



## **STRUCTURAL DESIGN ENCLOSED BUILDING**

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

Prepared for:

1<sup>st</sup> 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 2024**  
Plans are valid for one year from issuance date



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**29 August 2024**

<b>MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.</b>	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  $\leq 20$  PSF.
4. 3-SECOND GUST ULTIMATE WIND SPEED ( $V_{ULT}$ ) =  $\leq 140$  MPH (NOMINAL WIND SPEED =  $\leq 109$  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.

### Validity Notice

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**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**

**JOB NO: 23142S**

**SHT. 3**

**DWG. NO: SK-3**

**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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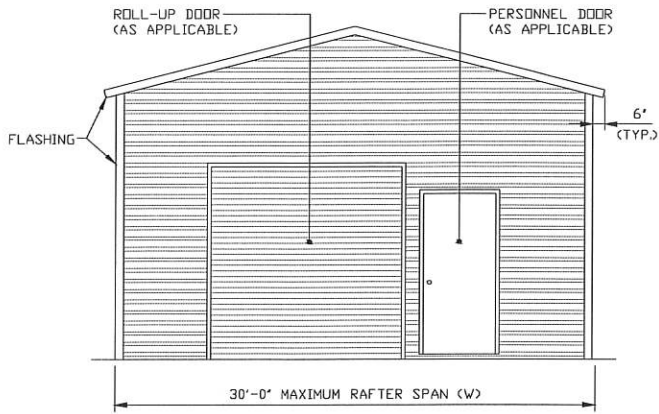
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**DWG. NO: SK-3**

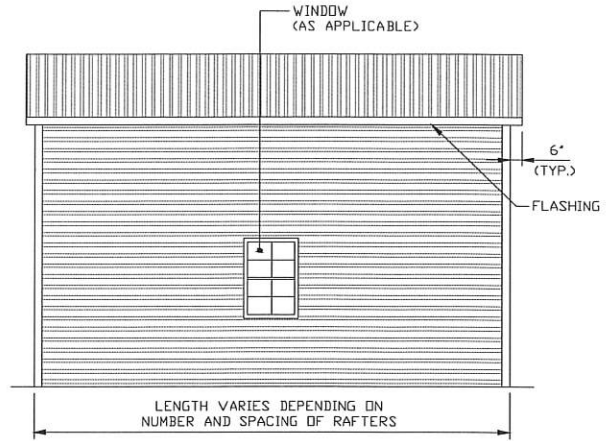
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# BOX EAVE FRAME RAFTER STRUCTURE



**TYPICAL END ELEVATION**  
SCALE: NTS



**TYPICAL SIDE ELEVATION**  
SCALE: NTS

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**SHT. 4**

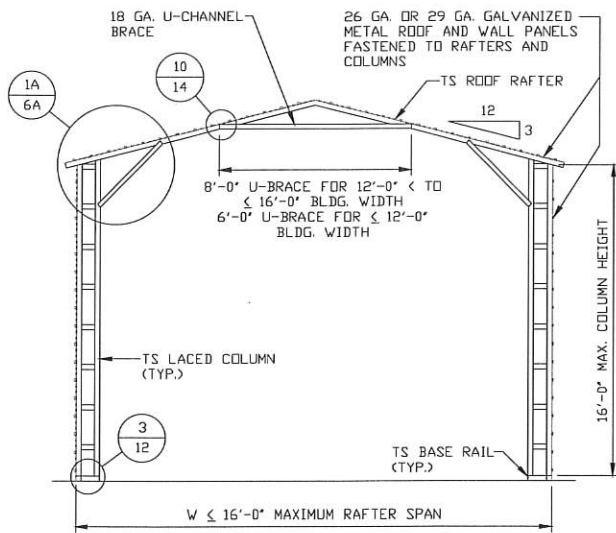
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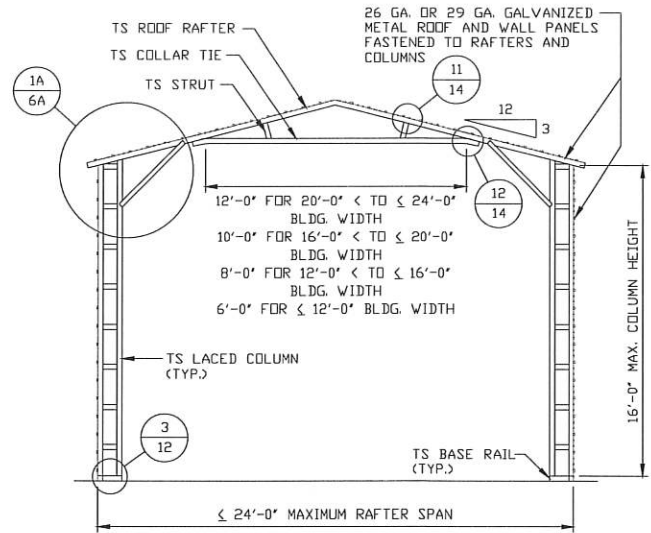
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**REV: 0**

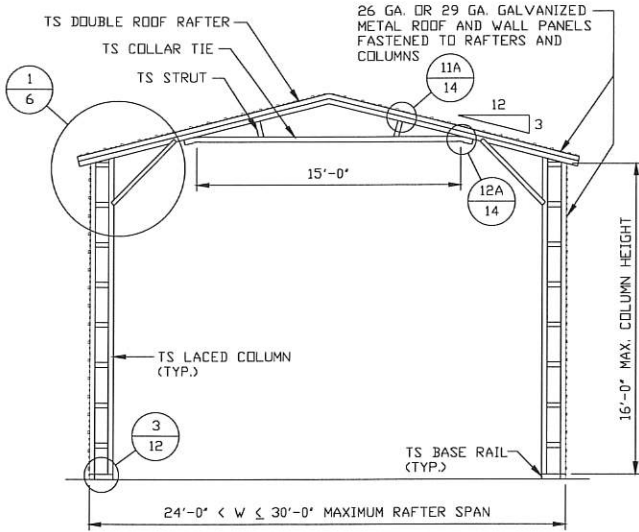
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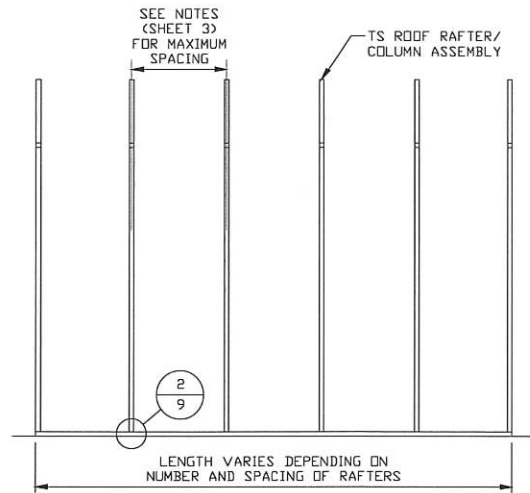
**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**  
SCALE: NTS



**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

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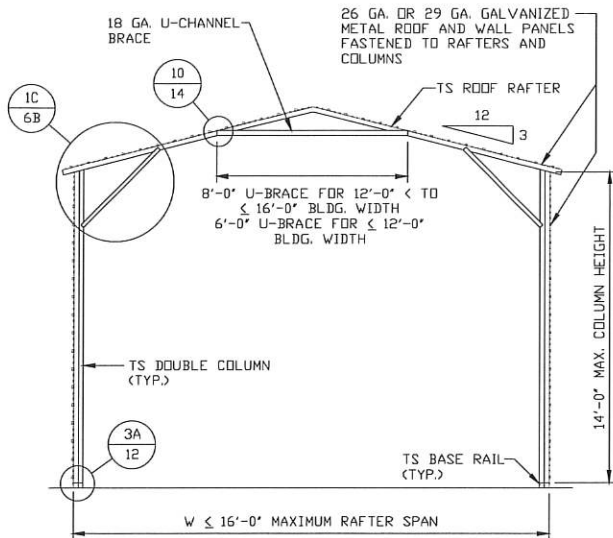
**JOB NO: 23142S**

**SHT. 5**

**DWG. NO: SK-3**

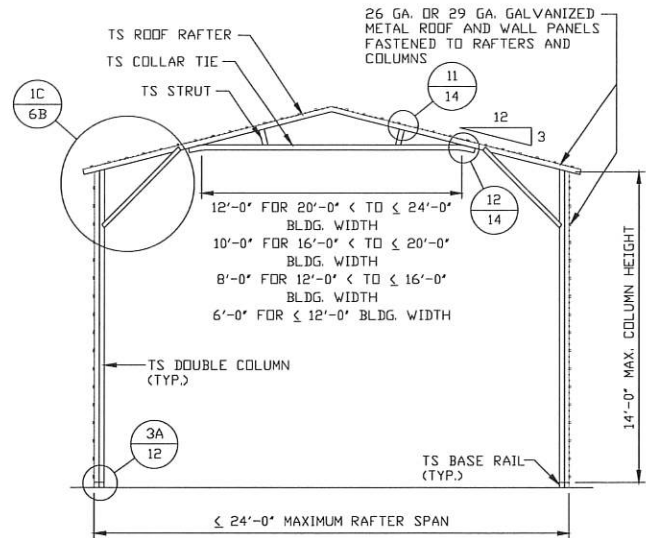
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

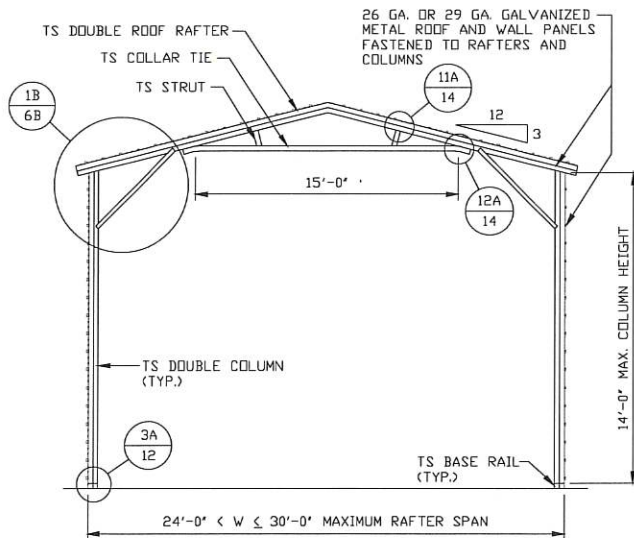
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

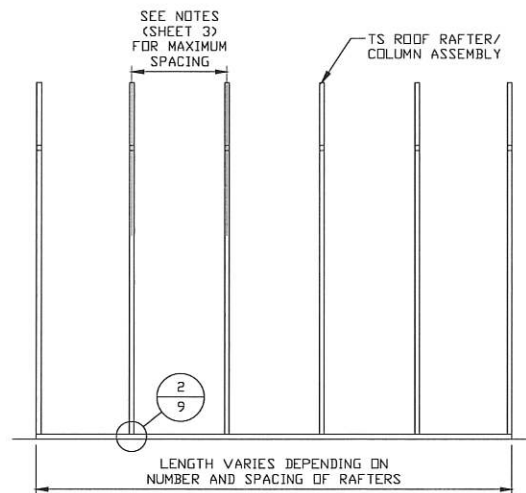
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**

SCALE: NTS

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**PROJECT MGR: JRP**

**CLIENT: 1st CHOICE  
METAL BUILDINGS**

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**SHT. 5A**

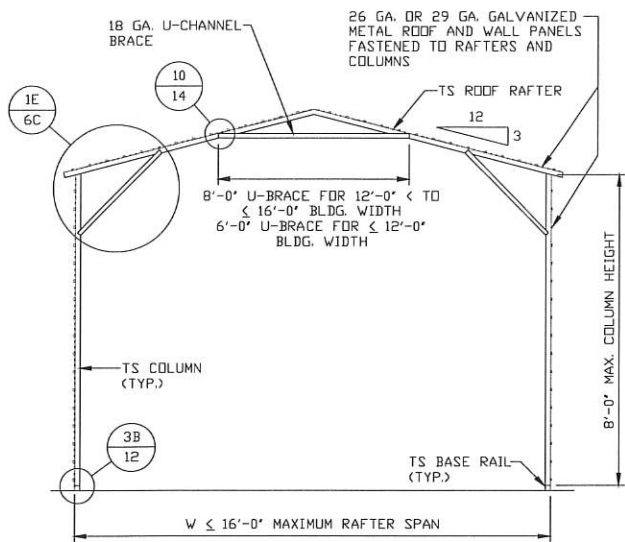
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**DWG. NO: SK-3**

**JOB NO: 231425**

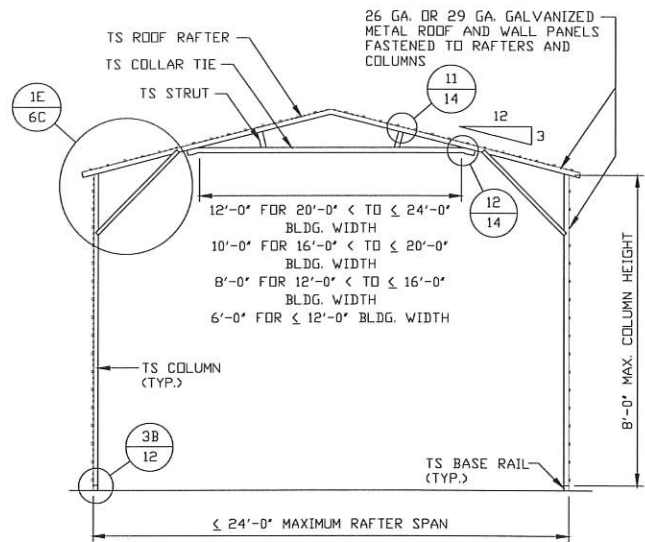
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

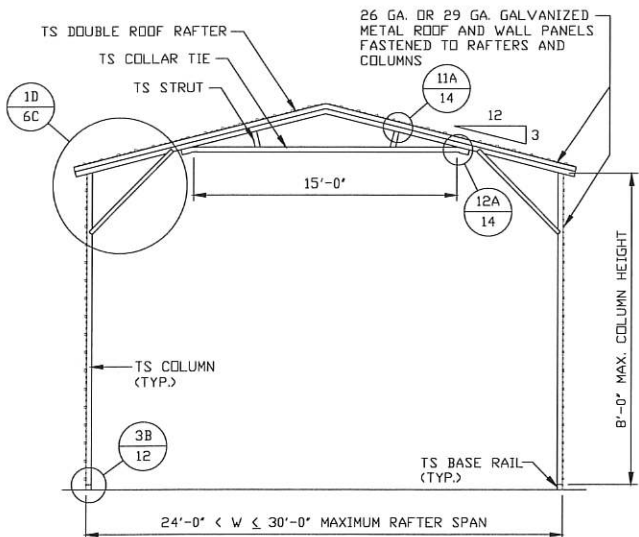
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**TYPICAL INTERIOR RAFTER/  
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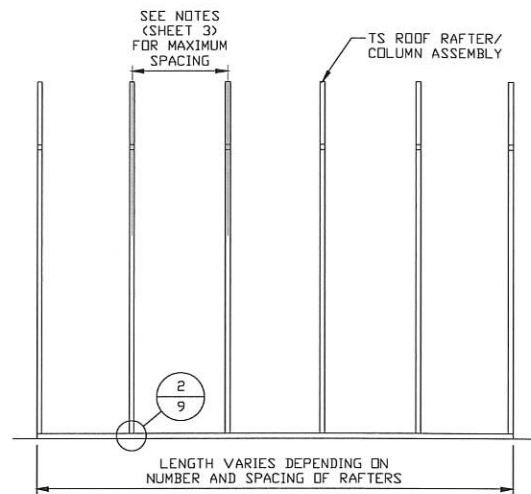
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**TYPICAL INTERIOR RAFTER/  
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SCALE: NTS



**TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION**

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**SHT. 5B**

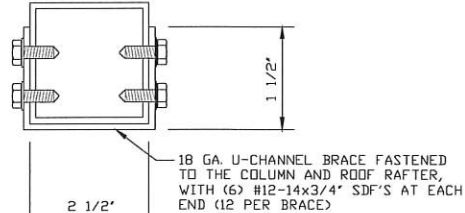
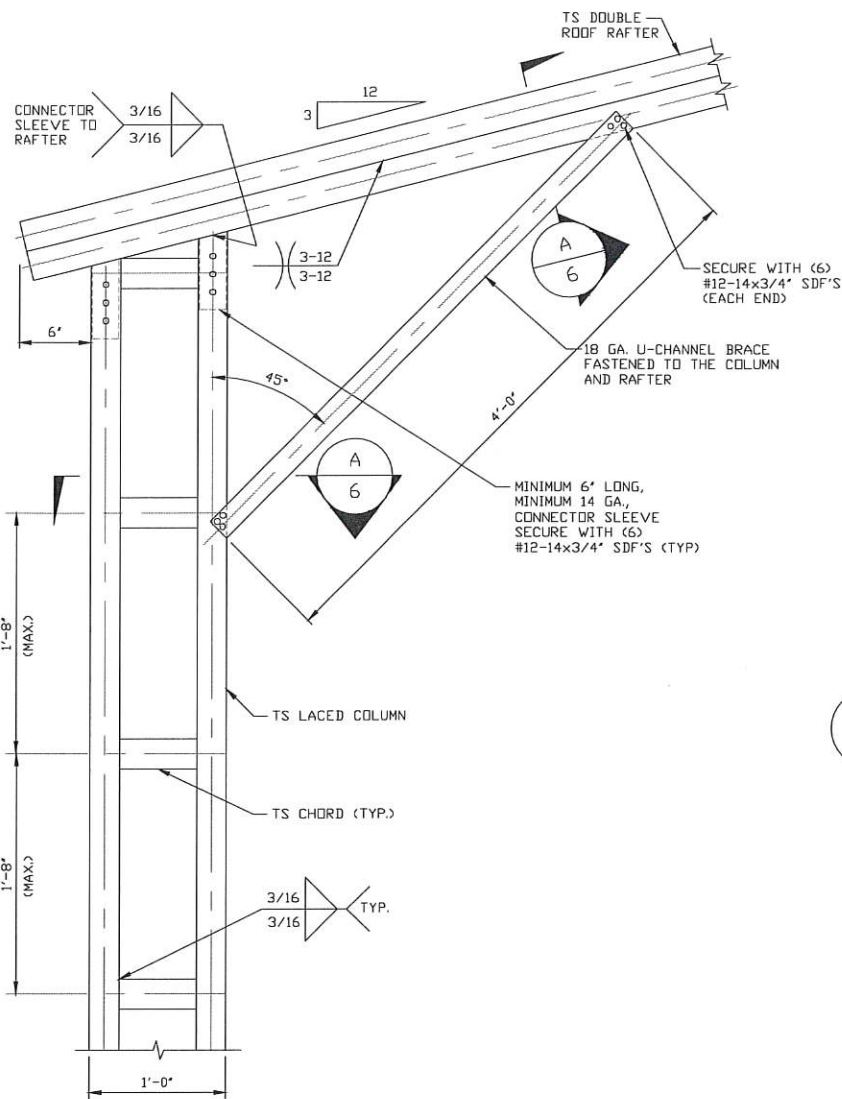
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**DWG. NO: SK-3**

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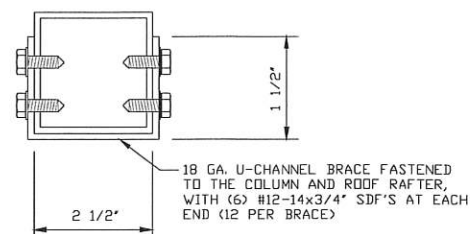
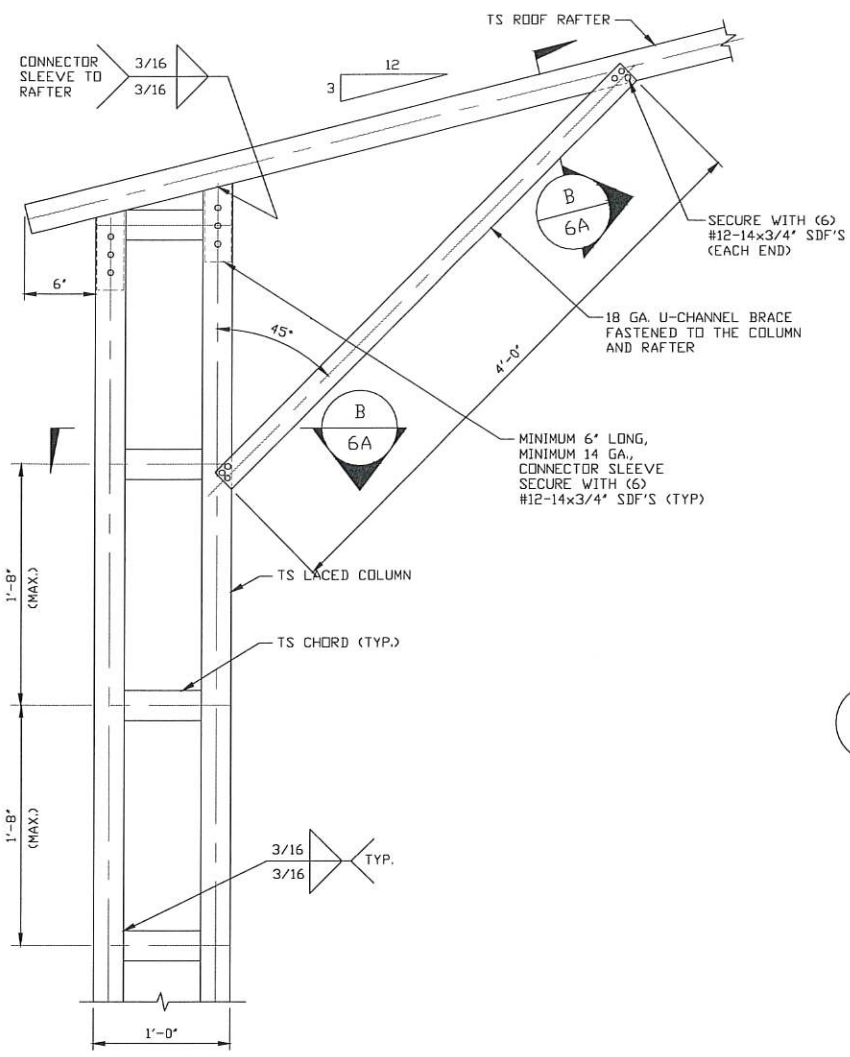
**A BRACE SECTION**  
 SCALE: NTS  
 NOTE: DOUBLE ROOF RAFTER AND LACED COLUMN NOT SHOWN FOR CLARITY.

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

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<b>MOORE AND ASSOCIATES          ENGINEERING AND CONSULTING, INC.</b>	<b>DRAWN BY: JG</b>	1st CHOICE METAL BUILDINGS AND CARPORTS 2524 SOUTH STREET NACOGDOCHES, TX 75964 30'-0" x 16'-0" ENCLOSED STRUCTURE		
	<b>CHECKED BY: JRP</b>			
<b>PROJECT MGR: JRP</b>	<b>DATE: 8-29-23</b>	<b>SCALE: NTS</b>	<b>JOB NO: 23142S</b>	
<b>CLIENT: 1st CHOICE METAL BUILDINGS</b>	<b>SHT. 6</b>	<b>DWG. NO: SK-3</b>	<b>REV: 0</b>	

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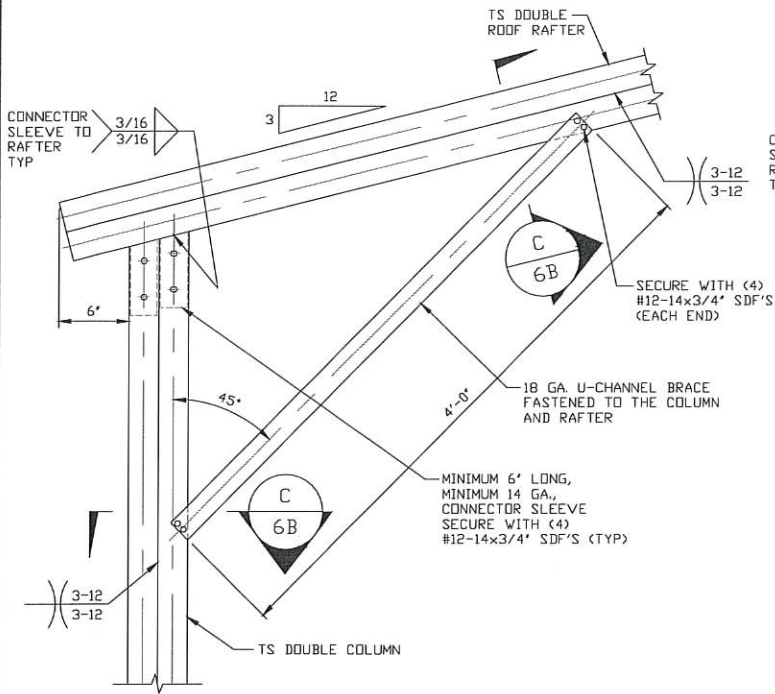
**B** **BRACE SECTION**  
 SCALE: NTS  
 NOTE: LACED COLUMN NOT SHOWN FOR CLARITY.

**1A** **BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL**  
**FOR HEIGHTS 14'-0" < TO ≤ 16'-0"**  
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<b>PROJECT MGR: JRP</b>	<b>DATE: 8-29-23</b>	<b>SCALE: NTS</b>	<b>JOB NO: 23142S</b>	
<b>CLIENT: 1st CHOICE METAL BUILDINGS</b>	<b>SHT. 6A</b>	<b>DWG. NO: SK-3</b>	<b>REV: 0</b>	

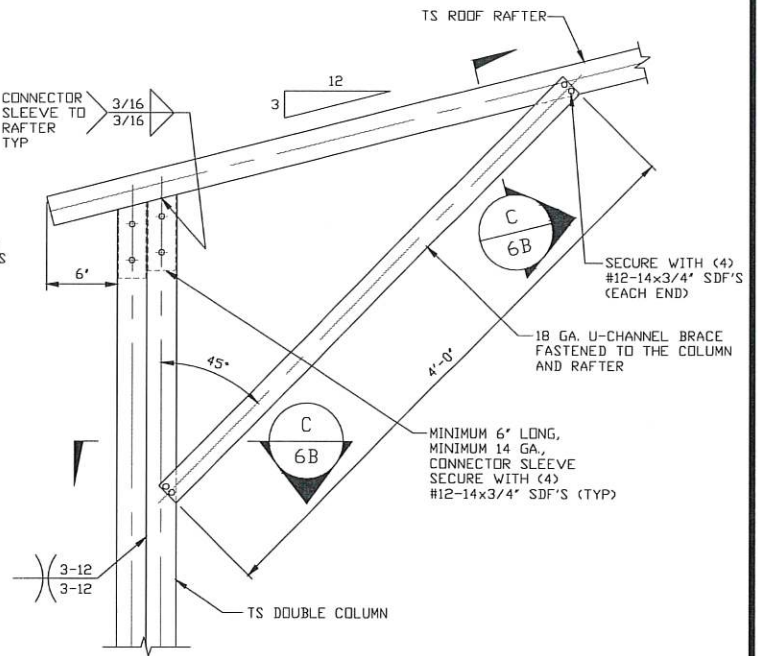
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**BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"**

1B

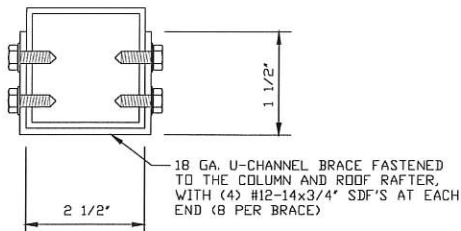
SCALE: NTS



**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**

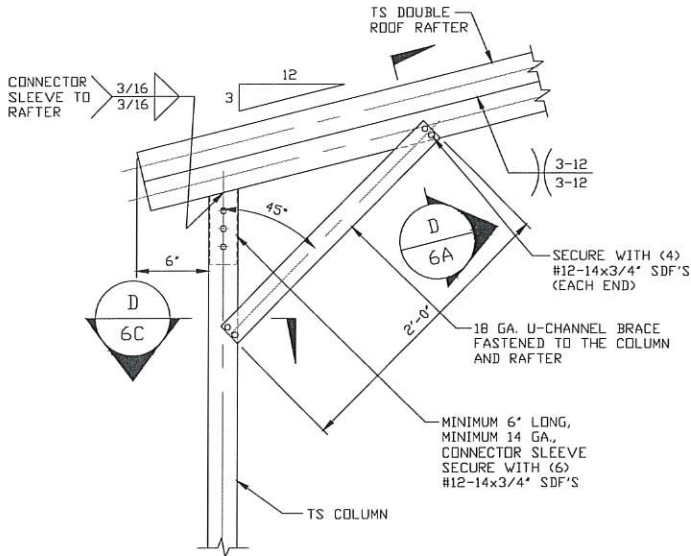
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**SHT. 6B**

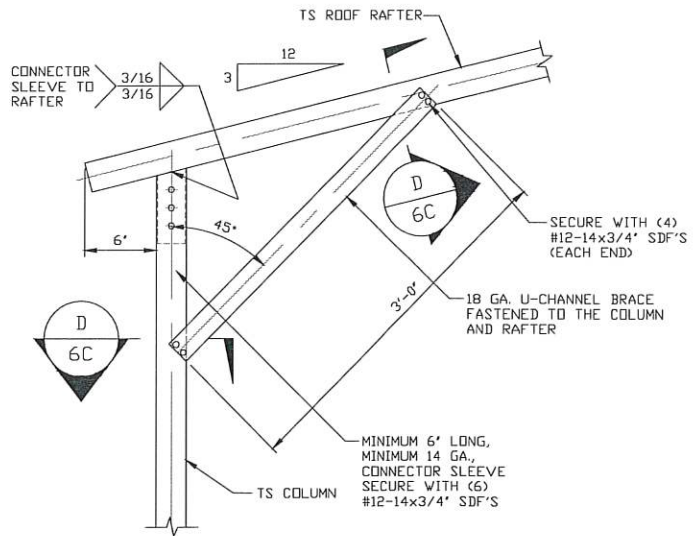
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**REV: 0**

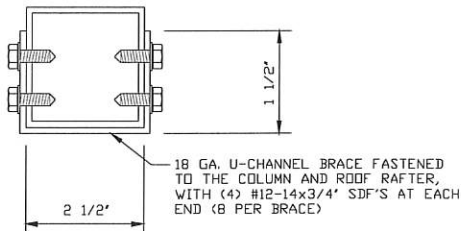
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**1D** BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS  $\leq 8'-0"$   
SCALE: NTS



**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**

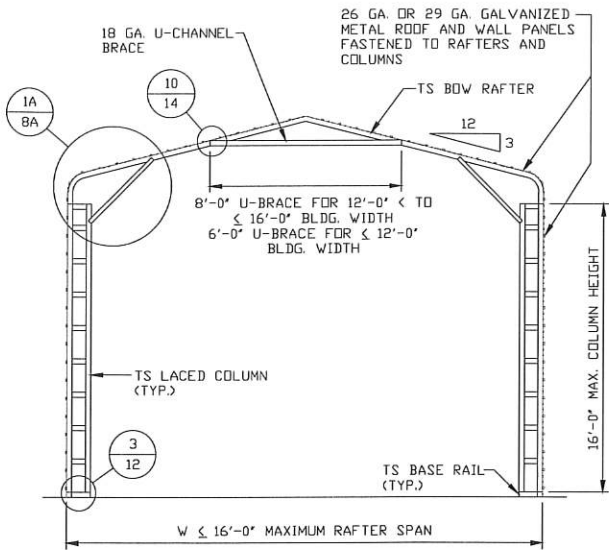
**JOB NO: 23142S**

**SHT. 6C**

**DWG. NO: SK-3**

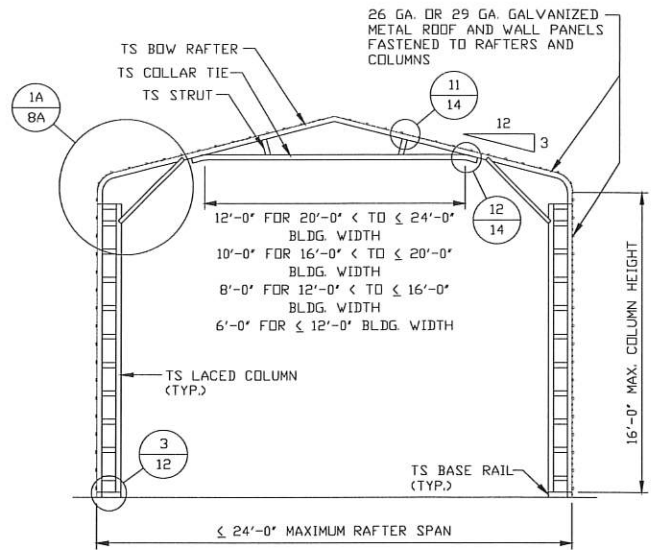
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

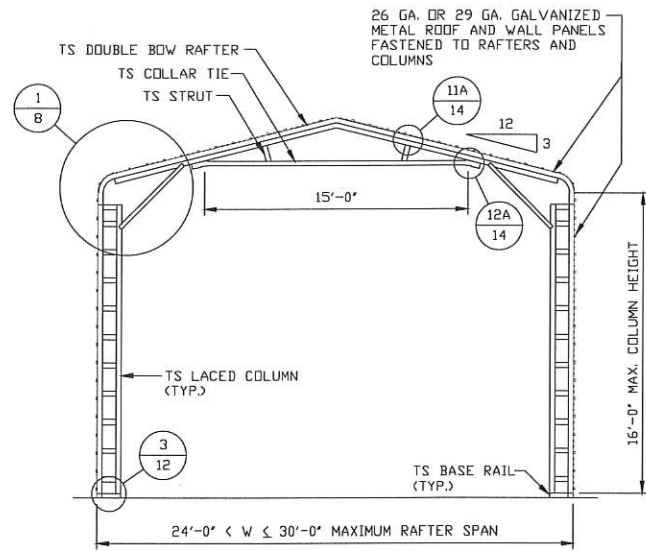
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

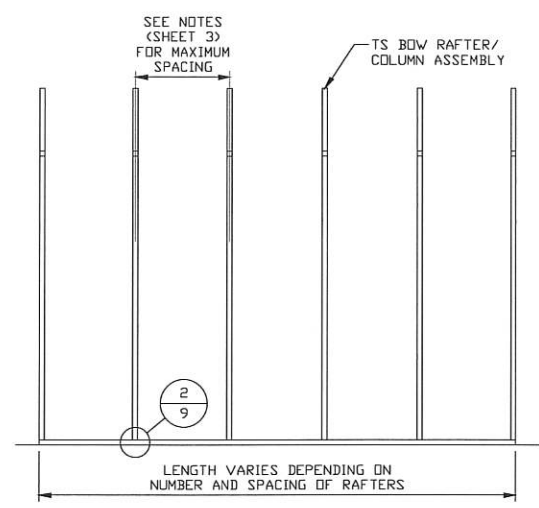
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**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"x16'-0" ENCLOSED STRUCTURE

**DATE: 8-29-23**

**SHT. 7**

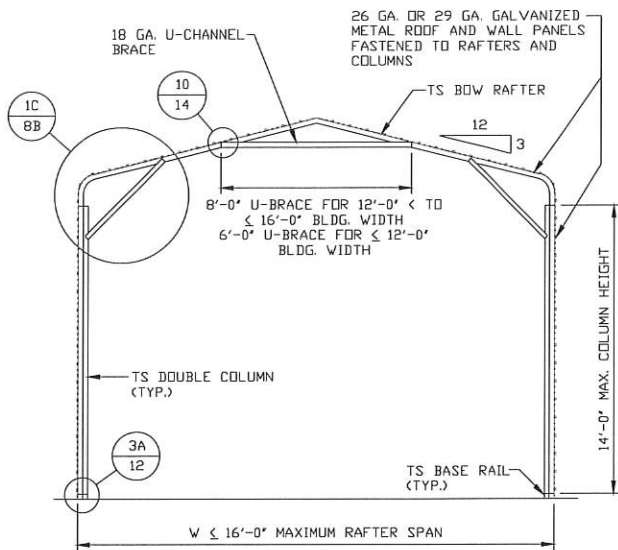
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**JOB NO: 23142S**

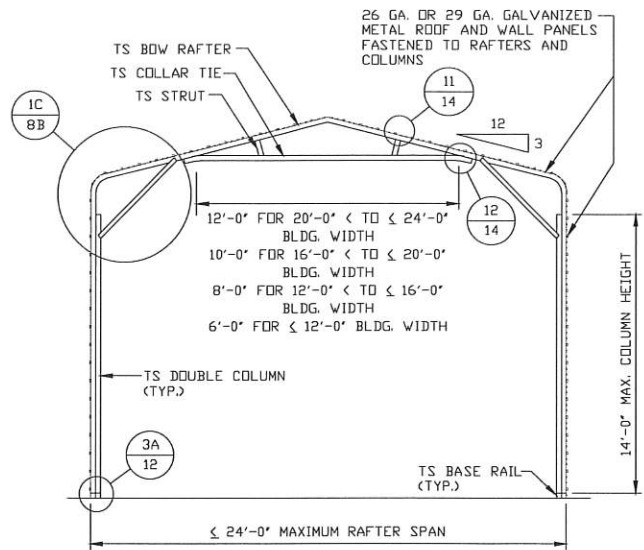
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

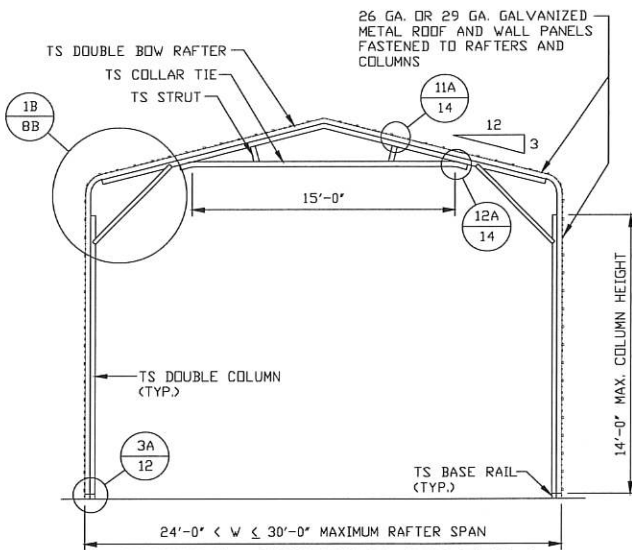
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

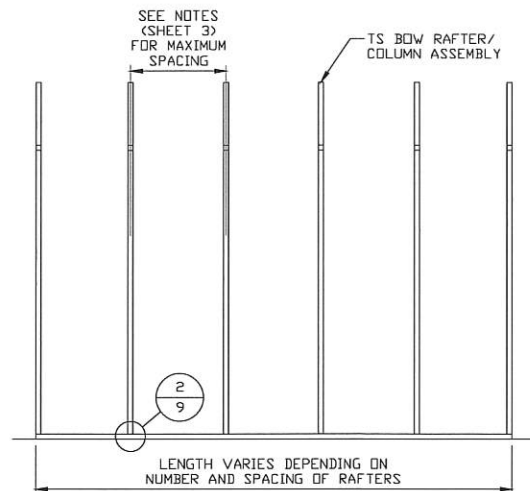
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NOTE: STRUTS NOT REQUIRED FOR BUILDING WIDTHS < 20'-0"



**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"x16'-0" ENCLOSED STRUCTURE

**DATE: 8-29-23**

**SHT. 7A**

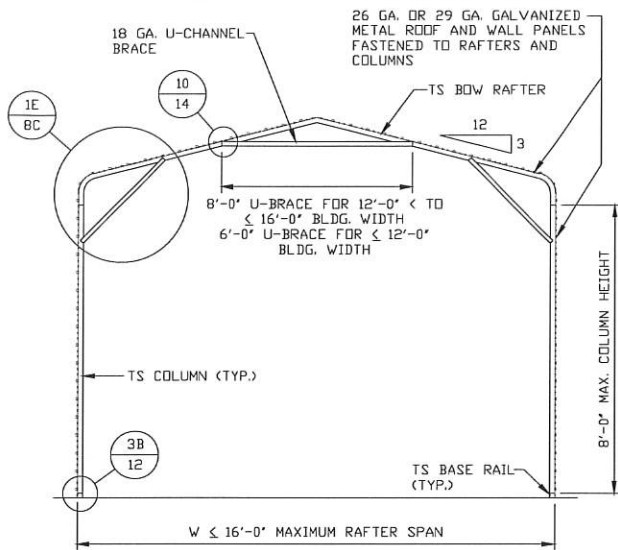
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**JOB NO: 23142S**

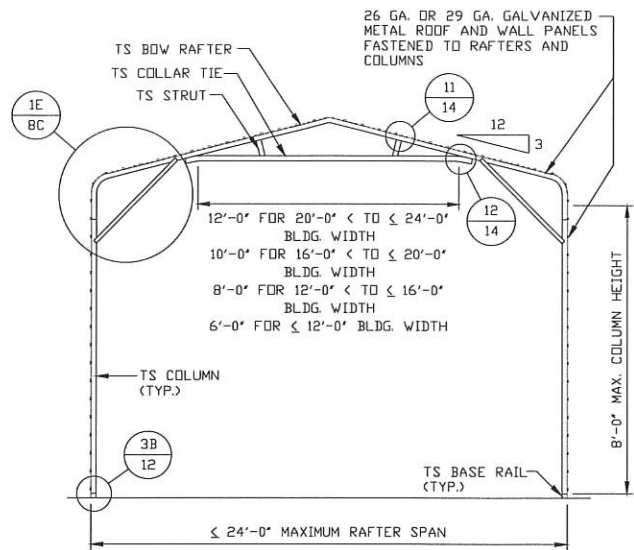
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**TYPICAL INTERIOR RAFTER/  
COLUMN FRAME SECTION**

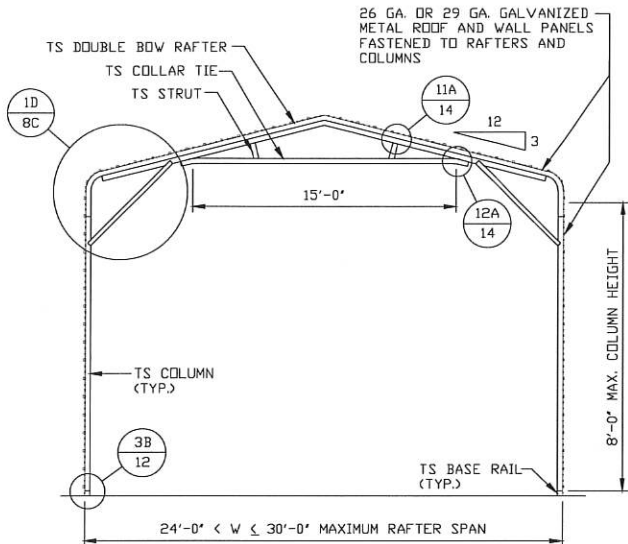
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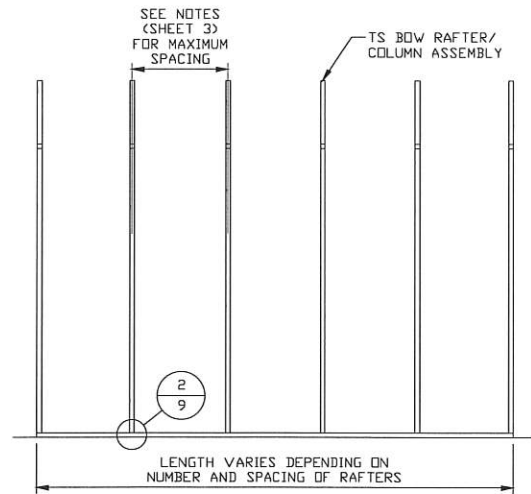
SCALE: NTS

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**

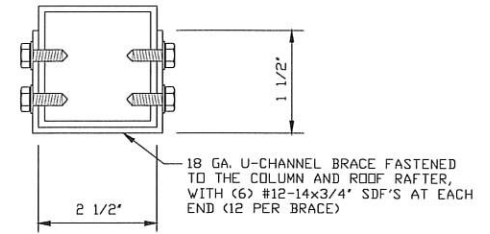
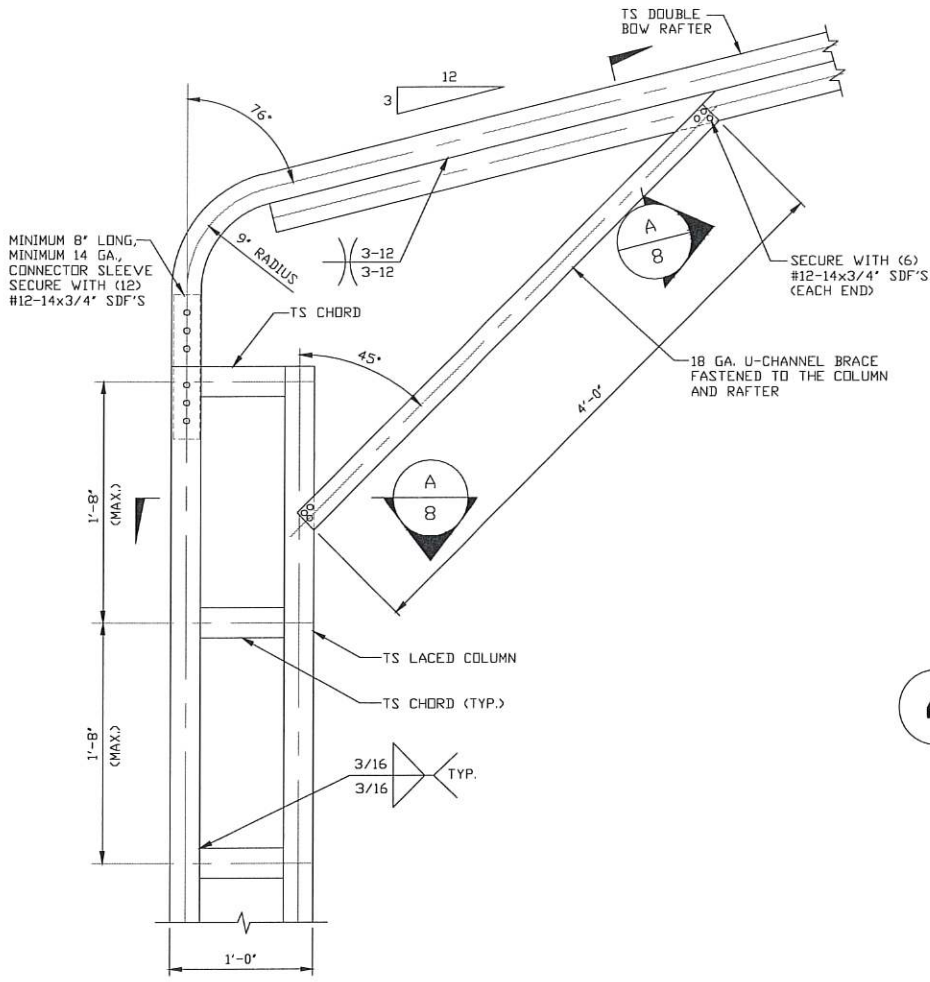
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**DWG. NO: SK-3**

**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.**

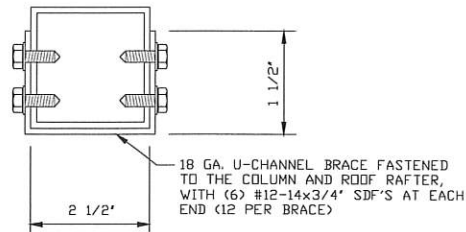
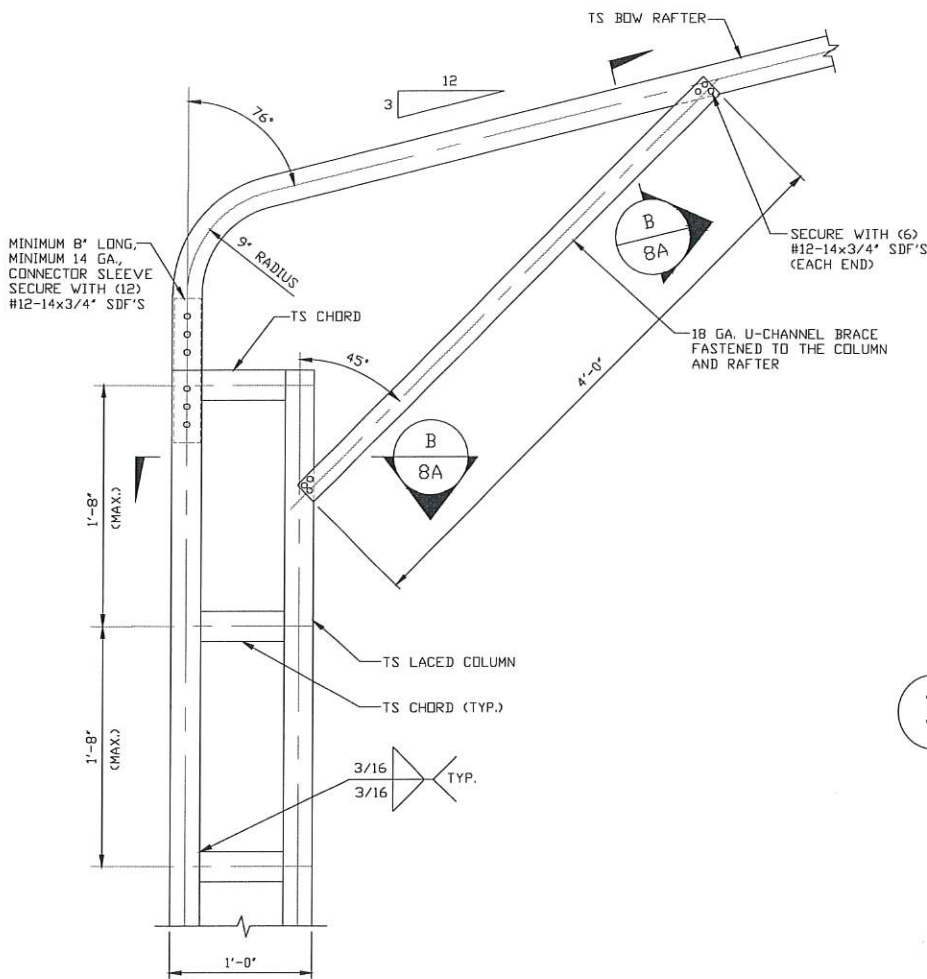
**DRAWN BY: JG**  
**CHECKED BY: JRP**

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

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**PROJECT MGR: JRP**  
**CLIENT: 1st CHOICE METAL BUILDINGS**

**DATE: 8-29-23** **SCALE: NTS** **JOB NO: 23142S**  
**SHT. 8** **DWG. NO: SK-3** **REV: 0**



**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

**Validity Notice**

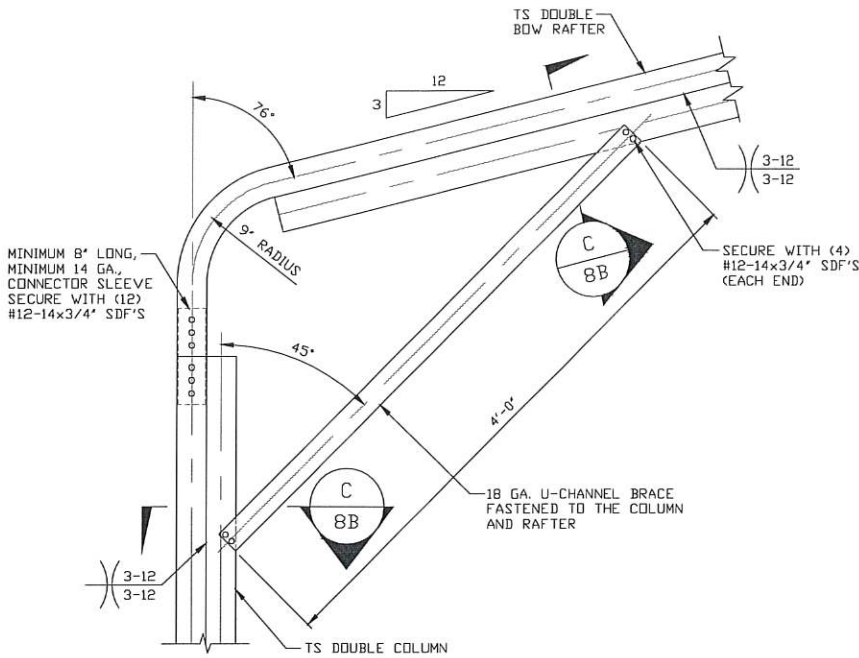
Plans Expiration Date:

**29 August 2024**

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

<b>DRAWN BY:</b> JG	1st CHOICE METAL BUILDINGS AND CARPORTS 2524 SOUTH STREET NACOGDOCHES, TX 75964 30'-0" x 16'-0" ENCLOSED STRUCTURE		
<b>CHECKED BY:</b> JRP			
<b>PROJECT MGR:</b> JRP	<b>DATE:</b> 8-29-23	<b>SCALE:</b> NTS	<b>JOB NO:</b> 23142S
<b>CLIENT:</b> 1st CHOICE METAL BUILDINGS	<b>SHT:</b> 8A	<b>DWG. NO:</b> SK-3	<b>REV:</b> 0

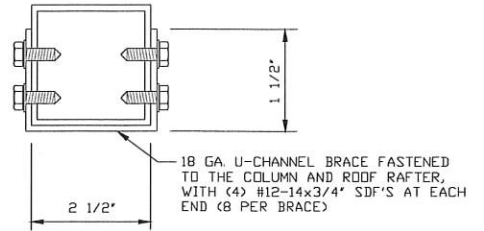
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**BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 8'-0" < TO ≤ 14'-0"**

**1B**

SCALE: NTS



**C**

**BRACE SECTION**

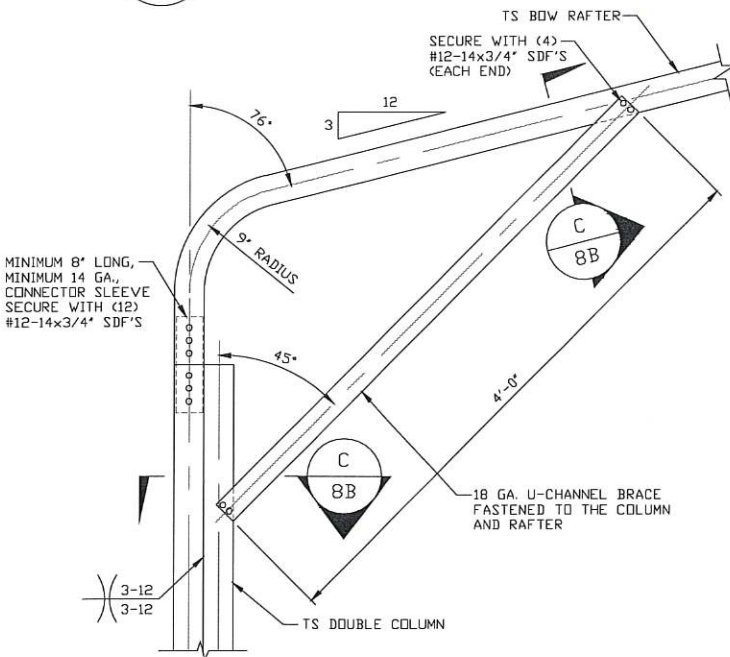
SCALE: NTS

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

**Validity Notice**

**Plans Expiration Date:**

**29 August 2024**



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

**1C**

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**

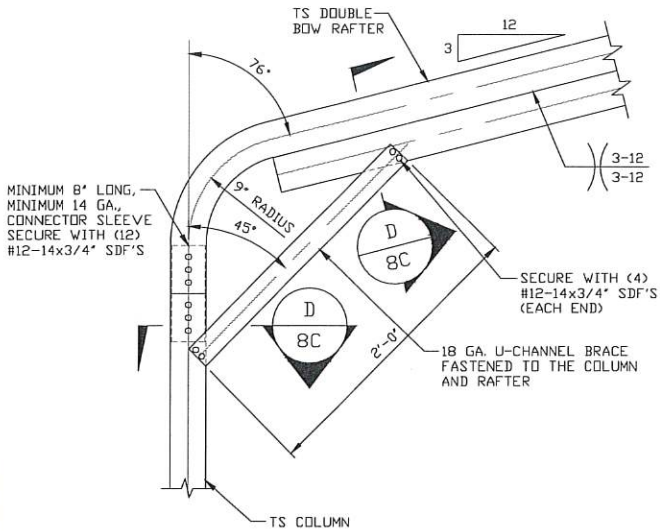
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**DWG. NO: SK-3**

**JOB NO: 23142S**

**REV: 0**

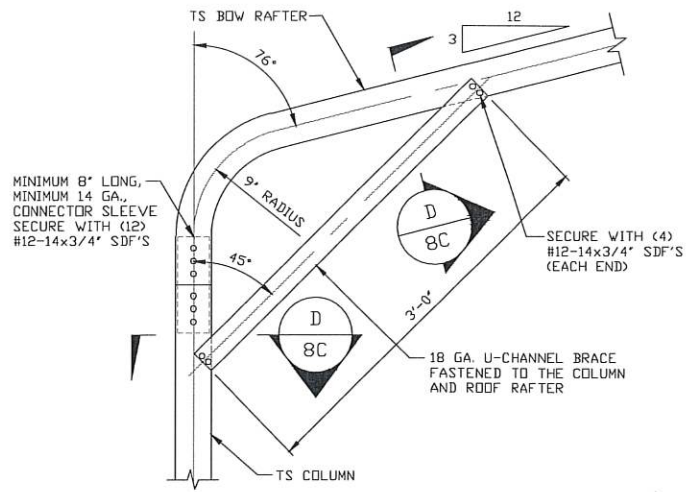
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**BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS  $\leq$  8'-0"**

1D

SCALE: NTS

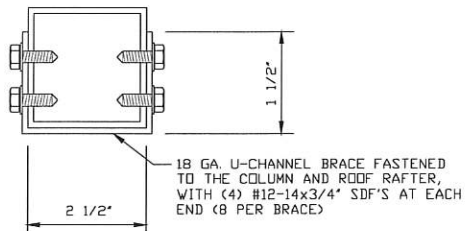


**BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS  $\leq$  8'-0"**

1E

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.**

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**CHECKED BY: JRP**

**PROJECT MGR: JRP**

**CLIENT: 1st CHOICE  
METAL BUILDINGS**

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

**DATE: 8-29-23**

**SHT. 8C**

**SCALE: NTS**

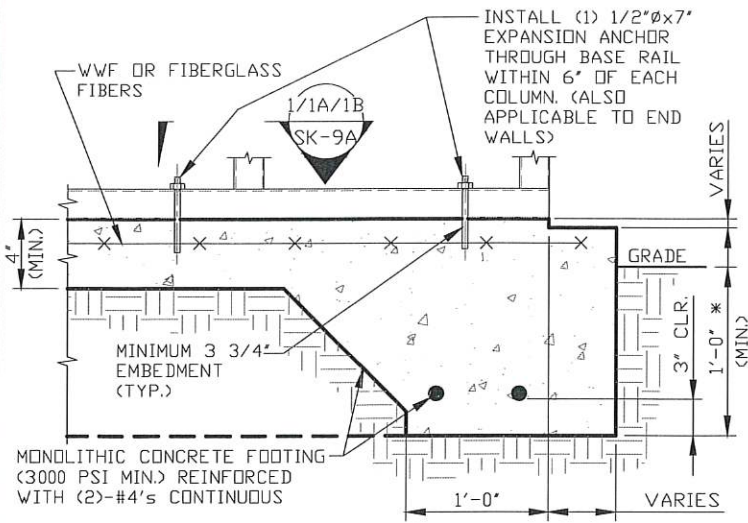
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**JOB NO: 23142S**

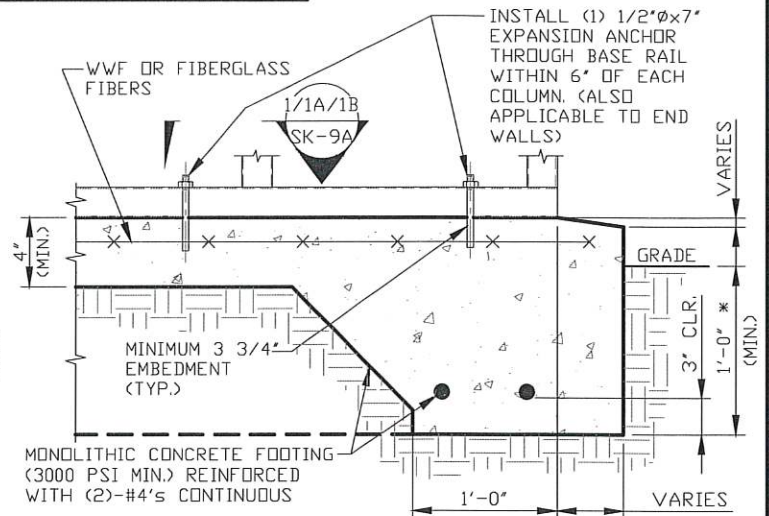
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## BASE RAIL ANCHORAGE OPTIONS



**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  
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30'-0" x 16'-0" ENCLOSED STRUCTURE

**DATE: 8-29-23**

**SHT. 9**

**SCALE: NTS**

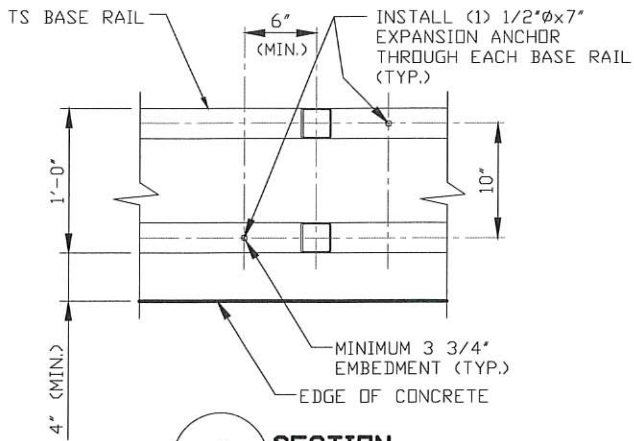
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**JOB NO: 23142S**

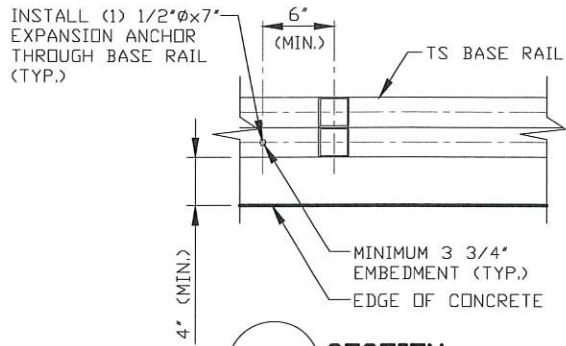
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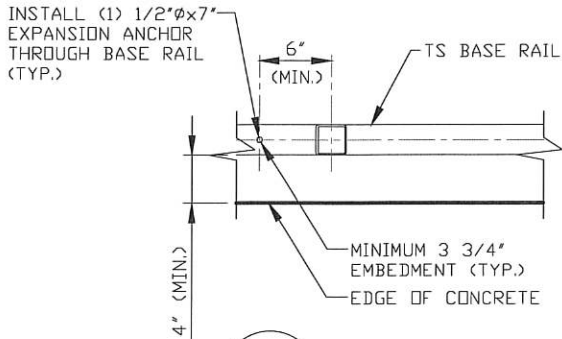
# BASE RAIL ANCHORAGE OPTIONS



**1 SECTION**  
SCALE: NTS



**1A SECTION**  
SCALE: NTS



**1B SECTION**  
SCALE: NTS

**Validity Notice**

Plans Expiration Date:

29 August 2024

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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  
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**DATE: 8-29-23**

**SCALE: NTS**

**JOB NO: 23142S**

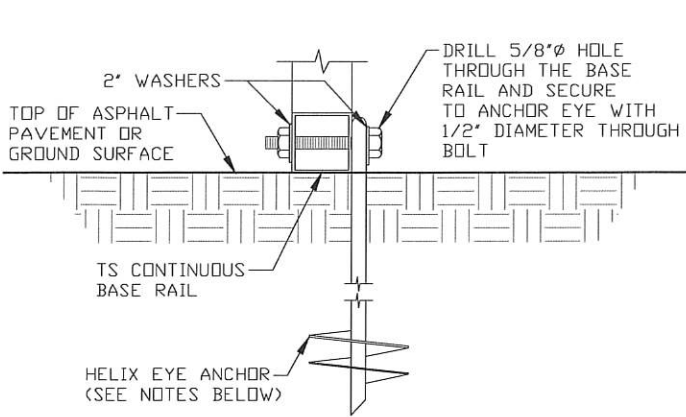
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**DWG. NO: SK-3**

**REV: 0**

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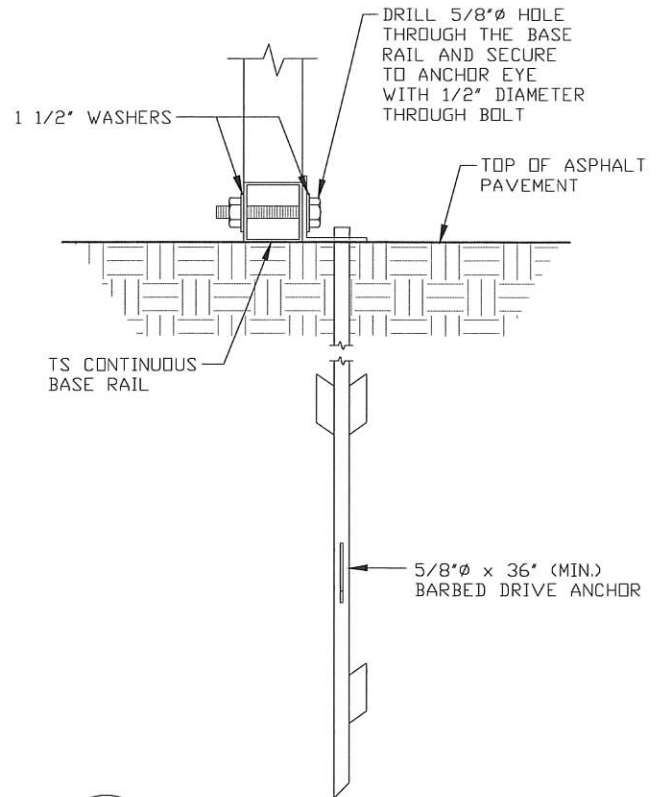
## ADDITIONAL BASE RAIL ANCHORAGE OPTION



**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

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**

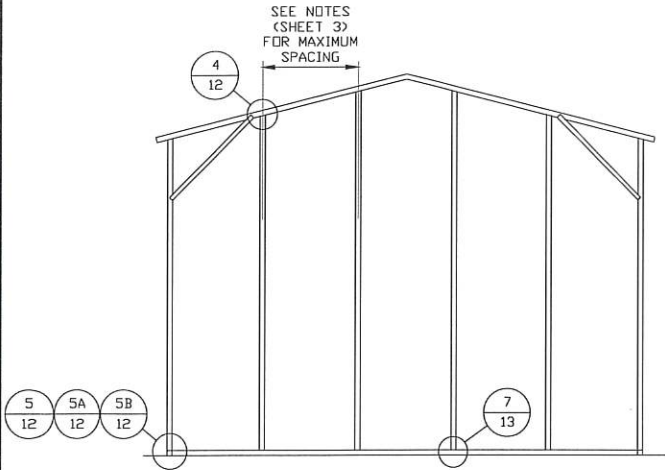
**SHT. 9B**

**DWG. NO: SK-3**

**REV: 0**

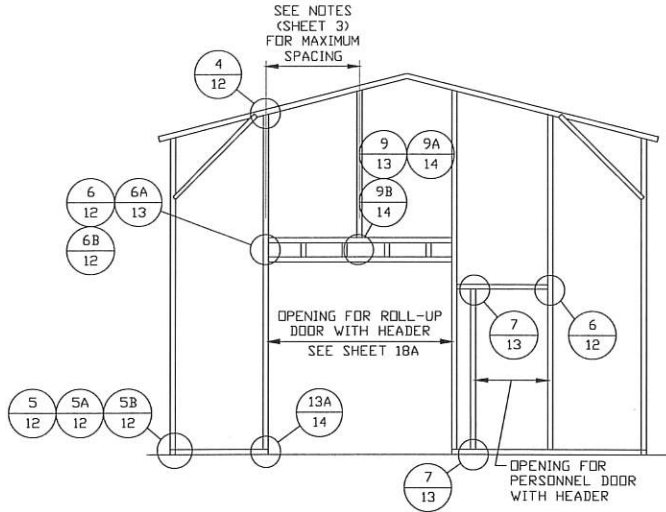
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# BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



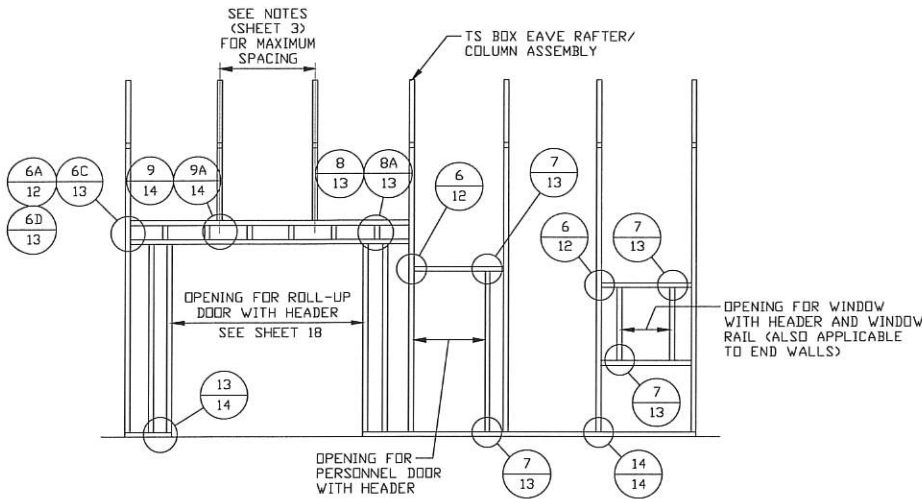
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

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**

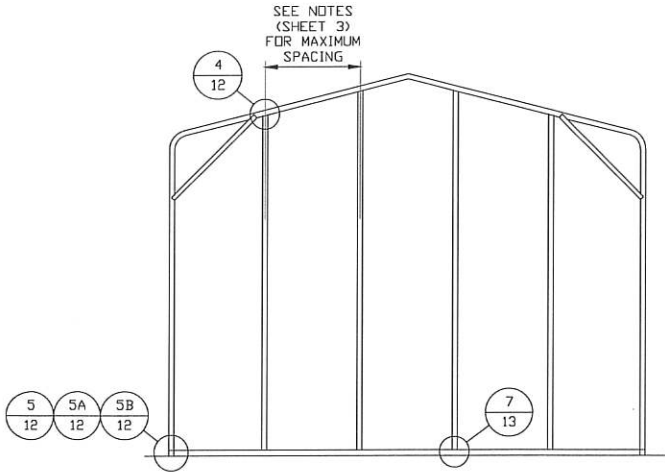
**SHT. 10**

**DWG. NO: SK-3**

**REV: 0**

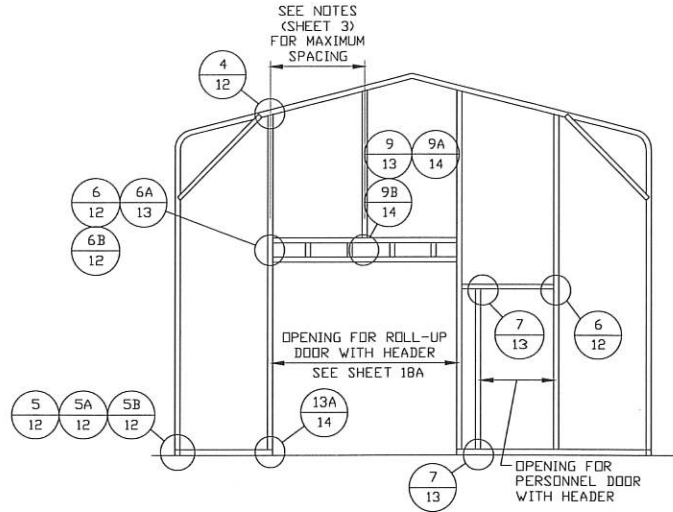
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# BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



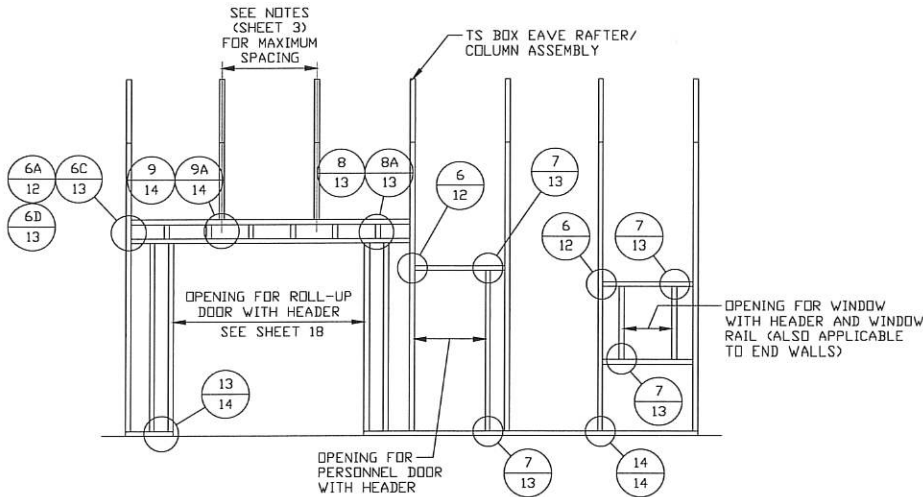
**TYPICAL BOX EAVE RAFTER  
END WALL FRAMING SECTION**

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  
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**

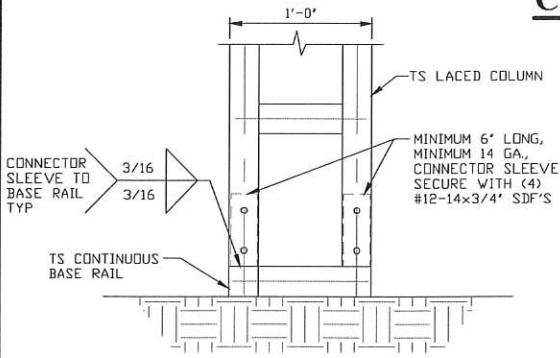
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**DWG. NO: SK-3**

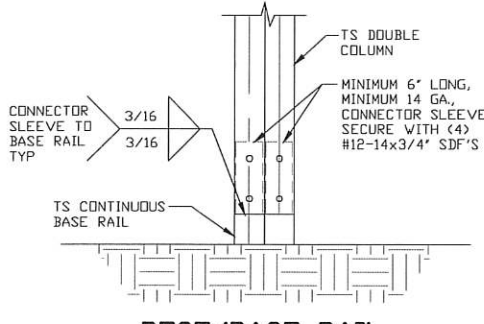
**REV: 0**

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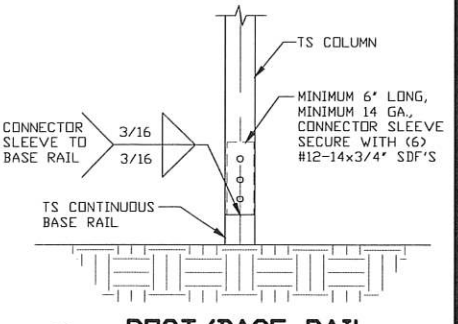
# CONNECTION DETAILS



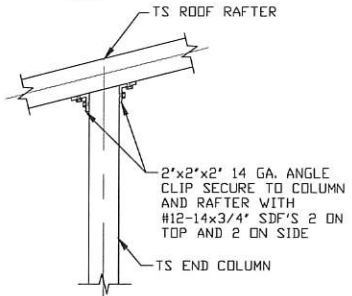
**3** **POST/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



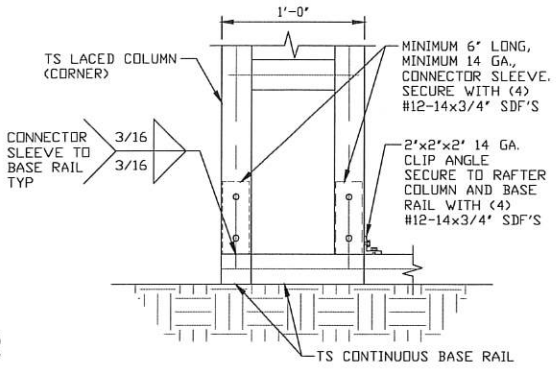
**3A** **POST/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



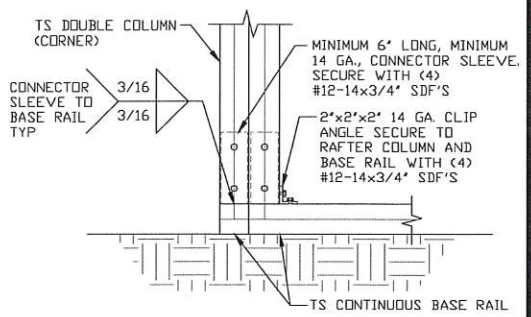
**3B** **POST/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



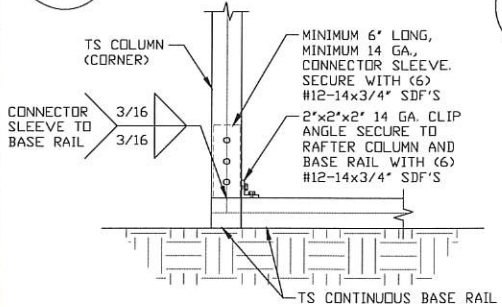
**4** **END COLUMN/RAFTER CONNECTION DETAIL**  
SCALE: NTS



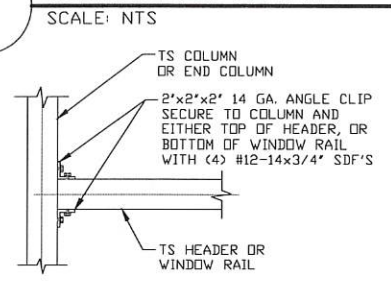
**5** **END COLUMN/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



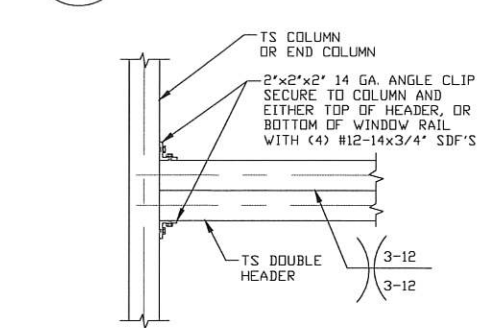
**5A** **END COLUMN/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



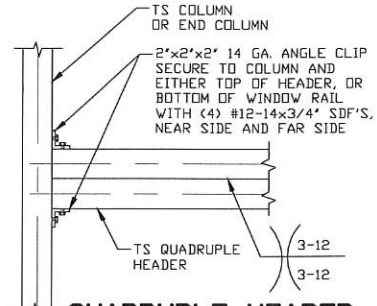
**5B** **END COLUMN/BASE RAIL CONNECTION DETAIL**  
SCALE: NTS



**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**

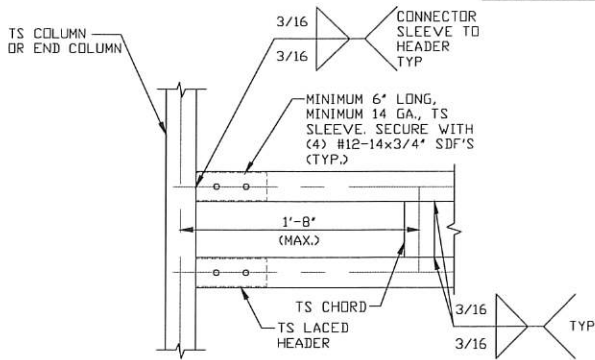
1st CHOICE METAL BUILDINGS AND CARPORTS  
2524 SOUTH STREET  
NACOGDOCHES, TX 75964  
30'-0" x 16'-0" ENCLOSED STRUCTURE

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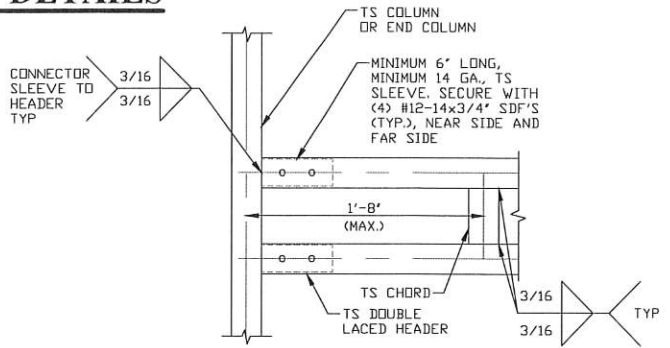
**PROJECT MGR: JRP**  
**CLIENT: 1st CHOICE METAL BUILDINGS**

**DATE: 8-29-23** **SCALE: NTS** **JOB NO: 23142S**  
**SHT. 12** **DWG. NO: SK-3** **REV: 0**

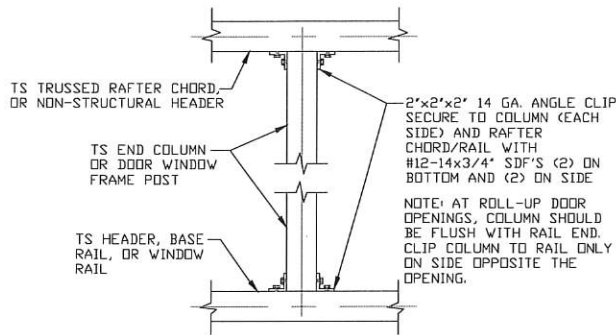
# CONNECTION DETAILS



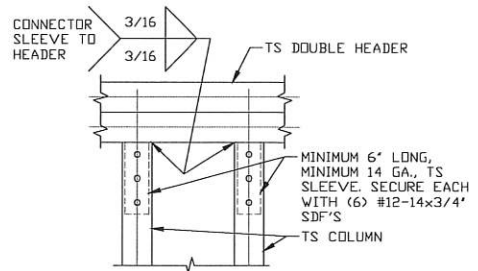
**6C**  
**LACED HEADER TO COLUMN CONNECTION DETAIL**  
 SCALE: NTS



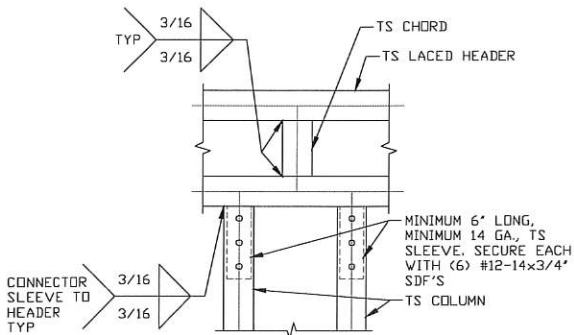
**6D**  
**DOUBLE LACED HEADER TO COLUMN CONNECTION DETAIL**  
 SCALE: NTS



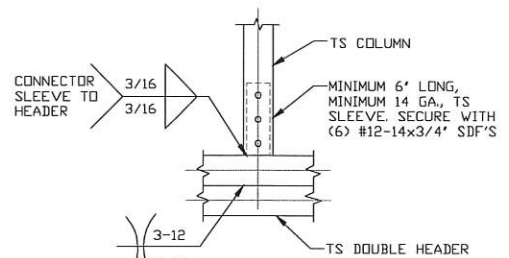
**7**  
**COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL**  
 SCALE: NTS



**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

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**SCALE: NTS**

**JOB NO: 23142S**

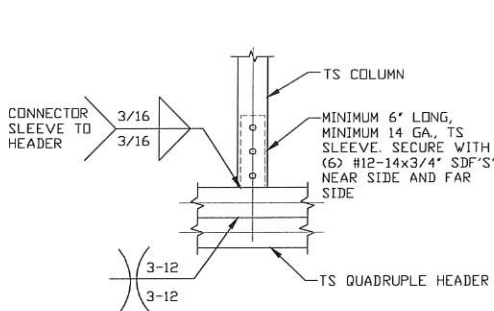
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**DWG. NO: SK-3**

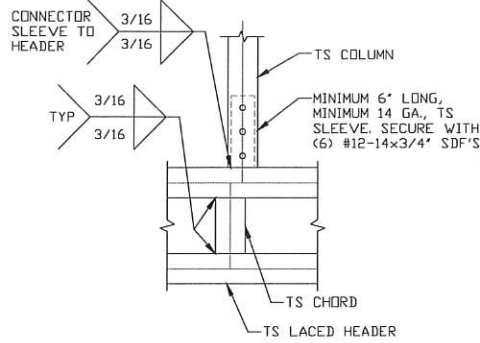
**REV: 0**

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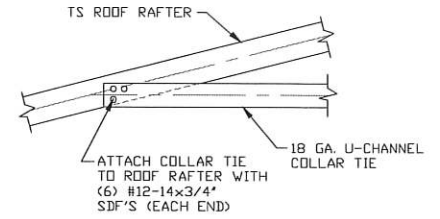
# CONNECTION DETAILS



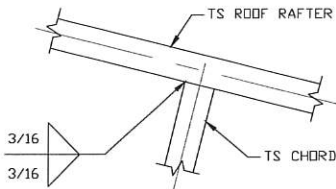
**9A**  
**COLUMN/QUADRUPLE  
 HEADER  
 CONNECTION DETAIL**  
 SCALE: NTS



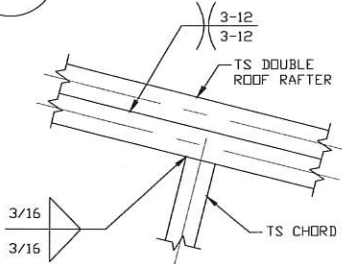
**9B**  
**COLUMN/LACED HEADER  
 CONNECTION DETAIL**  
 SCALE: NTS



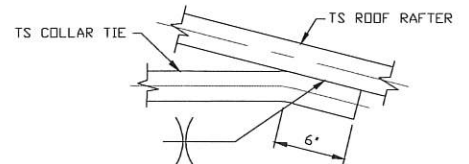
**10**  
**COLLAR TIE  
 CONNECTION DETAIL**  
 SCALE: NTS



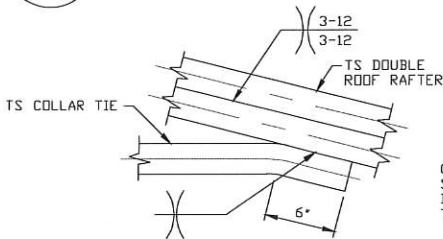
**11**  
**RAFTER TO CHORD  
 CONNECTION DETAIL**  
 SCALE: NTS



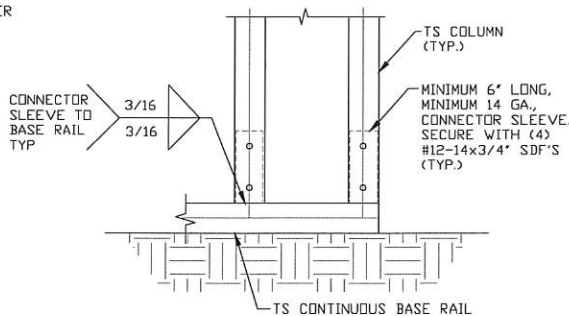
**11A**  
**RAFTER TO CHORD  
 CONNECTION DETAIL**  
 SCALE: NTS



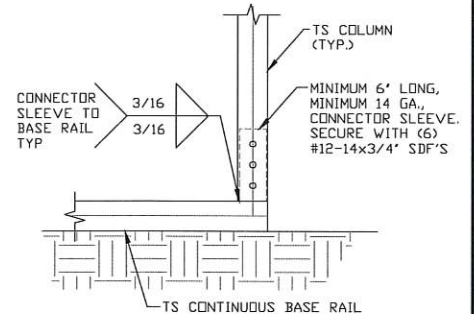
**12**  
**COLLAR TIE  
 CONNECTION DETAIL**  
 SCALE: NTS



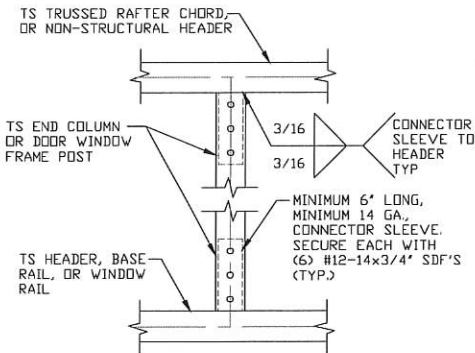
**12A**  
**COLLAR TIE  
 CONNECTION DETAIL**  
 SCALE: NTS



**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**

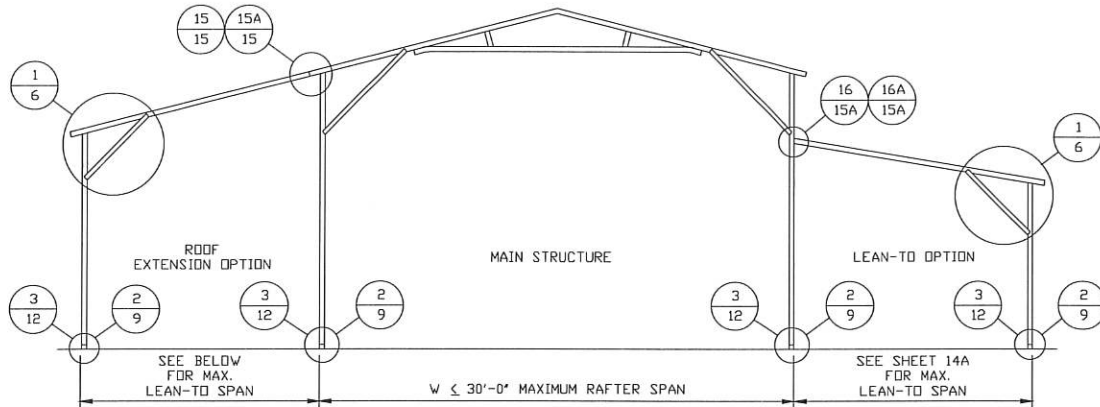
**DWG. NO: SK-3**

**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".

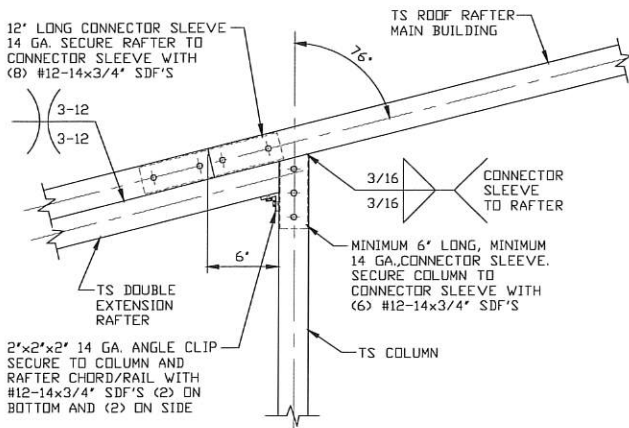
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 12'-0".

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".

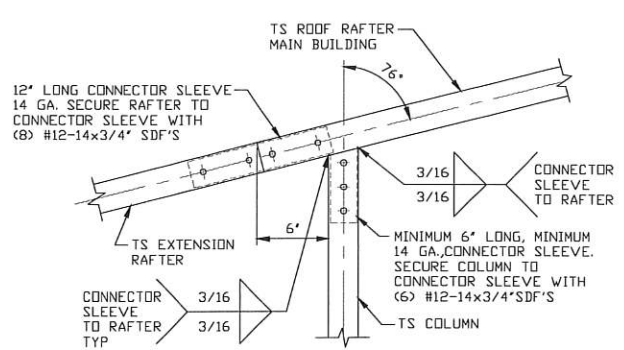
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



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

SCALE: NTS

15



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

SCALE: NTS

15A

### Validity Notice

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29 August 2024

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**CLIENT: 1st CHOICE  
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS  
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**DATE: 8-29-23**

**SHT. 15**

**SCALE: NTS**

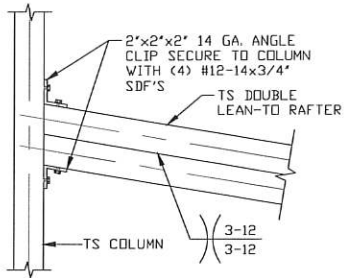
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**JOB NO: 23142S**

**REV: 0**

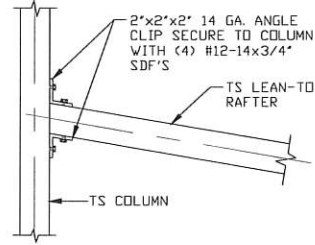
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# BOX EAVE RAFTER LEAN-TO OPTIONS



**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**

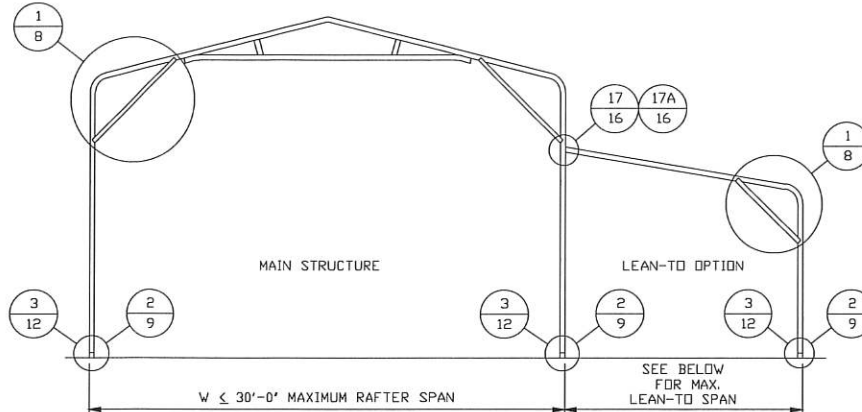
**SHT. 15A**

**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".

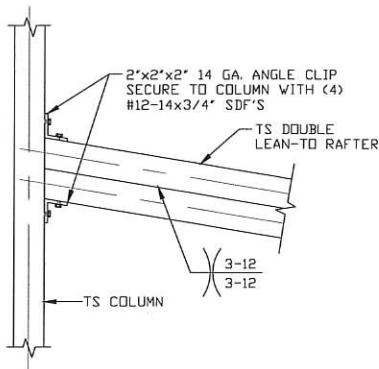
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 12'-0".

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".

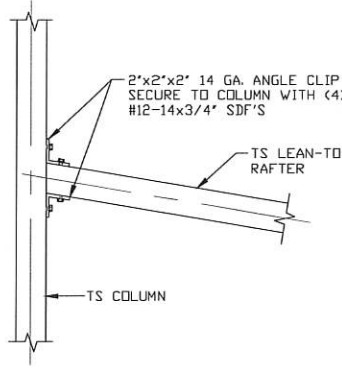
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



**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**

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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**

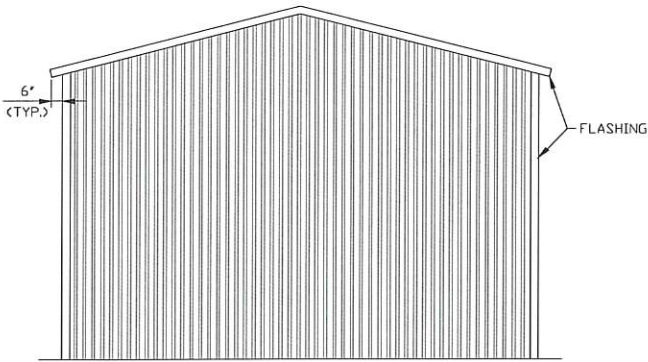
**DWG. NO: SK-3**

**JOB NO: 23142S**

**REV: 0**

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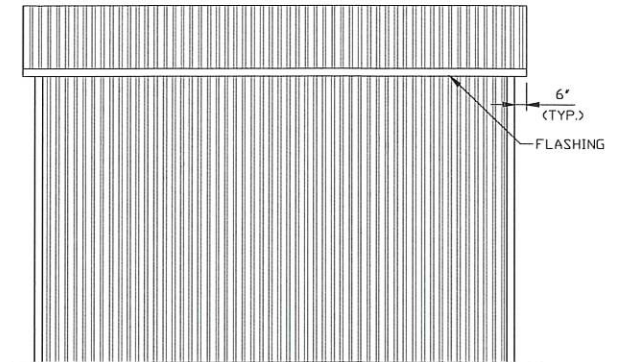
# BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



**TYPICAL END ELEVATION  
VERTICAL ROOF/SIDING**

SCALE: NTS

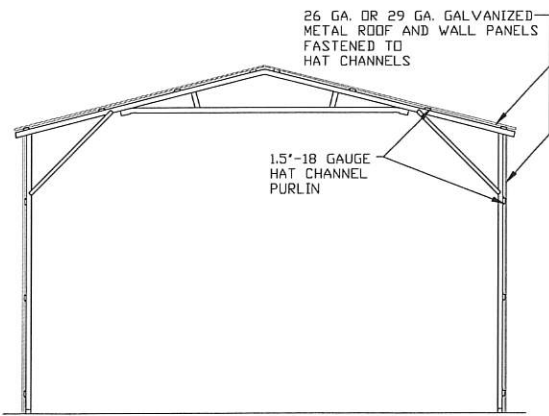
NOTE: HORIZONTAL WALL PANELING CAN BE USED AS AN ALTERNATIVE.



**TYPICAL SIDE ELEVATION  
VERTICAL ROOF/SIDING**

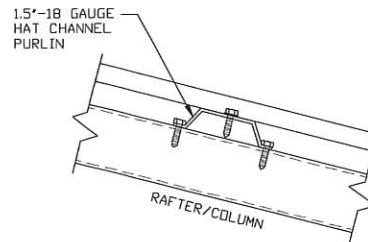
SCALE: NTS

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



**TYPICAL SECTION  
VERTICAL ROOF/SIDING OPTION**

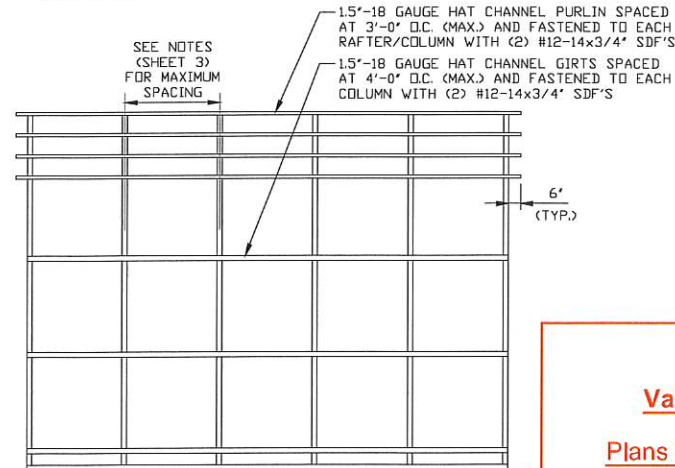
SCALE: NTS



**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**

**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**

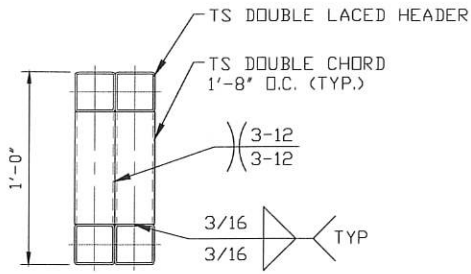
**SHT. 17**

**DWG. NO: SK-3**

**REV: 0**

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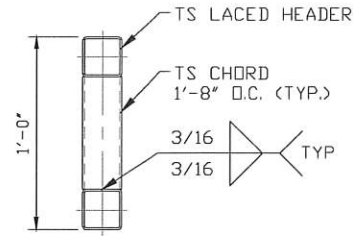
## SIDE WALL HEADER OPTIONS



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

SCALE: NTS

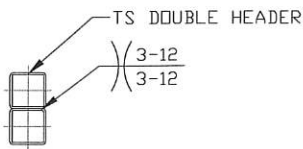
NOTE: HEADER MUST BE CONNECTED WITH CONNECTOR SLEEVES PER DETAIL 6E.



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

SCALE: NTS

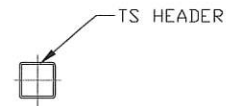
NOTE: HEADER MUST BE CONNECTED WITH CONNECTOR SLEEVES PER DETAIL 6B.



### 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**

**SHT. 18**

**SCALE: NTS**

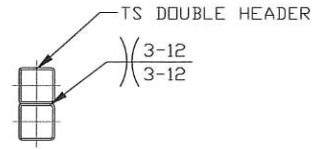
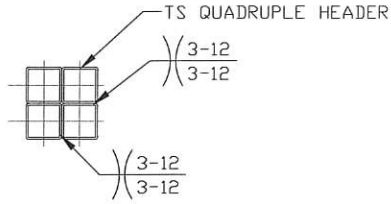
**DWG. NO: SK-3**

**JOB NO: 23142S**

**REV: 0**

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## END WALL HEADER OPTIONS



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

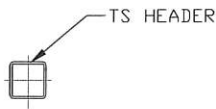
SCALE: NTS

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**

**CHECKED BY: JRP**

**PROJECT MGR: JRP**

**CLIENT: 1st CHOICE  
METAL BUILDINGS**

1st CHOICE METAL BUILDINGS AND CARPORTS  
2524 SOUTH STREET  
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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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