

STRUCTURAL DESIGN

ENCLOSED BUILDING EXPOSURE B

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

29 July 2021 Revision 6 M&A Project No. 16022S/17300S/20352S

Prepared for:

Tubular Building Systems, LLC 631 SE Industrial Circle Lake City, Florida 32025

Prepared by:

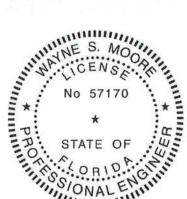
Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

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

Wayne S Moore Date: 2022.09.12

Digitally signed by Wayne S Moore 15:03:17 -04'00'





Reviewed

File Cop

Code

Complianc

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

					mum,	
				* PROMINIMA	NO 571	100 A
				— IIIII	STATE OR IS	OF WENTER
				sealed using a Printed consid	em has been electroni by Wayne S. Moore, a Digital Signature and d copies of this docume ered signed and seale ure must be verified o	PE. d date. nent are not d and the
MOORE AND AS ENGINEERING AND C	SSOCIATES ONSULTING INC		I BY: JG ED BY: PDH	TUBU 30'-0"x20'-0	JLAR BUILDING "ENCLOSED BU	JILDING EXP. B
HIS DOCUMENT IS THE PROPERTY OF MODRE A DISJULTING. THE UMBUTHORIZED REPRODUCTION NES DOCUMENT IS STREETLY PROHIBITED AND E SUBJECT TO LEGAL ACTION.		Edul 3	CT MGR: WSM	THE REAL PROPERTY.	SCALE: NTS	JOB ND 16022S/ 17300S/20352S

DRAWING INDEX

SHEET 1	PE SEAL COVER SHEET
SHECT 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET 4	TYPICAL SIDE AND END ELEVATIONS
SHEET 5	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 5A	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 5B	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET 6	TYPICAL RAFTER COLUMN CONNECTION DETAILS (LACED COLUMN)
SHEET 6A	TYPICAL RAFTER CHLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 68	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 7	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET 7A	TYPICAL RAFTER COLUMN END AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET 8	TYPICAL RAFTER COLUMN CONNECTION DETAILS (DOUBLE COLUMN)
SHEET 84	TYPICAL RAFTER COLUMN CONNECTION DETAILS (SINGLE COLUMN)
SHEET 9	
SHEET 94	BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED
SHEET 9B	DPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED BASE RAIL ANCHORAGE OPTION
SHEET 9C	BASE RAIL ANCHORAGE OPTIONS
SHEET 10	
SHEET 11	BUX EAVE RAFTER END WALL AND SIDE WALL OPENINGS
SHEET 12	BCW RAFTER END WALL AND SIDE WALL OPENINGS
	CONNECTION DETAILS
SHEET 13	CONNECTION DETAILS
SHEET 14	2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SHEET 14A	BOX EAVE RAFTER LEAN-TO OPTIONS
SHEET 15	BOW RAFTER LEAN-TO OPTIONS
SHEET 16	VERTICAL ROOF/SIDING OPTION
SHEET 17	OPTIONAL DOOR HEADER
SHEET 18	VERTICAL ROOF/SIDING OPTION OPTIONAL DOOR HEADER FLOOD VENT DETAIL STAND-ALONE STEM WALL DETAIL VERTICAL SLIDING WINDOW DETAIL STRIP FOOTING OPTION
SHEET 19	STAND-ALONE STEM WALL DETAIL . No 57170
SHEET SO	VERTICAL SLIDING WINDOW DETAIL *: *
SHEET 21	STRIP FOOTING OPTION * :



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	J.

THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CLIENT: TBS	SHT, 2	DVG. NO: SK-3	REV. 6	
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JOB NO 16022 17300S/203525	
CHECKED BY: PDH		KE CITY, FLOR O" ENCLOSED B		В
DRAWN BY: JG	63	I SE INDUSTRIA	L CIRCLE	

INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR A MAXIMUM 30'-0' WIDE x 20'-0' EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2012 INTERNATIONAL BUILDING CODE (IBC) 2015 IBC. AND 2018 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LUAD

= 15 PSF = 12 PSF

B) LIVE LOAD

- C) GROUND SNOW LOAD = 10 PSF
- 4 LOW ULTIMATE WIND SPEED 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH): MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET
- 5 HIGH ULTIMATE WIND SPEED 141 TO 170 MPH (NOMINAL WIND SPEED 109 TO 132 MPH). MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET
- END WALL COLUMNS (POSTS) AND SIDE WALL COLUMNS ARE EQUIVALENT IN SIZE AND SPACING KUNLESS NOTED DIHERWISE)
- 7 RISK CATEGORY I
- 8 WIND EXPOSURE CATEGORY B
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR VERTICAL PANELS. 29 GAUGE METAL PANELS SHALL BE FASTENED TO 18 GAUGE HAT CHANNELS (UNLESS OTHERWISE NOTED)
- 10 AVERAGE FASTENER SPACING DN-CENTERS ALDNG RAFTERS DR PURLINS AND POSTS INTERIOR = 9° UR END = 6° (MAX)
- 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 ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF JOINT SEALANT
- 12 STANDARD ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 5' DE EACH COLUMN
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF 44 REBAR W/WELDED NUT x 30° LONG IN SUITABLE SOIL CONDITIONS MAY BE USED FOR LOW (C 108 MPH NOMINAL) WIND SPEEDS ONLY OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE

C = 22AJC 3TIZ JID2 RISK CATEGORY I

R= 325

I== 10

Sps= 1522 g

V= 25W

Spt= 3839 9

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: JG CHECKED BY: PDH

TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B

PROJECT MGRI WSM CLIENT: TBS

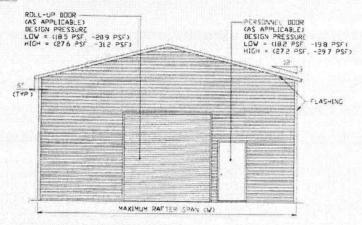
DATE: 7-29-21 SCALE: NTS JUB NO: 160225/ 173005/203525

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRIDUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

SHT. 3 DWG, NO SK-3

REV. 6

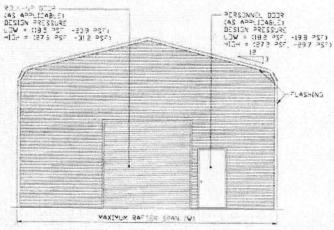
BOX EAVE FRAME RAFTER ENCLOSED BUILDING



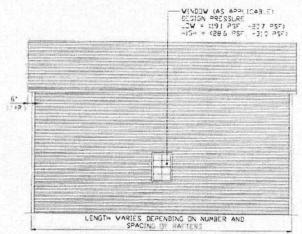
TYPICAL END ELEVATION

SCALE: NTS

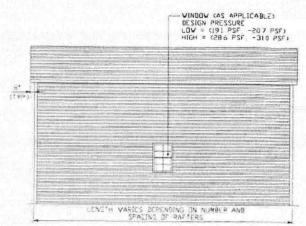
BOW FRAME RAFTER ENCLOSED BUILDING



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION



TYPICAL SIDE ELEVATION

SCALE VES



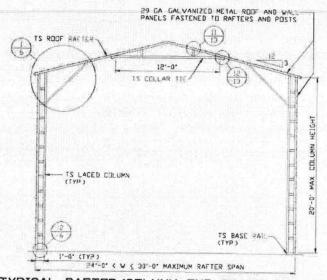
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

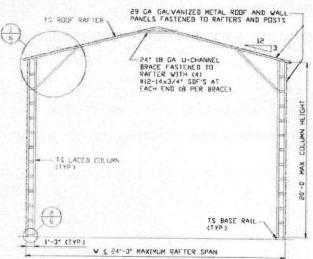
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF HOORE AND ASSOCIATES ENGINEERING AND	,
OFFICE TIME THE INITIAL PROPERTY OF THE PROPER	
CONSULTING THE UNMUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE O	F
THIS BOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON IN	AV
BE CITE FOR AN I DOME TO SHARE THE PARTY OF THE PARTY OF THE PROPERTY OF THE PARTY	41
BE SUBJECT TO LEGAL ACTION	

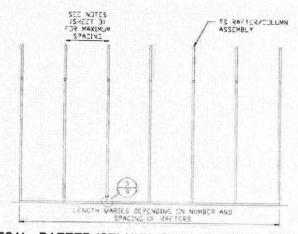
DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE			
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525
CLIENT: TBS	SHT. 4	DWG. ND: SK-3		REV. 6



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



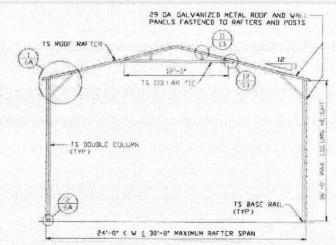
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



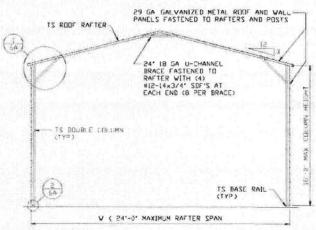
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DICLIMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGIN CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHER	STORY LADOR PRO
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THE	EREUPON MAY

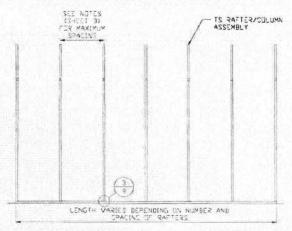
DRAWN BY: JG CHECKED BY: PDH	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		B ND: 160225/ 8005/203525
CLIENT: TBS	SHT. 5	DWG. NO SK-3		REV. 6



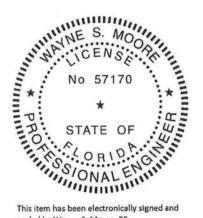
TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



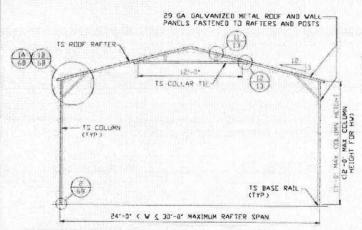
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



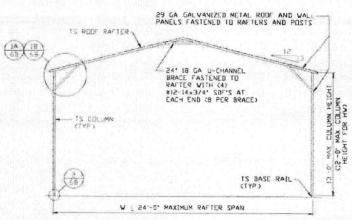
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DOCUMENT IS THE PROPERTY OF MOD	BE AND ASSICIATES ENGINEEDING AND
CONSULTING THE UNAUTHORIZED REPRODU	CHIMA CONTINUE OR CHIMENATER OFF TH
THIS DOCUMENT IS STRICTLY PROHIBITED	AND ANY INFRINGEMENT THEREUPEN MAY
BE SUBJECT TO LEGAL ACTION.	

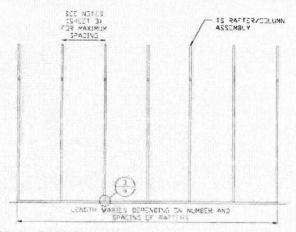
DRAWN BYI JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B			
CHECKED BY: PDH				
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND 160225/ 005/203525
CLIENT: TBS	SHT. 5A	DVG. ND: SK-3		REV. 6



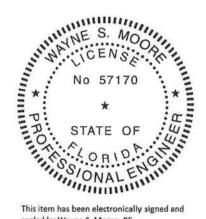
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



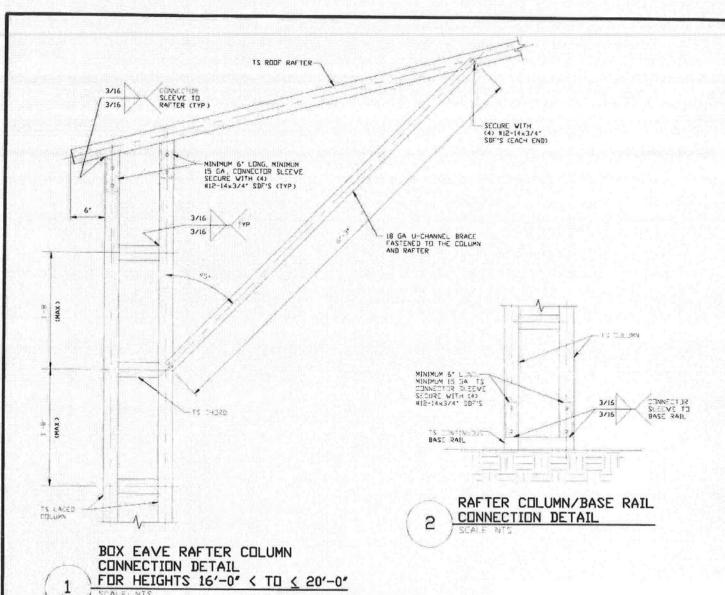
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

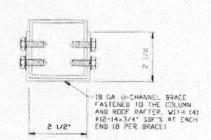


MOORE AND ASSOCIATES
1
ENGINEERING AND CONSULTING, INC.

THIS BOCUMENT IS THE PROPERTY OF HOURE AND ASSOCIATES EX	GINEERING AND
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTH	ERVISE USE OF
THIS DUCLMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT BE SUBJECT TO LEGAL ACTION.	THEREUPON MAY

DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE					
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B					
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525		
CLIENT: TBS	SHT. 5B	DWG. NO SK-3		REV. 6		



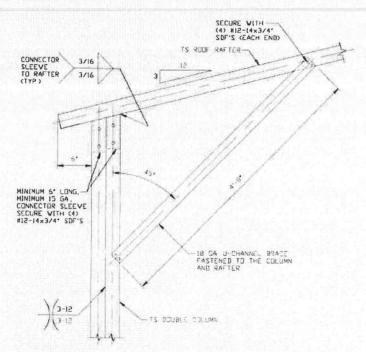


BRACE SECTION
SCALE: NTS



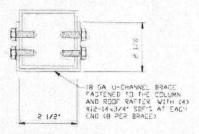
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	DRAWN BY: JG		ULAR BUILDING I SE INDUSTRIA	
ENGINEERING AND CONSULTING, INC. THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF	CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B		
	PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JOB NO 16022S/ 17300S/20352S
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 6	DVG. NO: SK-3	REV. 6



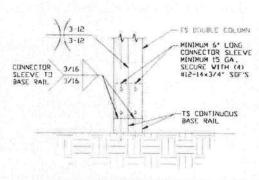
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

NOTE COLUMN HEIGHTS 12'-3' < TO < 15'-3" FOR HIGH WIND



BRACE SECTION

1



2 RAFTER COLUMN/BASE RAIL
2 CONNECTION DETAIL
SCALE NTS



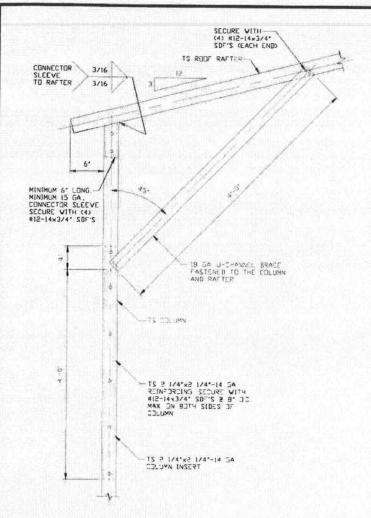
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODIFIE AND ASSICIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROMINETED AND ANY DIFFINGEMENT THERSUPON MAY BE SUBJECT TO LOGAL ACTION.

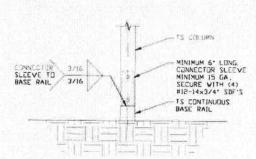
CLIENT: TBS	SHT. 6A	DWG. NO SK-3		REV. 6		
PROJECT MGR: WSN	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525		
CHECKED BY: PDH		KE CITY, FLOF 0" ENCLOSED I				
DRAWN BYI JG	631 SE INDUSTRIAL CIRCLE					



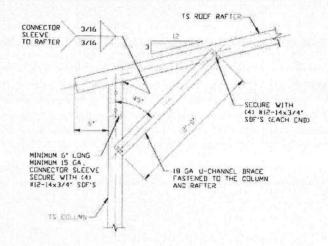
BOX EAVE RAFTER COLUMN CONNECTION DETAIL

FOR HEIGHTS 10'-0" < TO < 13'-0"

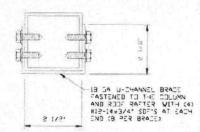
SCALE MAXIMUM COLUMN HEIGHT IS 12'-0' FOR HIGH WIND



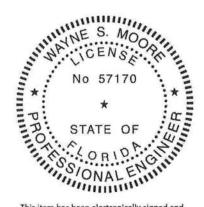
2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NIS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0"



BRACE SECTION



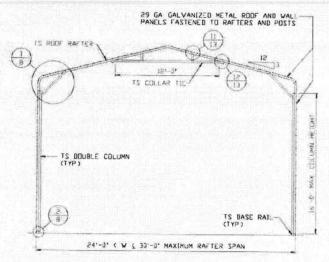
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROMOBITED AND ANY DIFFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CLIENT: TBS	SHT. 6B	DWG. NO SK-3		REV. 6		
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/		
CHECKED BY: PDH		LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
DRAWN BY: JG	63	631 SE INDUSTRIAL CIRCLE				



TYPICAL RAFTER/COLUMN END FRAME SECTION

29 GA GALVANIZED METAL ROOF AND VALL
PANELS FASTENED TO RAFTERS AND POSTS

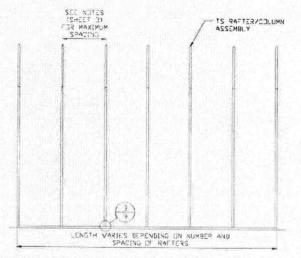
24' 18 GA U-CHANNEL
BRACE FASTENED TO
RAFTER VITH (4)
HIZ-14x3/4' SDF'S AT
EACH END (8 PER BRACE)

TS BOUBLE COLUMN
(TYP)

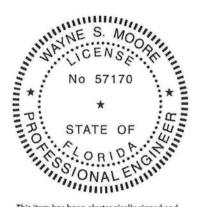
TS BASE BAIL
(1YP)

V (24'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

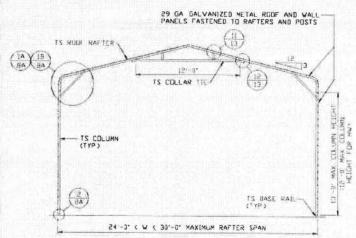


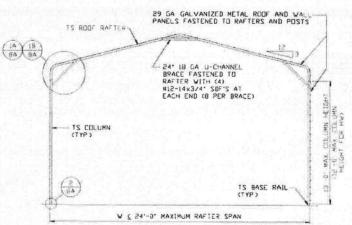
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DUCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	THIS DOCUMENT IS THE PROPERTY OF NOBRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY DIFRINGEMENT THEREUPON NAT BY SUBJECT TO LEGAL ACTION.	r
---	---	---

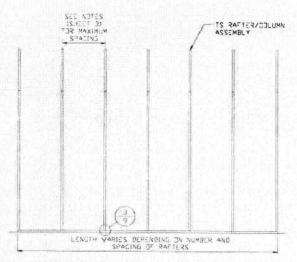
DRAWN BY: JG		TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
CHECKED BY: PDH						
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 00S/20352S		
CLIENT: TBS	SHT. 7	DWG. NO SK-3		REV. 6		



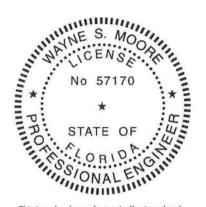


TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION



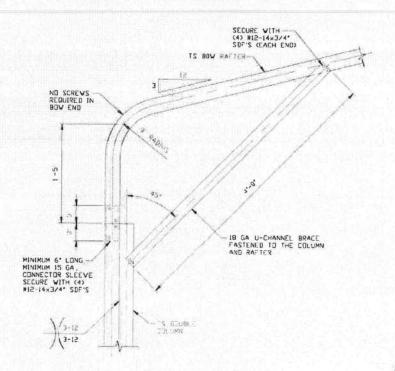
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

THIS DOCUMENT IS THE PROPERTY OF MOURE AND ASSOCIATES ENGINEERING AND	۱
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	
THE DESIGNATION OF THE COMMUNICATION OF THE PROPERTY OF THE PR	
THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY	
BE SUBJECT TO LEGAL ACTION.	

DRAWN BY: JG	63	631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025				
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP					
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JUB ND 160225/ 173005/203525			
CLIENT: TBS	SHT. 7A	DWG, ND: SK-3	REV. 6			



3-12

3-12

MINIMUM 6' LONG,
CONNECTOR SLEEVE
MINIMUM 15 GA,
SECURE WITH (4)
812-14×3/4' SDF'S

TS CONTINUOUS
BASE RAIL

TS CONTINUOUS

RAFTER COLUMN/BASE RAIL

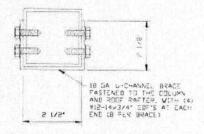
CONNECTION DETAIL

2

BOX EAVE RAFTER COLUMN
CONNECTION DETAIL

1 FOR HEIGHTS 13'-0" < TO < 16'-0"

NOTE COLUMN HEIZHIZ 15.-0, < LO K 12.-0, EUS HIZH MIND



BRACE SECTION



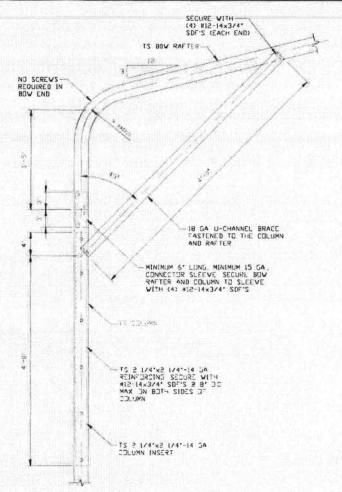
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

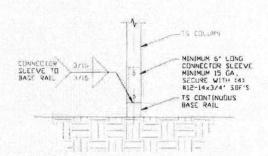
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSICIATES ENGINEERING AND CONSULTING. THE UMAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BY SUBJECT TO LEGAL ACTION.

DRAWN BY: JG		ULAR BUILDIN I SE INDUSTRIA		
CHECKED BY: PDH		AKE CITY, FLOR -0" ENCLOSED I		
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	ND: 160225/ 005/203525	_
CLIENT: TBS	знт. в	DWG. NO SK-3	REV. 6	



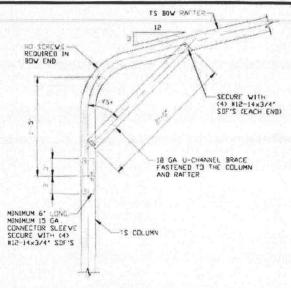
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO < 13'-0"

NETTE MAXIMUM COLUMN HEIGHT IS 12'-0' FOR HIGH WIND

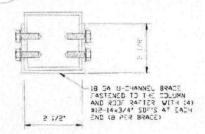


1A

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

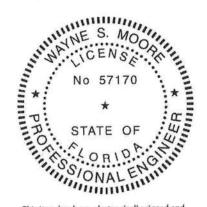


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"



BRACE SECTION

1B



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

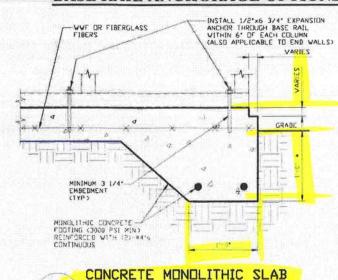
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND COMMULTING, THE UNMUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B DRAWN BY: JG CHECKED BY PDH JOB NO 160225/ PROJECT MGR: WSM DATE: 7-29-21 SCALE: NTS 173005/203525 SHT. BA DWG. NO SK-3 REV. 6

CLIENT: TBS

BASE RAIL ANCHORAGE OPTIONS FOR LOW AND HIGH WIND SPEED



2" WASHERS BRILL 5/8" DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2" DIAMETER THROUGH BOLT TOP OF ASPHALT-PAVEMENT OR GROUND SURFACE Cana TS CONTINUEUS BASE RAIL HELIX EYE ANCHOR-

3B

GROUND BASE HELIX ANCHORAGE

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

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN ON MINIMUM SOIL BEARING CAPACITY OF 1 500 PSF

BASE RAIL ANCHORAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4" COURDINATE WITH LOCAL CODES/ORD REGARDING MINIMUM FROST DEPTH RED

CONCRETE

3A

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 INCHES 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 INCHES 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 BIAMETER 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 FIFE D BENT

HELIX ANCHOR NOTES:

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS COARSE GRAVEL AND COBBLES, CALISHE PRELOADED SILTS AND CLAYS USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 2 FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 3 FOR MEDIUM DENSE CHARSE SANDS, SANDY GRAVELS VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4° HELICES WITH MINIMUM 30 INCH EMBEDMENT
- 4 FOR LOUSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL USE MINIMUM (2) 6' HELICES WITH MINIMUM 50 INCH 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 INCH EMBEDMENT



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

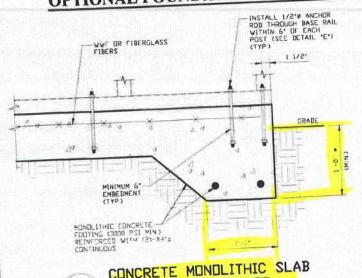
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CURSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: JG	63	ULAR BUILDIN I SE INDUSTRI KE CITY, FLOR	AL CIR	CLE	
CHECKED BY PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PREJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525	
CLIENT: TBS	SHT, 9	DWG. NO: SK-3	The second	REV. 6	

OPTIONAL FOUNDATION ANCHORAGE FOR LOW AND HIGH WIND SPEED



CONCRETE MONOLITHIC SLAB ANCHORAGE BASE RAIL 3C

MINIMUM ANCHOR EDGE DISTANCE IS 1 1/2"
* COORDINATE WITH LOCAL CODES/ORD
REGARDING MINIMUM FROST DEPTH REC

GENERAL NOTES

NOTE CONCRETE MONOLITHIC SLAB DESIGN 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 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND I I/2 INCHES ELSEWHERE

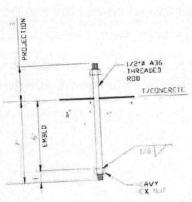
REINFORCING STEEL

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM ALBS 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
REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

BE FIELD BENT



ANCHOR ROD THROUGH BASE RAIL DETAIL

3D

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

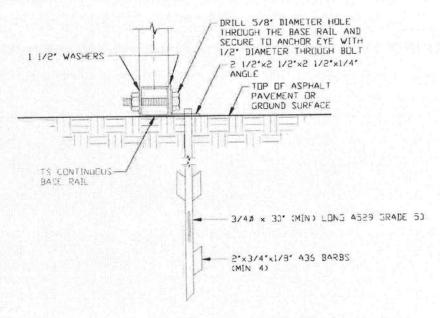
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF NOORE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DATE! / GZ CS	DWG. NO SK-3		REV. 6
DATE: 7-29-21	SCALE: NTS	173	ND: 160225/ 005/203525
631	SE INDUSTRIA	IDA 3 BUILD	2025 ING EXP. B
	63	631 SE INDUSTRIA LAKE CITY, FLOR 30'-0"x20'-0" ENCLOSED I	DATE: 7-29-21 SCALE: NTS 173

BASE RAIL ANCHORAGE OPTION



ASPHALT BASE ANCHORAGE (HP 9 BARBED DRIVE ANCHOR)

COAN BE USED FOR ASPHALT)

** COORDINATE WITH LOCAL CODES/ORD

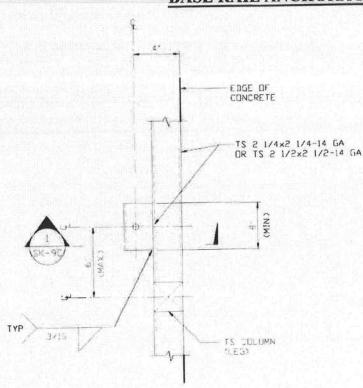
REGARDING MINIMUM FROST DEPTH REG

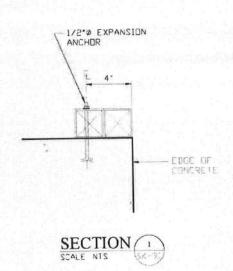


This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EX				
				JUB NO: 16022S/ 17300S/20352S	
CONTRACTOR THE INMITTATION DEPORTS CONTRACTOR OF STREET, SE STREET	PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		
THIS DOCUMENT IS STREETLY PRODUCTED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 9B	DWG. ND: SK-3	REV. 6	

BASE RAIL ANCHORAGE OPTIONS





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

STALE NOS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

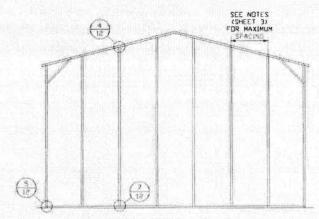
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROMOBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

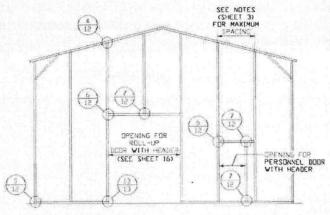
DRAWN BY: JG CHECKED BY: PDH	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS 173 DWG, ND: SK-3		DB ND: 160225/ 73005/203525	
CLIENT: TBS	SHT. 9C			REV. 6	

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



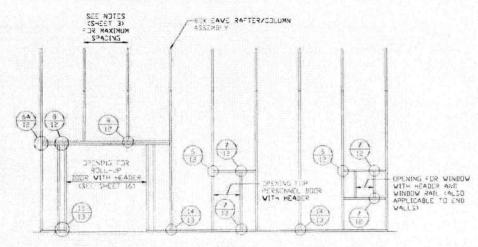
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

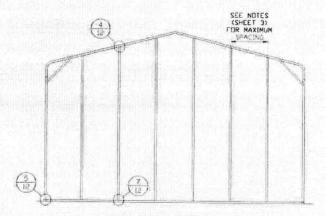
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING,	INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNANTHORIZED REPRODUCTION, COPYING, OR DITHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: JG CHECKED BY: PDH	63 L/	631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JUB ND 16022S/ 17300S/20352S			
CLIENT: TBS	SHT. 10	DVG. ND: SK-3	REV. 6			

BOW RAFTER END WALL AND SIDE WALL OPENINGS

(12)



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

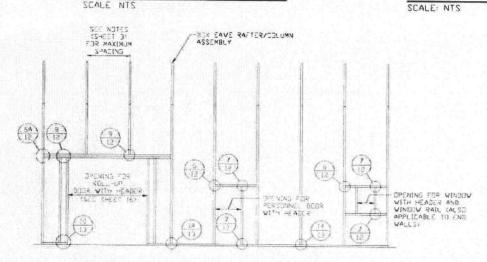
OPENING FOR RULL-UP

D'EN VITH HEADER

(SEE SHEET 16)

SEE NOTES (S TEEHS) FOR MANIMAN

> PERSONNEL DOOR VITH -CALER



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS



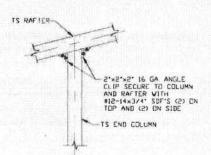
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

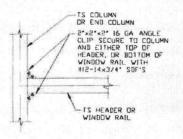
THIS DOCUMENT	IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND
CONSULTING, TH	E UNAUTHERIZED REPRITEICTION, COPYING OR OTHERSAIRE LINE OF
THIS DOCLMENT	IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY
BE SUBJECT TO	LEGAL ACTION

DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				
CHECKED BY: PDH		AKE CITY, FLOR -0" ENCLOSED I	IDA 32025 BUILDING EXP. B		
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB ND: 16022S/ 17300S/20352S		
CLIENT: TBS	SHT. 11	DWG. NO: SK-3	REV. 6		

CONNECTION DETAILS



TS COLUMN (CORNER) MINIMUM 6' LONG, MINIMUM 15 GA TS CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4' SDF'S 2'x2'x2' 16 GA CLIP ANGLE SECURE TO RAFTER COLUMN AND BASE RAIL W/(4) 012-14x3/4' SDF'S SLEEVE TO BASE RAIL 3/16 3/16 TS CONTINUOUS BASE RAIL

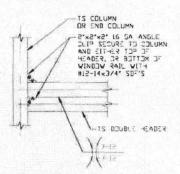


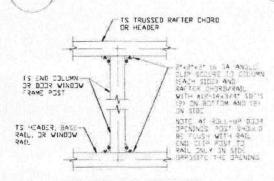
END COLUMN/RAFTER CONNECTION DETAIL

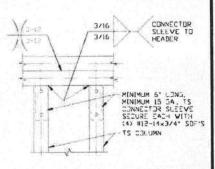
END COLUMN/BASE RAIL CONNECTION DETAIL 5 SCALE: NTS

HEADER OR WINDOW RAIL TO COLUMN CONNECTION DETAIL

6



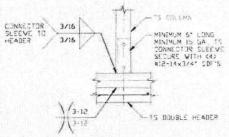




DOUBLE HEADER TO COLUMN CONNECTION DETAIL

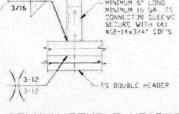
COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL 7 SCALE NTS

DOUBLE HEADER/COLUMN CONNECTION DETAIL 8



6A

9



COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

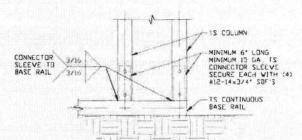
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic coples.

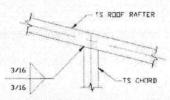
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, IN	C,

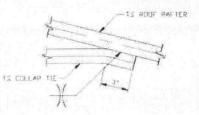
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROMIDETED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CLIENT: TBS	SHT. 12	DWG. ND: SK-3		REV. 6
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JDE	ND: 160225/
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING E			
DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE			

CONNECTION DETAILS





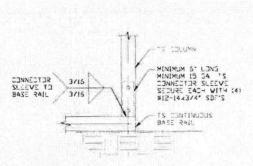


10 COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE NTS

RAFTER TO CHORD CONNECTION DETAIL

SCALE NTS

COLLAR TIE CONNECTION DETAIL



IS TRUSSED RAFTER CHURD OR HEADER

IS END COLUMN
OR BOOK WINDOV
PRAME POST
IS HEADER BASE
RAIL OR WINDOV

13 COLUMN/BASE RAIL CONNECTION DETAIL

BASE RAIL CONNECTION DETAIL

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

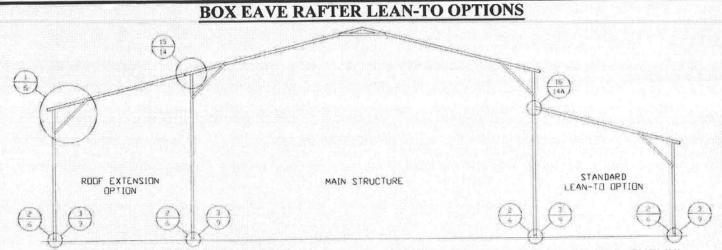
THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: JG 631 S 631 S LAK CHECKED BY: PDH 30'-0"x20'-0"

TUBULAR BUILDING SYSTEMS
631 SE INDUSTRIAL CIRCLE
LAKE CITY, FLORIDA 32025
30'-0"x20'-0" ENCLOSED BUILDING EXP. B

PROJECT MGR: VSM DATE: 7-29-21 SCALE: NTS 17300S/20352S

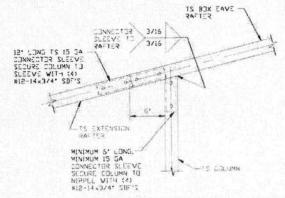
CLIENT: TBS SHT. 13 DWG. ND: SK-3 REV.: 6



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

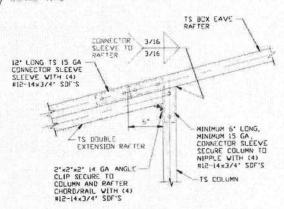
SCALE: NTS
MAIN BUILDING COLUMNS WITH LEAN-TO DR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR
EAVE HEIGHTS 16'-0' < TO < 20'-0'
MAIN BUILDING COLUMNS WITH LEAN-TO DR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR
MAIN BUILDING COLUMNS WITH LEAN-TO DR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR
EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) < TO < 15'-0'
MAIN BUILDING COLUMNS WITH LEAN-TO DR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR
EAVE HEIGHTS 10'-0' < TO < 13'-0' (12'-0' FOR HIGH WIND) (WITH 4'-4' INSERT)
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR
EAVE HEIGHTS < 10'-0'
EAVE HEIGHTS < 10'-0'

TO BOTH FAVE TO SERVE AND A REPORT OF TO BE SINGLE COLUMNS FOR
EAVE BRACES MUST BE 4'-0' (5'-0' FOR HIGH WIND) WHEN LEAN-TO'S ARE ADDED

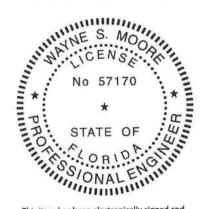


SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS \(\) 15'-0'

15



SIDE EXTENSION RAFTER/COLUMN DETAIL
FOR RAFTER SPANS 15'-0" < TO \(\) 24'-0"



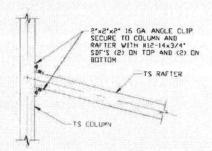
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.
--

CLIENT: TBS	SHT, 14	DWG. NO: SK-3		REV. 6		
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525		
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING E			ING EXP. B		
DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE					

BOX EAVE RAFTER LEAN-TO OPTIONS



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS & 15'-0'

TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0" < TO ≤ 24'-0"

SCALE: NTS

16A



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

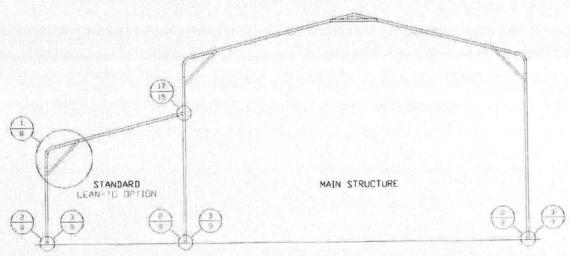
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND COMMUNITIES. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PROMINITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL, ACTION.

DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE				
CHECKED BY PDH		AKE CITY, FLOF -0" ENCLOSED			
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 160225/ 005/203525	
CLIENT: TBS	SHT. 14A	DVG. NO SK-3		REVA 6	

BOW RAFTER LEAN-TO OPTIONS



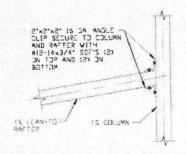
TYPICAL BOW RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE NTS

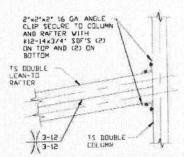
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS 13'-0' (12'-0' FOR HIGH WIND) < TO < 15'-0' ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS 10'-0' < TO < 13'-0' (12'-0' FOR HIGH WIND) < WITH 4'-4' INSERT)

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS (10'-0' < TO < 13'-0' (12'-0' FOR HIGH WIND) < WITH 4'-4' INSERT)

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS (10'-0' (5'-0' FOR HIGH WIND) WHEN LEAN-TO'S ARE ADDED



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 15'-0"



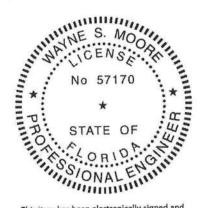
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 15'-0' < TO \(24'-0'')

SCALE: NTS

SCALE NIS

17

17A



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

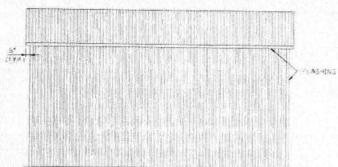
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, I	NC.

THIS DOCUMENT IS THE PROPERTY OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

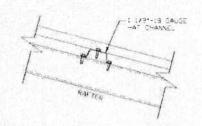
DRAWN BY: JG CHECKED BY: PDH	T LA	I SE INDUSTRIAL CI AKE CITY, FLORIDA -0" ENCLOSED BUILL		32025	
PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	173	005/203525	
CLIENT: TBS	SHT, 15	DWG. ND: SK-3	1.3	REV. 6	

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION 29 GA GAL WALL PANELS A CHANNELS A TYP 3 TLASMING

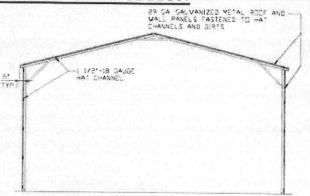
TYPICAL END ELEVATION VERTICAL ROOF/SIDING OPTION



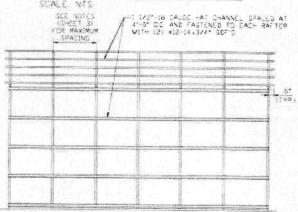
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING OPTION



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

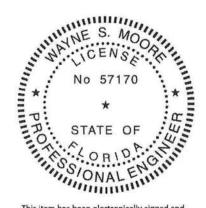


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE NTS NDTE IS WALL BERTS CAN BE USED AS AN OPTION IN PLACE OF HAT CHANNELS IS CIRTS MUST BE SPAID AT 4-0' MAX J CC



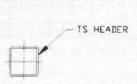
This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC	Ξ.

THIS INCLINENT IS THE PROPERTY OF NOEWE AND ASSOCIATES ENGINEERING A	ente.
CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE	NU.
THE WITH THE PROPERTY OF THE PROPERTY OF THE LIFE WAISE USE	OF
THIS DOCUMENT IS STRUCTLY PROHIBITED AND ANY DEFRINGEMENT THEREUPON	MAY
HE SUBJECT TO LEGAL ACTION.	

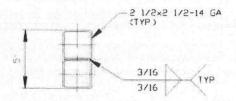
CLIENT: TBS	SHT. 16	DWG. NO: SK-3		REV. 6		
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS	JOB NO 160223 17300S/20352S			
CHECKED BY PDH		LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
DRAWN BY: JG	63	631 SE INDUSTRIAL CIRCLE				

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 10'-0"

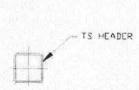
SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTH ≤ 15'-0"

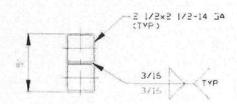
SCALE NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS ≤ 12'-0'

SCALE NTS



HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH ≤ 15'-0"

SCALE NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, I	NC.

THIS DOCUMENT IS THE PROPERTY OF NOORE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STRICTLY PRODUCTION AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE LAKE CITY, FLORIDA 32025						
CHECKED BY: PDH	30'-0"x20'-0" ENCLOSED BUILDING EXP. B						
PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND 160225/ 005/203525			
CLIENT: TBS	SHT. 17	DWG. ND: SK-3		REV. 6			

FLOOD VENT DETAIL FRAME OPENING FOR FLOOD VENT WITH TS 2 1/2" x2 1/2" MEMBERS (MAICH ADJACENT RAFTER POSTS AND BASERAIL) 1/2"-18S OR F EXPANDED METAL ATTACH W/ McNICHOLS SQUARE FASTENERS OR APPROVED EQUAL AT 6" D.C. ATTACH W/ METAL TEK SCREWS ZT POST MAX. CRADE TS BASE 1'-U-RAIL GRADE GRADE

TYPICAL FLOOD VENT DETAIL

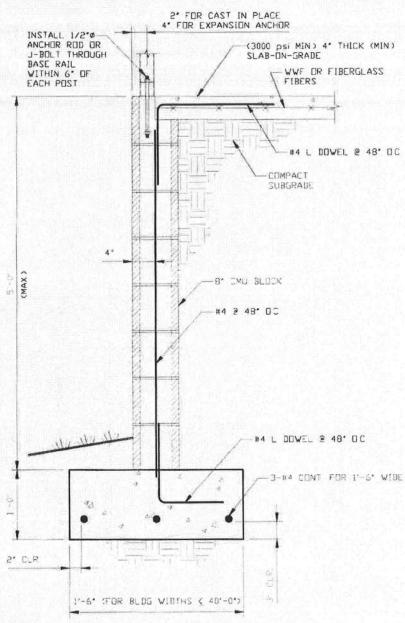
- I MINIMUM VENT SPACE REQUIRED = 1 SQ INCH OF JPEN VENT AREA PER SQ FOOT OF BUILDING AREA
- 2 THERE SHALL BE A MINIMUM OF TWO OPENINGS ON DIFFERENT SIDES FOR EACH ENCLOSED BUILDING
- 3 APPLY 13 FACTOR WHEN CALCULATING TOTAL OPEN AREA WHEN USING 1/2'-18GA S OR F EXPANDED METAL.
- 4 TOTAL OPEN AREA OF VENT = LXH(MIN 12")
- 5 FLOOD VENT DETAIL COMPLIES WITH FEMAINFIP
- 6 PREFABRICATED FLOOD VENTS MEETING THE REQUIREMENTS OF FEMA/NIFIP MAY BE USED



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE				
ENGINEEDING AND CONCLUTING INC	CHECKED BY PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B				
THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF	PROJECT MGR: WSM	DATE: 7-29-21	SCALE: NTS	JOB NO 16022S/ 17300S/20352S		
THIS DOCUMENT IS STRUCTLY PROMUNITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 18	DVG. ND SK-3	REV. 6		

STAND -ALONE STEM WALL DETAIL



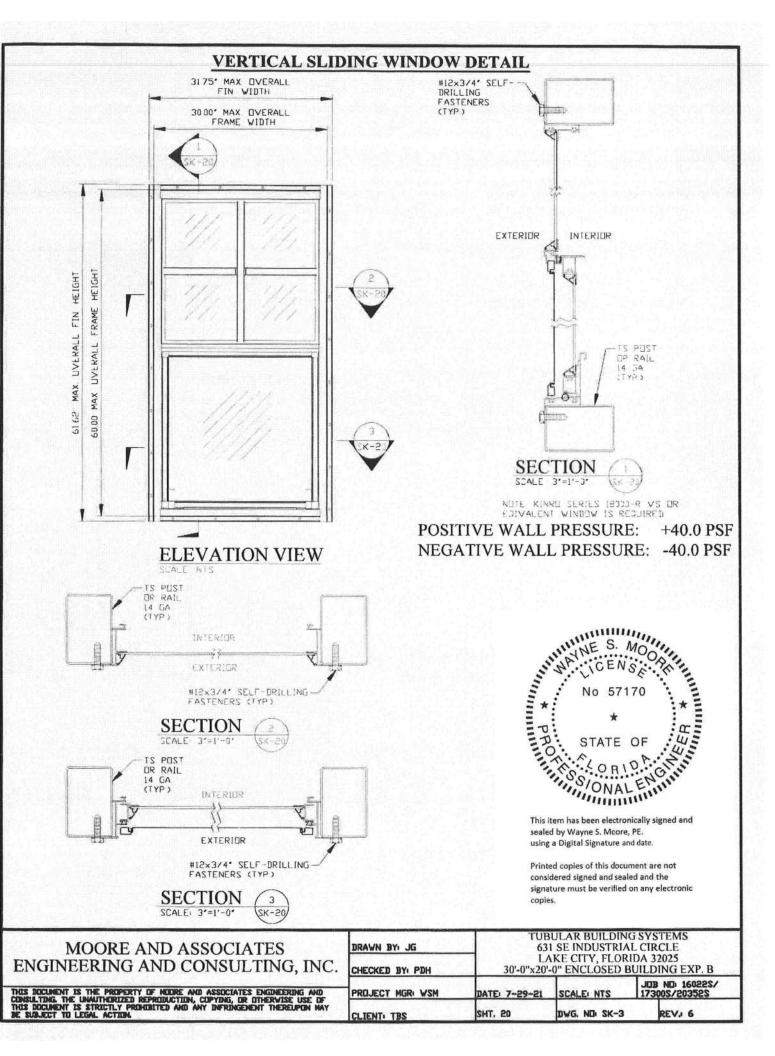
STAND-ALDNE CONCRETE MASONRY UNIT (CMU) FOUNDATION STEM WALL DETAIL

STALE: NTS



This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

MOORE AND ASSOCIATES	DRAWN BY: JG	TUBULAR BUILDING SYSTEMS 631 SE INDUSTRIAL CIRCLE					
ENGINEERING AND CONSULTING, INC.	CHECKED BY PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B					
THIS DOCUMENT IS THE PROPERTY OF HOURE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: VSM	DATE: 7-29-21	SCALE: NTS		ND: 16022S/ 0S/20352S		
CONSULTING THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERVISE USE OF THIS DOCUMENT IS STREETLY PROMISETED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.	CLIENT: TBS	SHT. 19	DVG. NO: SK-3	-	REV. 6		



OPTIONAL CONCRETE STRIP FOOTING FUNTING AND BASE 30'-0" MAXIMUM LEMESTH RAIL TS BASE RALL IS RAFIER DELIMA CONCRETE STRIP FOOTING PLAN

1 STRIP FOOTING DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

CUNCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

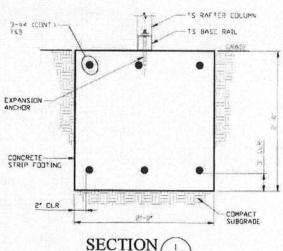
- 3 FOR FOUNDATIONS, MINIMUM CONCRETE COMER DWER REINFORCING BARS SHALL BE PER ACT-318: 3' IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND I 1/2' ELSEWHERE
- THE STRIP FOOTING REINFORCING STEEL SHALL BE ASTM ASID GRADE SO
- 5 REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED

 - A) REINFERGEMENT IS BENT COLD

 B) THE DIAMETER OF THE BEND,

 MEASURED ON THE INSIDE OF THE

 BAR, IS NOT LESS THAN SIX-BAP DIAMETERS
 - D) REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD



(SK-21)

* COURDINATE WITH LOCAL CODES/ORD

This item has been electronically signed and sealed by Wayne S. Moore, PE. using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

THIS DOCUMENT IS THE PROPERTY OF HOUSE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNAUTHORIZED REPRODUCTION, COPYING, OR OTHERWISE USE OF THIS DOCUMENT IS STREETLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION.

CLIENT: TBS	SHT. 21	DWG. NO SK-3	0	REV. 6		
PROJECT MGR: VSM	DATE: 7-29-21			9 ND: 160225/ 3005/203525		
CHECKED BY: PDH	LAKE CITY, FLORIDA 32025 30'-0"x20'-0" ENCLOSED BUILDING EXP. B					
DRAWN BY: JG	631 SE INDUSTRIAL CIRCLE					