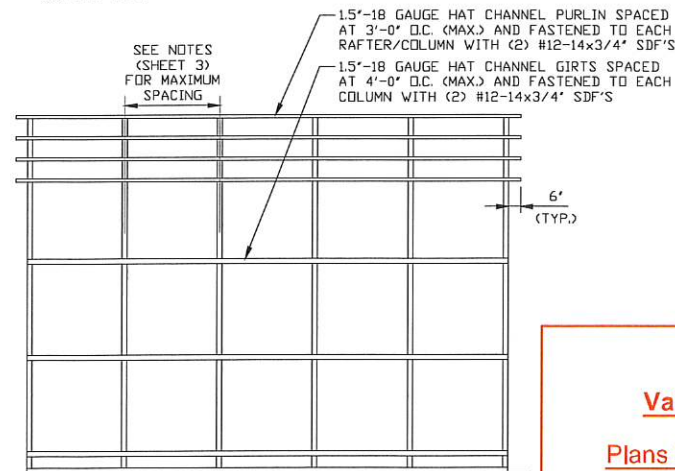
**TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



**TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION**

SCALE: NTS

Validity Notice

Plans Expiration Date:

29 August 2024

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ENGINEERING AND CONSULTING, INC.**

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PROJECT MGR: JRP

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1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

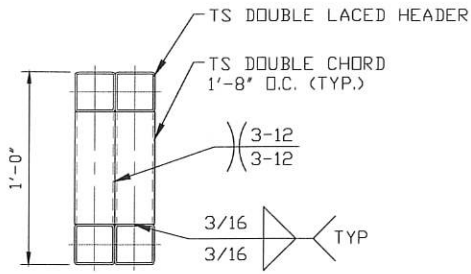
SHT. 17

DWG. NO: SK-3

REV: 0

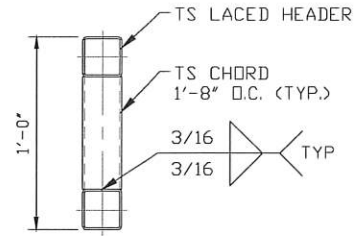
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SIDE WALL HEADER OPTIONS



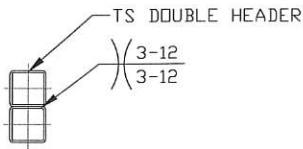
DOUBLE LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH < 16'-0" WIDE

SCALE: NTS
NOTE: HEADER MUST BE CONNECTED WITH CONNECTOR SLEEVES PER DETAIL 6E.



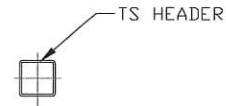
LACED HEADER DETAIL FOR DOOR OPENINGS 8'-0" < LENGTH < 12'-0" WIDE

SCALE: NTS
NOTE: HEADER MUST BE CONNECTED WITH CONNECTOR SLEEVES PER DETAIL 6B.



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 5'-0" < LENGTH < 8'-0" WIDE

SCALE: NTS
NOTE: HEADER CAN BE CONNECTED WITH ANGLE CLIPS PER DETAIL 6A.



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 5'-0" WIDE

SCALE: NTS
NOTE: HEADER CAN BE CONNECTED WITH ANGLE CLIPS PER DETAIL 6.

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

CHECKED BY: JRP

PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

**1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE**

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

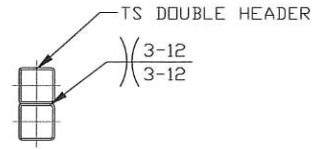
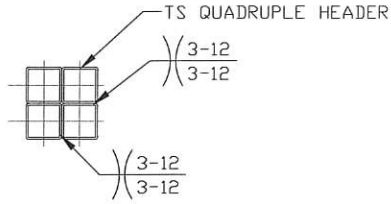
SHT. 18

DWG. NO: SK-3

REV: 0

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END WALL HEADER OPTIONS



LACED HEADER DETAIL FOR DOOR OPENINGS 15'-0" < LENGTH < 16'-0" WIDE

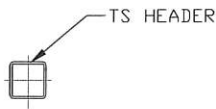
SCALE: NTS

NOTE: HEADER CAN BE CONNECTED WITH ANGLE CLIPS PER DETAIL 6B.

DOUBLE HEADER DETAIL FOR DOOR OPENINGS 8'-0" < LENGTH < 15'-0" WIDE

SCALE: NTS

NOTE: HEADER CAN BE CONNECTED WITH ANGLE CLIPS PER DETAIL 6A.



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 8'-0" WIDE

SCALE: NTS

NOTE: HEADER CAN BE CONNECTED WITH ANGLE CLIPS PER DETAIL 6.

Validity Notice

Plans Expiration Date:

29 August 2024

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

DRAWN BY: JG

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PROJECT MGR: JRP

**CLIENT: 1st CHOICE
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS
2524 SOUTH STREET
NACOGDOCHES, TX 75964
30'-0" x 16'-0" ENCLOSED STRUCTURE

DATE: 8-29-23

SCALE: NTS

JOB NO: 23142S

SHT. 18A

DWG. NO: SK-3

REV: 0

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