

# STRUCTURAL DESIGN ENCLOSED BUILDING

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

29 February 2024 Revision 1 M&A Project No. 23184S

Prepared for:

First Generation Metal Buildings, LLC 790 Long Hill Road Pilot Mountain, NC 27041

Prepared by:

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Plans Expiration Date: 1 March 2025
Plans are valid for one year from issuance date



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	DRAWN BY: JG	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD						
	CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE						
4	PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB NO	D 23184S			
	CLIENT: FGMB	SHT. 2	DWG. NDI SK-3 REV. 1		REV. 1			

### 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 PEAK BRACE (W < 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 (Vult) = ≤ 140 MPH (NOMINAL WIND SPEED = ≤ 108 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 TYPE SS GRADE 50 WITH MINIMUM YIELD STRENGTH (Fy) OF 50 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 10. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" × 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 11. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4' × 2 1/4' 14 GAUGE FOR 2 1/2" × 2 1/4'-14 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 12. AVERAGE FASTENER SPACING DN-CENTERS = 10 INCHES.
- 13. FASTENERS CONSIST OF #12-14×3/4' 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 AT OR 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  $I_E = 1.0$   $V = C_S W$ 

 $S_{D1} = 2.13 g$ 

- 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 SHIP DRAVINGS. THE MASTER DESIGN IS NOT PROMARLY INTENDED FOR CONSTRUCTION PERMIT. VHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING DEFICIAL MIST BE CONSULTED TO VERIFY VHETHER 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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PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB NO 23184S				
CHECKED BY: AM		PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG	790 LONG HILL ROAD						

FIRST GENERATION METAL BUILDINGS LLC

### LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

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

2021 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2021 WITH AMENDMENTS)

VIRGINIA UNIFORM STATEWIDE BUILDING CODE, PART I, CONSTRUCTION (ADOPTS THE IBC 2021 WITH AMENDMENTS)

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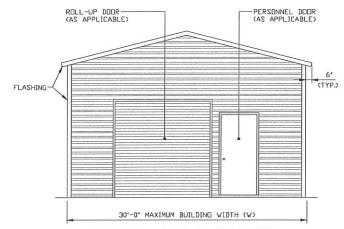
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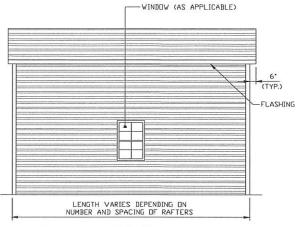
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DRAWN BY: JG		RATION METAL BUILDINGS, LLC 790 LONG HILL ROAD			

## BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION SCALE: NTS



## TYPICAL SIDE ELEVATION

SCALE: NTS
NDTE: HDRIZONTAL ROOF PANELING ONLY APPLICABLE
FOR WIND SPEEDS ( 130 MPH AND GROUND SNOW
LOAD ( 30 PSF.

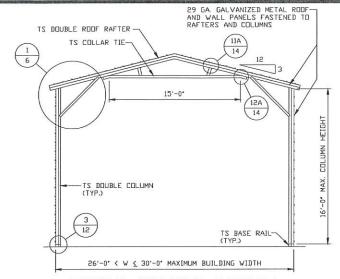
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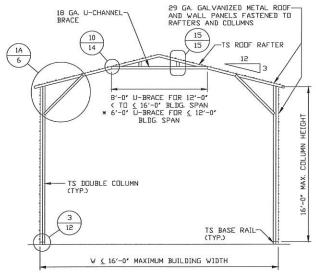
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### TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

SCALE: NTS

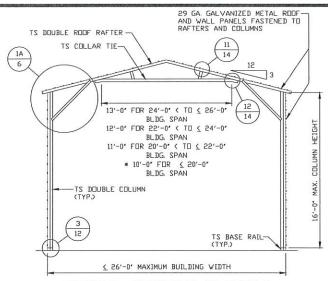
\* NDTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOAD  $\leq$  20 PSF.



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SCALE: NTS

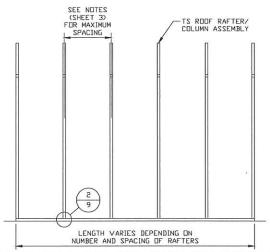
\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



# TYPICAL INTERIOR RAFTER/COLUMN FRAME SECTION

SCALE: NTS

\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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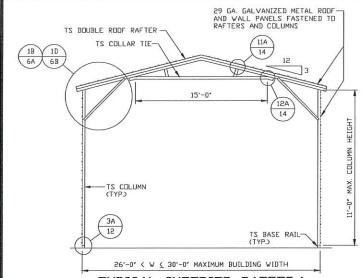
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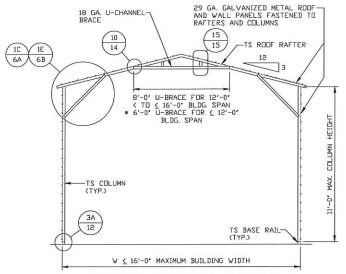
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# TYPICAL INTERIOR RAFTER/

SCALE: NTS

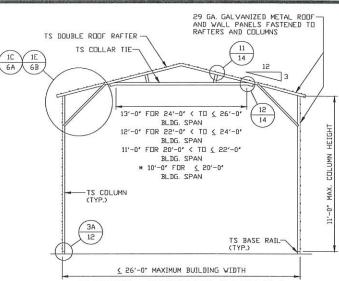
\* NOTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOAD < 20 PSF.



# TYPICAL INTERIOR RAFTER/COLUMN FRAME SECTION

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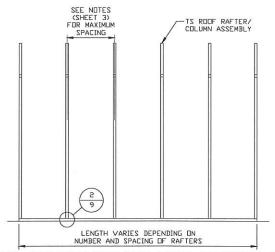
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### TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

SCALE: NTS

\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

#### Validity Notice

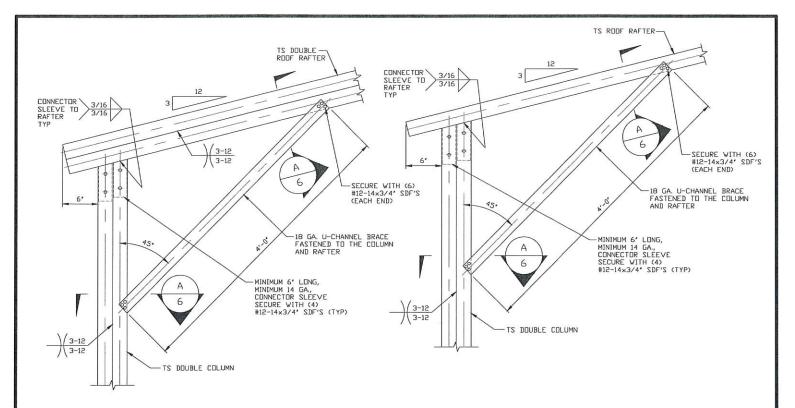
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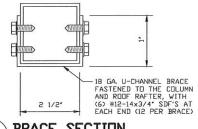


1A

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 11'-0' < TO \( \) 16'-0"

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 11'-0" < TO < 16'-0"



A BRACE SECTION

SCALE: NTS

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

**Validity Notice** 

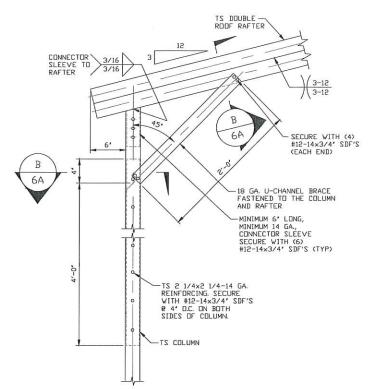
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C. C. C. C.	DRAWN BY: JG	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD PILOT MOUNTAIN. NC 27041			

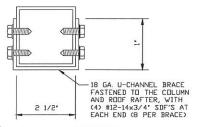


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

FOR HEIGHTS 9'-0" < TO < 11'-0"

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL

1C | SCALE: NTS | SCALE



BRACE SECTION

SCALE: NTS
NOTE: DOUBLE RAFTER NOT SHOWN
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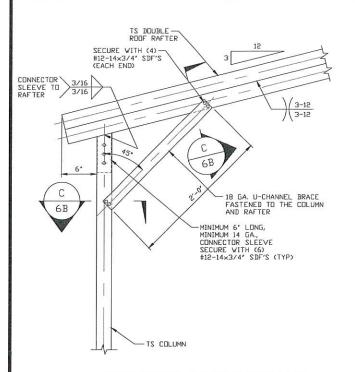
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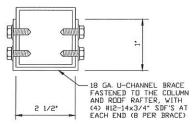
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PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S
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DRAWN BY: JG	ANNOUNCE PROPERTY	ERATION MET 790 LONG HII LOT MOUNTA	LL ROA	



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 9'-0'



BRACE SECTION

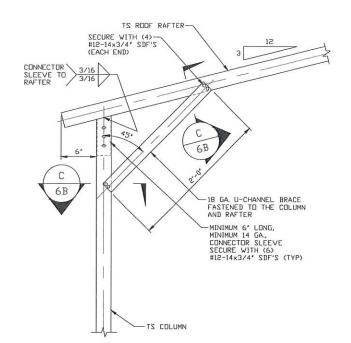
SCALE: NTS

NOTE: DOUBLE RAFTER NOT SHOWN
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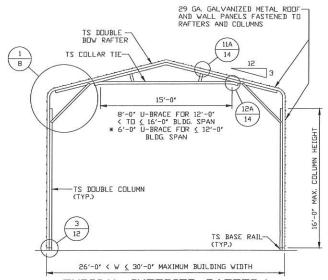


BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS & 9'-0'

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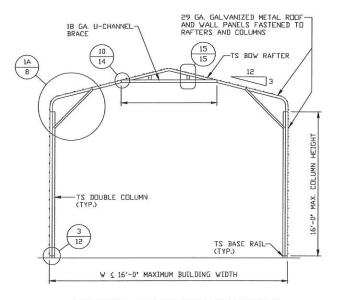
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CHECKED BY: AM		OT MOUNTA				
DRAWN BY: JG		790 LONG HILL ROAD PILOT MOUNTAIN, NC 27041				



### TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

SCALE: NTS

\* NOTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOAD ≤ 20 PSF.



# TYPICAL INTERIOR RAFTER/COLUMN FRAME SECTION

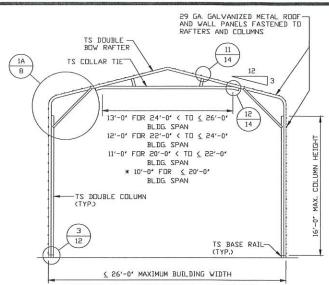
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\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.

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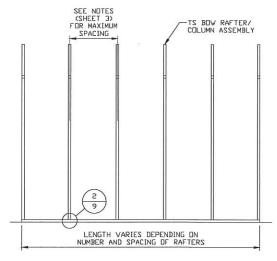
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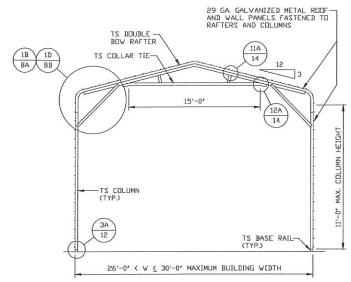


# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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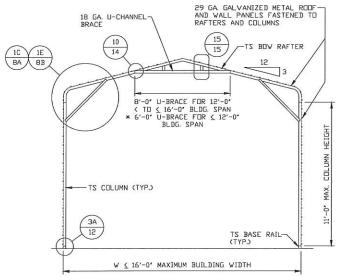
	FIRST GENI	ERATION MET	AL BU	LDINGS, LLC
DRAWN BY: JG		D		
	PII	OT MOUNTA	IN, NC 2	27041
CHECKED BY: AM	30'-0"x1	6'-0" ENCLOS	ED STR	UCTURE
PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S
CLIENT: FGMB	SHT. 7	DVG. ND SK-	-3	REV. 1



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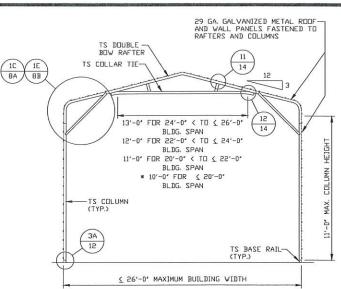
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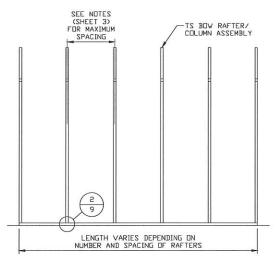
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SCALE: NTS

\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS.



# TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NT

**Validity Notice** 

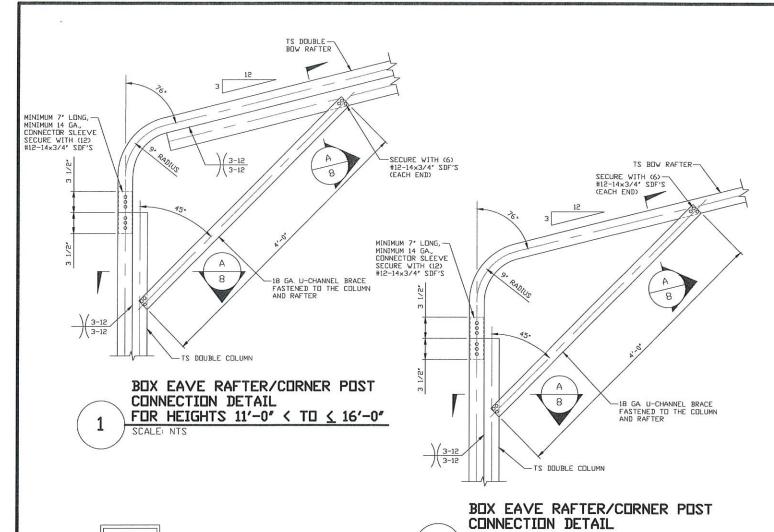
Plans Expiration Date:

1 March 2025

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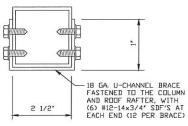
Si care	CLIENT: FGNB	SHT. 7A	DWG. NO SK-	-3	REV. 1				
	PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S				
	CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE							
	DRAWN BY: JG		790 LONG HIL	L ROA					



**1A** 

SCALE: NTS

FOR HEIGHTS 11'-0" < TO ≤ 16'-0"



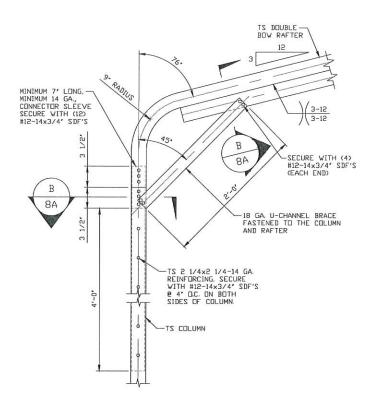
A BRACE SECTION
SCALE: NTS

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

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAVN BY: JG CHECKED BY: AM	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE			7041
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BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO ≤ 11'-0" 1B SCALE: NTS

> 1B GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF RAFTER, WITH (4) #12-14×3/4" SDF'S AT EACH END (8 PER BRACE) 2 1/2"

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

**Validity Notice** 

Plans Expiration Date:

1 March 2025

S. RADIUS MINIMUM 7' LONG, — MINIMUM 14 GA., CONNECTOR SLEEVE SECURE WITH (12) #12-14×3/4' SDF'S 45. B -SECURE WITH (4) #12-14x3/4" SDF'S (EACH END) 84 В 18 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND RAFTER 1/2 TS 2 1/4×2 1/4-14 GA. REINFORCING, SECURE
WITH #12-14×3/4" SDF'S
@ 4" D.C. DN BOTH
SIDES OF COLUMN. TS COLUMN

TS BOW RAFTER

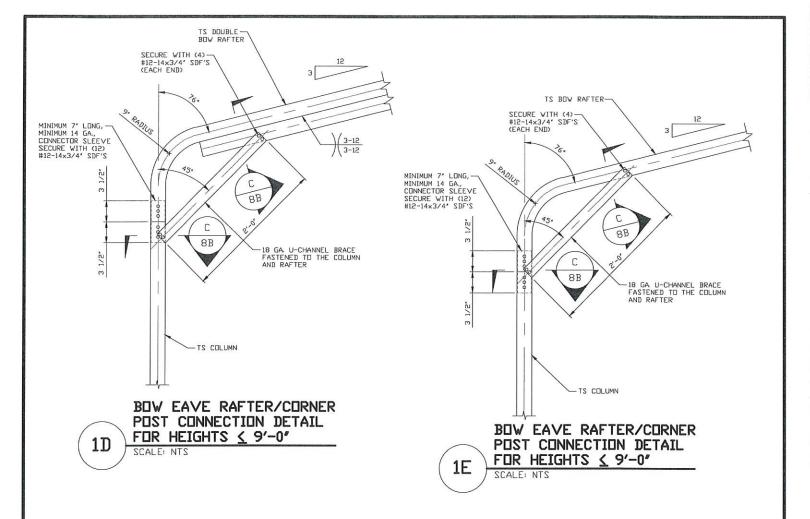
BOW EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO ≤ 11'-0" 1C

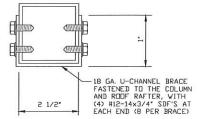
SCALE: NTS

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CLIENT: FGMB	SHT. 8A	DVG. ND SK	-3	REV. 1			
PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S			
CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE						
DRAWN BY: JG							





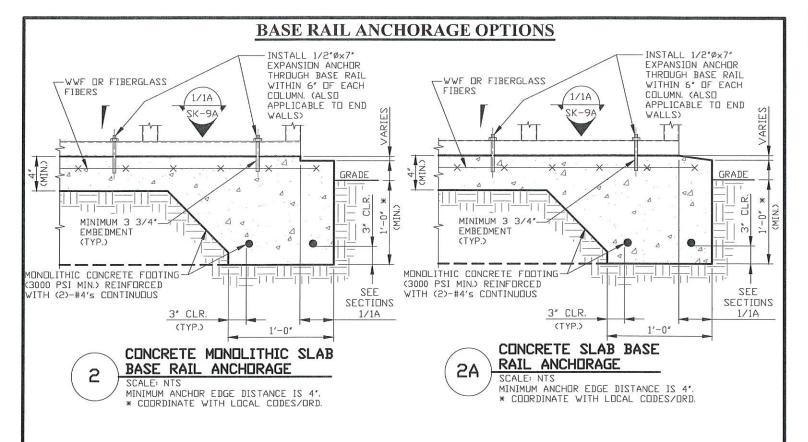
BRACE SECTION

SCALE: NTS
NOTE: DOUBLE RAFTER NOT SHOWN FOR CLARITY.

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: AM	PIL	790 LONG HIL OT MOUNTAI 6'-0" ENCLOS	N, NC	27041
A CORP LATE A GOOGLA TEG					ILDINGS, LLC



### GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SDIL 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:

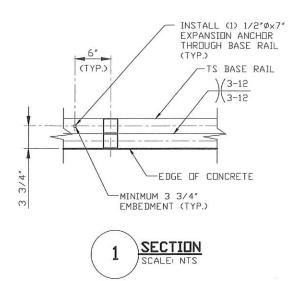
- REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

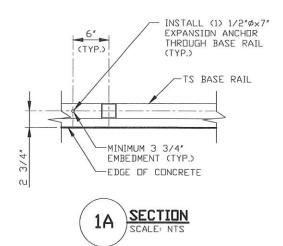
Validity Notice

Plans Expiration Date:

MOORE AND ASSOCIATES	DRAWN BY: JG		FIRST GENERATION METAL BUILDINGS, 790 LONG HILL ROAD		
ENCINEEDING AND CONCILITING INC	CHECKED BY: AM		OT MOUNTAI 6'-0" ENCLOSI		
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# **BASE RAIL ANCHORAGE OPTIONS**





**Validity Notice** 

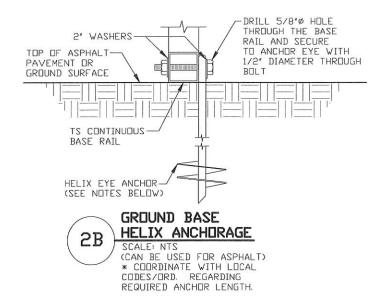
Plans Expiration Date:

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

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BE SH	RECT TO	LEGAL	ACTION						

DRAWN BY: JG		FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD						
CHECKED BY: AM		PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE						
PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S				
CLIENT: FGMB	SHT. 9A	DVG. ND SK	-3	REV. 1				

## ADDITIONAL BASE RAIL ANCHORAGE OPTION



## **GENERAL NOTES**

## HELIX ANCHOR NOTES:

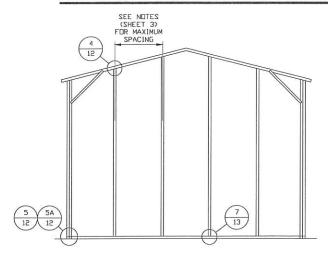
- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM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

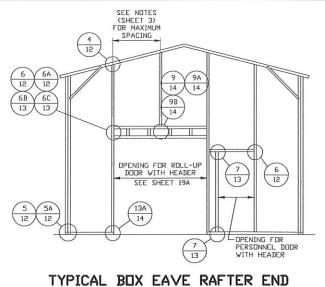
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Plans Expiration Date:

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: AM			ED STRUCTURE
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# BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS

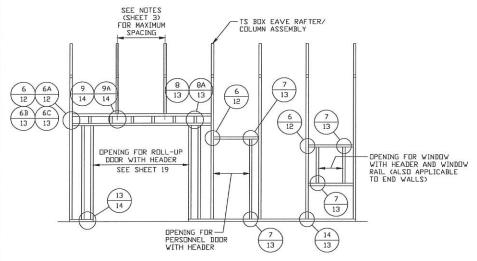




# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

WALL OPENINGS FRAMING SECTION SCALE: NTS

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

Validity Notice

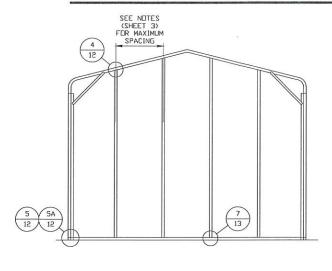
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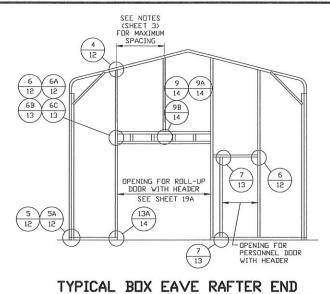
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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CLIENT: FGMB		DWG. ND: SK-	_	REV. 1	

## BOW EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS

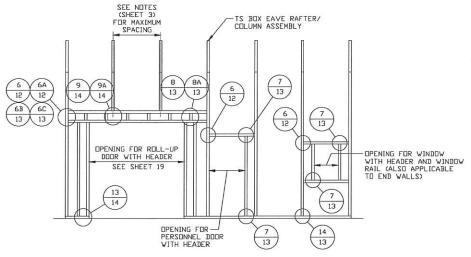




# TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

WALL OPENINGS FRAMING SECTION
SCALE: NTS

SCALE: NTS



# TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

Validity Notice

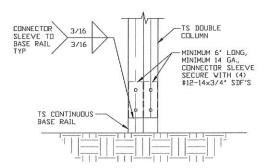
Plans Expiration Date:

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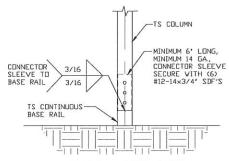
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CLIENT: FGMB	SHT. 11	DVG. ND: SK-3		REV. 1		
 PROJECT MGR: JRP	Date: 2-29-24	SCALE: NTS	JOB N	D 23184S		
CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD					

## **CONNECTION DETAILS**

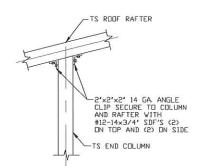


3 POST/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

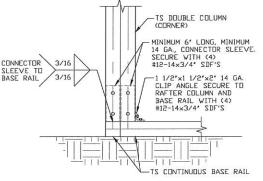


3A CONNECTION DETAIL

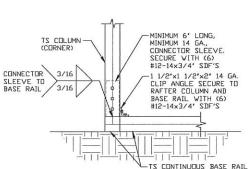
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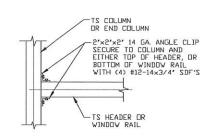
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



5 END COLUMN/
BASE RAIL
CONNECTION DETAIL
SCALE: NTS



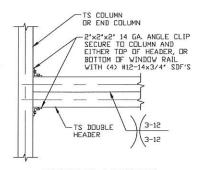
5A END COLUMN/ BASE RAIL CONNECTION DETAIL



COLUMN OR WINDOW RAIL/ WALL GIRT TO POST CONNECTION DETAIL

SCALE: NTS

6



6A DOUBLE HEADER
TO COLUMN
CONNECTION DETAIL
SCALE: NTS

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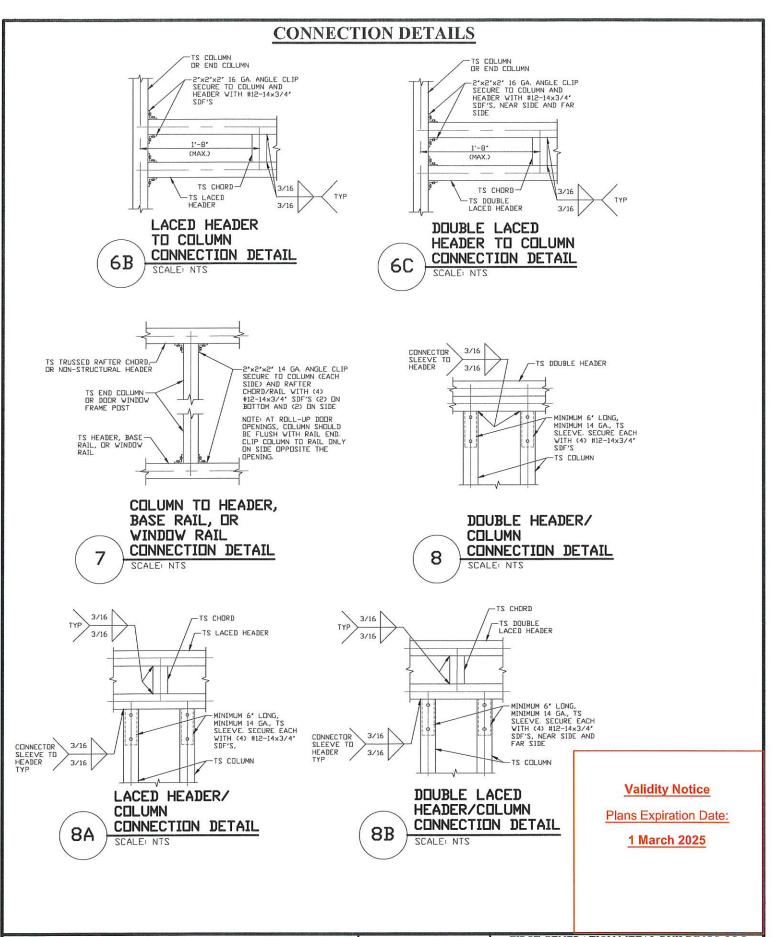
Plans Expiration Date:

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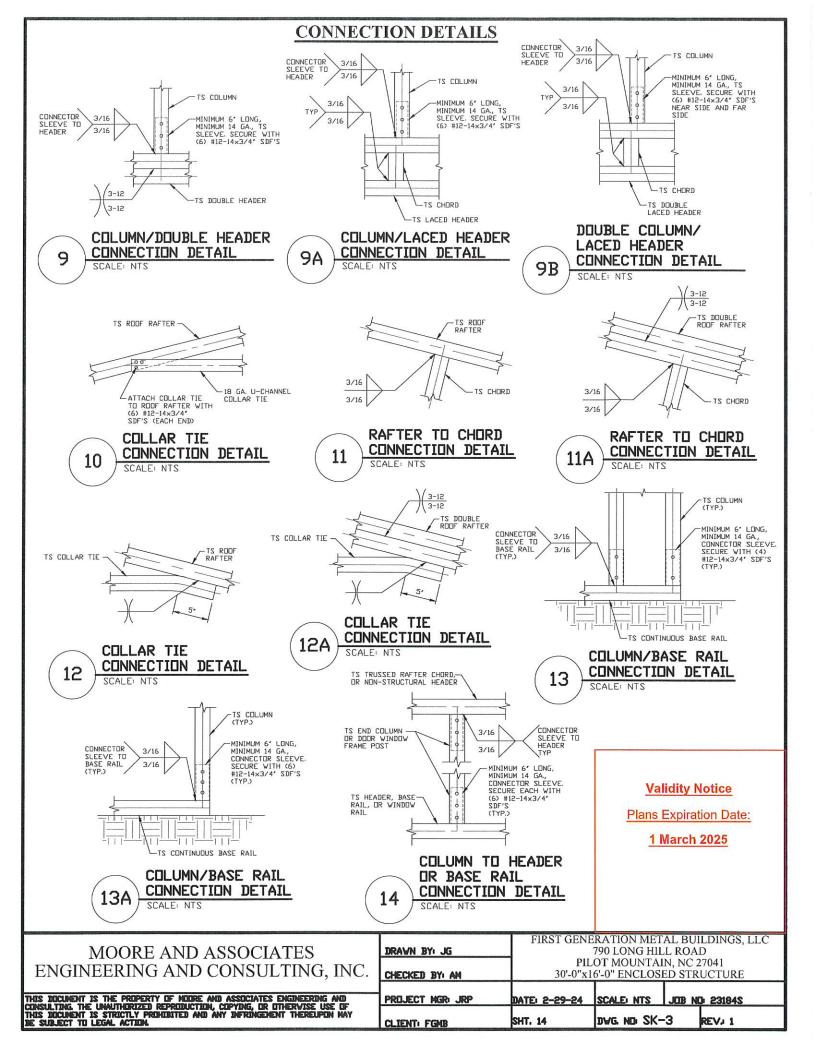
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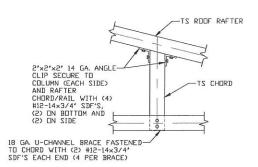
	CLIENT: FGMB	SHT. 12	DAG ND 2K-	.3	REV. 1		
-	PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB NO	231845		
	CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
	DRAWN BY: JG	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD					



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ENGINEERING AND CONSULTING, INC.	CHECKED BY: AM	PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE				
MOORE AND ASSOCIATES	DRAWN BY: JG		ERATION MET 790 LONG HIL			3



## **CONNECTION DETAILS**



RAFTER/U-CHANNEL TO CHORD CONNECTION DETAIL SCALE: NTS

15

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Plans Expiration Date:

1 March 2025

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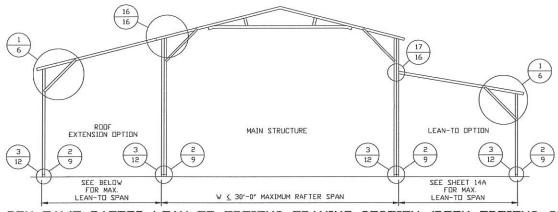
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PRILIFCT MGR. JRP	DATE: 2-29-24	SCALE, MTS	NUB WILL 531846			
CHECKED BY: AM		OT MOUNTAI 6'-0" ENCLOS	IN, NC 27041 ED STRUCTURE			
DRAWN BY: JG	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD					

PROJECT MGR: JRP DATE: 2-29-24 SCALE: NTS JOB NO: 23184S

CLIENT: FGMB SHT. 15 DVG. ND: SK-3 REV.: 1

## BOX EAVE RAFTER LEAN-TO OPTIONS



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

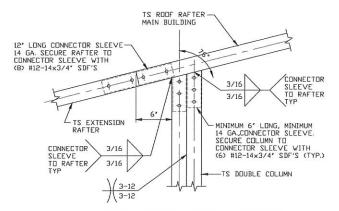
SCALE: NTS

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

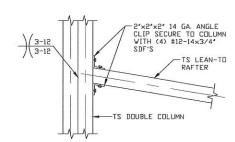
MAXIMUM DOUBLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 11'-0' < TO < 16'-0'.

MAXIMUM SINGLE COLUMN WITH INSERT HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 9'-0' < TO < 11'-0'.

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS < 9'-0'.



SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 12'-0" 16 SCALE: NTS



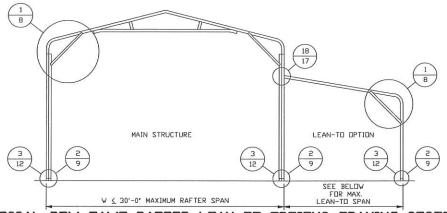
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0" 17 SCALE: NTS

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## **BOW EAVE RAFTER LEAN-TO OPTIONS**



### TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS

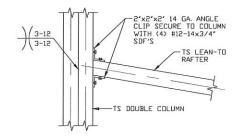
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0'.

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

MAXIMUM DOUBLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 11'-0' < TO < 16'-0'.

MAXIMUM SINGLE COLUMN WITH INSERT HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 9'-0' < TO < 11'-0'.

MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 9'-0' < TO < 11'-0'.



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

18

**Validity Notice** 

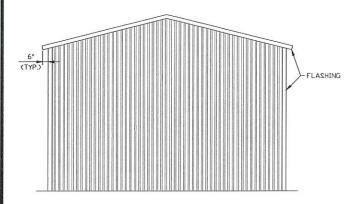
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CLIENT: FGMR	SHT. 17	DVG. ND SK-3 RE		REV. 1			
PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JOB N	D 23184S			
CHECKED BY: AM		PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG	100,001,000,000,000,000	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD					

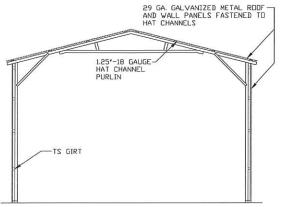
## BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



# TYPICAL END ELEVATION VERTICAL ROOF/SIDING

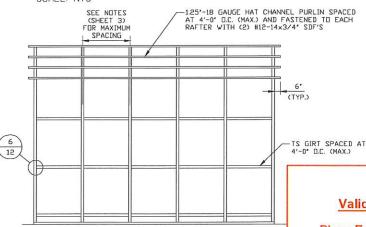
SCALE: NTS

NOTE: HORIZONTAL ROOF ONLY APPLICABLE TO GROUND SNOW LOADS & 30 PSF.



# TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

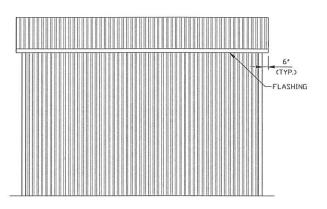
SCALE: NTS



# TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

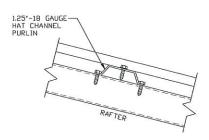
NOTE: HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TS WALL GIRTS. HAT CHANNELS MUST BE SPACED AT 4'-0" D.C. MAX.



# TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

NOTE: HORIZONTAL ROOF ONLY APPLICABLE TO GROUND SNOW LOADS < 30 PSF.



## PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

Validity Notice

Plans Expiration Date:

1 March 2025

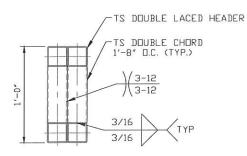
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

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PROJECT MGR: JRP	DATE: 2-29-24 SHT. 18	SCALE: NTS	_	D 23184S REV. 1		
CHECKED BY: AM	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE					
DRAWN BY: JG						

## SIDE WALL HEADER OPTIONS

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



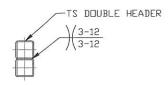
DOUBLE LACED HEADER DETAIL FOR DOOR OPENINGS 15'-0" < LENGTH \( \leq \) 16'-0" WIDE SCALE: NTS

TS CHORD
1'-8" D.C. (TYP.)
3/16
3/16
TYP

LACED HEADER DETAIL FOR DOOR

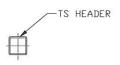
OPENINGS 9'-0" < LENGTH \( \) 15'-0" WIDE

SCALE: NTS



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 6'-0" < LENGTH < 9'-0" WIDE

SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH < 6'-0" WIDE SCALE: NTS

Validity Notice

Plans Expiration Date:

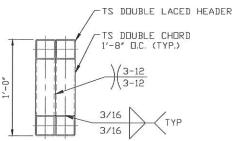
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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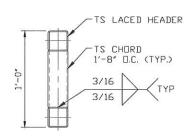
CLIENT: FGMB	SHT. 19	DVG. ND SK	-3	REV. 1				
PROJECT MGR: JRP	DATE: 2-29-24	SCALE: NTS	JEB N	D 23184S				
CHECKED BY: AM		FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD PILOT MOUNTAIN, NC 27041 30'-0"x16'-0" ENCLOSED STRUCTURE						
DRAWN BY: JG	FIRST GEN							

## END WALL HEADER OPTIONS

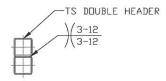
NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



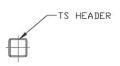




LACED HEADER DETAIL FOR DOOR OPENINGS 11'-0" < LENGTH < 12'-0" WIDE SCALE: NTS



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 8'-0" < LENGTH < 11'-0" WIDE SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH & 8'-0" WIDE SCALE: NTS

Validity Notice

SCALE: NTS

Plans Expiration Date:

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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	DRAWN BY: JG	FIRST GEN	FIRST GENERATION METAL BUILDINGS, LLC 790 LONG HILL ROAD							