



STRUCTURAL DESIGN STANDARD PACKAGE ENCLOSED BUILDING

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

7 January 2020 Revision 0 M&A Project No. 19294S

Prepared for:

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Prepared by:

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BYI JG		484 NW TURNER AVENUE		
	CHECKED BY: PDH	LAKE CITY, FLORIDA 32055 30-0"x20'-0" SP ENCLOSED STRUCTURE			
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INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' VIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (FBC) 6TH EDITION, 2015 IBC, AND 2012 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD

= 1.5 PSF

B) LIVE LOAD

- = 12 PSF
- C) GROUND SNOW LOAD = 10 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. LOW ULTIMATE WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH): MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. HIGH ULTIMATE WIND SPEED (HW) 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH); MAXIMUM RAFTER/POST AND END COLUMN SPACING = 4.0 FEET.
- 6. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2' x 2 1/2' - 14 GAUGE IS SPECIFIED, TS 2 1/4' x 2 1/4' - 12 GAUGE MAY BE USED AS AN OPTION.
- 10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10' O.C. (MAX.) FOR LOW WIND AND 6' D.C. (MAX.) FOR HIGH WIND.
- 11. FASTENERS CONSIST OF #12-14x3/4' SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 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, ROOFING WITH SLOPES LESS THAN 3/12 MUST BE LAP SEALANT.
- 12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES,
- 13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND ARE APPLICABLE ONLY IN MEDIUM TO STIFF SOILS (SUITABLE SOILS). HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. STANDARD GROUND ANCHORS ARE ONLY ALLOWED FOR LOW WIND APPLICATIONS.
- 14. WIND FORCES GOVERN OVER SEISMIC FORCES, SEISMIC PARAMETERS ANALYZED ARE SUIL SITE CLASS = D RISK CATEGORY I

R= 3.25

I_E≈ 1.0

Sps= 2.039

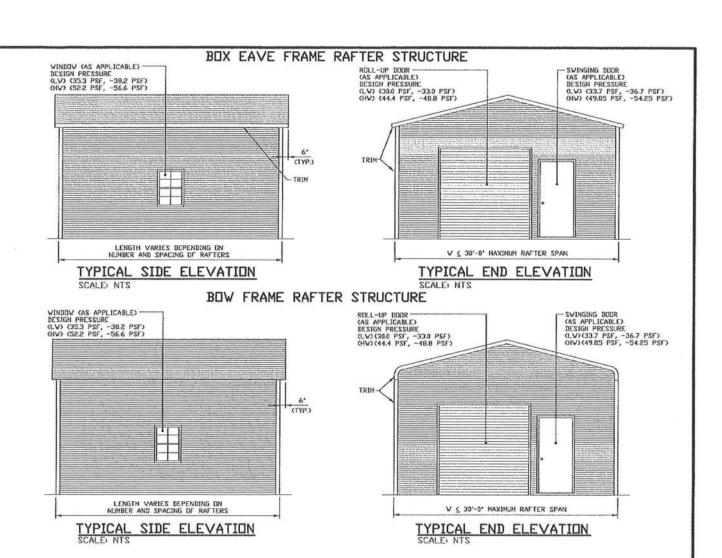
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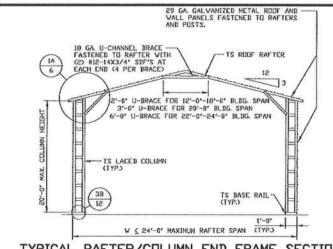
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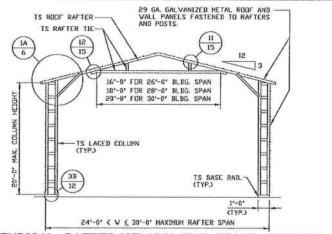
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RAFTER/COLUMN END FRAME SECTION TYPICAL

29 GA. GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. 18 GA. U-CHANNEL BRACE — FASTENED TO RAFTER WITH (2) #12-14X3/4' SDF'S AT EACH END (4 PER BRACE) TS ROOF RAFTER 6A 12 3 2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG. SPAN 3'-0' U-BRACE FOR 20'-0' BLDG. SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG. SPAN COLUMN TS DOUBLE COLUMN MAX. CALLY CALL St W ≤ 24'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



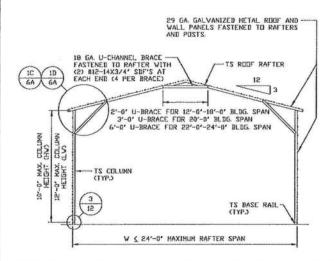
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS 29 GA. GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. TS ROOF RAFTER TS RAFTER TIE 11 15 15 6A 12 13 16'-0' FOR 26'-0' BLDG. SPAN 18'-0' FOR 28'-0' BLDG. SPAN 20'-0' FOR 30'-0' BLDG. SPAN COLUMN TS DOUBLE COLUMN MAX. 16'-0" 3A TS BASE RAIL-24'-0' (W ≤ 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

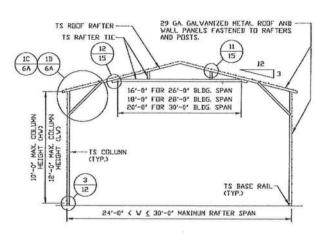
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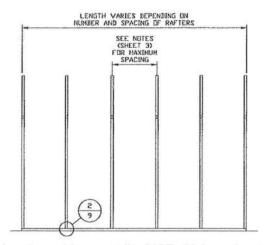
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TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE, NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS

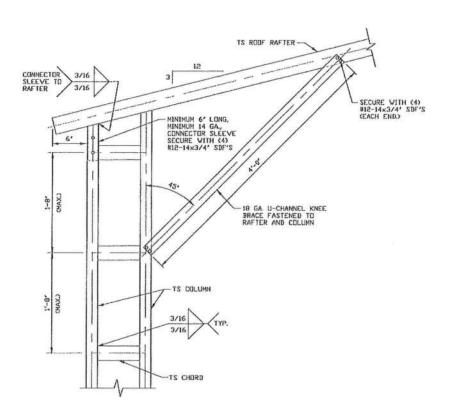


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

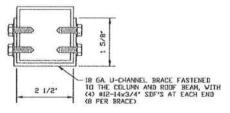
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BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0" < TO < 20'-0"

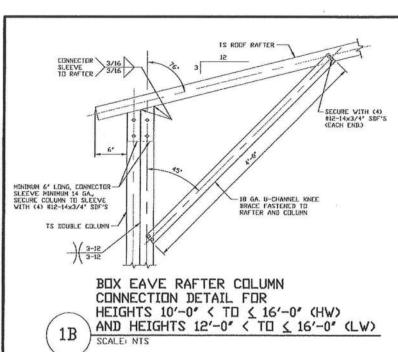


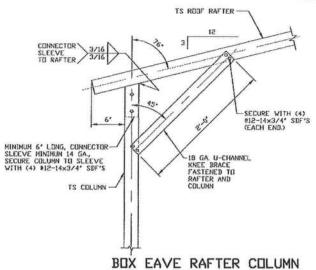
BRACE SECTION
SCALE: NTS

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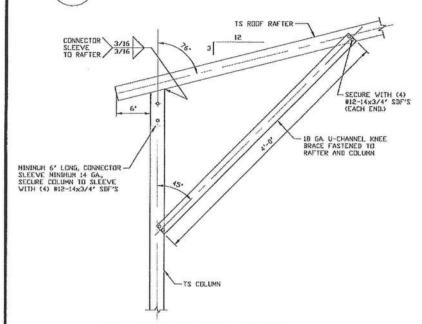


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 8'-0' (HW),

AND HEIGHTS & 10'-0' (LW)

18 GA. U-CHANNEL BRACE FASTENED
10 THE COLUMN AND ROOF BEAM, WITH
(4) 912-14x3/4" SBF'S AT EACH ENB
(8) PER BRACE)

BRACE SECTION SCALE: NTS



BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS 8'-0" < TO < 10'-0" (HW)

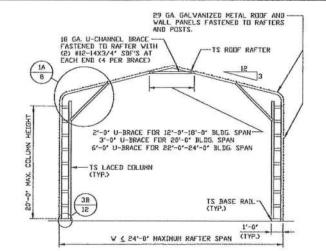
AND HEIGHTS 10'-0" < TO < 12'-0" (LW)

SCALE: NTS

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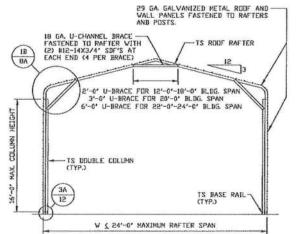
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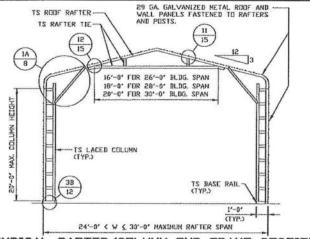


TYPICAL RAFTER/COLUMN END FRAME SECTION

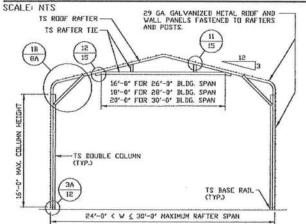
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TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

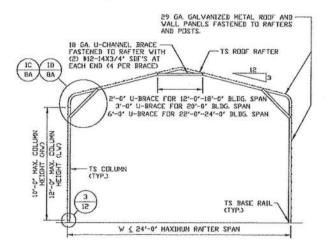


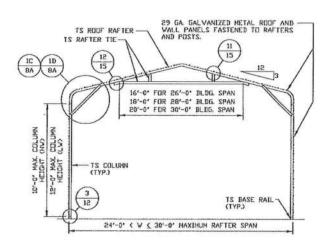
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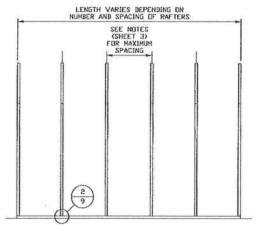




TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS

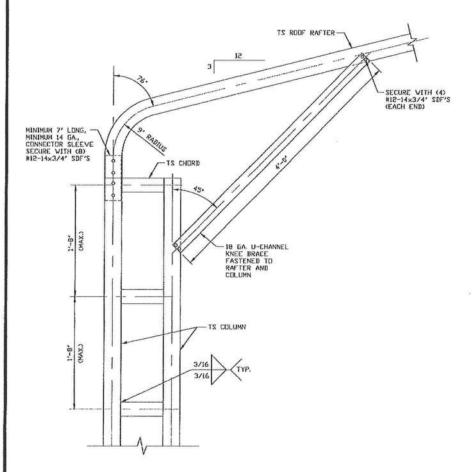


TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

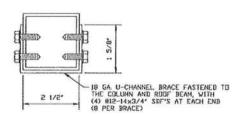
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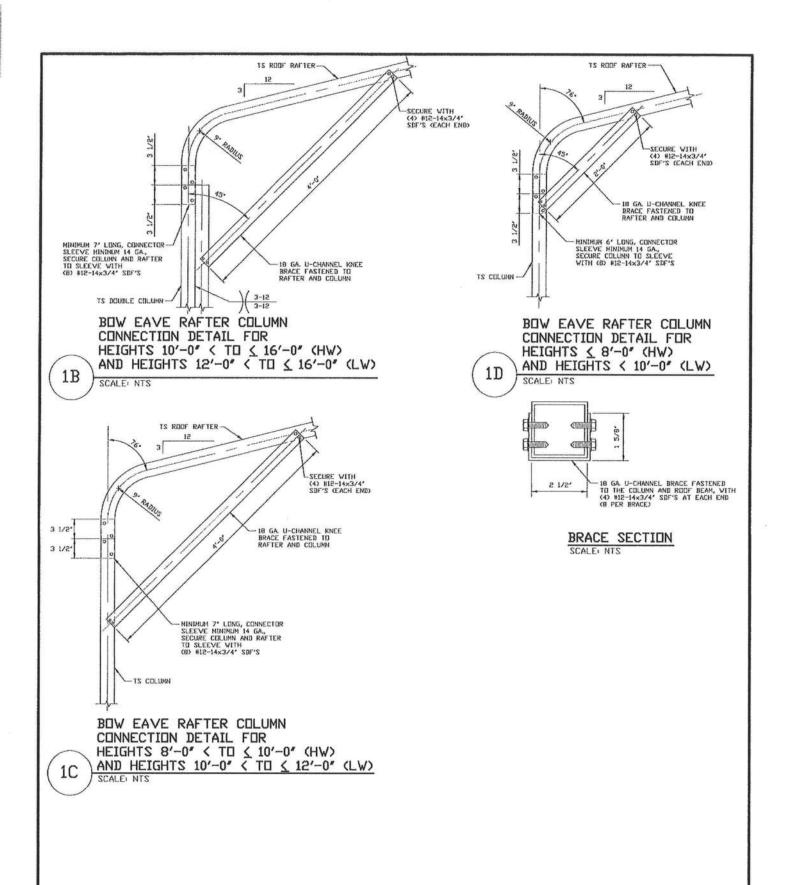


BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0" < TO \(\leq 20'-0" \)



BRACE SECTION
SCALE: NTS

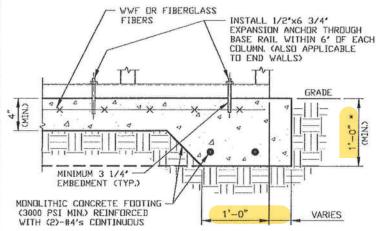
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BEST METAL BUILDINGS, LLC

BASE RAIL ANCHORAGE OPTIONS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE 24 MINIMUM ANCHOR EDGE DISTANCE IS 4'.

> * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NUTE: CONCRETE MONULITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

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 AGIS GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

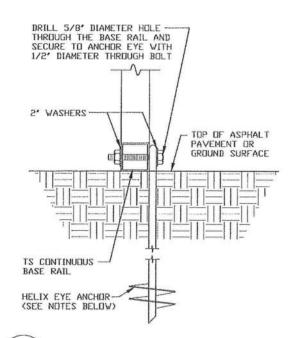
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED

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.

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
- 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.
- 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 LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



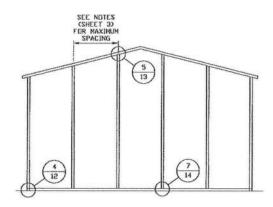
GROUND BASE HELIX ANCHORAGE 2B (CAN BE USED FOR ASPHALT)

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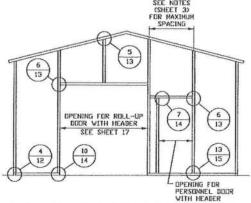
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



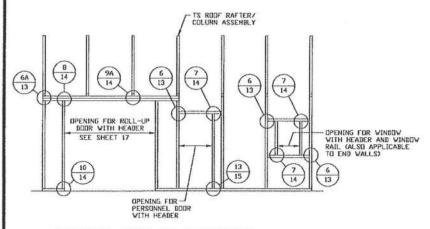
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

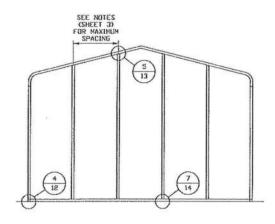


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

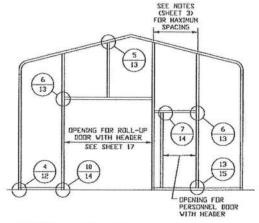
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PDH	BEST METAL BUILDINGS, L 484 NW TURNER AVENUI LAKE CITY, FLORIDA 320: 30-0"x20"-0" SP ENCLOSED STRU		JE 055	
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



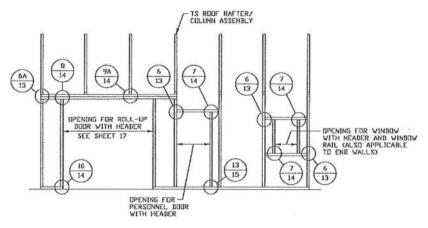
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

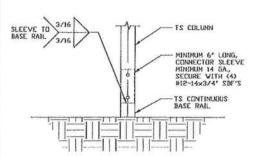
SCALE: NTS

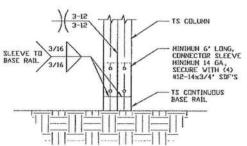


TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

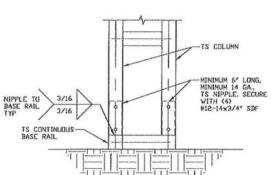
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: JG CHECKED BY: PDH	BEST METAL BUILDINGS 484 NW TURNER A VEN LAKE CITY, FLORIDA 32 30-0"x20'-0" SP ENCLOSED STF			NÚE 2055
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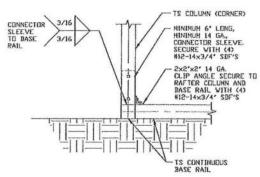




RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

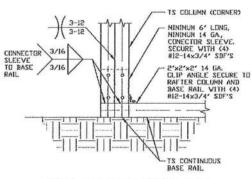
RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS





3B COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

4 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



4A CONNECTION DETAIL

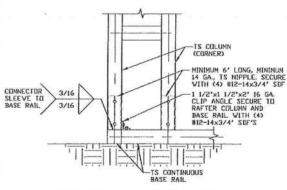
SCALE NTS

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H	ENGINEERING AND CONSULTING,	INC.

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CHECKED BY: PDH		AKE CITY, FLOI 0'-0" SP ENCLOS		
PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND 19294S
CLIENT: BMB	SHT. 12	DVG. NO SK-	3	REV. 0

5



TS ROOF RAFTER-2'x2'X2' 14 GA. ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 DN TOP AND 2 ON SIDE TS END COLUMN

> END COLUMN/RAFTER CONNECTION DETAIL

END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

TS COLUMN OR END COLUMN 2'x2'x2' 14 GA. ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER, DR BOTTOM OF VINDOW RAIL WITH #12-14x3/4' SDF'S TS HEADER OR WINDOW RAIL

4B

6

3/16 TS ROOF RAFTER 3/16 7" TS COLUMN HIS-14×3/4' SDF'S
HIS-14×3/4' SDF'S 3/16 CONNECTOR SLEEVE TO HEADER 3/16 TS COLUMN TS HEADER OR WINDOW RAIL

SCALE: NTS

COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL

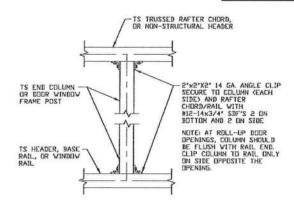
SCALE: NTS

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

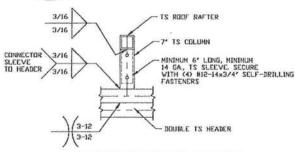
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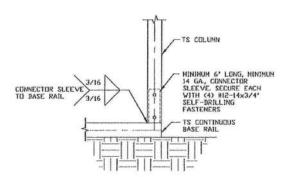
DRAWN BY: JG	- 4	ST METAL BUIL 84 NW TURNER AKE CITY, FLOI	RIDA 3	NÚE 2055
CHECKED BY: PDH	30-0"x20	0'-0" SP ENCLOS	ED ST	RUCTURE
PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS		ND: 19294S
PROJECT MGR: WSM CLIENT: BMB	DATE: 1-7-20 SHT, 13	DWG, NO SK-		ND: 19



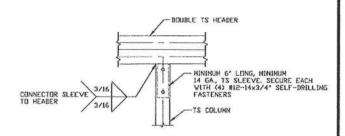
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL SCALE NTS



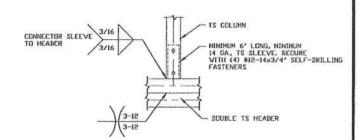
9A COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



10 COLUMN/BASE RAIL CONNECTION DETAIL SCALE; NTS



8 DOUBLE HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS

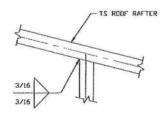


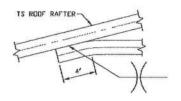
9B COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

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DRAWN BY: JG		ST METAL BUIL 184 NW TURNER		
CHECKED BY: PDH	L.	AKE CITY, FLO 0'-0" SP ENCLOS	RIDA 3	2055
PREIJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND: 19294S
CLIENT: BMB	SHT. 14	DWG NO SK-	.3	REVa 0





RAFTER TO CHORD CONNECTION DETAIL SCALE NTS

12 COLLAR TIE CONNECTION DETAIL

TS TRUSSED RAFTER CHORD,
OR NON-STRUCTURAL HEADER

TS END COLUMN
OR BOOK VINDOV
FRAME POST

MINIMUM 6' LDNG, MINIMUM
14 GA, CONNECTOR
SLEEVE, SECURE EACH
VITH (4) 812-14x3/4'
SELF-DRILLING
FASTENERS

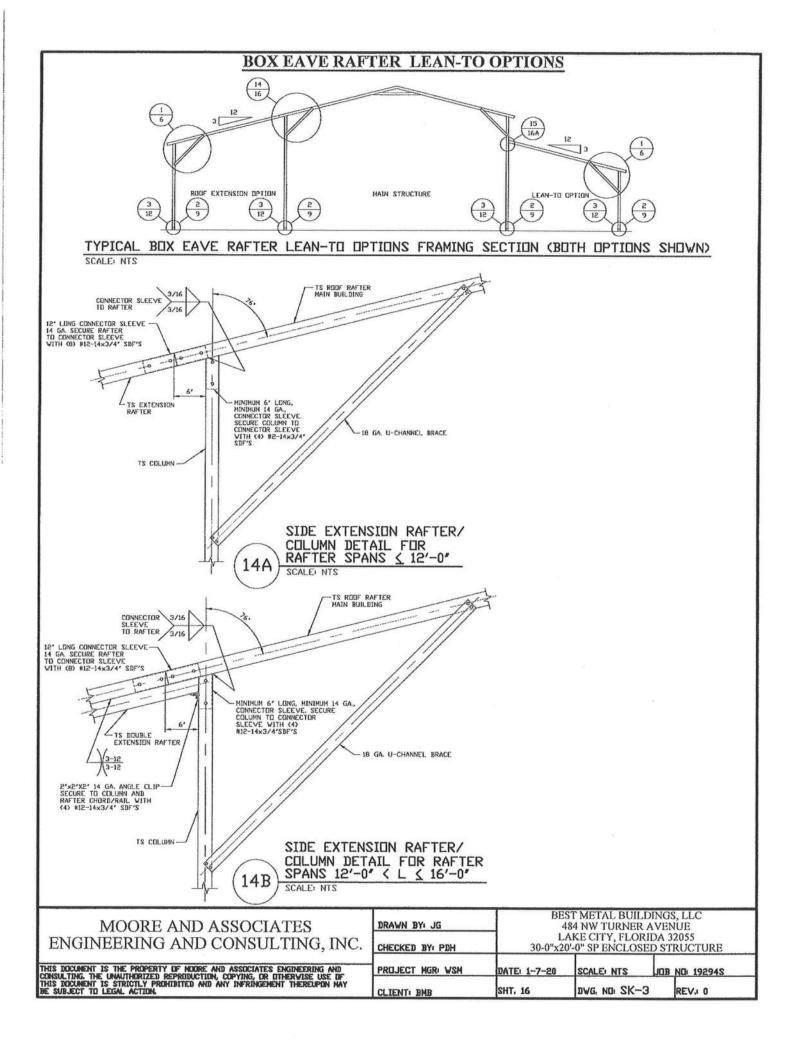
COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

13) SCALE: NTS

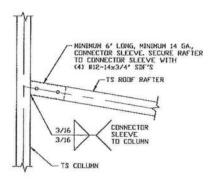
TIMO N	VIOLENCE CO.	** ****	DOODSTA	ne Unem	* ALTO	ADORIOTATEO	CAVORACCORNO	ANTO
EN						SSOCI <i>I</i> ONSUI	TING,	INC.
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Consulting the unauthorized reproduction, copying, or othervise use of this document is strictly prohibited and any infringement thereupon may	T 2THT	NOCH MEN	THE 21 1	PROPERT	A DE MUCE	DE, WALL	ACCITCTATE	S ENGIN	FERING AND
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CHECKED BY: PDH		AKE CITY, FLO 0'-0" SP ENCLOS		
DRAWN BY: JG	4	ST METAL BUIL 184 NW TURNER	AVEN	NUE



BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0'

LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0" < TO \(\) 16'-0"

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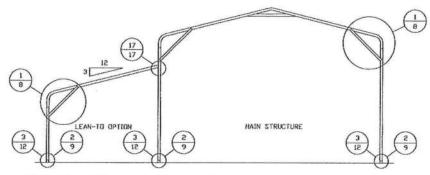
484 NW TURNER AVENUE
LAKE CITY, FLORIDA 32055
30-0"x20'-0" SP ENCLOSED STRUCTURE

1-7-20 SCALE NTS JUB NO 19294S

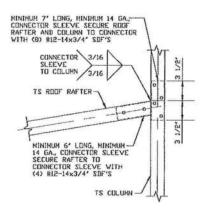
BEST METAL BUILDINGS, LLC

CLIENTI BMB SHT. 16A DWG. NO. SK-3 REV. 0

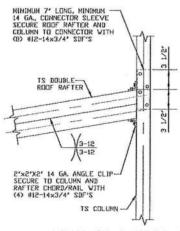
BOW EAVE RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION SCALE: NTS



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS & 12'-0'
SCALE NTS



17B

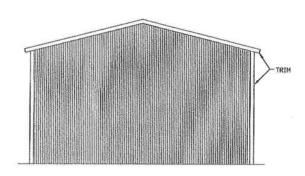
LEAN-TO RAFTER TO
RAFTER COLUMN CONNECTION
DETAIL FOR RAFTER
SPANS 12'-0' < TO < 16'-0"
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

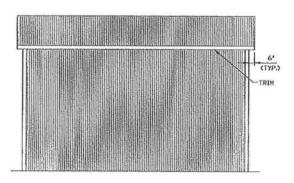
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	DRAWN BY: JG CHECKED BY: PDH	- L	ST METAL BUIL 184 NW TURNER AKE CITY, FLOI 0'-0" SP ENCLOS	RIDA 3	NÚE 2055	
_	PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	JOB	ND: 19294S	
	CLIENT: BMB	SHT. 17	DWG, NO SK-	3	REVA 0	

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

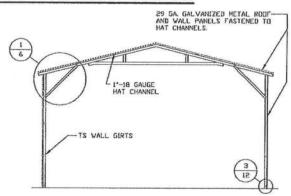
1'-18 GAUGE HAT CHANNEL SPACED NOT MORE THAN
4'-0' D.C. AND FASTENED TO EACH RAFTER WITH
(2) HIZ-L4X3/4' SDF'S

IS VALL GIRT SPACED AT 4'-0'
(MAX.) D.C. FASTENED TO EACH
COLUMN WITH (2) BIZ-L4X3/4' SDF'S

SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

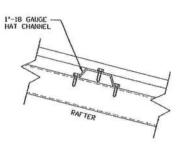
6'
(TYP.)

TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE NTS



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

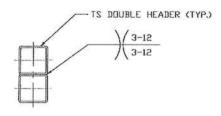
SCALE: NTS



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

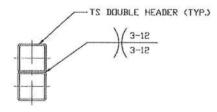
MOORE AND ASSOCIATES	DRAWN BY: JG	48	T METAL BUILDING HAVE CITY FLORIDA	ENUE
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		KE CITY, FLORIDA '-0" SP ENCLOSED S	
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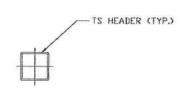
SIDE WALL HEADER OPTION



HEADER DETAIL FOR LENGTHS & 16'-0"

END WALL HEADER OPTIONS





HEADER DETAIL FOR LENGTHS 14'-0" < TO < 16'-0"

HEADER DETAIL FOR LENGTHS

≤ 14'-0"

SCALE: NTS

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ENGINEERING AND CONSULTING, IN	IC.

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PINTE	TYTICA SVETA	9T TL	STRI	OTI V POR	utbr	TET ANT	ANV	TAKEDTAKE	CHEN	T THEREUP	VAM LUTH
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-	PROJECT MGR: WSM	DATE: 1-7-20	SCALE: NTS	ND.B	ND: 19294S	
			T	T		
	CHECKED BY: PDH		AKE CITY, FLO 0'-0" SP ENCLOS			
	DRAWN BY: JG		ST METAL BUII 184 NW TURNEF			